National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : KL TECHNOLOGY SOLUTIONS, E-5, NEHRU GROUND, FARIDABAD, HARYANA, INDIA

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital multimeter by Direct method	100 mA to 10 A	0.2 % to 0.3 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital multimeter by Direct method	30 µA to 100 mA	0.3 % to 0.2 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Current @ 50 Hz	Using 6½ Digit Multimeter and Current Transformer (2000/5A) by Direct Method	10 A to 2000 A	0.5 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Resistance @1 kHz	Using LCR meter by direct method	1 ohm to 10 kohm	0.16 % to 0.11 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digital multimeter by Direct method	1 mV to 500 mV	0.8 % to 0.2 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digital multimeter by Direct method	500 mV to 1000 V	0.2 % to 0.14 %

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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using LCR meter by direct method	10 pF to 1 µF	0.32 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 100 Hz	Using LCR meter by direct method	10 µF to 10 mF	0.4 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Energy - 3 Phase 4 wire (10 V to 440 V) (1A to 10A), Power Factor (0.1 to 1), (Lead/Lag)	Using Three Phase Power Energy Logger / Calibrator by Comparison method	0.3 kWh to 6 kWh	1.39 % to 1.43 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Energy - Single Phase, 2 wire (10 V to 440 V) (1 A to 10 A), Power Factor (0.1 to 1), (Lead/ Lag)	Using Three Phase Power Energy logger/ Calibrator by Comparison method	0.3 kWh to 6 kWh	1.39 % to 1.43 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Harmonic, Total Harmonic Distortion (THD) @ 50 Hz	Using 3 Phase energy logger with Source by Direct / Comparison Method	30 V to 240 V (1 % to 10 %)	0.7 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @ 100 Hz	Using LCR meter by direct method	0.1 mH to 10 H	0.24 %

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13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Product Calibrator with current Coil by Direct method	20 A to 1000 A	0.4 % to 1.5 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Product Calibrator by Direct method	3 mA to 20 A	0.12 % to 0.4 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Product Calibrator by Direct method	30 µA to 3 mA	0.55 % to 0.12 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power (Active) 1 V to 1000V, 1 mA to 20A, UPF @ 50 Hz, 1 lead /Lag	Using Multi product Calibrator & Energy logger by Direct method	1 W to 12000 W	0.30 % to 0.09 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (@ 50 Hz)	Using Multi Product Calibrator by Direct method	10 mV to 100 V	0.35 % to 0.04 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (@ 50 Hz)	Using Multi Product Calibrator by Direct method	100 V to 1000 V	0.04 % to 0.06 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50 HZ)	Using Multi Product Calibrator by Direct method	1 mV to 10 mV	2.5 % to 0.35 %

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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi Product Calibrator by Direct method	0.5 nF to 10 nF	2.9 % to 0.58 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 100 Hz	Using Multi Product Calibrator by Direct method	30 nF to 100 µF	0.5 % to 1.4 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using LCR meter by direct method	100 µH to 10 H	2.7 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor (Lead/Lag) 240V/ 5A @ 50 Hz	Using Multi product Calibrator & Energy logger by Direct method	0.1 PF to 1 PF	0.054 PF
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital multimeter by Direct method	10 µA to 100 mA	0.7 % to 0.3 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital multimeter by Direct method	100 mA to 10 A	0.3 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Current	Using 6½ Digit Multimeter and Current Shunt by VI Method	10 A to 100 A	0.75 %

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27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Current	Using 6½ Digit Multimeter and Current shunt by VI Method	100 A to 150 A	1.2 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV probe with DMM by direct method	1 kV to 35 kV	4.5 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital multimeter by Direct method	1 mV to 100 mV	0.4 % to 0.01 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital multimeter by Direct method	10 V to 1000 V	0.012 % to 0.007 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital multimeter by Direct method	100 mV to 10 V	0.01 % to 0.012 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using Insulation Tester by direct method	1 Mohm to 1 Tohm	2.5 % to 2.9 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digital multimeter by Direct method	1 Mohm to 100 Mohm	0.013 % to 0.96 %

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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digital multimeter by Direct method	1 Ohm to 1 Mohm	0.36 % to 0.013 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digital multimeter by Direct method	100 Mohm to 1000 Mohm	0.96 % to 1.8 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 wire	Using micro ohm meter by direct method	1 mohm to 100 mohm	0.2 % to 0.05 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 wire	Using microohm meter by direct method	10 µohm to 1 mohm	0.73 % to 0.32 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using micro ohm meter by direct method	100 mohm to 1 ohm	0.05 % to 0.09 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct method	1 µA to 10 µA	2.50 % to 0.3 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct method	1 mA to 20 A	2.5 % to 0.4 %

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41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct method	10 µA to 1 mA	0.3 % to 2.5 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator with Current Coil by Direct method	20 A to 1000 A	0.4 % to 0.13 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (Active power) 10 V to 1000V, 0.1 A to 20A	Using Multiproduct calibrator by direct method	100 W to 20000 W	0.97 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct method	1 mV to 330 mV	0.4 % to 0.015 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct method	330 mV to 1000 V	0.015 % to 0.01 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Multi Product Calibrator by Direct method	1 Ohm to 30 Ohm	0.5 % to 0.07 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Multi Product Calibrator by Direct method	30 kohm to 30 Mohm	0.13 %

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48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Multi Product Calibrator by Direct method	30 Mohm to 1000 Mohm	0.13 % to 0.75 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Multi Product Calibrator by Direct method	30 Ohm to 30 kohm	0.07 % to 0.13 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire) @ 1000 V DC	Using High Resistance Box by Direct method	1 Tohm	3.5 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire) @ 1000 V DC	Using High Resistance Box by Direct method	10 Gohm	3.5 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire) @ 1000 V DC	Using High Resistance Box by Direct method	10 Mohm	3.5 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire) @ 1000 V DC	Using High Resistance Box by Direct method	100 Gohm	3.5 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire) @ 1000 V DC	Using High Resistance Box by Direct method	100 Mohm	3.7 %

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55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire) @ 1000 V DC	Using High Resistance Box by Direct method	200 Gohm	3.5 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire) @ 5000 V DC	Using High Resistance Box by Direct method	1 Tohm	3.5 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire) @ 5000 V DC	Using High Resistance Box by Direct method	10 Gohm	3.5 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire) @ 5000 V DC	Using High Resistance Box by Direct method	10 Mohm	3.5 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire) @ 5000 V DC	Using High Resistance Box by Direct method	100 Gohm	3.5 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire) @ 5000 V DC	Using High Resistance Box by Direct method	100 Mohm	3.5 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire) @ 5000 V DC	Using High Resistance Box by Direct method	200 Gohm	3.74 %

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62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Low Resistance Box by Direct method	10 mohm	0.38 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Low Resistance Box by Direct method	10 Ohm	0.2 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Low Resistance Box by Direct method	100 mohm	0.2 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 wire	Using Low Resistance Box by Direct method	1000 mohm	0.2 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Low Resistance Box by Direct method	1 mohm	0.55 %
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Low Resistance Box by Direct method	100 Ohm	0.25 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Low Resistance Box by Direct method	1000 Ohm	0.25 %

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69	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	ORP Meter / ORP Indicator	Using Multi product calibrator By Direct Method	(-) 1500 mV to 1500 mV	0.5 %
70	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude @ 1 kHz Sinewave	Using Function / Arbitrary wave form generator by Direct method	2 mVpp to 20 Vpp	0.45 % to 0.35 %
71	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude @ 1 kHz Square wave	Using Function / Arbitrary wave form generator by Direct method	2 mVpp to 20 Vpp	0.37 % to 0.35 %
72	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Bandwidth	Using Function / Arbitrary wave form generator by Direct method	50 kHz to 20 MHz	2.5 %
73	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Time Base	Using Function / Arbitrary wave form generator by Direct method	5 ns to 10 s	0.005 % to 0.01 %
74	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	pH Meter (simulation method)	Using Multi product calibrator By Direct Method	0 to 14 pH	0.13 %
75	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	TDS/ Conductivity Meter (Equivalent Resistance: 1 ohm to 2 Mohm)	Using Multiproduct calibrator by simulation method	0.5 µS/cm to 1000 mS/cm	1.72 % to 1.5 %

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76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B Type Thermocouple	Using Multi Product Calibrator by Direct method	600 °C to 1800 °C	0.77 °C
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E Type Thermocouple	Using Multi Product Calibrator by Direct method	(-) 250 °C to 1000 °C	0.63 °C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Using Multi Product Calibrator by Direct method	(-) 200 °C to 1200 °C	0.40 °C
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Using Multi Product Calibrator by Direct method	(-) 200 °C to 1300 °C	0.53 °C
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Using Multi Product Calibrator by Direct method	(-) 200 °C to 1300 °C	0.54 °C
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Using Multi Product Calibrator by Direct method	100 °C to 1700 °C	0.95 °C
82	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD	Using Multi Product Calibrator by Direct method	(-) 200 °C to 800 °C	0.25 °C

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83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Using Multi Product Calibrator by Direct method	100 °C to 1750 °C	0.65 °C
84	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Using Multi Product Calibrator by Direct method	(-) 200 °C to 400 °C	0.74 °C
85	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type thermocouple	Using Multi Product Calibrator by Direct method	600 °C to 1800 °C	0.68 °C
86	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E Type thermocouple	Using Multi Product Calibrator by Direct method	(-) 250 °C to 1000 °C	0.60 °C
87	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type thermocouple	Using Multi Product Calibrator by Direct method	(-) 200 °C to 1050 °C	0.74 °C
88	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type thermocouple	Using Multi Product Calibrator by Direct method	(-) 200 °C to 1350 °C	0.47 °C
89	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type thermocouple	Using Multi Product Calibrator by Direct method	(-) 200 °C to 1300 °C	0.47 °C

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90	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type thermocouple	Using Multi Product Calibrator by Direct method	0 °C to 1750 °C	0.67 °C
91	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD	Using Multi Product Calibrator by Direct method	(-) 200 °C to 800 °C	0.3 °C
92	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type thermocouple	Using Multi Product Calibrator by Direct method	0 °C to 1750 °C	0.66 °C
93	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type thermocouple	Using Multi Product Calibrator by Direct method	(-) 200 °C to 400 °C	0.73 °C
94	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital multimeter by Direct method	10 Hz to 1 MHz	0.096 % to 0.02 %
95	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Calibration standard by Comparison method	0.1 s to 1 s	0.011 s
96	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Calibration standard by Comparison method	1 s to 60 s	0.06 s

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97	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Calibration standard by Comparison method	3600 s to 43200 s	2.25 s
98	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Calibration standard by Comparison method	43200 s to 86400 s	2.50 s
99	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Calibration standard by Comparison method	60 s to 3600 s	2.25 s
100	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Arbitrary Function generator by Direct method	1 MHz to 200 MHz	0.07 % to 0.5 %
101	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct method	10 Hz to 2 MHz	0.5 % to 0.05 %
102	MECHANICAL-ACCELERATION AND SPEED	Centrifuge & Bitumen Extractor, Vibration machine, Abrasion testing machine, Washing machine, Tachometer calibrator, Laundrometer (Non-contact type)	Using Standard digital tachometer by Direct method	10 rpm to 100 rpm	0.46 rpm

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103	MECHANICAL-ACCELERATION AND SPEED	Centrifuge & Bitumen Extractor, Vibration machine, Abrasion testing machine, Washing machine, Tachometer calibrator, Laundrometer (Non-contact type)	Using Standard digital tachometer by Direct method	10000 rpm to 30000 rpm	6.01 rpm
104	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Non-contact type)	Using Standard digital tachometer & RPM source by Comparison method	10 rpm to 100 rpm	0.46 rpm
105	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Non-contact type)	Using Standard digital tachometer & RPM source by Comparison method	100 rpm to 1000 rpm	0.65 rpm
106	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Non-contact type)	Using Standard digital tachometer & RPM source by Comparison method	1000 rpm to 5000 rpm	2.02 rpm
107	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Non-contact type)	Using Standard digital tachometer & RPM source by Comparison method	10000 rpm to 30000 rpm	6.01 rpm
108	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Non-contact type)	Using Standard digital tachometer & RPM source by Comparison method	30000 rpm to 50000 rpm	6.0 rpm
109	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Non-contact type)	Using Standard digital tachometer & RPM source by Comparison method	5000 rpm to 10000 rpm	2.02 rpm

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110	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Non-contact type)	Using Standard digital tachometer & RPM source by Comparison method	50000 rpm to 70000 rpm	7.01 rpm
111	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Non-contact type)	Using Standard digital tachometer & RPM source by Comparison method	70000 rpm to 90000 rpm	9.2 rpm
112	MECHANICAL-ACCELERATION AND SPEED	Indicator of Centrifuge & Bitumen Extractor, Vibration machine, Abrasion testing machine, Washing machine, Tachometer calibrator, Laundrometer (Non-contact type)	Using Standard digital tachometer by Direct method	1000 rpm to 5000 rpm	2.02 rpm
113	MECHANICAL-ACCELERATION AND SPEED	Indicator of Centrifuge & Bitumen Extractor, Vibration machine, Abrasion testing machine, Washing machine, Tachometer calibrator, Laundrometer (Non-contact type)	Using Standard digital tachometer by Direct method	30000 rpm to 50000 rpm	6.0 rpm

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114	MECHANICAL-ACCELERATION AND SPEED	Indicator of Centrifuge & Bitumen Extractor, Vibration machine, Abrasion testing machine, Washing machine, Tachometer calibrator, Laundrometer (Non-contact type)	Using Standard digital tachometer by Direct method	5000 rpm to 10000 rpm	2.02 rpm
115	MECHANICAL-ACCELERATION AND SPEED	Indicator of Centrifuge & Bitumen Extractor, Vibration machine, Abrasion testing machine, Washing machine, Tachometer calibrator, Laundrometer (Non-contact type)	Using Standard digital tachometer by Direct method	50000 rpm to 70000 rpm	7.01 rpm
116	MECHANICAL-ACCELERATION AND SPEED	Indicator of Centrifuge & Bitumen Extractor, Vibration machine, Abrasion testing machine, Washing machine, Tachometer calibrator, Laundrometer (Non-contact type)	Using Standard digital tachometer by Direct method	70000 rpm to 90000 rpm	9.2 rpm

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117	MECHANICAL-ACCELERATION AND SPEED	Indicator of RPM Indicating device of Centrifuge, Bitumen extractor, Vibrating Machine, Abrasion Tester (Non-contact type)	Using Standard digital tachometer by direct method	10 rpm to 100 rpm	0.46 rpm
118	MECHANICAL-ACCELERATION AND SPEED	Indicator of RPM Indicating device of Centrifuge, Bitumen extractor, Vibrating Machine, Abrasion Tester (Non-contact type)	Using Standard digital tachometer by direct method	100 rpm to 1000 rpm	0.65 rpm
119	MECHANICAL-ACCELERATION AND SPEED	Indicator of RPM Indicating device of Centrifuge, Bitumen extractor, Vibrating Machine, Abrasion Tester (Non-contact type)	Using Standard digital tachometer by direct method	10000 rpm to 30000 rpm	6.01 rpm
120	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact type)	Using Standard digital tachometer & RPM source by Comparison method	10 rpm to 100 rpm	0.45 rpm
121	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact type)	Using Standard digital tachometer & RPM source by Comparison method	100 rpm to 1000 rpm	0.82 rpm
122	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact type)	Using Standard digital tachometer & RPM source by Comparison method	1000 rpm to 3000 rpm	2.12 rpm
123	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact type)	Using Standard digital tachometer & RPM source by Comparison method	3000 rpm to 5000 rpm	2.2 rpm

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124	MECHANICAL-ACCELERATION AND SPEED	Tachometer calibrator, Trademill (Contact type)	Using Standard digital tachometer by Direct method	10 rpm to 100 rpm	0.44 rpm
125	MECHANICAL-ACCELERATION AND SPEED	Tachometer calibrator, Trademill (Contact type)	Using Standard digital tachometer by Direct method	10 rpm to 100 rpm	0.45 rpm
126	MECHANICAL-ACCELERATION AND SPEED	Tachometer calibrator, Trademill (Contact type)	Using Standard digital tachometer by Direct method	100 rpm to 1000 rpm	0.82 rpm
127	MECHANICAL-ACCELERATION AND SPEED	Tachometer calibrator, Trademill (Contact type)	Using Standard digital tachometer by Direct method	1000 rpm to 3000 rpm	2.12 rpm
128	MECHANICAL-ACCELERATION AND SPEED	Tachometer calibrator, Trademill (Contact type)	Using Standard digital tachometer & RPM source by Comparison method	3000 rpm to 5000 rpm	2.2 rpm
129	MECHANICAL-ACCELERATION AND SPEED	Tachometer calibrator, Trademill (Contact type)	Using Standard digital tachometer by Direct method	3000 rpm to 5000 rpm	2.2 rpm
130	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Comparison Method	94 dB & 114 dB	0.99 dB
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Air Gauge Unit	Using Air plug gauge & Air ring gauge by comparison method	± 100 µm	3.0 µm
132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate/Box angle plate /Try square Flatness of working face	Using Surface plate , Master cylinder , Lever Dial , Height gauge , Jacks- By Comparison Method	Upto 300 mm	13.0 µm

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133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate/Box angle plate /Try square Squareness	Using Surface plate , Master cylinder , Lever Dial , Height gauge , Jacks By Comparison Method	Upto 300 mm	13.0 µm
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Beam/Motar Mould (Dimension Inspection)	Using Digital Caliper by Direct Method	0 to 600 mm	27.6 µm
135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (coaxility)	Using Test mandrel & Dial test indicator by Comparison method	Up to 300 mm	8.0 µm
136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (parallelism)	Using Test mandrel & Dial test indicator by Comparison method	Up to 300 mm	8.0 µm
137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor/Combination set (L.C: 5 ')	Using Angle Gauge and Surface plate by Comparison method	0° to 360°	6.22 minute of arc
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Box Angle Plate /angle plate/Try suare Parallelism of opposite faces and edges	Using Surface plate , Master cylinder , Lever Dial , Height gauge , Jack By Comparison Method:	Upto 300 mm	13.0 µm

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139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	CBR Mould - Diameter	Using Vernier Caliper by Comparison Method	0.5 mm to 200 mm	21.0 µm
140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	CBR Mould - Height	Using Vernier Caliper by Comparison Method	0.5 mm to 300 mm	22.0 µm
141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Chamfer /Weld fillet / Hi-Lo / Bridge cam gauge - Angle	Using Profile projector by Comparison Method	1 ° to 90 °	10 minute of Arc
142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Chamfer /Weld fillet / Hi-Lo / Bridge cam gauge- Length	Using Profile projector by Comparison Method	0 to 60 mm	7.4 µm
143	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C: 0.01/0.1 µm)	Using Standard Foils by Comparison method	10 µm to 720 µm	2.3 µm
144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination set, Clinometer , Inclinometer L.C: 1°	Using Angle Gauges-By Comparison Method	0 ° to 180 °	34.7 minute of arc

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145	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness of Base)	Using Dial Indicator by Comparison method	Up to 300 mm x 300 mm	3.02 µm
146	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Core Cutter, Core Cutter Dolly - Diameter	Using Vernier Caliper by Comparison Method as per IS 2720-29	0 to 120 mm	24.9 µm
147	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Core Cutter, Core Cutter Dolly - Length Core Cutter, Core Cutter Dolly - Length	Using Vernier Caliper by Comparison Method as per IS 2720-29	0 to 150 mm	19.6 µm
148	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Core Cutter, Core Cutter Dolly - Thickness	Using Vernier Caliper by Comparison Method as per IS 2720-29	0.5 mm to 10 mm	17 µm
149	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cross Hatch cutter	Using Profile Projector by Direct Method	1 mm	6 µm
150	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Moulds	Using Digital Caliper by Comparison method	20 mm to 200 mm	15 µm

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151	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylinder Mould - Diameter	Using Vernier Caliper by Comparison Method as per IS 10086	0.5 mm to 160 mm	32.9 µm
152	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylinder Mould - Height	Using Vernier Caliper by Comparison Method as per IS 10086	0.5 mm to 320 mm	17.1 µm
153	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylinder Mould - Thickness	Using Vernier Caliper by Comparison Method as per IS 10086	1 mm to 30 mm	22.9 µm
154	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Mould (Diameter/Depth/Height) CBR Mould, Proctor Mould, Le-Chatelier Mould, Aggregate impact Crushing Mould, Compaction Mould, Vicate Mould, Density basket.	Using Digitak Caliper by Direct Method	20 mm to 300 mm	37.2 µm
155	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper (L.C.: 0.01 mm and coarser)	Using Slip Gauge Set by Comparison Method	0 to 300 mm	15.8 µm

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156	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer	Using Slip gauge set by Comparison method	0 to 300 mm	4.3 µm
157	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Bore Gauge (L.C: 0.01 mm)	Using Dial Calibration tester by Comparison method	0 to 1 mm	6.5 µm
158	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness gauge (L.C: 0.001 mm)	Using Slip Gauge Block by Comparison method	0 to 10 mm	0.4 µm
159	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness gauge (L.C: 0.01 mm)	Using Slip Gauge Block by Comparison method	0 to 50 mm	5.8 µm
160	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Index/Flakiness Index apparatus	Using Digital Caliper by Comparison method	0 to 100 mm	25 µm
161	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C: 0.001 mm)	Using Slip Gauge Block by Comparison method	0 to 25 mm	0.76 µm

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162	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C: 0.001 mm)	Using Slip gauge block by Comparison method	25 to 100 mm	1.2 µm
163	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C: 0.01 mm)	Using Slip Gauge Block by Comparison method	0 to 150 mm	6.0 µm
164	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer,Least count 0.01	Using gauge block and Long gauge block	100 mm to 600 mm	7.7 µm
165	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Digital Micrometer by Comparison method	0.02 mm to 2 mm	3.4 µm
166	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flush Pin Gauge	Using Slip Gauge,Comparator Stand and electronic probe by comparison method	4 mm to 150 mm	3.0 µm
167	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Foils	Using Electronic Probe & Comparator stand by Comparison method	0.01 mm to 1 mm	1.33 µm

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168	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hegman gauge depth measurement	Using Plunger dial gauge with Comparator Stand by Direct Method	0 to 100 µm	5.6 µm
169	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (L.C: 0.01 mm)	Using Caliper Checker & Slip gauge Block by Comparison method	0 to 300 mm	7.93 µm
170	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (L.C: 0.01 mm)	Using Caliper Checker, Slip gauge Block & Surface Plate by Comparison method	0 to 600 mm	9.55 µm
171	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Caliper (L.C: 0.01 mm)	Using Caliper Checker by Comparison method	0 to 300 mm	7.3 µm
172	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Le - Chatelier Mould - Diameter	Using Vernier Caliper by Comparison Method as per IS 5514	20 mm to 50 mm	17.0 µm
173	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Le - Chatelier Mould - Height	Using Vernier Caliper by Comparison Method as per IS 5514	20 mm to 50 mm	107.0 µm

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174	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Le - Chatelier Mould - Split	Using Vernier Caliper by Comparison Method as per IS 5514	0.1 mm to 2 mm	17 µm
175	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever type Dial Gauge	Using Dial Calibration Tester By Comparison method	0 to 0.8 mm	3.1 µm
176	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever type Dial Gauge (L.C. 0.001 mm)	Using Dial Calibration Tester/ Slip gauge set and comparator stand by comparison method	0 to 0.14 mm	3.3 µm
177	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Magnetic V Block (Parallelism)	Using Slip Gauge Block, Dial Test Indicator, Test Mandrel & surface Plate by Comparison method	Up to 150 mm x 100 mm x 7 mm	3.85 µm
178	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Magnetic V Block (Squareness)	Using Master Cylinder, Slip Gauge Block & Surface Plate by Comparison method	Up to 150 mm x 100 mm x 7 mm	7.4 µm
179	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Magnetic V Block (Symmetricity)	Using Slip Gauge Block, Dial Test Indicator, Test Mandrel & Surface Plate by Comparison method	Up to 150 mm x 100 mm x 7 mm	5.2 µm

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180	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape/ Circumference Tape/pi Tape/Woven metallic & glass fiber tape	Using Measuring Scale & Tap calibration system by Comparison method	0 to 50 m	42*Sqrt(L) µm, where L in m
181	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Slip gauge set, Electronic probe & Comparator stand by Comparison method	25 mm to 100 mm	2.6 µm
182	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Needle / Plunger of Vicat Apparatus - Diameter / Length	Using Vernier Caliper by Comparison Method as per IS 5513	0 to 60 mm	10.9 µm
183	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Penetrometer (L.C. : 0.1 mm)	Using Slip Gauge set by Direct Method	0 to 40 mm	577.4 µm
184	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol caliper	Using Slip Gauge Set '0' Grade by comparison method	1 mm to 150 mm	57.8 µm
185	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge/Pin Gauge/ Air Plug gauge ,OD Gauge, Ball Diameter.	Using Gauge Block Set,Electronic probe with DRO and comparator Stand by Comparison Method	1 mm to 150 mm	3.3 µm

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186	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge (L.C: 0.001 mm)	Using Slip Gauge Block & Comparator stand by Comparison method	0 to 1 mm	2.5 µm
187	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge (L.C: 0.01 mm)	Using Slip gauge set & Comparator stand by Comparison method	0 to 25 mm	3.2 µm
188	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger type dial gauge (L.C: 0.01 mm)	Using Dial Calibration tester by Comparison method	0 to 10 mm	3.3 µm
189	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius gauge / Radius measurement	using Profile projector by comparison method	0.5 mm to 150 mm	5.2 µm
190	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Receiving Gauge/ Profile Gauge / Profile of Work Piece-Angle	Using Profile Projector by Direct Method	0 to 360 degree	5 sec
191	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Receiving Gauge/ Profile Gauge / Profile of Work Piece-Length	Profile Projector/Gauge Block/Digital Caliper/Plunger dial gauge/lever dial gauge/Comparator Stand by Direct & Comparison Method	0 to 300 mm	9.5 µm

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192	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Receiving Gauge/ Profile Gauge / Profile of Work Piece-Radius	Using Profile Projector by Direct Method	2.5 mm to 50 mm	4.6 µm
193	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sand Pouring Cylinder - Diameter	Using Vernier Caliper by Comparison Method	0 to 250 mm	16.3 µm
194	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sand Pouring Cylinder - Height	Using Vernier Caliper by Comparison Method as per IS 2720-28	0 to 625 mm	18.7 µm
195	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sand Replacement Cylinder/ Temping Rod/ Pocking Rod (dimension Measurement) (Diameter/Length/ measurement of Part)	Using Dig. Caliper/Height Gauge/Depth Gauge/Dial gauge with comparator stand by Direct Method	0 to 600 mm	37.4 µm
196	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar (Centre Distance)	Using height gauge and dial indicator direct Comparison	upto 300 mm	4 µm
197	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar (Flatness)	Using electronic probe & surface plate by comparison method	upto 300 mm	2.76 µm

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198	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar (Parallelism)	Using electronic probe & surface plate by comparison method	upto 300 mm	3.4 µm
199	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Slump Cone - Diameter (Top / Bottom)	Using Vernier Caliper by Comparison Method	90 mm to 210 mm	24.0 µm
200	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Slump Cone - Height	Using Vernier Caliper by Comparison Method	0 to 310 mm	18.7 µm
201	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge/ Width gauge	Using Slip Gauge Block by Comparison method	1 mm to 150 mm	2.5 µm
202	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Standard Pin Gauge	Using Slip Gauge Set '0' Grade, Electronic probe & Comparator Stand by Comparison method	0.5 mm to 20 mm	1.2 µm
203	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Std wire gauge	using profile projector by comparison method	upto 25 mm	5.2 µm

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204	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Scale	Using Measuring Scale & Tape calibration system by Comparison method	0 to 1000 mm	27.66 µm
205	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Step Gauge	Using Digital Micrometer/ Profile Projector by Direct Method	0 to 25 mm	2.9 µm
206	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight edge	Using height gauge & dial indicator by comparison method	Upto 600 mm	4.24 µm
207	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Precision Spirit level by Comparison method	3000 mm to 3000 mm	{1.87*Sqrt(L+W)/20 }µm/m
208	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale	Using Profile projector by Comparison Method	1 mm to 50 mm	7.4 µm
209	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve (Apparatus Size)	Using Digital Caliper by Comparison method	4 mm to 150 mm	14 µm

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210	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves (Aperture Size)	Using profile projector by comparison method	25 µm to 4 mm	4.5
211	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge - Angle	Using profile projector by comparison method	55° & 60°	43.16"
212	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge - Pitch	Using profile projector by comparison method	0.1 mm to 7.0 mm	5.2 µm
213	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three Wire Set	Using Slip Gauge Set '0' Grade, Electronic probe & Comparator Stand by Comparison method	0.5 mm to 4 mm	1.76 µm
214	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic thickness gauge	Using Slip gauge set grade "0" and Long gauge block by comparison method	Up to 200 mm	70.2 µm
215	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (Dial/Manual, Digital) (L.C: 0.01 mm)	Using Caliper Checker, Slip gauge Block by Comparison method	0 to 300 mm	8.0 µm

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216	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper - Dial/ Analogue/ Digital (L.C: 0.01 mm)	Using Caliper Checker, Slip gauge Block by Comparison method	0 to 600 mm	10.5 µm
217	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vicat Test Apparatus Plunger Diameter (Needle)	Using Dig. Micrometer by Direct Method	0.5 mm to 10 mm	3.0 µm
218	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration tester (L.C: 0.0002 mm)	Using Slip Gauge Block & Electronic probe by Comparison method	0 to 25 mm	0.96 µm
219	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe / LVDT (L.C: 0.0001 mm)	Using Slip Gauge Set '0' Grade & Comparator Stand by Comparison method	0 to 25 mm	2.34 µm
220	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Height Gauge (L.C. 0.001 mm)	Using Caliper Checker,Slip Gauge set grade "0" by Comparison method	0 to 600 mm	6 µm
221	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Height Gauge (L.C: 0.001 mm)	Using Caliper Checker, Slip gauge Block & Surface Plate by Comparison method	0 to 300 mm	5.54 µm
222	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope (Magnification)	Using Glass Scale, Gauge Block by Comparison method	1 X to 100 X	0.9 %

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223	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector X/Y Axis Movement (L.C: 0.001 mm)	Using Glass scale /Slip Gauge Set '0' Grade by Comparison method	0 to 200 mm	2.0 µm
224	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Angle Scale (L.C: 1 s)	Using Angle Gauge Set by Comparison method	0° to 360°	10 arc
225	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector-Magnification	Using Slip Gauge Set '0' Grade & Digital Caliper by Comparison Method	10 X to 100 X	0.06 %
226	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Tester (Portable) - Ra, Rz (L.C.: 0.001 µm)	Using Roughness Specimen Set by comparison method	0 to 360 µm	6.8 %
227	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal length measuring machine (L.C: 0.0001 mm)	Using Slip Gauge Set '0' Grade by Comparison method	0 to 100 mm	0.7 µm
228	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Video Measuring Machine (Angular) (L.C: 1 arc second)	Using Angle Gauge Set by Comparison method	0° to 360°	10 s of arc
229	MECHANICAL-DUROMETER	Durometer/Rubber Hardness Tester (Shore- A, B, E, O)	Using Load Cell with Indicator & Fixture Based on ISO18898 & ASTM D 2240 on ISO 18898 & ASTM D 2240	0 to 100 Shore A	0.6 Shore A
230	MECHANICAL-DUROMETER	Durometer/Rubber Hardness Tester (Shore- C, D, DO)	Using Load Cell with Indicator & Fixture Based ISO 18898 & ASTM D 2240	0 to 100 Shore	0.8 Shore D

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231	MECHANICAL-PRESSURE INDICATING DEVICES	Barometer / Barometric Pressure Gauge/Transmitter with Indicator, Transducers, Pressure Switch	Using digital barometer & pump,Digital Precision Multimeter by comparison method	300 mbar to 1050 mbar	1.52 mbar
232	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge (Analog / Digital),Transmitter with Indicator, Transducers, Pressure Switch	Using Digital pressure gauge, pressure pump & 6½ Digital multimeter based on DKD-R 6-1	0 to 70 bar	0.12 bar
233	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge (Analog / Digital),Transmitter with Indicator, Transducers, Pressure Switch	Using Digital pressure gauge, pressure pump & 6½ Digital multimeter based on DKD-R 6-1	0 to 700 bar	0.20 bar
234	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge (Analog / Digital) , Transmitter with Indicator ,Transducers ,Pressure Switch	Using Digital pressure gauge, pressure pump & 6½ Digital multimeter based on DKD-R 6-1 guidelines	0 bar to 40 bar	0.068 bar
235	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure -Pneumatic (Magnehelic Gauge, Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Transmitter, Pressure Switch, Manometer)	Using Digital Pressure Calibrator with Precision Low Pressure pump & 6½ Digital multimeter by Comparison method	(-) 195 mbar to 195 mbar	0.23 mbar

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236	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge (Analog / Digital) ,Transmitter with Indicator, Transducers, Vacuum Switch	Using Digital Pressure Gauge, pressure pump & 6½ Digital multimeter based on DKD R6-1	(-) 0.9 bar to 0 bar	0.006 bar
237	MECHANICAL-VOLUME	Glassware (Measuring Cylinder/ Jar, Volumetric Flask, Beaker, Glass Pipette, Dispenser, Burette)	Using Digital weighing balance (resolution: 0.01 g) by Gravimetric method as per ISO 4787	> 1 l to 2 l	0.32 ml
238	MECHANICAL-VOLUME	Glassware (Measuring Cylinder/ Jar, Volumetric Flask, Beaker, Glass Pipette, Dispenser, Burette)	Using Digital weighing balance (resolution: 0.001 g) by Gravimetric method as per ISO 4787	>100 ml to 500 ml	9.8 µl
239	MECHANICAL-VOLUME	Glassware (Measuring Cylinder/ Jar, Volumetric Flask, Beaker, Glass Pipette, Dispenser, Burette)	Using Digital weighing balance (resolution: 0.01 g) by Gravimetric method as per ISO 4787	>2 l to 5 l	0.6 ml
240	MECHANICAL-VOLUME	Glassware (Measuring Cylinder/ Jar, Volumetric Flask, Beaker, Glass Pipette, Dispenser, Burette)	Using Digital weighing balance (resolution: 0.01 mg) by Gravimetric method as per ISO 4787	1 ml to 100 ml	1.06 µl
241	MECHANICAL-VOLUME	Micro pipette / Pipette	Using Micro balance (resolution: 0.01 mg) as per ISO 8655: 2022	>100 µl to 1000 µl	0.88 µl

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242	MECHANICAL-VOLUME	Micro pipette / Pipette	Using Micro balance (resolution: 0.01 mg) as per ISO 8655: 2022	>20 µl to 100 µl	0.20 µl
243	MECHANICAL-VOLUME	Micro pipette / Pipette	Using Micro balance (resolution: 0.01 mg) as per ISO 8655: 2022	1 ml to 10 ml	2.4 µl
244	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class - I & coarser) (Resolution= 0.0001 mg or coarser)	Using E1 class standard weights as per OIML R76-1	0 to 2.2 g	0.006 mg
245	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class I & coarser) (Readability 0.001 mg & Coarser)	Using E1 class standard weights as per OIML R76-1	0 to 22 g	0.011 mg
246	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class I & coarser) (Readability=0.01 mg & Coarser)	Using E1 class standard weights as per OIML R76-1	0 g to 220 g	0.08 mg
247	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class II & coarser) (Readability=0.1 g & Coarser)	Using E1 & F1 class standard weights as per OIML R76-1	0 to 6 kg	0.1 g
248	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class III & coarser) (Readability=0.5 g & Coarser)	Using E1 & F1 class standard weights as per OIML R76-1	0 to 30 kg	0.5 g
249	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class III & coarser) (Readability=1 g & Coarser)	Using F1 class standard weights as per OIML R76-1	0 to 100 kg	1 g
250	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class IIII) (Readability=5 g & Coarser)	Using F1 class standard weights as per OIML R76-1	0 to 300 kg	5.9 g

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251	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance 0 to 1Kg, (Class II & coarser) (Readability=0.01 g & Coarser)	Using E1 & F1 class standard weights as per OIML R76-1	0 to 1 kg	0.01 g
252	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 class standard weights & semi micro balance (resolution 0.01mg) by Substitution method as per OIML R-111:2004	1 g	0.010 mg
253	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 class standard weights & semi micro balance (resolution 0.01mg) by Substitution method as per OIML R-111:2004	10 g	0.012 mg
254	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 class standard weights & semi micro balance (resolution 0.01 mg) by Substitution method as per OIML R-111:2004	10 mg	0.0097 mg
255	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 class standard weights & semi micro balance (resolution 0.01mg) by Substitution method as per OIML R-111:2004	100 g	0.022 mg

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256	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 class standard weights & semi micro balance (resolution 0.01mg) by Substitution method as per OIML R-111:2004	100 mg	0.0088 mg
257	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 class standard weights & semi micro balance (resolution 0.01mg) by Substitution method as per OIML R-111:2004	2 g	0.010 mg
258	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 class standard weights & semi micro balance (resolution 0.01mg) by Substitution method as per OIML R-111:2004	2 mg	0.0087 mg
259	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 class standard weights & semi micro balance (resolution 0.01mg) by Substitution method as per OIML R-111:2004	20 g	0.014 mg
260	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 class standard weights & semi micro balance (resolution 0.01mg) by Substitution method as per OIML R-111:2004	20 mg	0.009 mg

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261	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 class standard weights & semi micro balance (resolution 0.01mg) by Substitution method as per OIML R-111:2004	200 g	0.044 mg
262	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 class standard weights & semi micro balance (resolution 0.01mg) by Substitution method as per OIML R-111:2004	200 mg	0.01 mg
263	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 class standard weights & semi micro balance (resolution 0.01mg) by Substitution method as per OIML R-111:2004	5 g	0.011 mg
264	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 class standard weights & semi micro balance (resolution: 0.01 mg) by Substitution method as per OIML R-111:2004	5 mg	0.0096 mg
265	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 class standard weights & semi micro balance (resolution 0.01mg) by Substitution method as per OIML R-111:2004	50 g	0.017 mg

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266	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 class standard weights & semi micro balance (resolution 0.01mg) by Substitution method as per OIML R-111:2004	50 mg	0.0096 mg
267	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 class standard weights & semi micro balance (resolution 0.01mg) by Substitution method as per OIML R-111:2004	500 mg	0.010 mg
268	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using F1 Class standard Weight & Digital Weighing Balance (resolution 0.001g) by Substitution method as per OIML R-111:2004	1 kg	2.3 mg
269	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E1 class standard weights & semi micro balance (resolution 0.01mg) by Substitution method as per OIML R-111:2004	1 mg	0.009 mg
270	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using F1 Class standard Weight & Digital Weighing Balance (resolution 0.01g) by Substitution method as per OIML R-111:2004	2 kg	9 mg

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271	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using F1 Class standard Weight & Digital Weighing Balance (resolution 0.01g) by Substitution method as per OIML R-111:2004	5 kg	13 mg
272	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using F1 Class standard Weight & Digital Weighing Balance (resolution 0.001g) by Substitution method as per OIML R-111:2004	500 g	1.5 mg
273	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using F1 Class standard Weight & Digital Weighing Balance (resolution 0.1g) by substitution method as per OIML R-111:2004	10 kg	84 mg
274	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using F1 Class standard Weight & Digital Weighing Balance (resolution 0.1g) by Substitution method as per OIML R-111:2004	20 kg	88 mg
275	THERMAL-SPECIFIC HEAT & HUMIDITY	Digital & Analog ThermoHygrometer, RH Sensors / Transmitters with controller/ Indicator/ Recorder/ Data Logger @ 25 °C	Using RH &Temp sensor with indicator& humidity chamber by comparison method	10 %Rh to 95 %Rh	1.09 %Rh

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276	THERMAL-SPECIFIC HEAT & HUMIDITY	Digital & Analog ThermoHygrometer, RH Sensors / Transmitters with controller/Indicator/Recorder/Data Logger @ 50% Rh	Using RH &Temp sensor with indicator& humidity chamber by comparison method	10 °C to 50 °C	0.46 °C
277	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator of Environment Chamber / Humidity Chamber/Humidity Source (Humidity Calibrator / Generator Chamber) @ 25 °C	Using RH & Temp sensor with indicator by comparison method	10 %Rh to 95 %Rh	1.07 %Rh
278	THERMAL-TEMPERATURE	Glass Thermometer	Using PRT With super DAQ and liquid Temperature Bath by Comparison Method	(-) 80 °C to 50 °C	0.13 °C
279	THERMAL-TEMPERATURE	Glass Thermometer	Using PRT With super DAQ and liquid Temperature Bath by Comparison Method	50 °C to 250 °C	0.13 °C
280	THERMAL-TEMPERATURE	Indicator with sensor of Autoclave (For Non-Medical Purpose Only - Single Position calibration)	Using PRT With super DAQ by Comparison Method	120 °C to 138 °C	0.34 °C
281	THERMAL-TEMPERATURE	Indicator with sensor of Blackbody Source/ IR Thermal Sources (Single Position) @ emissivity 0.95	Using Infrared Pyrometer by comparison method	(-) 15 °C to 50 °C	1.79 °C

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282	THERMAL-TEMPERATURE	Indicator with sensor of Blackbody Source/ IR Thermal Sources (Single Position) @ emissivity 0.95	Using Infrared Pyrometer by comparison method	50 °C to 500 °C	2.1 °C
283	THERMAL-TEMPERATURE	Indicator with sensor of Incubator, BOD Incubator (For Non Medical Purpose Only) (Single Position calibration)	Using PRT With super DAQ by Comparison Method	20 °C to 60 °C	0.34 °C
284	THERMAL-TEMPERATURE	IR Thermometer/IR Gun/RadiationPyrometer/ IRDetector/ ThermalImagers/Laserpointed/IRPyrometer @emmistivity 0.95	Using Infrared Pyrometer & Black Body (Emissivity 0.95) Furnace by Comparison method	(-) 15 °C to 50 °C	1.42 °C
285	THERMAL-TEMPERATURE	IR Thermometer/IR Gun/RadiationPyrometer/ IRDetector/ ThermalImagers/Laserpointed/IRPyrometer @emmistivity 0.95	Using Infrared Pyrometer & Black Body (Emissivity 0.95) Furnace by comparison method	50 °C to 500 °C	1.82 °C
286	THERMAL-TEMPERATURE	Temperature Indicator With sensor of muffle furnance, Dry Block Furnaces	Using PRT With super DAQ by Comparison Method (Single Position calibration)	250 °C to 650 °C	0.15 °C

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287	THERMAL-TEMPERATURE	Temperature Indicators With sensor of (Freezers,Oven, Environment Chamber, Incubator, BOD Incubator, Liquid Bath/ Dry Block Furnaces) (Stability&Uniformity)	Using PRT With super DAQ , by Comparison Method (Single Position calibration)	50 °C to 250 °C	0.15 °C
288	THERMAL-TEMPERATURE	Temperature Indicators With sensor of (Freezers, Oven, Environment Chamber, Incubator, BOD Incubator, Liquid Bath/ Dry Block Furnaces, Metrology Well)	Using PRT With super DAQ by Comparison Method (Single Position calibration)	(-) 80 °C to 50 °C	0.15 °C
289	THERMAL-TEMPERATURE	Temperature Transmitter / RTD's/ Thermocouples /Temperature switch	Using PRT With super DAQ, Super DAQ and liquid Temperature Bath by Comparison Method	50 °C to 250 °C	0.32 °C
290	THERMAL-TEMPERATURE	Temperature Transmitter /RTD's/ Thermocouples /Temperature switch	Using PRT With super DAQ, Super DAQ and liquid Temperature Bath by Comparison Method	(-) 80 °C to 50 °C	0.32 °C
291	THERMAL-TEMPERATURE	Temperature Transmitter /RTD's/ Thermocouples /Temperature switch	Using PRT With super DAQ , Super DAQ and dry block calibrator, by Comparison Method	250 °C to 650 °C	0.35 °C

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292	THERMAL-TEMPERATURE	Temperature Transmitter RTD's Thermocouples with (Controller/ Indicator/Data Logger/Recorder), Temperature Gauge, &Digital Thermometer, Temperature switch	Using PRT With super DAQ and liquid Temperature Bath by Comparison Method	250 °C to 650 °C	0.15 °C
293	THERMAL-TEMPERATURE	Temperature Transmitter RTD's/ Thermocouples with (Controller/ Indicator/Data Logger/Recorder), Temperature Gauge, & Digital Thermometer, Temperature switch	Using PRT With super DAQ and liquid Temperature Bath by Comparison Method	(-) 80 °C to 50 °C	0.12 °C
294	THERMAL-TEMPERATURE	Temperature Transmitter RTD's/ Thermocouples with (Controller/ Indicator/Data Logger/Recorder), Temperature Gauge, & Digital Thermometer, Temperature switch)	Using PRT With super DAQ and liquid Temperature Bath by Comparison Method	50 °C to 250 °C	0.13 °C

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295	THERMAL-TEMPERATURE	Temperature Transmitter, Thermocouples with (Controller /Indicator/Data Logger/ Recorder), Temperature Gauge, Digital Thermometer, temperature switch	Using S Type Thermocouple with Suoer DAQ and dry block calibrator by Comparison Method	650 °C to 1200 °C	1.43 °C
296	THERMAL-TEMPERATURE	Temperature Transmitter/ Thermocouples /Temperature switch	Using S Type Thermocouple with Super DAQ and dry block calibrator by Comparison Method	650 °C to 1200 °C	1.55 °C
297	THERMAL-TEMPERATURE	TemperatureIndicatorWith sensor of Thermal Sources (Dry Block Furnaces, Metrology Well, Chambers, Dry Block calibrators, Muffle Furnace)	Using Type-S Thermocouple S with Suoer DAQ By comparison method, (Singl e position calibration)	600 to 1200	1.09
298	THERMAL-TEMPERATURE	Thermal Sources of (Furnaces / Spatial Thermal Mapping (Multi-locations, Multiple Sensors)	Using Multiple N type thermocouple with Data Logger by comparison method (Multi-Position Calibration) - Minimum 9 sensors	500 °C to 1200 °C	7.14 °C

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299	THERMAL-TEMPERATURE	Thermal Sources of (Furnaces / Spatial Thermal Mapping (Multi-locations, Multiple Sensors, Temperature Uniformity Survey (TUS), Thermal Mapping)	Using Multiple N type thermocouple with Data Logger by comparison method (Multi-PositionCalibration) - 9 Point sensors	250 °C to 500 °C	5.03 °C
300	THERMAL-TEMPERATURE	Thermal Sources of (Oven, Environmental Chambers / Furnaces / Heating Chambers / Incubators & BOD Incubators, Cold Room)	Using Multiple RTD Sensors with DataLogger by comparison method (Multi-Position Calibration) - Minimum 9 sensors	(-) 80 °C to 50 °C	2.0 °C
301	THERMAL-TEMPERATURE	Thermal Sources of (Oven, Environmental Chambers / Furnaces / Heating Chambers / Incubators & BOD Incubators, Cold Room)	Using Multiple RTD Sensors with Data Logger by comparison method (Multi-Position Calibration) - Minimum 9 sensors	50 °C to 250 °C	2.50 °C

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital multimeter by Direct method	100 mA to 10 A	0.2 % to 0.3 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital multimeter by Direct method	30 µA to 100 mA	0.3 % to 0.2 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Current @ 50 Hz	Using 6½ Digit Multimeter and Current Transformer (2000/5A) by Direct Method	10 A to 2000 A	0.5 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High voltage	Using HV Probe with Digital Multimeter by Direct Method	1 kV to 25 kV	5.4 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Resistance @1 kHz	Using LCR meter by direct method	1 ohm to 10 kohm	0.16 % to 0.11 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using LCR meter by direct method	10 pF to 1 µF	0.32 %

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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 100 Hz	Using LCR meter by direct method	10 µF to 10 mF	0.4 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Energy - 3 Phase 4 wire (10 V to 440 V) (1A to 10A), Power Factor (0.1 to 1), (Lead/Lag)	Using Three Phase Power Energy Logger / Calibrator by Comparison method	0.3 kWh to 6 kWh	1.39 % to 1.43 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Energy - Single Phase, 2 wire (10 V to 440 V) (1 A to 10 A), Power Factor (0.1 to 1), (Lead/ Lag)	Using Three Phase Power Energy logger/ Calibrator by Comparison method	0.3 kWh to 6 kWh	1.39 % to 1.43 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Harmonic, Total Harmonic Distortion (THD) @ 50 Hz	Using 3 Phase energy logger with Source by Direct / Comparison Method	30 V to 240 V (1 % to 10 %)	0.7 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @ 100 Hz	Using LCR meter by direct method	0.1 mH to 10 H	0.24 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Product Calibrator with current Coil by Direct method	20 A to 1000 A	0.4 % to 1.5 %

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13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Product Calibrator by Direct method	3 mA to 20 A	0.12 % to 0.4 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Product Calibrator by Direct method	30 µA to 3 mA	0.55 % to 0.12 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power (Active) 1 V to 1000V, 1 mA to 20A, UPF @ 50 Hz, 1 lead /Lag	Using Multi product Calibrator & Energy logger by Direct method	1 W to 12000 W	0.30 % to 0.09 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (@ 50 Hz)	Using Multi Product Calibrator by Direct method	10 mV to 100 V	0.35 % to 0.04 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (@ 50 Hz)	Using Multi Product Calibrator by Direct method	100 V to 1000 V	0.04 % to 0.06 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50 HZ)	Using Multi Product Calibrator by Direct method	1 mV to 10 mV	2.5 % to 0.35 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi Product Calibrator by Direct method	0.5 nF to 10 nF	2.9 % to 0.58 %

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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 100 Hz	Using Multi Product Calibrator by Direct method	30 nF to 100 µF	0.5 % to 1.4 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using LCR meter by direct method	100 µH to 10 H	2.7 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor (Lead/Lag) 240V/ 5A @ 50 Hz	Using Multi product Calibrator & Energy logger by Direct method	0.1 PF to 1 PF	0.054 PF
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital multimeter by Direct method	10 µA to 100 mA	0.7 % to 0.3 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital multimeter by Direct method	100 mA to 10 A	0.3 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Current	Using 6½ Digit Multimeter and Current Shunt by VI Method	10 A to 100 A	0.75 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Current	Using 6½ Digit Multimeter and Current shunt by VI Method	100 A to 150 A	1.2 %

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27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV probe with DMM by direct method	1 kV to 35 kV	4.5 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital multimeter by Direct method	1 mV to 100 mV	0.4 % to 0.01 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital multimeter by Direct method	10 V to 1000 V	0.012 % to 0.007 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital multimeter by Direct method	100 mV to 10 V	0.01 % to 0.012 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using Insulation Tester by direct method	1 Mohm to 1 Tohm	2.5 % to 2.9 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digital multimeter by Direct method	1 Ohm to 1 Mohm	0.36 % to 0.013 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digital multimeter by Direct method	100 Mohm to 1000 Mohm	0.96 % to 1.8 %

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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 wire	Using micro ohm meter by direct method	1 mohm to 100 mohm	0.2 % to 0.05 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 wire	Using microohm meter by direct method	10 µohm to 1 mohm	0.73 % to 0.32 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using micro ohm meter by direct method	100 mohm to 1 ohm	0.05 % to 0.09 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct method	1 µA to 10 µA	2.50 % to 0.3 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct method	1 mA to 20 A	2.5 % to 0.4 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct method	10 µA to 1 mA	0.3 % to 2.5 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator with Current Coil by Direct method	20 A to 1000 A	0.4 % to 0.13 %

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41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (Active power) 10 V to 1000V, 0.1 A to 20A	Using Multiproduct calibrator by direct method	100 W to 20000 W	0.97 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct method	1 mV to 330 mV	0.4 % to 0.015 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct method	330 mV to 1000 V	0.015 % to 0.01 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Multi Product Calibrator by Direct method	1 Ohm to 30 Ohm	0.5 % to 0.07 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Multi Product Calibrator by Direct method	30 kohm to 30 Mohm	0.13 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Multi Product Calibrator by Direct method	30 Mohm to 1000 Mohm	0.13 % to 0.75 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Multi Product Calibrator by Direct method	30 Ohm to 30 kohm	0.07 % to 0.13 %

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48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire) @ 1000 V DC	Using High Resistance Box by Direct method	1 Tohm	3.5 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire) @ 1000 V DC	Using High Resistance Box by Direct method	10 Gohm	3.5 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire) @ 1000 V DC	Using High Resistance Box by Direct method	10 Mohm	3.5 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire) @ 1000 V DC	Using High Resistance Box by Direct method	100 Gohm	3.5 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire) @ 1000 V DC	Using High Resistance Box by Direct method	100 Mohm	3.7 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire) @ 1000 V DC	Using High Resistance Box by Direct method	200 Gohm	3.5 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire) @ 5000 V DC	Using High Resistance Box by Direct method	1 Tohm	3.5 %

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55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire) @ 5000 V DC	Using High Resistance Box by Direct method	10 Gohm	3.5 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire) @ 5000 V DC	Using High Resistance Box by Direct method	10 Mohm	3.5 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire) @ 5000 V DC	Using High Resistance Box by Direct method	100 Gohm	3.5 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire) @ 5000 V DC	Using High Resistance Box by Direct method	100 Mohm	3.5 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire) @ 5000 V DC	Using High Resistance Box by Direct method	200 Gohm	3.74 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Low Resistance Box by Direct method	10 mohm	0.38 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Low Resistance Box by Direct method	10 Ohm	0.2 %

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62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Low Resistance Box by Direct method	100 mohm	0.2 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 wire	Using Low Resistance Box by Direct method	1000 mohm	0.2 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Low Resistance Box by Direct method	1 mohm	0.55 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Low Resistance Box by Direct method	100 Ohm	0.25 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Low Resistance Box by Direct method	1000 Ohm	0.25 %
67	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	ORP Meter / ORP Indicator	Using Multi product calibrator By Direct Method	(-) 1500 mV to 1500 mV	0.5 %
68	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude @ 1 kHz Sinewave	Using Function / Arbitrary wave form generator by Direct method	2 mVpp to 20 Vpp	0.45 % to 0.35 %

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69	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude @ 1 kHz Square wave	Using Function / Arbitrary wave form generator by Direct method	2 mVpp to 20 Vpp	0.37 % to 0.35 %
70	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Bandwidth	Using Function / Arbitrary wave form generator by Direct method	50 kHz to 20 MHz	2.5 %
71	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Time Base	Using Function / Arbitrary wave form generator by Direct method	5 ns to 10 s	0.005 % to 0.01 %
72	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	pH Meter (simulation method)	Using Multi product calibrator By Direct Method	0 to 14 pH	0.13 %
73	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	TDS/ Conductivity Meter (Equivalent Resistance: 1 ohm to 2 Mohm)	Using Multiproduct calibrator by simulation method	0.5 µS/cm to 1000 mS/cm	1.72 % to 1.5 %
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B Type Thermocouple	Using Multi Product Calibrator by Direct method	600 °C to 1800 °C	0.77 °C
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E Type Thermocouple	Using Multi Product Calibrator by Direct method	(-) 250 °C to 1000 °C	0.63 °C

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76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Using Multi Product Calibrator by Direct method	(-) 200 °C to 1200 °C	0.40 °C
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Using Multi Product Calibrator by Direct method	(-) 200 °C to 1300 °C	0.53 °C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Using Multi Product Calibrator by Direct method	(-) 200 °C to 1300 °C	0.54 °C
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Using Multi Product Calibrator by Direct method	100 °C to 1700 °C	0.95 °C
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD	Using Multi Product Calibrator by Direct method	(-) 200 °C to 800 °C	0.25 °C
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Using Multi Product Calibrator by Direct method	100 °C to 1750 °C	0.65 °C
82	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Using Multi Product Calibrator by Direct method	(-) 200 °C to 400 °C	0.74 °C

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83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type thermocouple	Using Multi Product Calibrator by Direct method	600 °C to 1800 °C	0.68 °C
84	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E Type thermocouple	Using Multi Product Calibrator by Direct method	(-) 250 °C to 1000 °C	0.60 °C
85	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type thermocouple	Using Multi Product Calibrator by Direct method	(-) 200 °C to 1050 °C	0.74 °C
86	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type thermocouple	Using Multi Product Calibrator by Direct method	(-) 200 °C to 1350 °C	0.47 °C
87	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type thermocouple	Using Multi Product Calibrator by Direct method	(-) 200 °C to 1300 °C	0.47 °C
88	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD	Using Multi Product Calibrator by Direct method	(-) 200 °C to 800 °C	0.3 °C
89	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type thermocouple	Using Multi Product Calibrator by Direct method	0 °C to 1750 °C	0.66 °C

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90	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type thermocouple	Using Multi Product Calibrator by Direct method	(-) 200 °C to 400 °C	0.73 °C
91	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital multimeter by Direct method	10 Hz to 1 MHz	0.096 % to 0.02 %
92	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Calibration standard by Comparison method	0.1 s to 1 s	0.011 s
93	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Calibration standard by Comparison method	1 s to 60 s	0.06 s
94	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Calibration standard by Comparison method	3600 s to 43200 s	2.25 s
95	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Calibration standard by Comparison method	43200 s to 86400 s	2.50 s
96	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Calibration standard by Comparison method	60 s to 3600 s	2.25 s

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97	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Arbitrary Function generator by Direct method	1 MHz to 200 MHz	0.07 % to 0.5 %
98	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct method	10 Hz to 2 MHz	0.5 % to 0.05 %
99	FLUID FLOW-FLOW MEASURING DEVICES	Volume flow rate(liquid flow meter & f low measuring equipments)	Using ultrasonic flow meter (medium water) by comparison method	1 m^3/hr to 1050 m^3/hr	1.2 %
100	MECHANICAL-ACCELERATION AND SPEED	Centrifuge & Bitumen Extractor, Vibration machine, Abrasion testing machine, Washing machine, Tachometer calibrator, Laundrometer (Non-contact type)	Using Standard digital tachometer by Direct method	10 rpm to 100 rpm	0.46 rpm
101	MECHANICAL-ACCELERATION AND SPEED	Centrifuge & Bitumen Extractor, Vibration machine, Abrasion testing machine, Washing machine, Tachometer calibrator, Laundrometer (Non-contact type)	Using Standard digital tachometer by Direct method	10000 rpm to 30000 rpm	6.01 rpm

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102	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Non-contact type)	Using Standard digital tachometer & RPM source by Comparison method	10 rpm to 100 rpm	0.46 rpm
103	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Non-contact type)	Using Standard digital tachometer & RPM source by Comparison method	100 rpm to 1000 rpm	0.65 rpm
104	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Non-contact type)	Using Standard digital tachometer & RPM source by Comparison method	1000 rpm to 5000 rpm	2.02 rpm
105	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Non-contact type)	Using Standard digital tachometer & RPM source by Comparison method	10000 rpm to 30000 rpm	6.01 rpm
106	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Non-contact type)	Using Standard digital tachometer & RPM source by Comparison method	30000 rpm to 50000 rpm	6.0 rpm
107	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Non-contact type)	Using Standard digital tachometer & RPM source by Comparison method	5000 rpm to 10000 rpm	2.02 rpm
108	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Non-contact type)	Using Standard digital tachometer & RPM source by Comparison method	50000 rpm to 70000 rpm	7.01 rpm
109	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Non-contact type)	Using Standard digital tachometer & RPM source by Comparison method	70000 rpm to 90000 rpm	9.2 rpm

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110	MECHANICAL-ACCELERATION AND SPEED	Indicator of Centrifuge & Bitumen Extractor, Vibration machine, Abrasion testing machine, Washing machine, Tachometer calibrator, Laundrometer (Non-contact type)	Using Standard digital tachometer by Direct method	1000 rpm to 5000 rpm	2.02 rpm
111	MECHANICAL-ACCELERATION AND SPEED	Indicator of Centrifuge & Bitumen Extractor, Vibration machine, Abrasion testing machine, Washing machine, Tachometer calibrator, Laundrometer (Non-contact type)	Using Standard digital tachometer by Direct method	30000 rpm to 50000 rpm	6.0 rpm
112	MECHANICAL-ACCELERATION AND SPEED	Indicator of Centrifuge & Bitumen Extractor, Vibration machine, Abrasion testing machine, Washing machine, Tachometer calibrator, Laundrometer (Non-contact type)	Using Standard digital tachometer by Direct method	5000 rpm to 10000 rpm	2.02 rpm

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113	MECHANICAL-ACCELERATION AND SPEED	Indicator of Centrifuge & Bitumen Extractor, Vibration machine, Abrasion testing machine, Washing machine, Tachometer calibrator, Laundrometer (Non-contact type)	Using Standard digital tachometer by Direct method	50000 rpm to 70000 rpm	7.01 rpm
114	MECHANICAL-ACCELERATION AND SPEED	Indicator of Centrifuge & Bitumen Extractor, Vibration machine, Abrasion testing machine, Washing machine, Tachometer calibrator, Laundrometer (Non-contact type)	Using Standard digital tachometer by Direct method	70000 rpm to 90000 rpm	9.2 rpm
115	MECHANICAL-ACCELERATION AND SPEED	Indicator of RPM Indicating device of Centrifuge, Bitumen extractor, Vibrating Machine, Abrasion Tester (Non-contact type)	Using Standard digital tachometer by direct method	10 rpm to 100 rpm	0.46 rpm
116	MECHANICAL-ACCELERATION AND SPEED	Indicator of RPM Indicating device of Centrifuge, Bitumen extractor, Vibrating Machine, Abrasion Tester (Non-contact type)	Using Standard digital tachometer by direct method	100 rpm to 1000 rpm	0.65 rpm

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117	MECHANICAL-ACCELERATION AND SPEED	Indicator of RPM Indicating device of Centrifuge, Bitumen extractor, Vibrating Machine, Abrasion Tester (Non-contact type)	Using Standard digital tachometer by direct method	10000 rpm to 30000 rpm	6.01 rpm
118	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact type)	Using Standard digital tachometer & RPM source by Comparison method	10 rpm to 100 rpm	0.45 rpm
119	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact type)	Using Standard digital tachometer & RPM source by Comparison method	100 rpm to 1000 rpm	0.82 rpm
120	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact type)	Using Standard digital tachometer & RPM source by Comparison method	1000 rpm to 3000 rpm	2.12 rpm
121	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact type)	Using Standard digital tachometer & RPM source by Comparison method	3000 rpm to 5000 rpm	2.2 rpm
122	MECHANICAL-ACCELERATION AND SPEED	Tachometer calibrator, Trademill (Contact type)	Using Standard digital tachometer by Direct method	10 rpm to 100 rpm	0.44 rpm
123	MECHANICAL-ACCELERATION AND SPEED	Tachometer calibrator, Trademill (Contact type)	Using Standard digital tachometer by Direct method	10 rpm to 100 rpm	0.45 rpm
124	MECHANICAL-ACCELERATION AND SPEED	Tachometer calibrator, Trademill (Contact type)	Using Standard digital tachometer by Direct method	100 rpm to 1000 rpm	0.82 rpm
125	MECHANICAL-ACCELERATION AND SPEED	Tachometer calibrator, Trademill (Contact type)	Using Standard digital tachometer by Direct method	1000 rpm to 3000 rpm	2.12 rpm

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126	MECHANICAL-ACCELERATION AND SPEED	Tachometer calibrator, Trademill (Contact type)	Using Standard digital tachometer & RPM source by Comparison method	3000 rpm to 5000 rpm	2.2 rpm
127	MECHANICAL-ACCELERATION AND SPEED	Tachometer calibrator, Trademill (Contact type)	Using Standard digital tachometer by Direct method	3000 rpm to 5000 rpm	2.2 rpm
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (coaxility)	Using Test mandrel & Dial test indicator by Comparison method	Up to 300 mm	8.0 µm
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (parallelism)	Using Test mandrel & Dial test indicator by Comparison method	Up to 300 mm	8.0 µm
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight edge	Using height gauge & dial indicator by comparison method	Upto 600 mm	4.24 µm
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Precision Spirit level by Comparison method	3000 mm to 3000 mm	{1.87*Sqrt(L+W)/20 }µm/m
132	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope (Magnification)	Using Glass Scale, Gauge Block by Comparison method	1 X to 100 X	0.9 %

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133	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector X/Y Axis Movement (L.C: 0.001 mm)	Using Glass scale /Slip Gauge Set '0' Grade by Comparison method	0 to 200 mm	2.0 µm
134	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector-Magnification	Using Slip Gauge Set '0' Grade & Digital Caliper by Comparison Method	10 X to 100 X	0.06 %
135	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Tester (Portable) - Ra, Rz (L.C.: 0.001 µm)	Using Roughness Specimen Set by comparison method	0 to 360 µm	6.8 %
136	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal length measuring machine (L.C: 0.0001 mm)	Using Slip Gauge Set '0' Grade by Comparison method	0 to 100 mm	0.7 µm
137	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Video Measuring Machine (Angular) (L.C: 1 arc second)	Using Angle Gauge Set by Comparison method	0° to 360°	10 s of arc
138	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Video Measuring Machine - Linear (L.C: 0.0001 mm)	Using Glass scale /Slip Gauge Set '0' Grade by Comparison method	0 to 200 mm	1.3 µm
139	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Reference Blocks as per IS 1586 (Part 2): 2018 by Indirect Method	HRBW	0.9 HRBW
140	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Reference Blocks as per IS 1586 (Part 2): 2018 by Indirect Method	HRC	0.9 HRC

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141	MECHANICAL-PRESSURE INDICATING DEVICES	Barometer / Barometric Pressure Gauge/Transmitter with Indicator, Transducers, Pressure Switch	Using digital barometer & pump,Digital Precision Multimeter by comparison method	300 mbar to 1050 mbar	1.52 mbar
142	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge (Analog / Digital),Transmitter with Indicator, Transducers, Pressure Switch	Using Digital pressure gauge, pressure pump & 6½ Digital multimeter based on DKD-R 6-1	0 to 70 bar	0.12 bar
143	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge (Analog / Digital),Transmitter with Indicator, Transducers, Pressure Switch	Using Digital pressure gauge, pressure pump & 6½ Digital multimeter based on DKD-R 6-1	0 to 700 bar	0.20 bar
144	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge (Analog / Digital) , Transmitter with Indicator ,Transducers ,Pressure Switch	Using Digital pressure gauge, pressure pump & 6½ Digital multimeter based on DKD-R 6-1 guidelines	0 bar to 40 bar	0.068 bar
145	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure -Pneumatic (Magnehelic Gauge, Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Transmitter, Pressure Switch, Manometer)	Using Digital Pressure Calibrator with Precision Low Pressure pump & 6½ Digital multimeter by Comparison method	(-) 195 mbar to 195 mbar	0.23 mbar

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146	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge (Analog / Digital) ,Transmitter with Indicator, Transducers, Vacuum Switch	Using Digital Pressure Gauge, pressure pump & 6½ Digital multimeter based on DKD R6-1	(-) 0.9 bar to 0 bar	0.006 bar
147	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal testing Machine ,Compression testing machine ,Spring testing machine, Load testing machine, Fluxural testing machine Compression mode	Using Force Proving Instrument as per IS 1828(Part 1): 2022 / ISO 7500 - 1: 2018	10 kN to 100 kN	0.67 %
148	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal testing Machine ,Compression testing machine ,Spring testing machine, Load testing machine, Fluxural testing machine Compression mode	Using Force Proving Instrument as per IS 1828(Part 1): 2022 / ISO 7500 - 1: 2018	100 kN to 1000 kN	0.69 %
149	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal testing Machine ,Compression testing machine ,Spring testing machine, Load testing machine, Fluxural testing machine Compression mode	Using Force Proving Instrument as per IS 1828(Part 1): 2022 / ISO 7500 - 1: 2018	200 kN to 2000 kN	0.57 %

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150	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal testing Machine ,Compression testing machine, Spring testing machine, Load testing machine, Fluxural testing machine Compression mode	Using Load cell with indicator as per IS 1828 (Part 1): 2022 / ISO 7500 - 1: 2018	50 N to 10 kN	0.87 %
151	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal testing Machine ,Tensile testing machine Spring testing machine, Load testing machine Tension Mode	Using Using Load cell with indicator as per IS 1828 (Part 1): 2022 / ISO 7500 - 1: 2018 as per IS 1828 (Part 1): 2022 / ISO 7500 - 1: 2018	50 N to 10 kN	0.69 %
152	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification/ Calibration of Displacement Measuring System and Device Used in Material Testing Machine (Encoder/ Actuator) - Class B	Using Digital Height Gauge As per ASTM E 2309 by Comparison Method	0 to 600 mm	90 µm
153	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification/Calibration of Speed of Material Testing Machine	Using Digital Height Gauge, Lever Dial and Stop Watch as per ASTM E 2658 by Comparison Method	0 to 200 mm/min.	1.5 mm/min.
154	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class - I & coarser) (Resolution= 0.0001 mg or coarser)	Using E1 class standard weights as per OIML R76-1	0 to 2.2 g	0.006 mg

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155	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class I & coarser) (Readability 0.001 mg & Coarser)	Using E1 class standard weights as per OIML R76-1	0 to 22 g	0.011 mg
156	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class I & coarser) (Readability=0.01 mg & Coarser)	Using E1 class standard weights as per OIML R76-1	0 g to 220 g	0.08 mg
157	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class II & coarser) (Readability=0.1 g & Coarser)	Using E1 & F1 class standard weights as per OIML R76-1	0 to 6 kg	0.1 g
158	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class III & coarser) (Readability=0.5 g & Coarser)	Using E1 & F1 class standard weights as per OIML R76-1	0 to 30 kg	0.5 g
159	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class III & coarser) (Readability=1 g & Coarser)	Using F1 class standard weights as per OIML R76-1	0 to 100 kg	1 g
160	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance 0 to 1Kg, (Class II & coarser) (Readability=0.01 g & Coarser)	Using E1 & F1 class standard weights as per OIML R76-1	0 to 1 kg	0.01 g
161	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 class standard weights & semi micro balance (resolution 0.01mg) by Substitution method as per OIML R-111:2004	1 g	0.010 mg

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162	THERMAL-SPECIFIC HEAT & HUMIDITY	Digital & Analog ThermoHygrometer, RH Sensors / Transmitters with controller/ Indicator/ Recorder/ Data Logger @ 25 °C	Using RH &Temp sensor with indicator& humidity chamber by comparison method	10 %Rh to 95 %Rh	1.09 %Rh
163	THERMAL-SPECIFIC HEAT & HUMIDITY	Digital & Analog ThermoHygrometer, RH Sensors / Transmitters with controller/Indicator/Recorder/Data Logger @ 50% Rh	Using RH &Temp sensor with indicator& humidity chamber by comparison method	10 °C to 50 °C	0.46 °C
164	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator of Environment Chamber / Humidity Chamber/Humidity Source (Humidity Calibrator / Generator Chamber) @ 25 °C	Using RH & Temp sensor with indicator by comparison method	10 %Rh to 95 %Rh	1.07 %Rh
165	THERMAL-TEMPERATURE	Glass Thermometer	Using PRT With super DAQ and liquid Temperature Bath by Comparison Method	(-) 80 °C to 50 °C	0.13 °C
166	THERMAL-TEMPERATURE	Glass Thermometer	Using PRT With super DAQ and liquid Temperature Bath by Comparison Method	50 °C to 250 °C	0.13 °C
167	THERMAL-TEMPERATURE	Indicator with sensor of Autoclave (For Non-Medical Purpose Only - Single Position calibration)	Using PRT With super DAQ by Comparison Method	120 °C to 138 °C	0.34 °C

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168	THERMAL-TEMPERATURE	Indicator with sensor of Blackbody Source/ IR Thermal Sources (Single Position) @ emissivity 0.95	Using Infrared Pyrometer by comparison method	(-) 15 °C to 50 °C	1.79 °C
169	THERMAL-TEMPERATURE	Indicator with sensor of Blackbody Source/ IR Thermal Sources (Single Position) @ emissivity 0.95	Using Infrared Pyrometer by comparison method	50 °C to 500 °C	2.1 °C
170	THERMAL-TEMPERATURE	Indicator with sensor of Incubator, BOD Incubator (For Non Medical Purpose Only) (Single Position calibration)	Using PRT With super DAQ by Comparison Method	20 °C to 60 °C	0.34 °C
171	THERMAL-TEMPERATURE	IR Thermometer/IR Gun/RadiationPyrometer/ IRDetector/ ThermalImagers/Laserpointed/IRPyrometer @emmistivity 0.95	Using Infrared Pyrometer & Black Body (Emissivity 0.95) Furnace by Comparison method	(-) 15 °C to 50 °C	1.42 °C
172	THERMAL-TEMPERATURE	IR Thermometer/IR Gun/RadiationPyrometer/ IRDetector/ ThermalImagers/Laserpointed/IRPyrometer @emmistivity 0.95	Using Infrared Pyrometer & Black Body (Emissivity 0.95) Furnace by comparison method	50 °C to 500 °C	1.82 °C
173	THERMAL-TEMPERATURE	Temperature Indicator With sensor of muffle furnance, Dry Block Furnaces	Using PRT With super DAQ by Comparison Method (Single Position calibration)	250 °C to 650 °C	0.15 °C

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174	THERMAL-TEMPERATURE	Temperature Indicators With sensor of (Freezers,Oven, Environment Chamber, Incubator, BOD Incubator, Liquid Bath/ Dry Block Furnaces) (Stability&Uniformity)	Using PRT With super DAQ , by Comparison Method (Single Position calibration)	50 °C to 250 °C	0.15 °C
175	THERMAL-TEMPERATURE	Temperature Indicators With sensor of (Freezers, Oven, Environment Chamber, Incubator, BOD Incubator, Liquid Bath/ Dry Block Furnaces, Metrology Well)	Using PRT With super DAQ by Comparison Method (Single Position calibration)	(-) 80 °C to 50 °C	0.15 °C
176	THERMAL-TEMPERATURE	Temperature Transmitter / RTD's/ Thermocouples /Temperature switch	Using PRT With super DAQ, Super DAQ and liquid Temperature Bath by Comparison Method	50 °C to 250 °C	0.32 °C
177	THERMAL-TEMPERATURE	Temperature Transmitter /RTD's/ Thermocouples /Temperature switch	Using PRT With super DAQ, Super DAQ and liquid Temperature Bath by Comparison Method	(-) 80 °C to 50 °C	0.32 °C
178	THERMAL-TEMPERATURE	Temperature Transmitter /RTD's/ Thermocouples /Temperature switch	Using PRT With super DAQ , Super DAQ and dry block calibrator, by Comparison Method	250 °C to 650 °C	0.35 °C

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179	THERMAL-TEMPERATURE	Temperature Transmitter RTD's Thermocouples with (Controller/ Indicator/Data Logger/Recorder), Temperature Gauge, &Digital Thermometer, Temperature switch	Using PRT With super DAQ and liquid Temperature Bath by Comparison Method	250 °C to 650 °C	0.15 °C
180	THERMAL-TEMPERATURE	Temperature Transmitter RTD's/ Thermocouples with (Controller/ Indicator/Data Logger/Recorder), Temperature Gauge, & Digital Thermometer, Temperature switch	Using PRT With super DAQ and liquid Temperature Bath by Comparison Method	(-) 80 °C to 50 °C	0.12 °C
181	THERMAL-TEMPERATURE	Temperature Transmitter RTD's/ Thermocouples with (Controller/ Indicator/Data Logger/Recorder), Temperature Gauge, & Digital Thermometer, Temperature switch)	Using PRT With super DAQ and liquid Temperature Bath by Comparison Method	50 °C to 250 °C	0.13 °C

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182	THERMAL-TEMPERATURE	Temperature Transmitter, Thermocouples with (Controller /Indicator/Data Logger/ Recorder), Temperature Gauge, Digital Thermometer, temperature switch	Using S Type Thermocouple with Suoer DAQ and dry block calibrator by Comparison Method	650 °C to 1200 °C	1.43 °C
183	THERMAL-TEMPERATURE	Temperature Transmitter/ Thermocouples /Temperature switch	Using S Type Thermocouple with Super DAQ and dry block calibrator by Comparison Method	650 °C to 1200 °C	1.55 °C
184	THERMAL-TEMPERATURE	TemperatureIndicatorWith sensor of Thermal Sources (Dry Block Furnaces, Metrology Well, Chambers, Dry Block calibrators, Muffle Furnace)	Using Type-S Thermocouple S with Suoer DAQ By comparison method, (Singl e position calibration)	600 to 1200	1.09
185	THERMAL-TEMPERATURE	Thermal Sources of (Furnaces / Spatial Thermal Mapping (Multi-locations, Multiple Sensors)	Using Multiple N type thermocouple with Data Logger by comparison method (Multi-Position Calibration) - Minimum 9 sensors	500 °C to 1200 °C	7.14 °C

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186	THERMAL-TEMPERATURE	Thermal Sources of (Furnaces / Spatial Thermal Mapping (Multi-locations, Multiple Sensors, Temperature Uniformity Survey (TUS), Thermal Mapping)	Using Multiple N type thermocouple with Data Logger by comparison method (Multi-PositionCalibration) - 9 Point sensors	250 °C to 500 °C	5.03 °C
187	THERMAL-TEMPERATURE	Thermal Sources of (Oven, Environmental Chambers / Furnaces / Heating Chambers / Incubators & BOD Incubators, Cold Room)	Using Multiple RTD Sensors with DataLogger by comparison method (Multi-Position Calibration) - Minimum 9 sensors	(-) 80 °C to 50 °C	2.0 °C
188	THERMAL-TEMPERATURE	Thermal Sources of (Oven, Environmental Chambers / Furnaces / Heating Chambers / Incubators & BOD Incubators, Cold Room)	Using Multiple RTD Sensors with Data Logger by comparison method (Multi-Position Calibration) - Minimum 9 sensors	50 °C to 250 °C	2.50 °C

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