SCOPE OF ACCREDITATION

Laboratory Name :	THE ULTIMATE CALIBRATION SERVICES, GALA NO 1 & 2, KAMALKUNJ CO-OP HSG SOCIETY, BADLAPUR, THANE, MAHARASHTRA, 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-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	By using six and half digital Multimeter by Direct/comparison Method	100 µA to 1 mA	0.72 % to 0.20 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz and1 kHz	By using six and half digital Multimeter by Direct/comparison Method	1 A to 10 A	0.16 % to 0.38 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz and1 kHz	By using six and half digital Multimeter by Direct/comparison Method	1 mA to 10 mA	0.20 % to 0.25 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz and1 kHz	By using six and half digital Multimeter by Direct/comparison Method	10 mA to 100 mA	0.25 % to 0.17 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz and1 kHz	By using six and half digital Multimeter by Direct/comparison Method	100 mA to 1 A	0.17%
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage Tester @ 50 Hz	By using HV Probe with DMM by Direct method	1 kV to 40 kV	6.6%
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz, 60 Hz and 1 kHz	By using six and half digital Multimeter by Direct/comparison Method	10 mV to 100 mV	0.56 % to 0.12 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz, 60 Hz and 1 kHz	By using six and half digital Multimeter by Direct/comparison Method	1 mV to 10 mV	5.2 % to 0.56 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz, 60 Hz and 1 kHz	By using six and half digital Multimeter by Direct/comparison Method	1 V to 10 V	0.19%

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz, 60 Hz and 1 kHz	By using six and half digital Multimeter by Direct/comparison Method	10 V to 100 V	0.19%
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz, 60 Hz and 1 kHz	By using six and half digital Multimeter by Direct/comparison Method	100 mV to 1 V	0.12 % to 0.19 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz, 60 Hz and 1 kHz	By using six and half digital Multimeter by Direct/comparison Method	100 V to 750 V	0.19 % to 0.12 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	using Multifunction Calibrator by Direct method	1 mA to 10 mA	0.4%
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	using Multifunction Calibrator by Direct method	10 mA to 100 mA	0.4 % to 0.4 %

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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	using Multifunction Calibrator by Direct method	100 mA to 1 A	0.4 % to 0.4 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	using Multifunction Calibrator by Direct method.	200 µA to 1 mA	1.23 % to 0.4 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz .	using Multifunction Calibrator by Direct method	1 A to 10 A	0.4 % to 0.45 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC High Current @ 50 Hz	By using Multifunction Calibrator with current coil by Direct Method	20 A to 1000 A	1.1%
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	using Multifunction Calibrator by Direct method	10 V to 100 V	0.37 % to 0.37 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	using Multifunction Calibrator by Direct method	1 V to 10 V	0.37%

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21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	using Multifunction Calibrator by Direct method	10 mV to 100 mV	1.22 % to 0.36 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	using Multifunction Calibrator by Direct method	100 mV to 1 V	0.36 % to 0.37 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	using Multifunction Calibrator by Direct method	100 V to 750 V	0.37 % to 0.39 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	using Multifunction Calibrator by Direct method	5 mV to 10 mV	4.71 % to 1.22 %
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	By using Decade Capacitance Box	1 µF to 10 µF	1.2%
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	By using Decade Capacitance Box	1 nF to 10 nF	1.2%

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27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	By using Decade Capacitence Box	10 µF to 100 µF	1.2 % to 1.3 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	By using Decade Capacitance Box	10 nF to 100 nF	1.2%
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	By using Decade Capacitance Box	100 nF to 1000 nF	1.2%
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	By Direct Method using Decade Inductance Box	1 mH to 10 mH	1.3%
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	By Direct Method using Decade Inductance Box	10 mH to 100 mH	1.2%
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	By Direct Method using Decade Inductance Box	100 µH to 1000 µH	1.7 % to 1.3 %

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33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	By Direct Method using Decade Inductance Box	100mH to 1000mH	1.2%
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	By using six and half digital Multimeter by Direct/Comparison Method	100 mA to 1 A	0.065 % to 0.13 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	By using six and half digital Multimeter by Direct/Comparison Method	1 A to 10 A	0.13 % to 0.19 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	By using six and half digital Multimeter by Direct/Comparison Method	1 mA to 10 mA	0.13 % to 0.081 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	By using six and half digital Multimeter by Direct/Comparison Method	10 µA to 100 µA	1.19 % to 0.14 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	By using six and half digital Multimeter by Direct/Comparison Method	10 mA to 100 mA	0.081 % to 0.065 %

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39	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	By using six and half digital Multimeter by Direct/Comparison Method	100 µA to 1 mA	0.14 % to 0.13 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage Tester	By using High Voltage Probe with Digital Multimeter by Direct Method	1 kV to 40 kV	6.6%
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	By using six and half digital Multimeter by Direct/ comparison Method	0.1 mV to 1 mV	4.15 % to 0.43 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	By using six and half digital Multimeter by Direct/ comparison Method	1 mV to 10 mV	0.43 % to 0.048 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	By using six and half Digit Multimeter by Direct/ comparison method.	1 V to 10 V	0.017%
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	By using six and half digital Multimeter by Direct/ comparison Method	10 mV to 100 mV	0.048 % to 0.019 %

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45	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	By using six and half digital Multimeter by Direct/comparison Method	10 V to 100 V	0.017 % to 0.018 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	By using six and half digital Multimeter by Direct/ comparison Method	100 mV to 1 V	0.019 % to 0.017 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	By using six and half digital Multimeter by Direct/comparison Method	100 V to 1000 V	0.018 % to 0.019 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Low Resistance Measurement	By using Multifunction Calibrator and six and half digit Multimeter by V / I Method	1 mohm to 10 mohm	0.13%
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Low Resistance Measurement	By using Multifunction Calibrator and six and half digit Multimeter by V / I Method	10 mohm to 100 mohm	0.13%

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50	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Low Resistance Measurement	By using Multifunction Calibrator and six and half digit Multimeter by V / I Method	100 mohm to 1000 mohm	0.13%
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	By using six and half digital Multimeter by Direct Method	1 k ohm to 10 k ohm	0.013%
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	By using six and half digital Multimeter by Direct Method	1 Mohm to 10 Mohm	0.013 % to 0.047 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	By using six and half digital Multimeter by Direct Method	1 ohm to 10 ohm	0.46 % to 0.06 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	By using six and half digital Multimeter by Direct Method:	10 k ohm to 100 k ohm	0.013%

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55	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	By using six and half digital Multimeter by Direct Method	10 Mohm to 100 Mohm	0.047 % to 0.95 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	By using six and half digital Multimeter by Direct Method	10 ohm to 100 ohm	0.06 % to 0.016 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	By using six and half digital Multimeter by Direct Method	100 kohm to 1 Mohm	0.013%
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	By using six and half digital Multimeter by Direct Method	100 ohm to 1 k ohm	0.016 % to 0.013 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	using Multifunction Calibrator by Direct method	1 A to 10 A	0.25 % to 0.31 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	using Multifunction Calibrator by Direct method	1 mA to 10 mA	0.26 % to 0.3 %

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61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	using Multifunction Calibrator by Direct method	10 mA to 100 mA	0.27 % to 0.26 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	using Multifunction Calibrator by Direct method	100 mA to 1 A	0.26 % to 0.25 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	using Multifunction Calibrator by Direct method	200 µA to 1 mA	0.92 % to 0.26 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Current	By using Multifunction Calibrator with current coil by Direct method.	20 A to 1000 A	1.25 % to 0.95 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	using Multifunction Calibrator by Direct Method	1 mV to 10 mV	11.34 % to 0.26 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	using Multifunction Calibrator by Direct Method	1 V to 10 V	0.26 % to 0.25 %

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67	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	using Multifunction Calibrator by Direct Method	10 mV to 100 mV	0.26 % to 0.23 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	using Multifunction Calibrator by Direct Method	10 V to 100 V	0.25%
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	using Multifunction Calibrator by Direct Method	100 mV to 1 V	0.23 % to 0.26 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	using Multifinction calibrator by Direct method	100 V to 1000 V	0.25 % to 0.24 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance	By using low value Resistance Box by Direct Method	10 mohm to 100 mohm	2.90 % to 1.81 %
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance	By using low value Resistance Box by Direct Method	100 mohm to 1000 mohm	1.81 % to 0.43 %

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73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	using Decade Resistance Box by Direct Method.	1 kohm to 10 kohm	0.13 % to 0.13 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	using Decade Resistance Box by Direct Method.	1 Mohm to 10 Mohm	0.13 % to 0.13 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	using Decade Resistance Box by Direct Method	1 ohm to 10 ohm	1.25 % to 0.17 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	using Decade Resistance Box by Direct Method.	10 kohm to 100 kohm	0.12%
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	using Decade Resistance Box by Direct Method.	10 Mohm to 100 Mohm	0.12 % to 1.15 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	using Decade Resistance Box by Direct Method.	10 ohm to 100 ohm	0.17 % to 0.12 %

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79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	using Decade Resistance Box by Direct Method.	100 kohm to 1 Mohm	0.12 % to 0.13 %
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	using Decade Resistance Box by Direct Method.	100 ohm to 1 kohm	0.12%
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD PT-100, Temperature Indicators / Controllers / Sensing Devices	by using six and half digit Multimeter by Direct Method	(-) 200 °C to 600 °C	0.39°C
82	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple Type B / Temperature Indicators/ Controllers / Sensing Devices	by using six and half digit Multimeter by Direct Method	450 °C to 1800 °C	1.2°C
83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple Type E / Temperature Indicators / Controllers / Sensing Devices	by using six and half digit Multimeter by Direct Method	(-) 200 °C to 1000 °C	0.52°C
84	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple Type J / Temperature Indicators/ Controllers / Sensing Devices	by using six and half digit Multimeter by Direct Method	(-) 200 °C to 1200 °C	0.34°C

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85	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple Type K / Temperature Indicators / Controllers / Sensing Devices	by using six and half digit Multimeter by Direct Method	(-) 200 °C to 1370 °C	0.36°C
86	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple Type N / Temperature Indicators / Controllers / Sensing Devices	by using six and half digit Multimeter by Direct Method	(-) 200 °C to 1300 °C	0.47°C
87	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple Type R / Temperature Indicators / Controllers / Sensing Devices	by using six and half digit Multimeter by Direct Method	0 to 1750 °C	1.18°C
88	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple Type S / Temperature Indicators / Controllers / Sensing Devices	by using six and half digit Multimeter by Direct Method	0 to 1750 °C	1.18°C
89	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple Type T / Temperature Indicators / Controllers / Sensing Devices	by using six and half digit Multimeter by Direct Method	(-) 200 °C to 400 °C	0.36°C
90	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD PT-100 Temperature Indicators / Controllers / Sensing Devices	By using Universal Calibrator by Direct Method	(-)200 °C to 600 °C	0.4°C

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91	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple Type B Temperature Indicators / Controllers / Sensing Devices	By using Universal Calibrator by Direct Method	450 °C to 1800 °C	0.59°C
92	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple Type E Temperature Indicators / Controllers / Sensing Devices	By using Universal Calibrator by Direct Method	(-)200 °C to 1000 °C	0.36°C
93	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple Type J Temperature Indicators / Controllers / Sensing Devices	by using Universal Calibrator by Direct Method	(-)200 °C to 1200 °C	0.36°C
94	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple Type K Temperature Indicators / Controllers / Sensing Devices	By using Universal Calibrator by Direct Method	(-)200 °C to 1370 °C	0.36°C
95	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple Type N Temperature Indicators / Controllers / Sensing Devices	By using Universal Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.37°C
96	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple Type R Temperature Indicators / Controllers / Sensing Devices	By using Universal Calibrator by Direct Method	0 to 1750 °C	0.59°C

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97	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple Type S Temperature Indicators / Controllers / Sensing Devices	By using Universal Calibrator by Direct Method	0 to 1750 °C	0.58°C
98	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple Type T Temperature Indicators / Controllers / Sensing Devices	By using Universal Calibrator by Direct Method	(-) 200 °C to 400 °C	0.36°C
99	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Digital Timer / Stop Watch / Hour meters	by using Digital Time Calibrator by Comparison Method	1 s	0.12s
100	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Digital Timer / Stop Watch / Hour meters	by using Digital Time Calibrator by Comparison Method	1 s to 10 s	0.12 s to 0.23 s
101	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Digital Timer / Stop Watch / Hour meters	by using Digital Time Calibrator by Comparison Method	10 s to 60 s	0.23 s to 0.52 s
102	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Digital Timer / Stop Watch / Hour meters	by using Digital Time Calibrator by Comparison Method	18000 s (5 hr) to 36000 s (10 hr)	7.4 s to 13.7 s

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103	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Digital Timer / Stop Watch / Hour meters	by using Digital Time Calibrator by Comparison Method	3600 s(1hr) to 18000 s (5 hr)	1.57 s to 7.4 s
104	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Digital Timer / Stop Watch / Hour meters	by using Digital Time Calibrator by Comparison Method	36000 s (10 hr) to 86400 s (24 hrs)	13.7 s to 27 s
105	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Digital Timer / Stop Watch / Hour meters	by using Digital Time Calibrator by Comparison Method	60 s to 3600 s	0.51 s to 1.6 s
106	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	By using six and half digital Multimeter by Direct Method	10 Hz to 50 Hz	0.035 % to 0.015 %
107	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	By using six and half digital Multimeter by Direct Method	50 Hz to 10 kHz	0.015%
108	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	using Calibrator by direct method	10 Hz to 45 Hz	0.036 % to 0.17 %

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109	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	using calibrator by direct method	100 Hz to 1000 Hz	0.17%
110	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	using Calibrator by direct method	1000 Hz to 10000 Hz	0.17 % to 0.006 %
111	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	using Calibrator by direct method	50 Hz to 100 Hz	0.17%
112	MECHANICAL-ACCELERATION AND SPEED	SPEED (Non-Contact type) Centrifuge / RPM Source	By using Digital Tachometer and procedure based on SANAS TR 45-2 guidelines.	50 rpm to 5000 rpm	1.6 rpm to 7.1 rpm
113	MECHANICAL-ACCELERATION AND SPEED	SPEED (Non-Contact type) Centrifuge /RPM Source	By Comparison method using Digital Tachometer and procedure based on SANAS TR 45-2 guidelines.	5000 rpm to 15000 rpm	7.1 rpm to 10 rpm

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114	MECHANICAL-ACCELERATION AND SPEED	SPEED (Non-Contact type) RPM Source	By Comparison method using Digital Tachometer and procedure based on SANAS TR 45-2 guidelines.	15000 rpm to 90000 rpm	10 rpm to 20 rpm
115	MECHANICAL-ACCELERATION AND SPEED	SPEED (NON-CONTACT TYPE) Tachometer	By using Digital Tachometer and Variable drive source by comparison method. Procedure based on SANAS TR 45-2 guidelines.	>10000 rpm to 15000 rpm	10rpm
116	MECHANICAL-ACCELERATION AND SPEED	SPEED (NON-CONTACT TYPE) Tachometer	By using Digital Tachometer and Variable drive source by comparison method. Procedure based on SANAS TR 45-2 guidelines.	100 rpm to 500 rpm	2.5rpm
117	MECHANICAL-ACCELERATION AND SPEED	SPEED (NON-CONTACT TYPE) Tachometer	By using Digital Tachometer and Variable drive source by comparison method. Procedure based on SANAS TR 45-2 guidelines.	1000 rpm to 5000 rpm	4.2rpm

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118	MECHANICAL-ACCELERATION AND SPEED	SPEED (NON-CONTACT TYPE) Tachometer	By using Digital Tachometer and Variable drive source by comparison method. Procedure based on SANAS TR 45-2 guidelines.	15000 rpm to 20000 rpm	13rpm
119	MECHANICAL-ACCELERATION AND SPEED	SPEED (NON-CONTACT TYPE) Tachometer	By using Digital Tachometer and Variable drive source by comparison method. Procedure based on SANAS TR 45-2 guidelines.	20000 rpm to 50000 rpm	29rpm
120	MECHANICAL-ACCELERATION AND SPEED	SPEED (NON-CONTACT TYPE) Tachometer	By using Digital Tachometer and Variable drive source by comparison method. Procedure based on SANAS TR 45-2 guidelines.	50 rpm to 100 rpm	1.1 rpm to 1.6 rpm

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121	MECHANICAL-ACCELERATION AND SPEED	SPEED (NON-CONTACT TYPE) Tachometer	By using Digital Tachometer and Variable drive source by comparison method. Procedure based on SANAS TR 45-2 guidelines.	500 rpm to 1000 rpm	2.5rpm
122	MECHANICAL-ACCELERATION AND SPEED	SPEED (NON-CONTACT TYPE) Tachometer	By using Digital Tachometer and Variable drive source by comparison method. Procedure based on SANAS TR 45-2 guidelines.	5000 rpm to 10000 rpm	7rpm
123	MECHANICAL-ACCELERATION AND SPEED	SPEED (NON-CONTACT TYPE) Tachometer	By using Digital Tachometer and Variable drive source by comparison method. Procedure based on SANAS TR 45-2 guidelines.	50000 rpm to 90000 rpm	53rpm
124	MECHANICAL-VOLUME	VOLUME Pipettes, Burettes, Volumetric flask & Measuring cylinders, Beaker, Jar	By using Electronic Weighing Balance with a readability of 0.1 mg by Gravimetric Method . Procedure as per ISO 4787 standards .	> 50 ml to 100 ml	5.4 µl

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125	MECHANICAL-VOLUME	VOLUME Micropipette (Piston Operated)	By using Electronic Weighing Balance with a readability of 0.01 mg by Gravimetric Method . Procedure as per ISO 8655 part 6 standards	> 10 µl to 100 µl	0.22µl
126	MECHANICAL-VOLUME	VOLUME Micropipette (Piston Operated)	By using Electronic Weighing Balance with readability of 0.01 mg, by Gravimetric Method. Procedure as per ISO 8655 part 6 standard .	1 ml to 10 ml	3.0µl
127	MECHANICAL-VOLUME	VOLUME Pipettes & Burettes, Syringe(Non medical purpose only)	By using Electronic Weighing Balance with a readability of 0.01 mg by Gravimetric Method . Procedure as per ISO 4787 standards .	0.1 ml to 1 ml	0.33µl
128	MECHANICAL-VOLUME	VOLUME Pipettes, Burettes, Volumetric flask & Measuring cylinders, Beaker, Jar, Test Tubes	By using Electronic Weighing Balance with a readability of 0.01mg by Gravimetric Method . Procedure as per ISO 4787 standards .	> 10 ml to 50 ml	5.4µl

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129	MECHANICAL-VOLUME	VOLUME Pipettes, Burettes, Volumetric flask and Measuring cylinders, Syringe(Non medical purpose only), Beaker, Jar.	By using Electronic Weighing Balance with a readability of 0.01 mg , by Gravimetric Method. Procedure as per ISO 4787 standards .	> 1 ml to 10 ml	0.82µl
130	MECHANICAL-VOLUME	VOLUME Micropipette (Piston Operated)	By using Electronic Weighing Balance with a readability of 0.01 mg by Gravimetric Method . Procedure as per ISO 8655 part 6 standards .	> 100 µl to 1000 µl	0.55µl
131	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital Balance Class II and coarser. d = 0.1 g	By using F1 Class Standard Weight of coarser based on OIML R 76 - 1	up to 10000 g	0.08g
132	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital weighing Balance Class II and coarser. d = 1 mg	By using E2 Class Standard Weight based OIML R 76 -1	up to 60 g	0.58mg
133	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital weighing Balance Class II and coarser. d = 0.1 g	By using F1 Class Standard Weight based OIML R 76 -1	up to 3000 g	59.27mg

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134	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital weighing Balance Class II and coarser. d = 1 mg	By using E2 Class Standard Weight based OIML R 76 -1	up to 220 g	0.58mg
135	MECHANICAL-WEIGHTS	Weights Class F1 and coarser	By using E2 Class Weights / Weight Box and Digital Balance of 0.01 mg by ABBA method as per OIML - R-111-1.	10 g	0.057mg
136	MECHANICAL-WEIGHTS	Weights Class F1 and coarser	By using E2 Class Weights / Weight Box and Digital Balance of 0.1 mg by ABBA method as per OIML - R-111-1.	100 g	0.12mg
137	MECHANICAL-WEIGHTS	Weights Class F1 and coarser	By using E2 Class Weights / Weight Box and Digital Balance of 0.01 mg by ABBA method as per OIML - R-111-1.	20 g	0.057mg
138	MECHANICAL-WEIGHTS	Weights Class F1 and coarser	By using E2 Class Weights / Weight Box and Digital Balance of 0.1 mg by ABBA method as per OIML - R-111-1.	200g	0.133mg

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139	MECHANICAL-WEIGHTS	Weights Class F1 and coarser	By using E2 Class Weights / Weight Box and Digital Balance of 0.01 mg by ABBA method as per OIML - R-111-1.	50 g	0.057mg
140	MECHANICAL-WEIGHTS	Weights Class F2 and coarser	By using E2 Class Weights / Weight Box and Digital Balance of 0.01 mg by ABBA method as per OIML - R-111-1.	1 g	0.057mg
141	MECHANICAL-WEIGHTS	Weights Class F2 and coarser	By using E2 Class Weights / Weight Box and Digital Balance of 0.01 mg by ABBA method as per OIML - R-111-1.	100 mg	0.035mg
142	MECHANICAL-WEIGHTS	Weights Class F2 and coarser	By using E2 Class Weights / Weight Box and Digital Balance of 0.01 mg by ABBA method as per OIML - R-111-1.	2 g	0.057mg
143	MECHANICAL-WEIGHTS	Weights Class F2 and coarser	By using E2 Class Weights / Weight Box and Digital Balance of 0.01 mg by ABBA method as per OIML - R-111-1.	200 mg	0.035mg

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144	MECHANICAL-WEIGHTS	Weights Class F2 and coarser	By using F1 Class Weights / Weight Box and Digital Balance of 0.01 g by ABBA method as per OIML - R-111-1.	2000 g	0.01g
145	MECHANICAL-WEIGHTS	Weights Class F2 and coarser	By using E2 Class Weights / Weight Box and Digital Balance of 0.01 mg by ABBA method as per OIML - R-111-1.	5 g	0.057mg
146	MECHANICAL-WEIGHTS	Weights Class F2 and coarser	By using E2 Class Weights / Weight Box and Digital Balance of 0.01 mg by ABBA method as per OIML - R-111-1.	50 mg	0.035mg
147	MECHANICAL-WEIGHTS	Weights Class F2 and coarser	By using E2 Class Weights / Weight Box and Digital Balance of 0.01 mg by ABBA method as per OIML - R-111-1.	500 mg	0.035mg
148	MECHANICAL-WEIGHTS	Weights Class M1 and coarser	By using E2 Class Weights / Weight Box and Digital Balance of 0.01 mg by ABBA method as per OIML - R-111-1.	1 mg	0.035mg

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149	MECHANICAL-WEIGHTS	Weights Class M1 and coarser	By using E2 Class Weights / Weight Box and Digital Balance of 0.01 mg by ABBA method as per OIML - R-111-1.	10 mg	0.035mg
150	MECHANICAL-WEIGHTS	Weights Class M1 and coarser	By using F1 Class Weights / Weight Box and Digital Balance of 0.01 g by ABBA method as per OIML - R-111-1.	1000 g	0.01g
151	MECHANICAL-WEIGHTS	Weights Class M1 and coarser	By using E2 Class Weights / Weight Box and Digital Balance of 0.01 mg by ABBA method as per OIML - R-111-1.	2 mg	0.035mg
152	MECHANICAL-WEIGHTS	Weights Class M1 and coarser	By using E2 Class Weights / Weight Box and Digital Balance of 0.01 mg by ABBA method as per OIML - R-111-1.	20 mg	0.035mg
153	MECHANICAL-WEIGHTS	Weights Class M1 and coarser	By using E2 Class Weights / Weight Box and Digital Balance of 0.01 mg by ABBA method as per OIML - R-111-1.	5 mg	0.035mg

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154	MECHANICAL-WEIGHTS	Weights Class M1 and coarser	By using F1 Class Weights / Weight Box and Digital Balance of 0.01 g by ABBA method as per OIML - R-111-1.	500 g	0.01g
155	MECHANICAL-WEIGHTS	Weights Class M2 and coarser	By using F1 Class Weights / Weight Box and Digital Balance of 0.1 g by ABBA method as per OIML - R-111-1.	5000 g	0.10g
156	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature and RH Data Loggers, Digital Thermohygrometers , Temperature and RH Indicators with Sensors.	By Using Temperature / RH Sensor with Indicators, Humidity Generator by Comparison Method	20 %rh to 95 %rh @ 25°C	2.6%rh
157	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature and RH Data Loggers, Digital Thermohygrometrs, Temperature and RH Indicator with Sensors,	Digital Temperature / Humidity Indicator with Sensor, Humidity Generator by Comparison Method	5 °C to 50 °C	0.77°C

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158	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature and RH Indicator with Sensors / Systems of Stability Chambers , Humidity Chambers, Humidity Generators , Humidity Calibrators.(Single Position)	By Using Temperature/ RH indicator with sensor / Data Logger by Comparison Method	20 % rh to 95 %rh @ 25°C	2.8%rh
159	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature and RH Indicator with Sensors / Systems of Stability Chambers , Humidity Chambers, Humidity Generators , Humidity Calibrators.(Single Position)	Using Temperature/ RH Indicator with sensor / Data Logger by Comparison Method	5 °C to 50 °C @ 50% rh	0.9°C
160	THERMAL-TEMPERATURE	Glass Thermometers, RTD / Thermocouples with or without Indicator/controllers, Temperature Recorders, Temperature Gauges, Digital Thermometers, Temperature Transducers with Indicators	Oil Bath, Digital Multimeter, RTD sensor, Universal Calibrator by Comparison Method.	25 °C to 250 °C	0.7°C

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161	THERMAL-TEMPERATURE	Glass Thermometers, RTD / Thermocouples with or without Indicator/controllers, Temperature Recorders, Temperature Gauges, Digital Thermometers, Temperature Transducers with Indicators	Cold Bath, Digital Multimeter, RTD sensor, Universal Calibrator by Comparison Method	-40 °C to 25 °C	0.41°C
162	THERMAL-TEMPERATURE	RTD / Thermocouples with or without Indicator/controllers, Temperature Recorders, Temperature Gauges, Digital Thermometers, Temperature Transducers with Indicators	Dry Bath, Digital Multimeter, RTD sensor, Universal Calibrator by comparison method.	250 °C to 400 °C	0.7°C

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163	THERMAL-TEMPERATURE	Temperature Indicators with Sensors / System of Water Bath, Incubator(For Non medical purpose only), BOD Incubator(For Non medical purpose only), Ovens, Walk in Oven/Chambers, Tray Dryers, Temperature Bath,Autoclave(For Non medical purpose only)	Using RTD sensors, Digital Multimeter, Universal Calibrator, single point by Comparison Method	25 °C to 250 °C	0.73 °C
164	THERMAL-TEMPERATURE	Temperature Indicators with Sensors / System of Water Bath, Incubator, BOD, Ovens, Cold Chamber, Walk in Oven/Chambers, Tray Dryers, Refrigerators, Temperature Bath	Using RTD sensors, Digital Multimeter, Universal Calibrator, single point by Comparison Method	5 °C to 25 °C	0.73 °C

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165	THERMAL-TEMPERATURE	Temperature Indicators with Sensors / System of Water Bath, Incubator, BOD, Ovens, Deep Freezers, Cold Chamber, Walk in Oven/Chambers, Tray Dryers, Blast Freezers, Refrigerators, Temperature Bath	Using RTD sensors, Digital Multimeter, Universal Calibrator, single point by Comparison Method	-40 °C to 5 °C	0.73 °C
166	THERMAL-TEMPERATURE	Temperature indicators with Sensors / System of Ovens, Furnace, High Temperature Bath (Single Position)	Using S Type Thermocouple, Digital Multimeter, Universal Calibrator by Comparison Method	250 °C to 1000 °C	2.69°C
167	THERMAL-TEMPERATURE	Thermocouples with or without Indicator/controllers, Temperature Recorders, Temperature Gauges, Digital Thermometers, Temperature Transducers with Indicators	Using Dry Bath, Digital Multimeter, S type Thermocouple, Universal Calibrator by Comparison Method	400 °C to 600 °C	2.68 °C

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168	THERMAL-TEMPERATURE	Thermocouples with or without Indicator/controllers, Temperature Recorders, Temperature Gauges, Digital Thermometers, Temperature Transducers with Indicators	Using Dry Bath, Digital Multimeter, S type Thermocouple, Universal Calibrator by Comparison Method	600 °C to 1000 °C	2.68 °C

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	By using six and half digital Multimeter by Direct/comparison Method	100 µA to 1 mA	0.72 % to 0.20 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz and1 kHz	By using six and half digital Multimeter by Direct/comparison Method	1 A to 10 A	0.16 % to 0.38 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz and1 kHz	By using six and half digital Multimeter by Direct/comparison Method	1 mA to 10 mA	0.20 % to 0.25 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz and1 kHz	By using six and half digital Multimeter by Direct/comparison Method	10 mA to 100 mA	0.25 % to 0.17 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz and1 kHz	By using six and half digital Multimeter by Direct/comparison Method	100 mA to 1 A	0.17%
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage Tester @ 50 Hz	By using HV Probe with DMM by Direct method	1 kV to 40 kV	6.6%
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz, 60 Hz and 1 kHz	By using six and half digital Multimeter by Direct/comparison Method	10 mV to 100 mV	0.56 % to 0.12 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz, 60 Hz and 1 kHz	By using six and half digital Multimeter by Direct/comparison Method	1 mV to 10 mV	5.2 % to 0.56 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz, 60 Hz and 1 kHz	By using six and half digital Multimeter by Direct/comparison Method	1 V to 10 V	0.19%

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz, 60 Hz and 1 kHz	By using six and half digital Multimeter by Direct/comparison Method	10 V to 100 V	0.19%
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz, 60 Hz and 1 kHz	By using six and half digital Multimeter by Direct/comparison Method	100 mV to 1 V	0.12 % to 0.19 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz, 60 Hz and 1 kHz	By using six and half digital Multimeter by Direct/comparison Method	100 V to 750 V	0.19 % to 0.12 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	using Multifunction Calibrator by Direct method	1 mA to 10 mA	0.4%
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	using Multifunction Calibrator by Direct method	10 mA to 100 mA	0.4 % to 0.4 %

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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	using Multifunction Calibrator by Direct method	100 mA to 1 A	0.4 % to 0.4 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	using Multifunction Calibrator by Direct method.	200 µA to 1 mA	1.23 % to 0.4 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz .	using Multifunction Calibrator by Direct method	1 A to 10 A	0.4 % to 0.45 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC High Current @ 50 Hz	By using Multifunction Calibrator with current coil by Direct Method	20 A to 1000 A	1.1%
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	using Multifunction Calibrator by Direct method	10 V to 100 V	0.37 % to 0.37 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	using Multifunction Calibrator by Direct method	1 V to 10 V	0.37%

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21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	using Multifunction Calibrator by Direct method	10 mV to 100 mV	1.22 % to 0.36 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	using Multifunction Calibrator by Direct method	100 mV to 1 V	0.36 % to 0.37 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	using Multifunction Calibrator by Direct method	100 V to 750 V	0.37 % to 0.39 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	using Multifunction Calibrator by Direct method	5 mV to 10 mV	4.71 % to 1.22 %
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	By using Decade Capacitance Box	1 µF to 10 µF	1.2%
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	By using Decade Capacitance Box	1 nF to 10 nF	1.2%

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27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	By using Decade Capacitence Box	10 µF to 100 µF	1.2 % to 1.3 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	By using Decade Capacitance Box	10 nF to 100 nF	1.2%
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	By using Decade Capacitance Box	100 nF to 1000 nF	1.2%
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	By Direct Method using Decade Inductance Box	1 mH to 10 mH	1.3%
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	By Direct Method using Decade Inductance Box	10 mH to 100 mH	1.2%
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	By Direct Method using Decade Inductance Box	100 µH to 1000 µH	1.7 % to 1.3 %

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33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	By Direct Method using Decade Inductance Box	100mH to 1000mH	1.2%
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	By using six and half digital Multimeter by Direct/Comparison Method	100 mA to 1 A	0.065 % to 0.13 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	By using six and half digital Multimeter by Direct/Comparison Method	1 A to 10 A	0.13 % to 0.19 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	By using six and half digital Multimeter by Direct/Comparison Method	1 mA to 10 mA	0.13 % to 0.081 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	By using six and half digital Multimeter by Direct/Comparison Method	10 µA to 100 µA	1.19 % to 0.14 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	By using six and half digital Multimeter by Direct/Comparison Method	10 mA to 100 mA	0.081 % to 0.065 %

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39	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	By using six and half digital Multimeter by Direct/Comparison Method	100 µA to 1 mA	0.14 % to 0.13 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage Tester	By using High Voltage Probe with Digital Multimeter by Direct Method	1 kV to 40 kV	6.6%
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	By using six and half digital Multimeter by Direct/ comparison Method	0.1 mV to 1 mV	4.15 % to 0.43 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	By using six and half digital Multimeter by Direct/ comparison Method	1 mV to 10 mV	0.43 % to 0.048 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	By using six and half Digit Multimeter by Direct/ comparison method.	1 V to 10 V	0.017%
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	By using six and half digital Multimeter by Direct/ comparison Method	10 mV to 100 mV	0.048 % to 0.019 %

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45	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	By using six and half digital Multimeter by Direct/comparison Method	10 V to 100 V	0.017 % to 0.018 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	By using six and half digital Multimeter by Direct/ comparison Method	100 mV to 1 V	0.019 % to 0.017 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	By using six and half digital Multimeter by Direct/comparison Method	100 V to 1000 V	0.018 % to 0.019 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Low Resistance Measurement	By using Multifunction Calibrator and six and half digit Multimeter by V / I Method	1 mohm to 10 mohm	0.13%
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Low Resistance Measurement	By using Multifunction Calibrator and six and half digit Multimeter by V / I Method	10 mohm to 100 mohm	0.13%

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50	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Low Resistance Measurement	By using Multifunction Calibrator and six and half digit Multimeter by V / I Method	100 mohm to 1000 mohm	0.13%
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	By using six and half digital Multimeter by Direct Method	1 k ohm to 10 k ohm	0.013%
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	By using six and half digital Multimeter by Direct Method	1 Mohm to 10 Mohm	0.013 % to 0.047 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	By using six and half digital Multimeter by Direct Method	1 ohm to 10 ohm	0.46 % to 0.06 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	By using six and half digital Multimeter by Direct Method:	10 k ohm to 100 k ohm	0.013%

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55	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	By using six and half digital Multimeter by Direct Method	10 Mohm to 100 Mohm	0.047 % to 0.95 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	By using six and half digital Multimeter by Direct Method	10 ohm to 100 ohm	0.06 % to 0.016 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	By using six and half digital Multimeter by Direct Method	100 kohm to 1 Mohm	0.013%
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	By using six and half digital Multimeter by Direct Method	100 ohm to 1 k ohm	0.016 % to 0.013 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	using Multifunction Calibrator by Direct method	1 A to 10 A	0.25 % to 0.31 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	using Multifunction Calibrator by Direct method	1 mA to 10 mA	0.26 % to 0.3 %

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61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	using Multifunction Calibrator by Direct method	10 mA to 100 mA	0.27 % to 0.26 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	using Multifunction Calibrator by Direct method	100 mA to 1 A	0.26 % to 0.25 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	using Multifunction Calibrator by Direct method	200 µA to 1 mA	0.92 % to 0.26 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Current	By using Multifunction Calibrator with current coil by Direct method.	20 A to 1000 A	1.25 % to 0.95 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	using Multifunction Calibrator by Direct Method	1 mV to 10 mV	11.34 % to 0.26 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	using Multifunction Calibrator by Direct Method	1 V to 10 V	0.26 % to 0.25 %

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67	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	using Multifunction Calibrator by Direct Method	10 mV to 100 mV	0.26 % to 0.23 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	using Multifunction Calibrator by Direct Method	10 V to 100 V	0.25%
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	using Multifunction Calibrator by Direct Method	100 mV to 1 V	0.23 % to 0.26 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	using Multifinction calibrator by Direct method	100 V to 1000 V	0.25 % to 0.24 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance	By using low value Resistance Box by Direct Method	10 mohm to 100 mohm	2.90 % to 1.81 %
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance	By using low value Resistance Box by Direct Method	100 mohm to 1000 mohm	1.81 % to 0.43 %

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73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	using Decade Resistance Box by Direct Method.	1 kohm to 10 kohm	0.13 % to 0.13 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	using Decade Resistance Box by Direct Method.	1 Mohm to 10 Mohm	0.13 % to 0.13 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	using Decade Resistance Box by Direct Method	1 ohm to 10 ohm	1.25 % to 0.17 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	using Decade Resistance Box by Direct Method.	10 kohm to 100 kohm	0.12%
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	using Decade Resistance Box by Direct Method.	10 Mohm to 100 Mohm	0.12 % to 1.15 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	using Decade Resistance Box by Direct Method.	10 ohm to 100 ohm	0.17 % to 0.12 %

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79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	using Decade Resistance Box by Direct Method.	100 kohm to 1 Mohm	0.12 % to 0.13 %
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	using Decade Resistance Box by Direct Method.	100 ohm to 1 kohm	0.12%
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD PT-100, Temperature Indicators / Controllers / Sensing Devices	by using six and half digit Multimeter by Direct Method	(-) 200 °C to 600 °C	0.39°C
82	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple Type B / Temperature Indicators/ Controllers / Sensing Devices	by using six and half digit Multimeter by Direct Method	450 °C to 1800 °C	1.2°C
83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple Type E / Temperature Indicators / Controllers / Sensing Devices	by using six and half digit Multimeter by Direct Method	(-) 200 °C to 1000 °C	0.52°C
84	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple Type J / Temperature Indicators/ Controllers / Sensing Devices	by using six and half digit Multimeter by Direct Method	(-) 200 °C to 1200 °C	0.34°C

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85	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple Type K / Temperature Indicators / Controllers / Sensing Devices	by using six and half digit Multimeter by Direct Method	(-) 200 °C to 1370 °C	0.36°C
86	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple Type N / Temperature Indicators / Controllers / Sensing Devices	by using six and half digit Multimeter by Direct Method	(-) 200 °C to 1300 °C	0.47°C
87	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple Type R / Temperature Indicators / Controllers / Sensing Devices	by using six and half digit Multimeter by Direct Method	0 to 1750 °C	1.18°C
88	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple Type S / Temperature Indicators / Controllers / Sensing Devices	by using six and half digit Multimeter by Direct Method	0 to 1750 °C	1.18°C
89	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple Type T / Temperature Indicators / Controllers / Sensing Devices	by using six and half digit Multimeter by Direct Method	(-) 200 °C to 400 °C	0.36°C
90	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD PT-100 Temperature Indicators / Controllers / Sensing Devices	By using Universal Calibrator by Direct Method	(-)200 °C to 600 °C	0.4°C

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91	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple Type B Temperature Indicators / Controllers / Sensing Devices	By using Universal Calibrator by Direct Method	450 °C to 1800 °C	0.59°C
92	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple Type E Temperature Indicators / Controllers / Sensing Devices	By using Universal Calibrator by Direct Method	(-)200 °C to 1000 °C	0.36°C
93	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple Type J Temperature Indicators / Controllers / Sensing Devices	by using Universal Calibrator by Direct Method	(-)200 °C to 1200 °C	0.36°C
94	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple Type K Temperature Indicators / Controllers / Sensing Devices	By using Universal Calibrator by Direct Method	(-)200 °C to 1370 °C	0.36°C
95	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple Type N Temperature Indicators / Controllers / Sensing Devices	By using Universal Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.37°C
96	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple Type R Temperature Indicators / Controllers / Sensing Devices	By using Universal Calibrator by Direct Method	0 to 1750 °C	0.59°C

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97	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple Type S Temperature Indicators / Controllers / Sensing Devices	By using Universal Calibrator by Direct Method	0 to 1750 °C	0.58°C
98	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple Type T Temperature Indicators / Controllers / Sensing Devices	By using Universal Calibrator by Direct Method	(-) 200 °C to 400 °C	0.36°C
99	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Digital Timer / Stop Watch / Hour meters	by using Digital Time Calibrator by Comparison Method	1 s	0.12s
100	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Digital Timer / Stop Watch / Hour meters	by using Digital Time Calibrator by Comparison Method	1 s to 10 s	0.12 s to 0.23 s
101	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Digital Timer / Stop Watch / Hour meters	by using Digital Time Calibrator by Comparison Method	10 s to 60 s	0.23 s to 0.52 s
102	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Digital Timer / Stop Watch / Hour meters	by using Digital Time Calibrator by Comparison Method	18000 s (5 hr) to 36000 s (10 hr)	7.4 s to 13.7 s

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103	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Digital Timer / Stop Watch / Hour meters	by using Digital Time Calibrator by Comparison Method	3600 s(1hr) to 18000 s (5 hr)	1.57 s to 7.4 s
104	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Digital Timer / Stop Watch / Hour meters	by using Digital Time Calibrator by Comparison Method	36000 s (10 hr) to 86400 s (24 hrs)	13.7 s to 27 s
105	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Digital Timer / Stop Watch / Hour meters	by using Digital Time Calibrator by Comparison Method	60 s to 3600 s	0.51 s to 1.6 s
106	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	By using six and half digital Multimeter by Direct Method	10 Hz to 50 Hz	0.035 % to 0.015 %
107	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	By using six and half digital Multimeter by Direct Method	50 Hz to 10 kHz	0.015%
108	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	using Calibrator by direct method	10 Hz to 45 Hz	0.036 % to 0.17 %

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109	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	using calibrator by direct method	100 Hz to 1000 Hz	0.17%
110	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	using Calibrator by direct method	1000 Hz to 10000 Hz	0.17 % to 0.006 %
111	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	using Calibrator by direct method	50 Hz to 100 Hz	0.17%
112	MECHANICAL-ACCELERATION AND SPEED	SPEED (Non-Contact type) Centrifuge / RPM Source	By using Digital Tachometer and procedure based on SANAS TR 45-2 guidelines.	50 rpm to 5000 rpm	1.6 rpm to 7.1 rpm
113	MECHANICAL-ACCELERATION AND SPEED	SPEED (Non-Contact type) Centrifuge /RPM Source	By Comparison method using Digital Tachometer and procedure based on SANAS TR 45-2 guidelines.	5000 rpm to 15000 rpm	7.1 rpm to 10 rpm

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114	MECHANICAL-ACCELERATION AND SPEED	SPEED (Non-Contact type) RPM Source	By Comparison method using Digital Tachometer and procedure based on SANAS TR 45-2 guidelines.	15000 rpm to 90000 rpm	10 rpm to 20 rpm
115	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital Balance Class II and coarser. d = 0.1 g	By using F1 Class Standard Weight of coarser based on OIML R 76 - 1	up to 10000 g	0.08g
116	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital weighing Balance Class II and coarser. d = 1 mg	By using E2 Class Standard Weight based OIML R 76 -1	up to 60 g	0.58mg
117	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital weighing Balance Class II and coarser. d = 0.1 g	By using F1 Class Standard Weight based OIML R 76 -1	up to 3000 g	59.27mg
118	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital weighing Balance Class II and coarser. d = 1 mg	By using E2 Class Standard Weight based OIML R 76 -1	up to 220 g	0.58mg

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119	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature and RH Indicator with Sensors / Systems of Stability Chambers , Humidity Chambers, Humidity Generators , Humidity Calibrators.(Single Position)	By Using Temperature/ RH indicator with sensor / Data Logger by Comparison Method	20 % rh to 95 %rh @ 25°C	2.8%rh
120	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature and RH Indicator with Sensors / Systems of Stability Chambers , Humidity Chambers, Humidity Generators , Humidity Calibrators.(Single Position)	Using Temperature/ RH Indicator with sensor / Data Logger by Comparison Method	5 °C to 50 °C @ 50% rh	0.9°C
121	THERMAL-TEMPERATURE	Glass Thermometers, RTD / Thermocouples with or without Indicator/controllers, Temperature Recorders, Temperature Gauges, Digital Thermometers, Temperature Transducers with Indicators	Oil Bath, Digital Multimeter, RTD sensor, Universal Calibrator by Comparison Method.	25 °C to 250 °C	0.7°C

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122	THERMAL-TEMPERATURE	Glass Thermometers, RTD / Thermocouples with or without Indicator/controllers, Temperature Recorders, Temperature Gauges, Digital Thermometers, Temperature Transducers with Indicators	Cold Bath, Digital Multimeter, RTD sensor, Universal Calibrator by Comparison Method	-40 °C to 25 °C	0.41°C
123	THERMAL-TEMPERATURE	Refrigerators	Data Logger with 9 Sensors by Comparison Method	-10 °C to 10 °C	1.3°C
124	THERMAL-TEMPERATURE	RTD / Thermocouples with or without Indicator/controllers, Temperature Recorders, Temperature Gauges, Digital Thermometers, Temperature Transducers with Indicators	Dry Bath, Digital Multimeter, RTD sensor, Universal Calibrator by comparison method.	250 °C to 400 °C	0.7°C

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125	THERMAL-TEMPERATURE	Temperature Indicators with Sensors / System of Water Bath, Incubator(For Non medical purpose only), BOD Incubator(For Non medical purpose only), Ovens, Walk in Oven/Chambers, Tray Dryers, Temperature Bath,Autoclave(For Non medical purpose only)	Using RTD sensors, Digital Multimeter, Universal Calibrator, single point by Comparison Method	25 °C to 250 °C	0.73 °C
126	THERMAL-TEMPERATURE	Temperature Indicators with Sensors / System of Water Bath, Incubator, BOD, Ovens, Cold Chamber, Walk in Oven/Chambers, Tray Dryers, Refrigerators, Temperature Bath	Using RTD sensors, Digital Multimeter, Universal Calibrator, single point by Comparison Method	5 °C to 25 °C	0.73 °C

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127	THERMAL-TEMPERATURE	Temperature Indicators with Sensors / System of Water Bath, Incubator, BOD, Ovens, Deep Freezers, Cold Chamber, Walk in Oven/Chambers, Tray Dryers, Blast Freezers, Refrigerators, Temperature Bath	Using RTD sensors, Digital Multimeter, Universal Calibrator, single point by Comparison Method	-40 °C to 5 °C	0.73 °C
128	THERMAL-TEMPERATURE	Temperature indicators with Sensors / System of Ovens, Furnace, High Temperature Bath (Single Position)	Using S Type Thermocouple, Digital Multimeter, Universal Calibrator by Comparison Method	250 °C to 1000 °C	2.69°C

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129	THERMAL-TEMPERATURE	Temperature Mapping with 9 RTD Sensors of Incubator(For Non Medical Purpose Only), BOD Incubator(For Non Medical Purpose Only), Ovens, Walk in Chambers, Autoclave(For Non Medical Purpose Only)	Using Data Logger with 9 Sensors by Comparison Method	5 °C to 250 °C	1.3 °C
130	THERMAL-TEMPERATURE	Temperature Mapping with 9 RTD Sensors of Incubator(For Non Medical Purpose Only), BOD Incubator(For Non Medical Purpose Only), Cold Rooms, Cold Chambers, Walk in Chambers/oven, Blast Freezers, Deep Freezers	Data Logger with 9 Sensors by Comparison Method	-10 °C to 5 °C	1.3°C

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131	THERMAL-TEMPERATURE	Thermocouples with or without Indicator/controllers, Temperature Recorders, Temperature Gauges, Digital Thermometers, Temperature Transducers with Indicators	Using Dry Bath, Digital Multimeter, S type Thermocouple, Universal Calibrator by Comparison Method	400 °C to 600 °C	2.68 °C
132	THERMAL-TEMPERATURE	Thermocouples with or without Indicator/controllers, Temperature Recorders, Temperature Gauges, Digital Thermometers, Temperature Transducers with Indicators	Using Dry Bath, Digital Multimeter, S type Thermocouple, Universal Calibrator by Comparison Method	600 °C to 1000 °C	2.68 °C

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