



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VENUS CALIBRATION AND INSTRUMENTS, NO 16 , 6TH STREET , ANNAI SATHYA NAGAR , POOTHAPEDURAMAPURAM, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 15/12/2022 to 14/12/2024 **Last Amended on** 04/01/2023

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 Active Energy @ 50 Hz Single & Three Phase, 63.5 V to 220 V, 0.5 A to 5A, 0.5 (Lead / Lag) to UPF	Using Energy Meter by direct method	75 Wh to 3.3 kWh	0.039 Wh to 0.0182 Wh
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 1kHz	Using 6 ½ Digital Multimeter by Direct Method	0.1 A to 1 A	0.0019 A to 0.0018 A
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 1kHz	Using 6 ½ Digital Multimeter by Direct Method	1 A to 3 A	0.0018 A to 0.0094 A
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	Using 6 ½ Digital Multimeter by Direct Method	0.1 A to 1 A	0.0019 A to 0.0018 A



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	Using 6 ½ Digital Multimeter by Direct Method	1 A to 3 A	0.0018 A to 0.0094 A
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	Using 5 ½ Digital Multimeter by Direct Method	3 A to 10 A	0.016 A to 0.078 A
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using High Voltage Probe with Multimeter by Direct method	1 kV to 28 kV	1.62kV
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz	Using 6 ½ Digital Multimeter by Direct Method	0.1 V to 1 V	0.00042 V to 0.26 V
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz	Using 6 ½ Digital Multimeter by Direct Method	1 V to 10 V	0.26 V to 0.0077 V



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz	Using 6 ½ Digital Multimeter by Direct Method	10 mV to 100 mV	0.054 mV to 0.12 mV
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz	Using 6 ½ Digital Multimeter by Direct Method	10 V to 100 V	0.0077 V to 0.074 V
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz	Using 6 ½ Digital Multimeter by Direct Method	100 V to 750 V	0.074 V to 3.5 V
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz	Using 6 ½ Digital Multimeter by Direct Method	2 mV to 10 mV	0.13 mV to 0.054 mV
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ Digital Multimeter by Direct Method	0.1 V to 1 V	0.00042 V to 0.0011 V



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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ Digital Multimeter by Direct Method	1 V to 10 V	0.0011 V to 0.0077 V
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ Digital Multimeter by Direct Method	10 mV to 100 mV	0.054 mV to 0.12 mV
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ Digital Multimeter by Direct Method	10 V to 100 V	0.0077 V to 0.074 V
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ Digital Multimeter by Direct Method	100 V to 750 V	0.074 V to 3.5 V
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ Digital Multimeter by Direct Method	2 mV to 10 mV	0.090 mV to 0.054 mV



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20	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50Hz	Using Multiproduct Calibrator by Direct Method	2 A to 10 A	0.0038 A to 0.022 A
21	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50Hz	Using Multiproduct Calibrator by Direct Method	2 mA to 20 mA	0.0064 mA to 0.056 mA
22	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50Hz	Using Multiproduct Calibrator by Direct Method	20 mA to 200 mA	0.056 mA to 0.56 mA
23	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50Hz	Using Multiproduct Calibrator by Direct Method	200 mA to 2000 mA	0.56 mA to 10.66 mA
24	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	Using Multiproduct Calibrator and Current Coil by Direct Method	100 A to 500 A	1.73 A to 2.88 A
25	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	Using Multiproduct Calibrator and Current Coil by Direct Method	50 A to 100 A	0.89 A to 1.73 A



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26	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	Using Multiproduct Calibrator and Current Coil by Direct Method	500 A to 1000 A	2.88 A to 6.11 A
27	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz	Using Multiproduct Calibrator by Direct Method	0.2 V to 2 V	0.00078 V to 0.0048 V
28	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz	Using Multiproduct Calibrator by Direct Method	2 V to 20 V	0.0048 V to 0.047 V
29	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz	Using Multiproduct Calibrator by Direct Method	20 V to 200 V	0.047 V to 0.42 V
30	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz	Using Multiproduct Calibrator by Direct Method	200 V to 500 V	0.42 V to 0.92 V
31	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz	Using Multiproduct Calibrator by Direct Method	500 V to 1000 V	0.92 V to 2.05 V



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32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Digital Multimeter by Direct Method	0.1 A to 1 A	0.00023 A to 0.0061 A
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Digital Multimeter by Direct Method	1 A to 3 A	0.0061 A to 0.0059 A
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Digital Multimeter by Direct Method	1 mA to 10 mA	0.0041 mA to 0.008 mA
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Digital Multimeter by Direct Method	10 mA to 100 mA	0.008 mA to 0.065 mA
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 5 ½ Digital Multimeter by Direct Method	3 A to 10 A	0.0082 A to 0.035 A
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using High Voltage Probe with Multimeter by Direct Method	1 kV to 30 kV	0.92kV



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38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Digital Multimeter by Direct Method	0.1 V to 1 V	0.000015 V to 0.00017 V
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Digital Multimeter by Direct Method	1 mV to 10 mV	0.021 mV to 0.0051 mV
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Digital Multimeter by Direct Method	1 V to 10 V	0.00017 V to 0.0005 V
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Digital Multimeter by Direct Method	10 mV to 100 mV	0.0051 mV to 0.01 mV
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Digital Multimeter by Direct Method	10 V to 100 V	0.0005 V to 0.0063 V
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Digital Multimeter by Direct Method	100 V to 1000 V	0.0063 V to 0.200 V



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44	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ Digital Multimeter by Direct Method	0.1 kohm to 1 kohm	0.0016kohm
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ Digital Multimeter by Direct Method	0.1 Mohm to 1 Mohm	0.0001 Mohm to 0.0016 Mohm
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ Digital Multimeter by Direct Method	1 kohm to 10 kohm	0.0016 kohm to 0.0016 kohm
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ Digital Multimeter by Direct Method	1 Mohm to 10 Mohm	0.0016 Mohm to 0.005 Mohm
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ Digital Multimeter by Direct Method	1 ohm to 10 ohm	0.32 ohm to 0.013 ohm
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ Digital Multimeter by Direct Method	10 kohm to 100 kohm	0.0016 kohm to 0.015 kohm



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50	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ Digital Multimeter by Direct Method	10 Mohm to 100 Mohm	0.005 Mohm to 2.354 Mohm
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ Digital Multimeter by Direct Method	10 ohm to 100 ohm	0.013 ohm to 0.025 ohm
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator by Direct Method	1 mA to 24 mA	0.024 mA to 0.012 mA
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator and Current Coil by Direct Method	100 A to 500 A	1.16 A to 2.89 A
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	2 A to 10 A	0.0031 A to 0.017 A
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	2 mA to 20 mA	0.006 mA to 0.04 mA



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56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	20 mA to 200 mA	0.04 mA to 0.4 mA
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	200 mA to 2000 mA	0.4 mA to 3.14 mA
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator and Current Coil by Direct Method	50 A to 100 A	0.61 A to 1.16 A
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator and Current Coil by Direct Method	500 A to 1000 A	2.89 A to 6.02 A
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	0.2 V to 2 V	0.00035 V to 0.0026 V
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	1 mV to 80 mV	0.0061 mV to 0.0194 mV



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62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	1 V to 12 V	0.009 V to 0.011 V
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	2 V to 20 V	0.0026 V to 0.027 V
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	20 V to 200 V	0.027 V to 0.26 V
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	200 V to 500 V	0.26 V to 0.64 V
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	500 V to 1000 V	0.64 V to 2.05 V
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	80 mV to 250 mV	0.0194 mV to 0.082 mV



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68	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using High Resistance Jig by Direct Method	1 Gohm	0.045Gohm
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	1 kohm to 10 kohm	0.0012 kohm to 0.012 kohm
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Low Resistance Jig by Direct Method	1 mohm	0.003mohm
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	1 Mohm to 10 Mohm	0.0012 Mohm to 0.012 Mohm
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Low Resistance Jig by Direct Method	1 ohm	0.021ohm
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	1 ohm to 10 ohm	0.0024 ohm to 0.012 ohm



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74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Universal Calibrator by Direct Method	1 ohm to 400 ohm	0.063 ohm to 0.135 ohm
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Low Resistance Jig by Direct Method	10 µohm	0.6µohm
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using High Resistance Jig by Direct Method	10 Gohm	0.46Gohm
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	10 kohm to 100 kohm	0.012 kohm to 0.12 kohm
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Low Resistance Jig by Direct Method	10 mohm	0.015mohm
79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using High Resistance Jig by Direct Method	10 Mohm	0.34Mohm



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80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	10 Mohm to 100 Mohm	0.012 Mohm to 0.12 Mohm
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	10 ohm to 100 ohm	0.012 ohm to 0.12 ohm
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Low Resistance Jig by Direct Method	100 µohm	0.6µohm
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using High Resistance Jig by Direct Method	100 Gohm	8.99Gohm
84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	100 kohm to 1000 kohm	0.12 kohm to 1.12 kohm
85	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Low Resistance Jig by Direct Method	100 mohm	0.15mohm



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86	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using High Resistance Jig by Direct Method	100 Mohm	3.4Mohm
87	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	100 Mohm to 1000 Mohm	0.12 Mohm to 6.02 Mohm
88	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	100 ohm to 1000 ohm	0.12 ohm to 1.12 ohm
89	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using High Resistance Jig by Direct Method	1000 Gohm	89.9Gohm
90	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using High Resistance Jig by Direct Method	200 Mohm	9.06Mohm
91	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Universal Calibrator by Direct Method	400 ohm to 4000 ohm	0.135 ohm to 1.31 ohm



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92	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using High Resistance Jig by Direct Method	5 Mohm	0.18Mohm
93	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Low Resistance Jig by Direct Method	50 µohm	0.6µohm
94	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using High Resistance Jig by Direct Method	500 Mohm	22.67Mohm
95	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B-Type	Using Universal Calibrator by Direct Method	450 °C to 1800 °C	0.59°C
96	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E-Type	Using Universal Calibrator by Direct Method	-200 °C to 1000 °C	0.37°C
97	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J-Type	Using Universal Calibrator by Direct Method	-200 °C to 1200 °C	0.37°C



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98	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K-Type	Using Universal Calibrator by Direct Method	-200 °C to 1372 °C	0.37°C
99	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N-Type	Using Universal Calibrator by Direct Method	-200 °C to 1300 °C	0.37°C
100	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R-Type, S-Type	Using Universal Calibrator by Direct Method	0 °C to 1750 °C	0.59°C
101	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (pt100)	Using Universal Calibrator by Direct Method	-200 °C to 200 °C	0.18 °C
102	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (pt100)	Using Universal Calibrator by Direct Method	200 °C to 600 °C	0.24°C
103	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (pt100)	Using Universal Calibrator by Direct Method	600 °C to 800 °C	0.35°C



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104	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T-Type	Using Universal Calibrator by Direct Method	-200 °C to 400 °C	0.37°C
105	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B-Type	Using Universal Calibrator by Direct Method	600 °C to 1800 °C	0.82°C
106	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E-Type	Using Universal Calibrator by Direct Method	-200 °C to 990 °C	0.37°C
107	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J-Type	Using Universal Calibrator by Direct Method	-200 °C to 1200 °C	0.37°C
108	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K-Type	Using Universal Calibrator by Direct Method	-200 °C to 1370 °C	0.37°C
109	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N-Type	Using Universal Calibrator by Direct Method	-200 °C to 1290 °C	0.37°C



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110	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R-Type, S-Type	Using Universal Calibrator by Direct Method	10 °C to 1750 °C	0.82°C
111	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (Pt100)	Using Universal Calibrator by Direct Method	-200 °C to 200 °C	0.18°C
112	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (Pt100)	Using Universal Calibrator by Direct Method	200 °C to 600 °C	0.30°C
113	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (Pt100)	Using Universal Calibrator by Direct Method	600 °C to 800 °C	0.41°C
114	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T-Type	Using Universal Calibrator by Direct Method	-200 °C to 400 °C	0.37°C
115	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ Digital Multimeter by Direct Method	0.3 kHz to 3 kHz	0.000024 kHz to 0.012 kHz



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116	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ Digital Multimeter by Direct Method	3 Hz to 30 Hz	0.035Hz
117	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ Digital Multimeter by Direct Method	3 kHz to 300 kHz	0.012kHz
118	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ Digital Multimeter by Direct Method	30 Hz to 300 Hz	0.035 Hz to 0.023 Hz
119	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Timer Calibrator by Comparison Method	1 s to 60 s	0.073 s to 0.086 s
120	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Timer Calibrator by Comparison Method	3600 s to 43200 s	0.93 s to 5.13 s
121	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Timer Calibrator by Comparison Method	43200 s to 86400 s	5.05 s to 10.01 s



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122	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Timer Calibrator by Comparison Method	60 s to 3600 s	0.086 s to 0.93 s
123	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Universal Calibrator by Direct Method	3 Hz to 50 Hz	0.02 Hz to 0.1 Hz
124	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Universal Calibrator by Direct Method	50 Hz to 500 Hz	0.1 Hz to 1 Hz
125	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Universal Calibrator by Direct Method	500 Hz to 5000 Hz	1 Hz to 1.6 Hz
126	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Universal Calibrator by Direct Method	5000 Hz to 10000 Hz	1.6 Hz to 0.0039 kHz
127	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact)	Using Digital Tachometer & RPM Source by Comparison Method	10 rpm to 100 rpm	0.82rpm



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128	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact)	Using Digital Tachometer & RPM Source by Comparison Method	100 rpm to 1000 rpm	0.94rpm
129	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact)	Using Digital Tachometer & RPM Source by Comparison Method	1000 rpm to 5000 rpm	1.83rpm
130	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact)	Using Digital Tachometer & RPM Source by Comparison Method	5000 rpm to 8000 rpm	2.60rpm
131	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact)	Using Digital Tachometer & RPM Source by Comparison Method	10 rpm to 1000 rpm	0.97rpm
132	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact)	Using Digital Tachometer & RPM Source by Comparison Method	1000 rpm to 10000 rpm	3.09rpm
133	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact)	Using Digital Tachometer & RPM Source by Comparison Method	10000 rpm to 50000 rpm	10.02rpm
134	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact)	Using Digital Tachometer & RPM Source by Comparison Method	2.5 rpm to 10 rpm	6%



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135	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact)	Using Digital Tachometer & RPM Source by Comparison Method	50000 rpm to 99900 rpm	20.64rpm
136	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Sound Level Calibrator	94 dB to 114 dB @1 KHz	0.25dB
137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calipers Vernier/ Dial (L.C: 0.02 mm)	Using Slip Gauge Set & Long Gauge Block Set by Comparison Method	0 to 2000 mm	21µm
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calipers Vernier/ Digital / Dial (L.C: 0.01 mm)	Using Slip Gauge Set & Long Gauge Block Set by Comparison Method	0 to 1000 mm	15µm
139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calipers Vernier/ Digital / Dial (L.C: 0.01 mm)	Using Slip Gauge Set & Caliper Checker by Comparison Method	Up to 300 mm	6.9µm
140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calipers Vernier/ Digital / Dial (L.C: 0.01 mm)	Using Slip Gauge Set, Caliper Checker & Long Gauge Block Set by Comparison Method	Up to 600 mm	8.6µm



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141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge	Using Standard Foils by Comparison Method	0 to 931 μm	6.2 μm
142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness)	Using Optical Flat by Comparison Method	up to 60 mm	0.7 μm
143	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauges Vernier / Digital (L.C: 0.01 mm)	Using Slip Gauge & Long Gauge Block by Comparison Method	Up to 300 mm	12.1 μm
144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge Analog / Digital L.C. : 0.001 / 0.002 mm	Using Slip Gauge Block Set by Comparison Method	Up to 50 mm	5.1 μm
145	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer Analog / Digital (L.C: 0.001 mm)	Using Slip Gauge Set, Long Gauge Block Set & Optical Flat by Comparison Method	Above 100 mm to 300 mm	3.4 μm



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146	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer Analog / Digital (L.C: 0.001 mm)	Using Slip Gauge Set, Long Gauge Block Set & Optical Flat by Comparison Method	Above 300 mm to 1000 mm	10.2µm
147	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer Analog / Digital (L.C: 0.001 mm)	Using Slip Gauge Set, Long Gauge Block Set & Optical Flat by Comparison Method	Up to 100 mm	1.0µm
148	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge Set	Using Micrometer, Comparator Stand & Slip Gauge Set by Comparison Method	0.01 mm to 1 mm	4.7µm
149	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Gauge Block Accessories Set (Flatness)	Using Optical Flat by Comparison Method	up to 25 mm	0.7µm
150	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauges Vernier / Dial (L.C: 0.02 mm)	Using Long slip Gauge set& Slip Gauge Set by Comparison Method	Up to 1000 mm	20µm



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151	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauges Vernier / Digital / Dial (L.C: 0.01 mm)	Using Caliper Checker, Long Gauge Block Set & Slip Gauge Set by Comparison Method	Up to 600 mm	8.7µm
152	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	LVDT / Electronic LC: 0.001 mm	Using Slip Gauge Block Set & Comparator Stand by Comparison Method	0 to 30 mm	0.9µm
153	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Blade, Disc, Ball & Point Analog / Digital (L.C: 0.001 mm)	Using Slip Gauge Set, Long Gauge Block Set & Optical Flat by Comparison Method	Up to 300 mm	4.9µm
154	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Slip Gauge Set, Digital Plunger Dial & Comparator Stand	25 mm to 300 mm	2.1µm
155	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauges	Using Micrometer & Slip Gauge Block by Comparison Method	1 mm to 200 mm	4.3µm



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156	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge Digital/Dial (L.C. : 0.001 mm)	Using Slip Gauge Set & Comparator Stand by Comparison Method	up to 50 mm	1.5µm
157	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge (Plain, Adjustable)	Using Slip Gauge Block Set by Comparison Method	3 mm to 200 mm	5.0µm
158	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Height Gauge (linear)	Using Long Gauge Block Set , Slip Gauge Block Set, Caliper Checker & Granite L Square by Comparison Method	0 to 1000 mm	7.5µm
159	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Height Gauge (squareness)	Using Long Gauge Block Set , Slip Gauge Block Set, Caliper Checker & Granite L Square by Comparison Method	0 to 1000 mm	9 µm
160	MECHANICAL-PRESSURE INDICATING DEVICES	Barometer	Using Digital Barometer with vacuum/ pressure Desiccator Set up by comparison method	300 hPa (abs) to 1200 hPa (abs)	2.1hPa (abs)



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161	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure-Dial, Digital Pressure Gauges/ Indicators, Pressure Transducers and Pressure Transmitter Differential Pressure Gauge	Using Digital Manometer & Digital Multimeter by Comparison Method DKD R6-1	-344 mbar to 0 mbar	1.1mbar
162	MECHANICAL-PRESSURE INDICATING DEVICES	Magnehelic Gauge, Digital Manometer, Manometer, Differential Pressure Gauge	Using Digital Manometer by Comparison Method DKD R6-1	0 Pa to 1950 Pa	2.0Pa
163	MECHANICAL-PRESSURE INDICATING DEVICES	Magnehelic Gauge, Digital Manometer, Manometer, Differential Pressure Gauge	Using Digital Manometer by Comparison Method DKD R6-1	-1950 Pa to 0 Pa	2.0Pa
164	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Pressure-Dial, Digital Pressure Gauges/ Indicators, Pressure Transducers and Pressure Transmitter Differential Pressure Gauge	Using Digital Manometer & Digital Multimeter by Comparison Method DKD R6-1	0 mbar to 344 mbar	1.1mbar



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165	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Hydraulic Dial, Digital Pressure Gauges/ Indicators, Pressure Transducers and Pressure Transmitter Differential Pressure Gauge	Using Digital Pressure Gauge & Digital Multimeter by Comparison Method DKD R6-1	0 bar to 700 bar	0.46bar
166	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Pneumatic Industrial Dial, Digital Pressure Gauges/ Indicators, Pressure Switch and Pressure Transmitter Differential Pressure Gauge	Using Digital Pressure Gauge & Digital Multimeter by Comparison Method DKD R6-1	0 bar to 35 bar	0.034bar
167	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum - Industrial Dial, Digital Pressure Gauges/ Indicators, Pressure Switch and Pressure Transmitter Differential Pressure Gauge	Using Digital Pressure Gauge & Digital Multimeter by Comparison Method DKD R6-1	0 bar to -0.95 bar	0.0085bar
168	MECHANICAL-VOLUME	Measuring Cylinder / Beakers / Conical Flask/ Volumetric Flask	Using Precision Balance of 1000 g Capacity and Readability 1 mg and Distilled water by Gravimetric Method Based on ISO 4787	100 ml to 500 ml	0.66ml



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169	MECHANICAL-VOLUME	Measuring Cylinder / Beakers / Conical Flask/ Volumetric Flask	Using Precision Balance of 10000 g Capacity and Readability 10 mg and Distilled water by Gravimetric Method Based on ISO 4787	2000 ml to 5000 ml	5ml
170	MECHANICAL-VOLUME	Measuring Cylinder / Beakers / Conical Flask/ Volumetric Flask	Using Weighing Balance Readability 1 mg/ 10 mg and Distilled water by Gravimetric Method Based on ISO 4787	500 ml to 2000 ml	2.2ml
171	MECHANICAL-VOLUME	Measuring Cylinder / Beakers / Conical Flask/ Volumetric Flask	Using Weighing Balance of 20000 g Capacity and Readability 0.1 g and Distilled water by Gravimetric Method Based on ISO 4787	5000 ml to 10000 ml	13.5ml
172	MECHANICAL-VOLUME	Micropipette	Using Semi Micro Balance of 80g/ 200 g Capacity and Readability 0.01/0.1 mg and Distilled water by Gravimetric Method Based on ISO 8655-6	1 ml to 10 ml	20µl



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173	MECHANICAL-VOLUME	Micropipette	Using Semi Micro Balance of 80 g Capacity and Readability 0.01 mg and Distilled water by Gravimetric Method Based on ISO 8655-6	10 µl to 100 µl	0.2µl
174	MECHANICAL-VOLUME	Micropipette	Using Semi Micro Balance of 80 g Capacity and Readability 0.01 mg and Distilled water by Gravimetric Method Based on ISO 8655-6	100 µl to 1000 µl	1.00µl
175	MECHANICAL-VOLUME	Pipette / Burette / Measuring Cylinder / Beakers / Conical Flask/ Volumetric Flask	Using Semi Micro Balance of 200 g Capacity and Readability 0.1 mg and Distilled water by Gravimetric Method Based on ISO 4787	1 ml to 10 ml	24µl



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176	MECHANICAL-VOLUME	Pipette / Burette / Measuring Cylinder / Beakers / Conical Flask/ Volumetric Flask	Using Semi Micro Balance of 200 g Capacity and Readability 0.1 mg and Distilled water by Gravimetric Method Based on ISO 4787	10 ml to 100 ml	53µl
177	MECHANICAL-WEIGHTS	Calibration of Weights F 2 Class and Coarser	Using E2 Standard Weights & Semi Micro Balance (Readability: .001 mg) by ABBA method as per OIML R-111	10 mg	0.02mg
178	MECHANICAL-WEIGHTS	Calibration of Weights F1Class and Coarser	Using E2 Standard Weights & Semi Micro Balance (Readability: .001 mg) by ABBA method as per OIML R-111	1 g	0.02mg
179	MECHANICAL-WEIGHTS	Calibration of Weights F1Class and Coarser	Using E2 Standard Weights & Balance (Readability: .001 mg) by ABBA method as per OIML R-111	10 g	0.03mg



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180	MECHANICAL-WEIGHTS	Calibration of Weights F1Class and Coarser	Using E2 Standard Weights & Balance (Readability: .0.1 mg) by ABBA method as per OIML R-111	100 g	0.11mg
181	MECHANICAL-WEIGHTS	Calibration of Weights F1Class and Coarser	Using E2 Standard Weights & Semi Micro Balance (Readability: .0.01 mg) by ABBA method as per OIML R-111	2 g	0.02mg
182	MECHANICAL-WEIGHTS	Calibration of Weights F1Class and Coarser	Using E2 Standard Weights & Semi Micro Balance (Readability: .0.01 mg) by ABBA method as per OIML R-111	20 g	0.04mg
183	MECHANICAL-WEIGHTS	Calibration of Weights F1Class and Coarser	Using E2 Standard Weights & Balance (Readability: .0.1 mg) by ABBA method as per OIML R-111	200 g	0.2mg



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184	MECHANICAL-WEIGHTS	Calibration of Weights F1Class and Coarser	Using E2 Standard Weights & Semi Micro Balance (Readability: .001 mg) by ABBA method as per OIML R-111	200 mg	0.02mg
185	MECHANICAL-WEIGHTS	Calibration of Weights F1Class and Coarser	Using E2 Standard Weights & Semi Micro Balance (Readability: 0.01 mg) by ABBA method as per OIML R-111	5 g	0.03mg
186	MECHANICAL-WEIGHTS	Calibration of Weights F1Class and Coarser	Using E2 Standard Weights & Balance (Readability: .001 mg) by ABBA method as per OIML R-111	50 g	0.07mg
187	MECHANICAL-WEIGHTS	Calibration of Weights F1Class and Coarser	Using E2 Standard Weights & Semi Micro Balance (Readability: .001 mg) by ABBA method as per OIML R-111	500 mg	0.02mg



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188	MECHANICAL-WEIGHTS	Calibration of Weights F2 Class and Coarser	Using E2 Standard Weights & Semi Micro Balance (Readability: .0.01 mg) by ABBA method as per OIML R-111	100 mg	0.02mg
189	MECHANICAL-WEIGHTS	Calibration of Weights F2 Class and Coarser	Using E2 Standard Weights & Semi Micro Balance (Readability: .0.01 mg) by ABBA method as per OIML R-111	2 mg	0.02mg
190	MECHANICAL-WEIGHTS	Calibration of Weights F2 Class and Coarser	Using E2 Standard Weights & Semi Micro Balance (Readability: .0.01 mg) by ABBA method as per OIML R-111	20 mg	0.02mg
191	MECHANICAL-WEIGHTS	Calibration of Weights F2 Class and Coarser	Using E2 Standard Weights & Semi Micro Balance (Readability: .0.01 mg) by ABBA method as per OIML R-111	5 mg	0.02mg



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192	MECHANICAL-WEIGHTS	Calibration of Weights F2 Class and Coarser	Using E2 Standard Weights & Semi Micro Balance (Readability: .0.01 mg) by ABBA method as per OIML R-111	50 mg	0.02mg
193	MECHANICAL-WEIGHTS	Calibration of Weights M2 Class and Coarser	Using F1 Standard Weights & Electronic Balance (Readability: .1 g) by ABBA method as per OIML R-111	50 kg	3g
194	MECHANICAL-WEIGHTS	Calibration of Weights: F2 Class And Coarser	Using E2 Standard Weights, & Electronic Balance (Readability: 1 mg) by ABBA Method as per OIML R-111	1 kg	4mg
195	MECHANICAL-WEIGHTS	Calibration of Weights: F2 Class And Coarser	Using E2 Standard Weights & Semi Micro Balance (Readability: .0.01 mg) by ABBA method as per OIML R-111	1 mg	0.02mg



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196	MECHANICAL-WEIGHTS	Calibration of Weights: F2 Class And Coarser	Using F1 Standard Weights, & Electronic Balance (Readability: 10 mg) by ABBA Method as per OIML R-111	10 kg	18mg
197	MECHANICAL-WEIGHTS	Calibration of Weights: F2 Class And Coarser	Using F1 Standard Weights, & Electronic Balance (Readability: 10 mg) by ABBA Method as per OIML R-111	2 kg	10mg
198	MECHANICAL-WEIGHTS	Calibration of Weights: F2 Class And Coarser	Using F1 Standard Weights, & Electronic Balance (Readability: 10 mg) by ABBA Method as per OIML R-111	5 kg	18mg
199	MECHANICAL-WEIGHTS	Calibration of Weights: F2 Class And Coarser	Using E2 Standard Weights, & Electronic Balance (Readability: 1 mg) by ABBA Method as per OIML R-111	500 g	1.8mg
200	MECHANICAL-WEIGHTS	Calibration of Weights: M1 Class And Coarser	Using F1 Standard Weights, & Electronic Balance (Readability: 100 mg) by ABBA Method as per OIML R-111	20 kg	300mg



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201	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Sensor/ Thermo Hygrometer, Temperature Humidity Indicator, Temperature Humidity Transmitter	Using Humidity Chamber & Using Digital Temperature/Humidity Indicator with sensor by comparison method	10 %rh to 95 %rh @25°C	1.22%rh
202	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Sensor/ Thermo Hygrometer, Temperature Humidity Indicator, Temperature Humidity Transmitter	Using Humidity Chamber & Using Digital Temperature/Humidity Indicator with sensor by comparison method	5 °C to 60 °C @50 %rh	0.27°C
203	THERMAL-TEMPERATURE	Black Body Furnace/Calibrator (Noncontact type)	Using Pyrometer with Indicator (Emissivity= 0.95) by Comparison Method	10 °C to 110 °C	2.12°C
204	THERMAL-TEMPERATURE	Black Body Furnace/Calibrator (Noncontact type)	Using Pyrometer with Indicator (Emissivity= 0.95) by Comparison Method	110 °C to 500 °C	3.69°C
205	THERMAL-TEMPERATURE	Black Body Furnace/Calibrator (Noncontact type)	Using Pyrometer with Indicator (Emissivity= 0.98) by Comparison Method	500 °C to 1200 °C	4.0°C



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206	THERMAL-TEMPERATURE	Dig. Thermometer, Temperature Gauge, Thermocouple, Temperature Indicator / Controller with sensor, Transmitter, Thermocouple with & without Indicator	Using Thermocouple(S-Type) with Indicator, Multifunction Calibrator & Temperature Bath by Comparison Method	600 °C to 1200 °C	1.86°C
207	THERMAL-TEMPERATURE	IR Thermometer, Pyrometer, Thermometer (Noncontact type)	Using Pyrometer with Indicator & Black Body Source (Emissivity= 0.95) by Comparison Method	10 °C to 110 °C	2.12°C
208	THERMAL-TEMPERATURE	IR Thermometer, Pyrometer, Thermometer (Noncontact type)	Using Pyrometer with Indicator & Black Body Source (Emissivity= 0.95) by Comparison Method	110 °C to 500 °C	3.69°C
209	THERMAL-TEMPERATURE	IR Thermometer, Pyrometer, Thermometer (Noncontact type)	Using Pyrometer with Indicator & Black Body Source (Emissivity= 0.98) by Comparison Method	500 °C to 1200 °C	3.93°C
210	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using RTD Sensor with Indicator & Oil Bath by Comparison Method	50°C to 250°C	0.32°C



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211	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using RTD Sensor with Indicator & Low Temperature Bath by Comparison Method	-80 °C to 50 °C	0.32°C
212	THERMAL-TEMPERATURE	RTD, Dig. Thermometer, Temperature Gauge, Thermocouple, Temperature Indicator / Controller with sensor, Transmitter, Thermocouple with & without Indicator	Using RTD Sensor with Indicator, Multifunction Calibrator & Temperature Bath by Comparison Method	250 °C to 600 °C	0.21°C
213	THERMAL-TEMPERATURE	RTD, Dig. Thermometer, Temperature Gauge, Thermocouple, Temperature Indicator / Controller with sensor, Transmitter, Thermocouple with & without Indicator	Using RTD Sensor with Indicator, Multifunction Calibrator & Temperature Bath by Comparison Method	-30 °C to 250 °C	0.16°C



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214	THERMAL-TEMPERATURE	RTD, Dig. Thermometer, Temperature Gauge, Thermocouple, Temperature Indicator / Controller with sensor, Transmitter, Thermocouple with & without Indicator	Using RTD Sensor with Indicator, Multifunction Calibrator & Temperature Bath by Comparison Method	-80 °C to -30 °C	0.16°C
215	THERMAL-TEMPERATURE	Temperature Indicator with sensor Temperature Baths, Dry Bath Calibrators	Using RTD Sensor with Indicator by Comparison Method	250 °C to 600 °C	0.24°C
216	THERMAL-TEMPERATURE	Temperature Indicator with sensor Temperature Baths, Dry Bath Calibrators	Using RTD Sensor with Indicator & oil Bath by Comparison Method	50 °C to 250 °C	0.18°C
217	THERMAL-TEMPERATURE	Temperature Indicator with sensor Temperature Baths, Dry Bath Calibrators	Using Thermocouple(S-Type) with Indicator by Comparison Method	600 °C to 1200 °C	1.95°C
218	THERMAL-TEMPERATURE	Temperature Indicator with sensor Temperature Baths, Dry Bath Calibrators	Using RTD Sensor with Indicator by Comparison Method	-80 °C to 50 °C	0.19°C



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy @ 50 Hz Single & Three Phase, 63.5 V to 220 V, 0.5 A to 5A, 0.5 (Lead / Lag) to UPF	Using Energy Meter by direct method	75 Wh to 3.3 kWh	0.039 Wh to 0.0182 Wh
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 1kHz	Using 6 ½ Digital Multimeter by Direct Method	0.1 A to 1 A	0.0019 A to 0.0018 A
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 1kHz	Using 6 ½ Digital Multimeter by Direct Method	1 A to 3 A	0.0018 A to 0.0094 A
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	Using 6 ½ Digital Multimeter by Direct Method	0.1 A to 1 A	0.0019 A to 0.0018 A



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	Using 6 ½ Digital Multimeter by Direct Method	1 A to 3 A	0.0018 A to 0.0094 A
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	Using 5 ½ Digital Multimeter by Direct Method	3 A to 10 A	0.016 A to 0.078 A
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using High Voltage Probe with Multimeter by Direct method	1 kV to 28 kV	1.62kV
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz	Using 6 ½ Digital Multimeter by Direct Method	0.1 V to 1 V	0.00042 V to 0.26 V
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz	Using 6 ½ Digital Multimeter by Direct Method	1 V to 10 V	0.26 V to 0.0077 V



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz	Using 6 ½ Digital Multimeter by Direct Method	10 mV to 100 mV	0.054 mV to 0.12 mV
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz	Using 6 ½ Digital Multimeter by Direct Method	10 V to 100 V	0.0077 V to 0.074 V
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz	Using 6 ½ Digital Multimeter by Direct Method	100 V to 750 V	0.074 V to 3.5 V
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz	Using 6 ½ Digital Multimeter by Direct Method	2 mV to 10 mV	0.13 mV to 0.054 mV
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ Digital Multimeter by Direct Method	0.1 V to 1 V	0.00042 V to 0.0011 V



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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ Digital Multimeter by Direct Method	1 V to 10 V	0.0011 V to 0.0077 V
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ Digital Multimeter by Direct Method	10 mV to 100 mV	0.054 mV to 0.12 mV
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ Digital Multimeter by Direct Method	10 V to 100 V	0.0077 V to 0.074 V
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ Digital Multimeter by Direct Method	100 V to 750 V	0.074 V to 3.5 V
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ Digital Multimeter by Direct Method	2 mV to 10 mV	0.090 mV to 0.054 mV



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20	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50Hz	Using Multiproduct Calibrator by Direct Method	2 A to 10 A	0.0038 A to 0.022 A
21	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50Hz	Using Multiproduct Calibrator by Direct Method	2 mA to 20 mA	0.0064 mA to 0.056 mA
22	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50Hz	Using Multiproduct Calibrator by Direct Method	20 mA to 200 mA	0.056 mA to 0.56 mA
23	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50Hz	Using Multiproduct Calibrator by Direct Method	200 mA to 2000 mA	0.56 mA to 10.66 mA
24	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	Using Multiproduct Calibrator and Current Coil by Direct Method	100 A to 500 A	1.73 A to 2.88 A
25	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	Using Multiproduct Calibrator and Current Coil by Direct Method	50 A to 100 A	0.89 A to 1.73 A



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26	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	Using Multiproduct Calibrator and Current Coil by Direct Method	500 A to 1000 A	2.88 A to 6.11 A
27	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz	Using Multiproduct Calibrator by Direct Method	0.2 V to 2 V	0.00078 V to 0.0048 V
28	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz	Using Multiproduct Calibrator by Direct Method	2 V to 20 V	0.0048 V to 0.047 V
29	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz	Using Multiproduct Calibrator by Direct Method	20 V to 200 V	0.047 V to 0.42 V
30	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz	Using Multiproduct Calibrator by Direct Method	200 V to 500 V	0.42 V to 0.92 V
31	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz	Using Multiproduct Calibrator by Direct Method	500 V to 1000 V	0.92 V to 2.05 V



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32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Digital Multimeter by Direct Method	0.1 A to 1 A	0.00023 A to 0.0061 A
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Digital Multimeter by Direct Method	1 A to 3 A	0.0061 A to 0.0059 A
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Digital Multimeter by Direct Method	1 mA to 10 mA	0.0041 mA to 0.008 mA
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Digital Multimeter by Direct Method	10 mA to 100 mA	0.008 mA to 0.065 mA
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 5 ½ Digital Multimeter by Direct Method	3 A to 10 A	0.0082 A to 0.035 A
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using High Voltage Probe with Multimeter by Direct Method	1 kV to 30 kV	0.92kV



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38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Digital Multimeter by Direct Method	0.1 V to 1 V	0.000015 V to 0.00017 V
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Digital Multimeter by Direct Method	1 mV to 10 mV	0.021 mV to 0.0051 mV
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Digital Multimeter by Direct Method	1 V to 10 V	0.00017 V to 0.0005 V
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Digital Multimeter by Direct Method	10 mV to 100 mV	0.0051 mV to 0.01 mV
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Digital Multimeter by Direct Method	10 V to 100 V	0.0005 V to 0.0063 V
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Digital Multimeter by Direct Method	100 V to 1000 V	0.0063 V to 0.200 V



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44	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ Digital Multimeter by Direct Method	0.1 kohm to 1 kohm	0.0016kohm
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ Digital Multimeter by Direct Method	0.1 Mohm to 1 Mohm	0.0001 Mohm to 0.0016 Mohm
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ Digital Multimeter by Direct Method	1 kohm to 10 kohm	0.0016 kohm to 0.0016 kohm
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ Digital Multimeter by Direct Method	1 Mohm to 10 Mohm	0.0016 Mohm to 0.005 Mohm
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ Digital Multimeter by Direct Method	1 ohm to 10 ohm	0.32 ohm to 0.013 ohm
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ Digital Multimeter by Direct Method	10 kohm to 100 kohm	0.0016 kohm to 0.015 kohm



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50	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ Digital Multimeter by Direct Method	10 Mohm to 100 Mohm	0.005 Mohm to 2.354 Mohm
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ Digital Multimeter by Direct Method	10 ohm to 100 ohm	0.013 ohm to 0.025 ohm
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator by Direct Method	1 mA to 24 mA	0.024 mA to 0.012 mA
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator and Current Coil by Direct Method	100 A to 500 A	1.16 A to 2.89 A
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	2 A to 10 A	0.0031 A to 0.017 A
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	2 mA to 20 mA	0.006 mA to 0.04 mA



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56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	20 mA to 200 mA	0.04 mA to 0.4 mA
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	200 mA to 2000 mA	0.4 mA to 3.14 mA
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator and Current Coil by Direct Method	50 A to 100 A	0.61 A to 1.16 A
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator and Current Coil by Direct Method	500 A to 1000 A	2.89 A to 6.02 A
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	0.2 V to 2 V	0.00035 V to 0.0026 V
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	1 mV to 80 mV	0.0061 mV to 0.0194 mV



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62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	1 V to 12 V	0.009 V to 0.011 V
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	2 V to 20 V	0.0026 V to 0.027 V
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	20 V to 200 V	0.027 V to 0.26 V
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	200 V to 500 V	0.26 V to 0.64 V
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	500 V to 1000 V	0.64 V to 2.05 V
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	80 mV to 250 mV	0.0194 mV to 0.082 mV



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68	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using High Resistance Jig by Direct Method	1 Gohm	0.045Gohm
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	1 kohm to 10 kohm	0.0012 kohm to 0.012 kohm
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Low Resistance Jig by Direct Method	1 mohm	0.003mohm
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	1 Mohm to 10 Mohm	0.0012 Mohm to 0.012 Mohm
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Low Resistance Jig by Direct Method	1 ohm	0.021ohm
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	1 ohm to 10 ohm	0.0024 ohm to 0.012 ohm



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74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Universal Calibrator by Direct Method	1 ohm to 400 ohm	0.063 ohm to 0.135 ohm
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Low Resistance Jig by Direct Method	10 µohm	0.6µohm
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using High Resistance Jig by Direct Method	10 Gohm	0.46Gohm
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	10 kohm to 100 kohm	0.012 kohm to 0.12 kohm
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Low Resistance Jig by Direct Method	10 mohm	0.015mohm
79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using High Resistance Jig by Direct Method	10 Mohm	0.34Mohm



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80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	10 Mohm to 100 Mohm	0.012 Mohm to 0.12 Mohm
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	10 ohm to 100 ohm	0.012 ohm to 0.12 ohm
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Low Resistance Jig by Direct Method	100 µohm	0.6µohm
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using High Resistance Jig by Direct Method	100 Gohm	8.99Gohm
84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	100 kohm to 1000 kohm	0.12 kohm to 1.12 kohm
85	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Low Resistance Jig by Direct Method	100 mohm	0.15mohm



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86	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using High Resistance Jig by Direct Method	100 Mohm	3.4Mohm
87	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	100 Mohm to 1000 Mohm	0.12 Mohm to 6.02 Mohm
88	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	100 ohm to 1000 ohm	0.12 ohm to 1.12 ohm
89	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using High Resistance Jig by Direct Method	1000 Gohm	89.9Gohm
90	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using High Resistance Jig by Direct Method	200 Mohm	9.06Mohm
91	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Universal Calibrator by Direct Method	400 ohm to 4000 ohm	0.135 ohm to 1.31 ohm



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92	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using High Resistance Jig by Direct Method	5 Mohm	0.18Mohm
93	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Low Resistance Jig by Direct Method	50 µohm	0.6µohm
94	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using High Resistance Jig by Direct Method	500 Mohm	22.67Mohm
95	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B-Type	Using Universal Calibrator by Direct Method	450 °C to 1800 °C	0.59°C
96	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E-Type	Using Universal Calibrator by Direct Method	-200 °C to 1000 °C	0.37°C
97	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J-Type	Using Universal Calibrator by Direct Method	-200 °C to 1200 °C	0.37°C



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98	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K-Type	Using Universal Calibrator by Direct Method	-200 °C to 1372 °C	0.37°C
99	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N-Type	Using Universal Calibrator by Direct Method	-200 °C to 1300 °C	0.37°C
100	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R-Type, S-Type	Using Universal Calibrator by Direct Method	0 °C to 1750 °C	0.59°C
101	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (pt100)	Using Universal Calibrator by Direct Method	-200 °C to 200 °C	0.18 °C
102	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (pt100)	Using Universal Calibrator by Direct Method	200 °C to 600 °C	0.24°C
103	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (pt100)	Using Universal Calibrator by Direct Method	600 °C to 800 °C	0.35°C



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104	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T-Type	Using Universal Calibrator by Direct Method	-200 °C to 400 °C	0.37°C
105	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B-Type	Using Universal Calibrator by Direct Method	600 °C to 1800 °C	0.82°C
106	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E-Type	Using Universal Calibrator by Direct Method	-200 °C to 990 °C	0.37°C
107	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J-Type	Using Universal Calibrator by Direct Method	-200 °C to 1200 °C	0.37°C
108	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K-Type	Using Universal Calibrator by Direct Method	-200 °C to 1370 °C	0.37°C
109	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N-Type	Using Universal Calibrator by Direct Method	-200 °C to 1290 °C	0.37°C



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110	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R-Type, S-Type	Using Universal Calibrator by Direct Method	10 °C to 1750 °C	0.82°C
111	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (Pt100)	Using Universal Calibrator by Direct Method	-200 °C to 200 °C	0.18°C
112	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (Pt100)	Using Universal Calibrator by Direct Method	200 °C to 600 °C	0.30°C
113	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (Pt100)	Using Universal Calibrator by Direct Method	600 °C to 800 °C	0.41°C
114	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T-Type	Using Universal Calibrator by Direct Method	-200 °C to 400 °C	0.37°C
115	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ Digital Multimeter by Direct Method	0.3 kHz to 3 kHz	0.000024 kHz to 0.012 kHz



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116	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ Digital Multimeter by Direct Method	3 Hz to 30 Hz	0.035Hz
117	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ Digital Multimeter by Direct Method	3 kHz to 300 kHz	0.012kHz
118	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ Digital Multimeter by Direct Method	30 Hz to 300 Hz	0.035 Hz to 0.023 Hz
119	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Timer Calibrator by Comparison Method	1 s to 60 s	0.073 s to 0.086 s
120	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Timer Calibrator by Comparison Method	3600 s to 43200 s	0.93 s to 5.13 s
121	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Timer Calibrator by Comparison Method	43200 s to 86400 s	5.05 s to 10.01 s



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122	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Timer Calibrator by Comparison Method	60 s to 3600 s	0.086 s to 0.93 s
123	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Universal Calibrator by Direct Method	3 Hz to 50 Hz	0.02 Hz to 0.1 Hz
124	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Universal Calibrator by Direct Method	50 Hz to 500 Hz	0.1 Hz to 1 Hz
125	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Universal Calibrator by Direct Method	500 Hz to 5000 Hz	1 Hz to 1.6 Hz
126	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Universal Calibrator by Direct Method	5000 Hz to 10000 Hz	1.6 Hz to 0.0039 kHz
127	MECHANICAL-ACCELERATION AND SPEED	RPM Source / RPM Meter/ Centrifuge	Using Digital Tachometer by Comparison Method	100 rpm to 1000 rpm	0.74rpm



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128	MECHANICAL-ACCELERATION AND SPEED	RPM Source / RPM Meter/ Centrifuge	Using Digital Tachometer by Comparison Method	1000 rpm to 25000 rpm	58.15rpm
129	MECHANICAL-ACCELERATION AND SPEED	RPM Source / RPM Meter/ Centrifuge	Using Digital Tachometer by Comparison Method	2.5 rpm to 100 rpm	6%
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calipers Vernier/ Dial (L.C: 0.02 mm)	Using Slip Gauge Set & Long Gauge Block Set by Comparison Method	0 to 2000 mm	21µm
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge	Using Standard Foils by Comparison Method	0 to 931 µm	6.2µm
132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauges Vernier / Dial (L.C: 0.02 mm)	Using Long slip Gauge set& Slip Gauge Set by Comparison Method	Up to 1000 mm	20µm
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauges Vernier / Digital / Dial (L.C: 0.01 mm)	Using Caliper Checker, Long Gauge Block Set & Slip Gauge Set by Comparison Method	Up to 600 mm	8.7µm



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134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Sprit Level (Sensitivity : 0.01 mm/m) & Granite L Square by Comparison Method	2000 mm to 1000 mm	1.31 x Sqrt(L/W)*100 μm(Where L & W are in mm)
135	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure-Dial, Digital Pressure Gauges/ Indicators, Pressure Transducers and Pressure Transmitter Differential Pressure Gauge	Using Digital Manometer & Digital Multimeter by Comparison Method DKD R6-1	-344 mbar to 0 mbar	1.1mbar
136	MECHANICAL-PRESSURE INDICATING DEVICES	Magnehelic Gauge, Digital Manometer, Manometer, Differential Pressure Gauge	Using Digital Manometer by Comparison Method DKD R6-1	0 Pa to 1950 Pa	2.0Pa
137	MECHANICAL-PRESSURE INDICATING DEVICES	Magnehelic Gauge, Digital Manometer, Manometer, Differential Pressure Gauge	Using Digital Manometer by Comparison Method DKD R6-1	-1950 Pa to 0 Pa	2.0Pa



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138	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Pressure-Dial, Digital Pressure Gauges/ Indicators, Pressure Transducers and Pressure Transmitter Differential Pressure Gauge	Using Digital Manometer & Digital Multimeter by Comparison Method DKD R6-1	0 mbar to 344 mbar	1.1mbar
139	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Hydraulic Dial, Digital Pressure Gauges/ Indicators, Pressure Transducers and Pressure Transmitter Differential Pressure Gauge	Using Digital Pressure Gauge & Digital Multimeter by Comparison Method DKD R6-1	0 bar to 700 bar	0.46bar
140	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Pneumatic Industrial Dial, Digital Pressure Gauges/ Indicators, Pressure Switch and Pressure Transmitter Differential Pressure Gauge	Using Digital Pressure Gauge & Digital Multimeter by Comparison Method DKD R6-1	0 bar to 35 bar	0.034bar
141	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum - Industrial Dial, Digital Pressure Gauges/ Indicators, Pressure Switch and Pressure Transmitter Differential Pressure Gauge	Using Digital Pressure Gauge & Digital Multimeter by Comparison Method DKD R6-1	0 bar to -0.95 bar	0.0085bar



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142	MECHANICAL-WEIGHING SCALE AND BALANCE	Micro Balance, Class I and coarser Readability: 0.001 mg	Using E1 Class Standard Weights As Per OIML R-76	Up to 5 g	0.04mg
143	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Class I and coarser Readability: 0.01 mg	Using E1 Class Standard Weights As Per OIML R-76	Up to 101 g	0.06mg
144	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Class I and coarser Readability: 0.01 mg	Using E1 Class Standard Weights As Per OIML R-76	Up to 80 g	0.06mg
145	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Class I and coarser Readability: 0.1 mg	Using E1 Class Standard Weights As Per OIML R-76	Up to 220 g	0.11mg
146	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Class I and coarser Readability: 1 mg	Using E1 & F1 Class Standard Weights As Per OIML R-76	Up to 1000 g	11mg
147	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Class II and coarser Readability: 10 mg	Using E1 & F1 Class Standard Weights As Per OIML R-76	Up to 10 kg	0.047g
148	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Class III and coarser Readability: 1 g	Using F1 Class Standard Weights As Per OIML R-76	Up to 50 kg	1g



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149	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Class III and coarser Readability: 100 mg	Using E1 & F1 Class Standard Weights As Per OIML R-76	Up to 20 kg	0.25g
150	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Class IV and coarser Readability: 10 g	Using F1 & M1 Class Standard Weights As Per OIML R 76	Up to 150 kg	12g
151	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Class IV and coarser Readability: 100 g	Using F1 & M1 Standard Weights as per OIML R 76	Up to 1000 kg	0.170kg
152	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Class IV and coarser Readability: 20 g	Using F1 & M1 Class Standard Weights As Per OIML R 76	Up to 300 kg	20g
153	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Class IV and coarser Readability: 50 g	Using F1 & M1 Class Standard Weights As Per OIML R 76	Up to 650 kg	0.050kg
154	THERMAL-SPECIFIC HEAT & HUMIDITY	Environmental & Humidity Chambers, Stability Chambers	Using Digital Temperature/Humidity Indicator with sensor (Single Position Calibration) by comparison method	10 %rh to 95 %rh @ 25°C	1.22%rh



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155	THERMAL-SPECIFIC HEAT & HUMIDITY	Environmental & Humidity Chambers, Stability Chambers	Using Temperature/ Humidity Data logger(minimum 9 sensor) by Multiposition Calibration	15 %rh to 95 %rh @ 25°C	3.19%rh
156	THERMAL-SPECIFIC HEAT & HUMIDITY	Environmental & Humidity Chambers, Stability Chambers	Using Digital Temperature/Humidity Indicator with sensor (Single Position Calibration) by comparison method	5 °C to 60 °C @ 50%rh	0.27°C
157	THERMAL-SPECIFIC HEAT & HUMIDITY	Environmental & Humidity Chambers, Stability Chambers	Using Temperature/ Humidity Data logger (minimum 9 sensor) by Multiposition Calibration	5°C to 50°C@ 50%rh	0.6°C
158	THERMAL-TEMPERATURE	Baths, Deep Freezer, Freezer, Refrigerator, Thermal Chamber, Water bath, Hot air Oven, Furnaces	Using Data logger with RTD, (minimum 9 sensor)Multiposition Calibration	250 °C to 1200 °C	3.81°C
159	THERMAL-TEMPERATURE	Baths, Deep Freezer, Freezer, Refrigerator, Thermal Chamber, Water bath, Hot air Oven, Furnaces	Using Data logger with RTD, (minimum 9 sensor)Multiposition Calibration	-80 °C to 250 °C	2.3°C



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160	THERMAL-TEMPERATURE	Dig. Thermometer, Temperature Gauge, Thermocouple, Temperature Indicator / Controller with sensor, Transmitter, Thermocouple with & without Indicator	Using Thermocouple(S-Type) with Indicator, Multifunction Calibrator & Temperature Bath by Comparison Method	600 °C to 1200 °C	1.86°C
161	THERMAL-TEMPERATURE	RTD, Dig. Thermometer, Temperature Gauge, Thermocouple, Temperature Indicator / Controller with sensor, Transmitter, Thermocouple with & without Indicator	Using RTD Sensor with Indicator, Multifunction Calibrator & Temperature Bath by Comparison Method	250 °C to 600 °C	0.21°C
162	THERMAL-TEMPERATURE	RTD, Dig. Thermometer, Temperature Gauge, Thermocouple, Temperature Indicator / Controller with sensor, Transmitter, Thermocouple with & without Indicator	Using RTD Sensor with Indicator, Multifunction Calibrator & Temperature Bath by Comparison Method	-30 °C to 250 °C	0.16°C



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163	THERMAL-TEMPERATURE	RTD, Dig. Thermometer, Temperature Gauge, Thermocouple, Temperature Indicator / Controller with sensor, Transmitter, Thermocouple with & without Indicator	Using RTD Sensor with Indicator, Multifunction Calibrator & Temperature Bath by Comparison Method	-80 °C to -30 °C	0.16°C
164	THERMAL-TEMPERATURE	Temperature Indicator / Controller with sensor of Bath, Deep Freezer, Freezer, Refrigerator, Incubator(Non Medical purpose), Autoclave (Non Medical purpose), Water bath, Hot Air oven, Furnace	Using RTD Sensor with Indicator by Comparison Method (Single Position Calibration) by comparison method	250 °C to 600 °C	0.21°C



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165	THERMAL-TEMPERATURE	Temperature Indicator / Controller with sensor of Bath, Deep Freezer, Freezer, Refrigerator, Incubator(Non Medical purpose), Autoclave (Non Medical purpose), Water bath, Hot Air oven, Furnace	Using RTD Sensor with Indicator (Single Position Calibration) by Comparison Method	-80 °C to -30 °C	0.21°C
166	THERMAL-TEMPERATURE	Temperature Indicator / Controller with sensor of Bath, Deep Freezer, Freezer, Refrigerator, Incubator(Non Medical purpose), Autoclave(Non Medical purpose), Water bath, Hot Air oven, Furnace	Using RTD Sensor with Indicator(Single Position Calibration) by Comparison Method	-30 °C to 250 °C	0.2°C



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167	THERMAL-TEMPERATURE	Temperature Indicator / Controller with sensor of Bath, Deep Freezer, Freezer, Refrigerator, Incubator(Non Medical purpose), Autoclave(Non Medical purpose), Water bath, Hot Air oven, Furnace	Using Thermocouple (Type S) With Indicator (Single Position Calibration) by Comparison Method	600 °C to 1200 °C	1.94°C

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