National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

BELZ CALIBRATION LABORTAORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.)

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

5L/123 N.I.T, FARIDABAD, HARYANA, INDIA

in the field of

CALIBRATION

Certificate Number: CC-2733

Issue Date: 28/06/2021 **Valid Until:** 27/06/2023

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Identity : BELZ Instruments Pvt. Ltd.

Signed for and on behalf of NABL

N. Venkateswaran
Chief Executive Officer

National Accreditation Board for Testing and Calibration Laboratories

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Laboratory Name :	BELZ CALIBRATION LABORTAORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123 N.I.T, 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/60 Hz)	Using 6½ digital multimeter by direct method	100 mA to 10 A	0.2 % to 0.25 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz/60 Hz)	Using 6½ digital multimeter by direct method	50 µA to 100 mA	0.3 % to 0.2 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Current (50 Hz)	Using 6½ DMM & Current Transformer by direct method	10 A to 1000 A	1.3 % to 0.65 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage (50 kHz)	Using HV probe with DMM & AC High voltage source by direct method	1 kV to 28 kV	2.4%

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Resistance (1kHz)	Using LCR Meter by direct method	1 Ohm to 100 kohm	0.23%
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz/60 Hz)	Using 6.5 DMM By Direct Method	10 mV to 10 V	0.53 % to 0.12 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz/60 Hz)	Using 6.5 DMM By Direct Method	10 V to 1000 V	0.12 % to 0.18 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (1 kHz)	Using LCR Meter by direct method	1 nF to 1 µF	0.2%
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (10 kHz)	Using LCR Meter by direct method	1 nF to 1 µF	0.2%

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Frequency	Using 6½ DMM by direct method	10 Hz to 1 MHz	0.06%
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance (1kHz)	Using LCR Meter by direct method	100 µH to 1 H	0.45 % to 0.8 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50HZ/60HZ)	Using Fluke 9100 multifunction calibrator with current coil by direct method	100 µA to 300 mA	0.45 % to 0.13 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50HZ/60HZ)	Using Fluke 9100 multifunction calibrator with current coil by direct method	20 A to 1000 A	0.31 % to 0.90 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50HZ/60HZ)	UUsing Fluke 9100 multifunction calibrator with current coil by direct method	300 mA to 20 A	0.13 % to 0.31 %

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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power (Active Power 1ø) (1 W to 12 kW)	Using Fluke 9100 multifunction calibrator by direct method	0.5 Lag to 0.5 Lead 10 V to 640 V & 1 A to 19 A UPF 240 V 0.1 to 1 A	0.25 % to 0.80 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50HZ/60HZ)	Using Fluke 9100 multifunction calibrator by direct method	10 mV to 300 mV	1.15 % to 0.2 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50HZ/60HZ)	Using Fluke 9100 multifunction calibrator by direct method	100 V to 1000 V	0.08%
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50HZ/60HZ)	Using Fluke 9100 multifunction calibrator by direct method	300 mV to 100 V	0.2 % to 0.08 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1KHz	Using Fluke 9100 multifunction calibrator by direct method	1 nF to 100 µF	7.2 % to 1.5 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6.5 DMM By Direct Method	1 µA to 10 mA	3.0 % to 0.08 %

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21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6.5 DMM By Direct Method	10 mA to 3 A	0.08 % to 0.16 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6.5 DMM By Direct Method	3 A to 10 A	0.16 % to 0.2 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Current	Using 6½ DMM & 900 A / 75 mV Shunt by direct/ comparison method	10 A to 750 A	1.0%
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM & DC high voltage source by direct/comparison method	1 kV to 37 kV	1.7 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6.5 DMM By Direct Method	1 mV to 100 mV	0.5 % to 0.01 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6.5 DMM By Direct/Comparison Method	10 V to 1000 V	0.06 % to 0.02 %

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27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6.5 DMM By Direct Method	100 mV to 10 V	0.01 % to 0.06 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ DMM & Micro Ohm meter by direct method	1 Mohm to 100 Mohm	0.13 % to 0.9 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6.5 DMM & Micro Ohm Meter By Direct Method	10 ohm to 1 Mohm	0.06 % to 0.13 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ DMM & Micro Ohm meter by direct method	100 Mohm to 1 Gohm	0.9 % to 2.36 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using Micro Ohm Meter & Low Resistance Standard By Direct Method	1 ohm to 10 ohm	0.06 % to 0.05 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using Micro Ohm Meter & Low Resistance Standard By Direct Method	100 µohm to 1 ohm	0.6 % to 0.06 %

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33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 9100 multifunction calibrator by direct method	1 µA to 300 mA	1.2 % to 0.03 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 9100 multifunction calibrator with current coil by direct method	20 A to 1000 A	0.12 % to 0.70 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 9100 multifunction calibrator by direct method	300 mA to 20 A	0.03 % to 0.12 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (10 V to 1000 V & 1 A to 19 A)	Using Fluke 9100 multifunction calibrator by direct method	10 W to 19 kW	0.31%
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Fluke 9100 multifunction calibrator by direct method	1 mV to 300 mV	0.55 % to 0.01 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Fluke 9100 multifunction calibrator by direct method	300 mV to 300 V	0.01 % to 0.03 %

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39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Fluke 9100 multifunction calibrator by direct method	300 V to 1000 V	0.03 % to 0.014 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using high resistance box by direct method	1 Gohm	2.5%
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using high resistance box by direct method	1 Tohm	2.5%
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using high resistance box by direct method	10 Gohm	2.5%
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using high resistance box by direct method	100 Gohm	2.5%
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using high resistance box by direct method	2 Gohm	2.5%

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45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using high resistance box by direct method	20 Gohm	2.5%
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using high resistance box by direct method	200 Gohm	2.5%
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using high resistance box by direct method	500 Gohm	2.5%
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using high resistance box by direct method	500 Mohm	2.5%
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using low resistance box (fixed value) by direct method	0.001 ohm	0.13%
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using low resistance box (fixed value) by direct method	0.01 ohm	0.13%

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51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using low resistance box (fixed value) by direct method	0.1 ohm	0.13%
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using low resistance box (fixed value) by direct method	1 ohm	0.13%
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using low resistance box (fixed value) by direct method	100 µohm	0.3%
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using low resistance box (fixed value) by direct method	50 µohm	1.26%
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Fluke 9100 multifunction calibrator by direct method	1 ohm to 4 Mohm	0.36 % to 0.07 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Fluke 9100 multifunction calibrator by direct method	4 Mohm to 40 Mohm	0.07 % to 0.18 %

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57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Fluke 9100 multifunction calibrator by direct method	40 Mohm to 400 Mohm	0.18 % to 0.32 %
58	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Power / Energy (1Ø,3Ø) 50 Hz (63.5W to 3.6kW)	Using power /energy meter accuchek & power source by direct method	UPF to 0.5 Lag/Lead PF to Voltage 240 V/ 63.5 V Current :1A/ 5 A	1.0%
59	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude(Deflection Factor) 1 kHz / 1 MegaOhm	Using Fluke 9100 multifunction calibrator by direct method	5 mV to 120 V	1.0%
60	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Bandwidth	Using Fluke 9100 multifunction calibrator by direct method	1 kHz to 250 MHz	5.0%
61	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Sin/Square (DC)	Using Fluke 9100 multifunction calibrator by direct method	50 kHz to 20 Mhz 50 Ohm 20 mV to 2.5 V	1.0%
62	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Time Base (Marker)	Using Fluke 9100 multifunction calibrator by direct method	10 nsec to 5 sec	0.5%

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63	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Turn Ratio Meter	Using Ratio Calibration Standard By Direct Method	1:11	0.65%
64	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Turn Ratio Meter	Using Ratio Calibration Standard By Direct Method	1:110	0.31%
65	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Turn Ratio Meter	Using Ratio Calibration Standard By Direct Method	1:22	0.43%
66	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Turn Ratio Meter	Using Ratio Calibration Standard By Direct Method	1:220	0.25%
67	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Turn Ratio Meter	Using Ratio Calibration Standard By Direct Method	1:44	0.41%

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68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature source, Indicator/Controller/ Recorder) ('B' type T/C)	Using Fluke Super DAQ direct method.	600 °C to 1700 °C	0.18 °C
69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature source, Indicator/Controller/ Recorder) ('E' type T/C)	Using Fluke Super DAQ direct method.	-100 °C to 600 °C	0.11°C
70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature source, Indicator/Controller/ Recorder) ('J' type T/C)	Using Fluke Super DAQ direct method.	-200 °C to 1200 °C	0.10°C
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature source, Indicator/Controller/ Recorder) ('K' type T/C)	Using Fluke Super DAQ direct method.	50 °C to 1300 °C	0.11°C

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72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature source, Indicator/Controller/ Recorder) ('N' type T/C)	Using Fluke Super DAQ direct method.	-200 °C to 1300 °C	0.11°C
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature source, Indicator/Controller/ Recorder) ('R' type T/C)	Using Fluke Super DAQ direct method.	600 °C to 1700 °C	0.13°C
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature source, Indicator/Controller/ Recorder) ('S' type T/C)	Using Fluke Super DAQ direct method.	50 °C to 1700 °C	0.12°C
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature source, Indicator/Controller/ Recorder) ('T' type T/C)	Using Fluke Super DAQ direct method.	-200 °C to 400 °C	0.09°C

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76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature source, Indicator/Controller/ Recorder) (RTD)	Using Fluke Super DAQ direct method.	-200 °C to 800 °C	0.07°C
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/ Recorder) ('B' Type T/C)	Using Fluke 9100 direct method.	600 °C to 1700 °C	0.18°C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/ Recorder) ('E' Type T/C)	Using Fluke 9100 direct method.	-100 °C to 600 °C	0.11°C
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/ Recorder) ('J' Type T/C)	Using Fluke 9100 direct method.	-200 °C to 1200 °C	0.12°C
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/ Recorder) ('K' Type T/C)	Using Fluke 9100 direct method.	-200 °C to 1300 °C	0.11°C

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81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/ Recorder) ('N' Type T/C)	Using Fluke 9100 direct method.	-200 °C to 1300 °C	0.11°C
82	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/ Recorder) ('R' Type T/C)	Using Fluke 9100 direct method.	0 to 1700 °C	0.15°C
83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/ Recorder) ('S' Type T/C)	Using Fluke 9100 direct method.	0 to 1700 °C	0.12°C
84	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/ Recorder) ('T' Type T/C)	Using Fluke 9100 direct method.	-200 °C to 400 °C	0.10°C
85	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/ Recorder) (RTD)	Using Fluke 9100 direct method.	-200 °C to 800 °C	0.07°C
86	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital /Analog)	Using Digital Timer by direct method	14400 sec (4 hour)	4.3sec

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87	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital /Analog)	Using Digital Timer by direct method	60 sec	0.006sec
88	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital /Analog)	Using Digital Timer by direct method	600 sec	0.027sec
89	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital /Analog)	Using Digital Timer by direct method	7200 sec (2 hour)	2.3sec
90	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital/ Analog)	Using Digital Timer by direct method	1 sec	0.003sec
91	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital/ Analog)	Using Digital Timer by direct method	100 msec	0.003 sec
92	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital/ Analog)	Using Digital Timer by direct method	1800 sec	0.04sec

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93	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital/ Analog)	Using Digital Timer by direct method	3600 sec (1 hour)	0.07sec
94	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital/ Analog)	Using Digital Timer by direct method	86400 sec (24 hour)	24sec
95	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Fluke 9100 multifunction calibrator by direct method	10 Hz to 10 MHz	0.07 % to 0.008 %
96	FLUID FLOW-FLOW MEASURING DEVICES	Air Flow rate-(rotameter /flow meter/ flow measuring equipments)	Using Fluke Molbloc – L laminar flow calibration system(medium- air /gases) by comparison method	1 SLM to 5 SLM	1.40% rdg
97	FLUID FLOW-FLOW MEASURING DEVICES	Air Flow rate-(rotameter/flow meter/ flow measuring equipments)	Using Fluke Molbloc – L laminar flow calibration system(medium- air /gases) by comparison method	>5 SLM to 50 SLM	0.58%rdg.

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98	MECHANICAL-ACCELERATION AND SPEED	Contact type rpm (tachometer/ centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	10 rpm to 100 rpm	2.6 % rdg. to 0.28 % rdg.
99	MECHANICAL-ACCELERATION AND SPEED	Contact type rpm (tachometer/ centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	100 rpm to 1000 rpm	0.28 % rdg. to 0.08 % rdg.
100	MECHANICAL-ACCELERATION AND SPEED	Contact type rpm (tachometer/ centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	1000 rpm to 5000 rpm	0.17 % rdg. to 0.04 % rdg.
101	MECHANICAL-ACCELERATION AND SPEED	Contact type rpm (tachometer/ centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	5000 rpm to 10000 rpm	0.04 % rdg. to 0.02 % rdg.
102	MECHANICAL-ACCELERATION AND SPEED	Contact type rpm (tachometer/ centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	6 rpm to 10 rpm	4.37 % rdg. to 2.61 % rdg.

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103	MECHANICAL-ACCELERATION AND SPEED	Non contact type rpm (stroboscope / pulse engine tachometer, digital tachometer, centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	10 rpm to 100 rpm	3.93 % rdg. to 0.35 % rdg.
104	MECHANICAL-ACCELERATION AND SPEED	Non contact type rpm (stroboscope / pulse engine tachometer, digital tachometer, centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	6 rpm to 10 rpm	5.84 % rdg. to 3.49 % rdg.
105	MECHANICAL-ACCELERATION AND SPEED	Non contact type rpm (stroboscope / pulse engine tachometer, digital tachometer, centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	100 rpm to 1000 rpm	0.35 % rdg. to 0.05 % rdg.

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106	MECHANICAL-ACCELERATION AND SPEED	Non contact type rpm (stroboscope / pulse engine tachometer, digital tachometer, centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	1000 rpm to 10000 rpm	0.09 % rdg. to 0.02 % rdg.
107	MECHANICAL-ACCELERATION AND SPEED	Non contact type rpm (stroboscope / pulse engine tachometer, digital tachometer, centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	10000 rpm to 50000 rpm	0.02 % rdg. to 0.01 % rdg.
108	MECHANICAL-ACCELERATION AND SPEED	Non contact type rpm (stroboscope / pulse engine tachometer, digital tachometer, centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	50000 rpm to 100000 rpm	0.01 % rdg. to 0.01 % rdg.
109	MECHANICAL-ACOUSTICS	Sound Level meter (1 kHz)	Using sound level calibrator by direct method	114 dB	0.45dB
110	MECHANICAL-ACOUSTICS	Sound Level meter (1kHz)	Using sound level calibrator by direct method	94 dB	0.45 dB

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111	MECHANICAL-DENSITY AND VISCOSITY	Density Hydrometers, Lactometers	Using standard hydrometers & compatible liquids by comparison method as per IS 3104	0.6 g/ml to 1.8 g/ml	0.0015g/ml
112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier / Dial / Digimatic Caliper (L.C : 0.01 mm)	Using slip gauge set grade ‘0’, long gauge blocks & caliper checker by comparison method	0 to 1000 mm	14.70 µm
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate (Squarness)	Using slip gauge grade ‘0’, master cylinder & dial test indicator by comparison method	Upto 300 mm	10 µm
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Coaxiality)	Using test mandrel & dial test indicator by comparison method	up to 300 mm	10 µm
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Parallelism)	Using test mandrel & dial test indicator by comparison method	upto 300 mm	10.0 µm

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116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel protractor (LC-5 min) / Combination set (LC 1°)	Using slip gauge set grade 0, sine bar & master cylinder & angle gauge set by comparison method	0 - 90° - 0	5.0 min of arc
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (LC-0.1 µm)	Using standard foils by comparison method	0 to 250 µm	2.2µm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (LC-1 µm)	Using standard foils by comparison method	0 to 1500 µm	5.0 µm
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand - Flatness	Using electronic level by comparison method	300 mm X 300 mm	1.2Sq. Root (L+W)/ 150 ,Where L & W are in mm
120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand - Flatness	Using dial test indicator/ probe witg DRO by comparison method	300 x 300 mm to mm	4.7µm

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121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper / Depth Gauge (L.C : 0.01 mm)	Using slip gauge set grade ‘0’, long gauge blocks & caliper checker by comparison method	0 to 300 mm	7.5 µm
122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C : 0.01 mm)	Using slip gauge set grade‘0’, long gauge blocks & caliper checker by comparison method	0 to 300 mm	7.0 µm
123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Bore Gauge (L.C.: 0.001 mm)	Using single axis measuring machine by comparison method	0 to 1 mm Travel	1.2 µm
124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Calibrator Tester L.C. 0.001 mm	Using slip gauge grade '0' & electronic probe by comparison method	0 to 25 mm	1.0 µm
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge L.C.: 0.001 mm	Using single axis measuring machine by comparison method	0 to 100 mm	1.4µm

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126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Test Indicator (L.C.: 0.001 mm)	Using single axis measuring machine by comparison method	0 to 1.0 mm	1.3µm
127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C.:0.001 mm)	Using slip gauge set grade ‘0’ by comparison method	0 to 50 mm	1.0 µm
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Level / Spirit level (Sensitivity 0.001mm/mtr)	Using electronic level & Level calibrator (tilting table with fine leveling screw jacks) by comparison method	+/-2 mm/mtr	3.7 µm/mtr
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Level / Spirit level (Sensitivity 0.01mm/mtr)	Using electronic level & Level calibrator (tilting table with fine leveling screw jacks) by comparison method	+/-200 mm/mtr	7.0 µm/mtr

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130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Level / Spirit level (Sensitivity 0.02 mm/mtr)	Using electronic level & Level calibrator (tilting table with fine leveling screw jacks) by comparison method	+/-100 mm/mtr	12.0 µm/mtr
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Probe, LC 0.1 um	Using slip gauge set grade ‘0’ by comparison method	0 to 25 mm	0.6 µm
132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Square/Right Angle (Flatness)	Using dial test indicator & surface plate by comparison method	upto 500 mm	5.7µm
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Square/Right Angle (Perpendicularity)	Using Slip Gauge set Grade '0' & Master Cylinder by comparison method	upto 500 mm	5.0µm
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C: 0.001 mm)	Using slip gauge set grade ‘0’ by comparison method	0 to 100 mm	1.5 µm

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135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C: 0.001 mm)	Using slip gauge set grade '0' & long gauge blocks by comparison method	100 mm to 150 mm	2.5 µm
136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C: 0.001 mm)	Using slip gauge set grade '0' & long gauge blocks by comparison method	150 mm to 300 mm	3.8 µm
137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using single axis measuring machine by comparison method	Upto 1 mm	1.2µm
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Foils	Using single axis measuring machine by comparison method	0.01 mm to 1.5 mm	1.2µm
139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (L.C: 0.001 mm)	Using slip gauge set grade '0' & caliper checker by comparison method	0 to 600 mm	6.0 µm

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140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (L.C: 0.01 mm)	Using slip gauge set grade '0' & caliper checker, long gauge blocks by comparison method	0 to 1000 mm	12.8 µm
141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hole Test (Inside 3 Point Micrometer) (L.C. 0.001 mm)	Using master ring by comparison method	6 mm to 100 mm	1.95µm
142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Dial Caliper (L.C. 0.01 mm)	Using slip gauge grade '0' by comparison method	5 mm to 100 mm	5.8µm
143	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (L.C: 0.001 mm)	Using slip gauge set grade '0' & accessories set by comparison method	0 to 300 mm	4.0 µm
144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Length Gauge / Setting Master	Using single axis measuring machine & long gauge block set by comparison method	100 mm to 600 mm	3.9µm

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145	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Length Gauge / Setting Master	Using single axis measuring machine by comparison method	0.5 mm to 100 mm	1.3µm
146	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Magnetic V Block (Flatness)	Using dial test indicator & surface plate by comparison method	upto 150 mm	5.7 µm
147	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Magnetic V Block (Perpendicularity)	Using slip gauge grade '0', master cylinder & surface plate by comparison method	upto 150 mm	6.0 µm
148	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Magnetic V Block (Symmetricity Error)	Using dial test indicator, test mandrel & surface plate by comparison method	up to 150 mm	8.3 µm
149	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Magnetic V Block Parallelism	Using dial test indicator & surface plate by comparison method	upto 150 mm	5.7µm

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150	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Magnetic V Block Parallelism	Using dial test indicator, test mandrel & surface plate by comparison method	upto 150 mm	8.3µm
151	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin Gauge	Using single axis measuring machine by comparison method	0.5 mm to 20 mm	1.2 µm
152	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape (L.C.: 1 mm)	Using standard scale with DRO by comparison method	0 to 50 mtr	154 sq. root L µm. Where L is in meters
153	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using single axis measuring machine and long gauge blocks by comparison method	100 mm to 300 mm	1.68µm
154	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using single axis measuring machine by comparison method	Upto 100 mm	1.2 µm

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155	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using single axis measuring machine and master ring gauge by comparison method	3 mm to 100 mm	1.8µm
156	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using single axis measuring machine and master ring gauge by comparison method	100 mm to 300 mm	2.6 µm
157	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using profile projector by comparison method	0 to 100 mm	96 µm
158	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Scale & Tape Calibration Unit	Using slip gauge set grade ‘0’ & long gauge blocks by comparison method	0 to 1000 mm	60 µm
159	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar (Centre Distance)	Using electronic probe & slip gauge set grade '0' by comparison method	up to 300 mm	4.00 µm

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160	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar (Flatness)	Using electronic probe & surface plate by comparison method	up to 300 mm	3.80 µm
161	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar (Parallelism)	Using electronic probe & surface plate by comparison method	up to 300 mm	3.80 µm
162	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar (Setting Angle)	Using surface plate, angle gauge, electronic probe & slip gauge set grade '0' by comparison method	up to 300 mm	6.2 Second
163	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Centre (Centre Distance)	Using slip gauge block grade ‘0’ & dial test indicator by comparison method	up to 300 mm	3.8 µm
164	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Centre (Coaxiality of Dead center)	Using test mandrel & dial test indicator by comparison method	up to 300 mm	4.0 µm

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165	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Centre (Parallelism of working surface)	Using electronic probe & surface plate by comparison method	up to 300 mm	4.0 µm
166	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using slip gauge set grade ‘0’ by comparison method	1 mm to 150 mm	2.2 µm
167	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Standard Steel Ball	Using single axis measuring machine by comparison method	4 mm to 100 mm	1.4µm
168	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Scale (L.C.: 1mm)	Using standard scale with DRO by comparison method	0 to 1000 mm	154 Sq. root L µm L is in meter
169	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Straightness)	Using surface plate & slip gauge set grade '0' by comparison method	up to 1000 mm	3.4µm

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170	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using electronic level by comparison method	6000 mm x 4000 mm	1.3 x Sq.root (L+W)/ 125where L & W are in mm
171	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Mandrel (Lack of trueness of rotation between centers)	Using sine centre & dial test indicator by comparison method	up to 300 mm	16µm
172	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Mandrel (Variation in diameter)	Using sine centre & dial test indicator by comparison method	up to 300 mm	2.4µm
173	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves (Aperture Size)	Using profile projector by comparison method	32 µm to 4000 µm	6.2 µm
174	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves (Aperture Size)	Using digital caliper by comparison method	4 mm to 50 mm	20 µm

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175	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves (Aperture Size)	Using digital caliper by comparison method	50 mm to 125 mm	30 µm
176	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge - pitch & flank angle	Using profile projector by comparison method	0.40 mm to 7.0 mm	Length -7.0 µm, Angle - 3.0 min of arc
177	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge pitch diameter (effective diameter)	Using single axis measuring machine, thread measuring wire & long gauge block set by comparison method	100 mm to 300 mm	3.1µm
178	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge pitch diameter (effective diameter)	Using single axis measuring machine and thread measuring wire by comparison method	3 mm to 100 mm	2.8µm
179	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Dia Only)	Using single axis measuring machine & master ring by comparison method	4 mm to 100 mm	3.4µm

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180	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three Wire Unit	Using single axis measuring machine by comparison method	0.17 mm to 4 mm	1.2 µm
181	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier / Dial / Digimatic Caliper (L.C : 0.02 mm)	Using slip gauge set grade ‘0’, long gauge blocks & caliper checker by comparison method	0 to 2000 mm	49.0 µm
182	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier / Dial / Digimatic Caliper (L.C : 0.01 mm)	Using slip gauge set grade ‘0’, long gauge blocks & caliper checker by comparison method	0 to 300 mm	8.0 µm
183	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector /VMM (Angle Measurement) (LC 1s)	Using angle gauges by comparison method	0 ° to 360 °	75second of arc
184	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ VMM (Linear Dimension) (X-Y axis) (LC-1µm)	Using slip gauge grade ‘0’ & long gauge block by comparison method	0 to 300 mm	3.9µm
185	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ VMM (Magnification)	Using slip gauge grade ‘0’ & digital caliper by comparison method	50X	1.00%

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186	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine/ single axis measuring machine (Resolution: 0.0001 mm)	Using slip gauge grade '0' by comparison method	0 to 100 mm	0.5µm
187	MECHANICAL-DUROMETER	Rubber Hardness Tester / Durometer (Shore A)	Using rubber hardness calibration setup & Digital force gauge of 10 N (L.C 0.001 N) & 50 N (0.01 N)	10 Shore A to 100 Shore A	1.47Shore A
188	MECHANICAL-DUROMETER	Rubber Hardness Tester / Durometer (Shore D)	Using rubber hardness calibration setup & Digital force gauge of 10 N (L.C 0.001 N) & 50 N (0.01 N)	10 Shore D to 100 Shore D	0.66Shore D
189	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push pull gauge & other mobile force measuring device	Using standard newtonian weights as per VDI/VDE 2624 part 2.1	1 N to 100 N	0.1N
190	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push pull gauge & other mobile force measuring device	Using standard newtonian weights as per VDI/VDE 2624 part 2.1	100 N to 900 N	1.1N
191	MECHANICAL-PRESSURE INDICATING DEVICES	Barometric Pressure Gauge	Using digital barometric pressure indicator by comparison method	600 mbar to 1050 mbar	0.67mbar

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192	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic pressure (gauge, manometer, differential gauge, transmitter, transducer, magnehalic gauge, pressure switch) (Digital/Analog)	Using standard digital manometer by comparison method	0 to 200 mbar	0.20mbar
193	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic pressure (gauge, manometer, differential gauge, transmitter, transducer, magnehalic gauge, pressure switch) (Digital/Analog)	Using standard digital pressure calibrator by comparison method	-2000 pa to 2000 pa	2.67pa
194	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (gauge, transmitter, transducer) (Analog/Digital) - Hydraulic	Using dead weight tester by direct method	1 kg/cm2 to 40 kg/cm2	0.05% rdg.
195	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (gauge, transmitter, transducer) (Analog/Digital) - Hydraulic	Using dead weight tester by direct method	40 kg/cm2 to 800 kg/cm2	0.05% rdg.

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196	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (gauge, transmitter, transducer, pressure switch) (digital/analog) - pneumatic	Using standard digital pressure gauge & pressure comparator by comparison method	0 to 3 bar	0.0028bar
197	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (gauge, transmitter, transducer, pressure switch) (digital/analog) - pneumatic	Using standard digital pressure gauge & pressure comparator by comparison method	0 to 30 bar	0.04bar
198	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (gauge, transmitter, transducer, pressure switch) (Analog/Digital) - Hydraulic	Using standard digital pressure gauge & pressure comparator by comparison method	0 to 1000 bar	0.63bar
199	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (gauge, transmitter, transducer, pressure switch) (Analog/Digital) - Hydraulic	Using standard digital pressure gauge & pressure comparator by comparison method	0 to 70 bar	0.045bar
200	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum (Gauge, Transmitter, transducer (Digital / Analog)	using standard digital pressure gauge by comparison method	-0.95 bar to 0	0.0025bar

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201	MECHANICAL-TORQUE GENERATING DEVICES	Torque Screw Driver Type I : Class D, E Type II: Class D, E, F	Using Digital Torque Tester as per IS: 16906	1 Nm to 10 Nm	2.01% rdg
202	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench/ Torque Generating devices Type I: Class B,C,D,E	Using Torque wrench testing system as per IS: 16906	0.5 Nm to 500 Nm	0.8% rdg.
203	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench/ Torque Generating devices Type II: Class A,B,D,E	Using Torque wrench testing system as per IS: 16906	0.5 Nm to 2000 Nm	0.8% rdg.
204	MECHANICAL-VOLUME	Glassware (Measuring Cylinder/ Jar, Volumetric Flask, Beaker, Glass Pipette, Dispenser, Soap Bubble Meter, Burette and other volumetric apparatus)	Using digital weighing balance (resolution 0.01 mg) by gravimetric method as per ISO 4787	1 ml to 100 ml	0.06µl
205	MECHANICAL-VOLUME	Glassware (Measuring Cylinder/ Jar, Volumetric Flask, Beaker, Glass Pipette, Dispenser, Soap Bubble Meter, Burette and other volumetric apparatus)	Using digital weighing balance (resolution0.001 g) by gravimetric method as per ISO 4787	100 ml to 500 ml	11.7 µl

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206	MECHANICAL-VOLUME	Glassware (Measuring Cylinder/ Jar, Volumetric Flask, Beaker, Glass Pipette, Dispenser, Soap Bubble Meter, Burette and other volumetric apparatus)	Using digital weighing balance (resolution 0.1 g) by gravimetric method as per ISO 4787	2 Liter to 5 liter	0.43ml
207	MECHANICAL-VOLUME	Glassware (Measuring Cylinder/ Jar, Volumetric Flask, Beaker, Glass Pipette, Dispenser, Soap Bubble Meter, Burette and other volumetric apparatus)	Using digital weighing balance (resolution 0.1 g) by gravimetric method as per ISO 4787	5 Liter to 10 Liter	1.1ml
208	MECHANICAL-VOLUME	Glassware (Measuring Cylinder/ Jar, Volumetric Flask, Beaker, Glass Pipette, Dispenser, Soap Bubble Meter, Burette and other volumetric apparatus)	Using digital weighing balance (resolution 0.01 g) by gravimetric method as per ISO 4787	500 ml to 2 Liter	0.05ml

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209	MECHANICAL-VOLUME	Glassware (Measuring Cylinder/ Jar, Volumetric Flask, Beaker, Glass Pipette, Dispenser, Soap Bubble Meter, Burette and other volumetric apparatus)	Using digital weighing balance (resolution 0.001 mg) by gravimetric method as per ISO 4787	0.1 ml to 1 ml	0.05µl
210	MECHANICAL-VOLUME	Volume (Micro pipette / Pipette)	Using micro balance (resolution 0.001 mg) as per ISO 8655	1 µl to 10 µl	0.02µl
211	MECHANICAL-VOLUME	Volume (Micro pipette / Pipette)	Using micro balance (resolution 0.001 mg) as per ISO 8655	1 ml to 10 ml	2.39 µl
212	MECHANICAL-VOLUME	Volume (Micro pipette / Pipette)	Using micro balance (resolution 0.001 mg) as per ISO 8655	100 µl to 1000 µl	0.88 µl
213	MECHANICAL-VOLUME	Volume (Micro pipette / Pipette)	Using micro balance (resolution 0.001 mg) as per ISO 8655	10 µl to 100 µl	0.19 µl
214	MECHANICAL-WEIGHING SCALE AND BALANCE	Balance (Resolution 0.0001 mg or coarser)	Using E1 class standard weights as per OIML R76-1	0 to 2.2 g	0.004mg
215	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (L.C. 0.1 g)	Using F1& M1 class standard weights by comparison method	0 to 100 kg	60g

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216	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability 0.001 mg & Coarser)	Using E1 class standard weights as per OIML R76-1	0 to 22 g	0.01mg
217	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability 0.01 g & Coarser)	Using E1 & F1 class standard weights as per OIML R76-1	0 to 6 kg	0.01g
218	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability 0.01 mg & Coarser)	Using E1 class standard weights as per OIML R76-1	0 to 250 g	0.07mg
219	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability 0.1 g & Coarser)	Using E1 & F1 class standard weights as per OIML R76-1	0 to 12 kg	0.06g
220	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability 1 g & Coarser)	Using F1 class standard weights as per OIML R76-1	0 to 100 kg	0.8g
221	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability 1 mg) & Coarser	Using E1 & F1 class standard weights as per OIML R76-1	0 to 1000 g	0.002g
222	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability 10 g & Coarser)	Using F1 & M1 class standard weights as per OIML R76-1	0 to 500 kg	28g

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223	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & micro balance (resolution 0.001 mg) by substitution method as per OIML R-111:2004	1 g	0.004mg
224	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & micro balance (resolution 0.001 mg) by substitution method as per OIML R-111:2004	1 mg	0.0018mg
225	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & micro balance (resolution 0.001mg) by substitution method as per OIML R-111:2004	10 g	0.008mg
226	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & micro balance (resolution 0.001 mg) by substitution method as per OIML R-111:2004	10 mg	0.0018mg

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227	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & semi micro balance (resolution 0.01mg) by substitution method as per OIML R-111:2004	100 g	0.026g
228	MECHANICAL-WEIGHTS	Mass (Weights) of E2 Class & Coarser	Using E1 class standard weights & micro balance (resolution 0.001 mg) by substitution method as per OIML R-111:2004	100 mg	0.0018mg
229	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & micro balance (resolution 0.001 mg) by substitution method as per OIML R-111:2004	2 g	0.005mg
230	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & micro balance (resolution 0.001 mg) by substitution method as per OIML R-111:2004	2 mg	0.0018mg

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231	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & micro balance (resolution 0.001mg) by substitution method as per OIML R-111:2004	20 g	0.012mg
232	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & micro balance (resolution 0.001mg) by substitution method as per OIML R-111:2004	20 mg	0.0018mg
233	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & semi micro balance (resolution 0.01 mg) by substitution method as per OIML R-111:2004	200 g	0.044mg
234	MECHANICAL-WEIGHTS	Mass (Weights) of E2 Class & Coarser	Using E1 class standard weights & micro balance (resolution 0.001mg) by substitution method as per OIML R-111:2004	200 mg	0.003mg

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235	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & micro balance (resolution 0.001 mg) by substitution method as per OIML R-111:2004	5 g	0.007mg
236	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & micro balance (resolution 0.001 mg) by substitution method as per OIML R-111:2004	5 mg	0.0018mg
237	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & semi micro balance (resolution 0.01 mg) by substitution method as per OIML R-111:2004	50 g	0.024mg
238	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & micro balance (resolution 0.001 mg) by substitution method as per OIML R-111:2004	50 mg	0.0018mg

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239	MECHANICAL-WEIGHTS	Mass (Weights) of E2 Class & Coarser	Using E1 class standard weights & micro balance (resolution 0.001 mg) by substitution method as per OIML R-111:2004	500 mg	0.003mg
240	MECHANICAL-WEIGHTS	Mass (Weights) of F2 Class & Coarser	Using F1 Class standard Weight & Digital Weighing Balance (resolution 0.001 g) by substitution method as per OIML R-111:2004	1 kg	2.5mg
241	MECHANICAL-WEIGHTS	Mass (Weights) of F2 Class & Coarser	Using F1 Class standard Weight & Digital Weighing Balance (resolution 0.01 g) by substitution method as per OIML R-111:2004	2 kg	13mg
242	MECHANICAL-WEIGHTS	Mass (Weights) of F2 Class & Coarser	Using F1 class standard weight & digital weighing balance (resolution 0.01 g) by substitution method as per OIML R-111:2004	5 kg	13mg

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243	MECHANICAL-WEIGHTS	Mass (Weights) of F2 Class & Coarser	Using F1 Class standard Weight & Digital Weighing Balance (resolution 0.001 g) by substitution method as per OIML R-111:2004	500 g	2mg
244	MECHANICAL-WEIGHTS	Mass (Weights) of M1 Class & Coarser	Using F1 class standard weight & digital weighing balance (resolution 1g) by substitution method as per OIML R-111:2004	50 kg	0.9g
245	MECHANICAL-WEIGHTS	Mass (Weights) of M1 Class & Coarser	Using F1 class standard weight & digital weighing balance (resolution 0.1 g) by substitution method as per OIML R-111:2004	10 kg	89mg
246	MECHANICAL-WEIGHTS	Mass (Weights) of M1 Class & Coarser	Using F1 class standard weight & digital weighing balance (resolution 1g) by substitution method as per OIML R-111:2004	100 kg	1.01g

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247	MECHANICAL-WEIGHTS	Mass (Weights) of M1 Class & Coarser	Using F1 class standard weight & digital weighing balance (resolution 1 g) by substitution method as per OIML R-111:2004	20 kg	0.9g
248	THERMAL-SPECIFIC HEAT & HUMIDITY	Cold Chamber, Environment Chamber, Stability Chamber, Centrifuged Chamber, Cold Room, (Multi-locations, Multiple Sensors, Temperature Uniformity, Thermal Mapping) @ (25 +/-2°C) °C	Using Multi-point Data Logger with multiple RH sensors/Inbuilt Data Loggers. (Multi-Point Calibration)	5 % RH to 95 % RH	0.85% RH
249	THERMAL-SPECIFIC HEAT & HUMIDITY	Cold Chamber, Environment Chamber, Stability Chamber, Centrifuged Chamber, Cold Room, (Multi-locations, Multiple Sensors, Temperature Uniformity, Thermal Mapping)	Using Multiple RTD Sensors with Super DAQ/Data Loggers.(minimum nine sensors) (Multi-Point Calibration)	-80 °C to 300 °C	0.31°C

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250	THERMAL-SPECIFIC HEAT & HUMIDITY	Environment Chamber / Humidity Chamber/Humidity Source (Humidity Calibrator /Generator Chamber) (Stability and Uniformity) @(25 +/-2°C) °C	Using STD. RH Sensor with Indicator, (Single Point Calibration)	5 % RH to 95 % RH	0.85% RH
251	THERMAL-SPECIFIC HEAT & HUMIDITY	Environment Chamber / Humidity Chamber/Humidity Source, (Humidity Calibrator /Generator Chamber)(Multi-locations, Multiple Sensors, Temperature Uniformity Survey, Thermal Mapping) @(25 +/-2°C) °C	Using Multi-point Data Logger with multiple RH sensors/ Data Loggers (Inbuilt Sensors),(Multi-Point Calibration)	5 % RH to 95 % RH	0.85% RH
252	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & RH sensor with/without Indicator, Thermo-hygrometer, Data Logger with Internal/External Sensor @ (50+/-2)% RH	Using SPRT/RTD with Fluke Super DAQ, Low Temperature Chamber	-5 °C to 50 °C	0.2°C

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253	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & RH sensor with/without Indicator, Thermo-hygrometer, Data Logger with Internal/External Sensor@ (25 +/-2°C) °C	Using Std. RH Sensor with Indicator & RH Calibrator by comparison method.	0.5 % RH to 95 %RH	0.5% RH
254	THERMAL-TEMPERATURE	Blackbody Source/ IR Thermal Sources/Blackbody Sources @ emissivity 0.95	Using 4 Wire RTD with Fluke Super DAQ by comparison method	35 °C to 50 °C	0.2°C
255	THERMAL-TEMPERATURE	Blackbody Source/ IR Thermal Sources/Blackbody Sources @ emissivity 0.95	Using 4 Wire RTD with Fluke Super DAQ by comparison method	50 °C to 500 °C	1.77°C
256	THERMAL-TEMPERATURE	Calibration of Dry Block Calibrators, Metrology Well (Stability & Uniformity)	Using SPRT/ PRT with Fluke Super DAQ by comparison method	>200 °C to 660 °C	1.09°C
257	THERMAL-TEMPERATURE	Calibration of High Temperature Furnace/Metrology Wells/ Dry Block calibrators, Thermal Sources (Stability & Uniformity)	Using Standard Type-S/N Thermocouple with Fluke Super DAQ/ 61/2 Digit DMM by comparison method	>660 °C to 1200 °C	1.40°C

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258	THERMAL-TEMPERATURE	Calibration of Liquid Baths, Dry Block Calibrators,Metrology Well , Thermal Sources (Stability & Uniformity)	Using SPRT/ PRT with Fluke Super DAQ by comparison method	(-)95 °C to 140 °C	0.057°C
259	THERMAL-TEMPERATURE	Calibration of Liquid Baths, Dry Block Calibrators,Metrology Well , Thermal Sources (Stability & Uniformity)	Using SPRT/ PRT with Fluke Super DAQ by comparison method	>140 °C to 200 °C	0.054°C
260	THERMAL-TEMPERATURE	Indicator of Thermal Sources (Oven, Dry Block Furnaces, Dry Block calibrators, Muffle Furnace, Chamber, Dry Block calibrators) (Stability & Uniformity)	Using SPRT/PRT with Fluke Super DAQ by comparison method,(Single Point calibration)	>300 °C to 660 °C	1.10°C
261	THERMAL-TEMPERATURE	Indicator of Thermal Sources (Dry Block Furnaces, Metrology Well,Chambers, Dry Block calibrators, Muffle Furnace) (Stability & Uniformity)	Using Type-S/N Thermocoupleswith Fluke Super DAQ by comparison method,(Single Point calibration)	>660 °C to 1200 °C	1.39°C

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262	THERMAL-TEMPERATURE	Indicator of Thermal Sources (Liquid Bath, Dry Block Furnaces, Dry Block calibrators) (Stability & Uniformity)	Using SPRT/ PRT with Fluke Super DAQ by comparison method, (Single Point calibration)	(-)196 °C to 0	0.14°C
263	THERMAL-TEMPERATURE	Indicator of Thermal Sources of (Oven, Environmental Chambers/Furnaces/ Heating Chambers/ Incubators & BOD Incubators, Cold Room, (Stability & Uniformity)	Using Fluke SPRT, PRT with Fluke Super DAQ by comparison method (Single Point calibration)	0 to 300 °C	1.10 °C
264	THERMAL-TEMPERATURE	IR Thermometer/ IR Gun/Radiation Pyrometer/ IR Detector/ Thermal Imagers/ Laser pointed/IR Pyrometer @ emissivity 0.95	Using Radiation Pyrometer/Portable IR Calibrator by comparison method	50 °C to 500 °C	1.77°C
265	THERMAL-TEMPERATURE	IR Thermometer/Infrared Body Temperature Thermometer @ emissivity 0.95	Using Blackbody Source and 4 Wire RTD sensor with Super DAQ By Comparison Method	34 °C to 50 °C	0.75°C

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266	THERMAL-TEMPERATURE	Liquid in Glass ThermometerThermometers	Using Fluke SPRT with Fluke Super DAQ/ Liquid Temp Bath by Comparison Method	(-)80 °C to 300°C	0.1°C
267	THERMAL-TEMPERATURE	Temperature Indicator of Thermal Sources, Baths / Cyro bath, N2 Freezer / Liquid Nitrogen Bath	Using SPRT/ PRT with Fluke Super DAQ by comparison method,(Single Point calibration) by comparison method.	(-)196 °C	0.14°C
268	THERMAL-TEMPERATURE	Temperature Sensor with/without Indicator, Temperature& RH Data Logger, Temperature & RH Data Logger with/without indicator, Data Logger (Inbuilt Sensor), Temperature Inbuilt Sensor, thermo-hygrometer	Using SPRT/RTD (4 Wire) with Fluke Super DAQ, Low Temperature Chamber	(-)25 °C to 50 °C	0.2°C

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269	THERMAL-TEMPERATURE	Temperature Transmitter, RTD's and Thermocouples with & without (Controller/Indicator/ Data Logger/Recorder/ Scanner), Temperature Gauge & Digital Thermometer	Using Fluke SPRT with Fluke Super DAQ/Liquid Nitrogen Bath/Field Metrology Well, By Comparison Method	(-)196 °C to (-)95 °C	0.14°C
270	THERMAL-TEMPERATURE	Temperature Transmitter, RTD's and Thermocouples with & without (Controller/Indicator/ Data Logger/Recorder/ Scanner), Temperature Gauge & Digital Thermometer	Using Fluke SPRT with Fluke Super DAQ/ Field Metrology Well/ Liquid Temperature Bath / by Comparison Method	>(-)95 °C to 140 °C	0.10 °C to 0.04°C

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271	THERMAL-TEMPERATURE	Temperature Transmitter, RTD's and Thermocouples with & without (Controller/Indicator/ Data Logger/Recorder/ Scanner), Temperature Gauge & Digital Thermometer	Using Fluke SPRT with Fluke Super DAQ/ Liquid Temp Bath by Comparison Method	>140 °C to 200 °C	0.054°C
272	THERMAL-TEMPERATURE	Temperature Transmitter, RTD's and Thermocouples with & without (Controller/Indicator/ Data Logger/Recorder/ Scanner), Temperature Gauge & Digital Thermometer	Using Fluke SPRT with Fluke Super DAQ/ Dry Block by Comparison Method	200 °C to 660 °C	0.45°C
273	THERMAL-TEMPERATURE	Temperature Transmitter, RTD's and Thermocouples with & without (Controller/Indicator/ Data Logger/Recorder/ Scanner), Temperature Gauge Digital Thermometer	Using Fluke SPRT with Fluke Super DAQ /Liquid Nitrogen Bath, By Comparison Method	(-)196 °C	0.14°C

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274	THERMAL-TEMPERATURE	Thermal Sources of (Furnaces/ Spatial Thermal Mapping (Multi-locations, Multiple Sensors, Temperature Uniformity Survey (TUS), Thermal Mapping)	Using Multiple N-Type Thermocouples Sensor with Fluke Super DAQ.(minimum nine thermocouples) (Multi-Point Calibration)	>300 °C to 1200 °C	1.9°C
275	THERMAL-TEMPERATURE	Thermal Sources of (Freezers, Deep Freezer, Cold Chamber, Environmental Chambers, Cold Room, Walking Chiller (Multi-locations, Multiple Sensors, Temperature Uniformity Survey (TUS), Thermal Mapping)	Using Multiple RTD Sensors with Super DAQ.(minimum nine sensors)by mapping method	(-)80 °C to 0 °C	0.31°C

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276	THERMAL-TEMPERATURE	Thermal Sources of (Freezers, Deep Freezer, Cold Chamber, Environmental Chambers, Cold Room, Walking Chiller (Multi-locations, Multiple Sensors, Temperature Uniformity Survey(TUS), Thermal Mapping)	Using Multiple RTD Sensors with Super DAQ.(Multi-Point Calibration)	0 to 300 °C	0.31°C
277	THERMAL-TEMPERATURE	Thermocouples, Temperature Transmitter with & without (Controller/Indicator/ /Recorder/ Scanner), Data Logger & Digital Thermometer	Using Type S Thermocouple with Fluke Super DAQ/ Dry Block Furnace by Comparison Method.	> 660 °C to 1200 °C	0.96°C

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz/60 Hz)	Using 6½ digital multimeter by direct method	100 mA to 10 A	0.2 % to 0.25 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz/60 Hz)	Using 6½ digital multimeter by direct method	50 µA to 100 mA	0.3 % to 0.2 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Current (50 Hz)	Using 6½ DMM & Current Transformer by direct method	10 A to 1000 A	1.3 % to 0.65 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage (50 kHz)	Using HV probe with DMM & AC High voltage source by direct method	1 kV to 28 kV	2.4%

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Resistance (1kHz)	Using LCR Meter by direct method	1 Ohm to 100 kohm	0.23%
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz/60 Hz)	Using 6.5 DMM By Direct Method	10 mV to 10 V	0.53 % to 0.12 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz/60 Hz)	Using 6.5 DMM By Direct Method	10 V to 1000 V	0.12 % to 0.18 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (1 kHz)	Using LCR Meter by direct method	1 nF to 1 µF	0.2%
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (10 kHz)	Using LCR Meter by direct method	1 nF to 1 µF	0.2%

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Frequency	Using 6½ DMM by direct method	10 Hz to 1 MHz	0.06%
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance (1kHz)	Using LCR Meter by direct method	100 µH to 1 H	0.45 % to 0.8 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50HZ/60HZ)	Using Fluke 9100 multifunction calibrator with current coil by direct method	100 µA to 300 mA	0.45 % to 0.13 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50HZ/60HZ)	Using Fluke 9100 multifunction calibrator with current coil by direct method	20 A to 1000 A	0.31 % to 0.90 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50HZ/60HZ)	UUsing Fluke 9100 multifunction calibrator with current coil by direct method	300 mA to 20 A	0.13 % to 0.31 %

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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power (Active Power 1ø) (1 W to 12 kW)	Using Fluke 9100 multifunction calibrator by direct method	0.5 Lag to 0.5 Lead 10 V to 640 V & 1 A to 19 A UPF 240 V 0.1 to 1 A	0.25 % to 0.80 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50HZ/60HZ)	Using Fluke 9100 multifunction calibrator by direct method	10 mV to 300 mV	1.15 % to 0.2 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50HZ/60HZ)	Using Fluke 9100 multifunction calibrator by direct method	100 V to 1000 V	0.08%
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50HZ/60HZ)	Using Fluke 9100 multifunction calibrator by direct method	300 mV to 100 V	0.2 % to 0.08 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1KHz	Using Fluke 9100 multifunction calibrator by direct method	1 nF to 100 µF	7.2 % to 1.5 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6.5 DMM By Direct Method	1 µA to 10 mA	3.0 % to 0.08 %

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21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6.5 DMM By Direct Method	10 mA to 3 A	0.08 % to 0.16 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6.5 DMM By Direct Method	3 A to 10 A	0.16 % to 0.2 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Current	Using 6½ DMM & 900 A / 75 mV Shunt by direct/ comparison method	10 A to 750 A	1.0%
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM & DC high voltage source by direct/comparison method	1 kV to 37 kV	1.7 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6.5 DMM By Direct Method	1 mV to 100 mV	0.5 % to 0.01 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6.5 DMM By Direct/Comparison Method	10 V to 1000 V	0.06 % to 0.02 %

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27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6.5 DMM By Direct Method	100 mV to 10 V	0.01 % to 0.06 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ DMM & Micro Ohm meter by direct method	1 Mohm to 100 Mohm	0.13 % to 0.9 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6.5 DMM & Micro Ohm Meter By Direct Method	10 ohm to 1 Mohm	0.06 % to 0.13 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ DMM & Micro Ohm meter by direct method	100 Mohm to 1 Gohm	0.9 % to 2.36 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using Micro Ohm Meter & Low Resistance Standard By Direct Method	1 ohm to 10 ohm	0.06 % to 0.05 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using Micro Ohm Meter & Low Resistance Standard By Direct Method	100 µohm to 1 ohm	0.6 % to 0.06 %

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33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 9100 multifunction calibrator by direct method	1 µA to 300 mA	1.2 % to 0.03 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 9100 multifunction calibrator with current coil by direct method	20 A to 1000 A	0.12 % to 0.70 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 9100 multifunction calibrator by direct method	300 mA to 20 A	0.03 % to 0.12 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (10 V to 1000 V & 1 A to 19 A)	Using Fluke 9100 multifunction calibrator by direct method	10 W to 19 kW	0.31%
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Fluke 9100 multifunction calibrator by direct method	1 mV to 300 mV	0.55 % to 0.01 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Fluke 9100 multifunction calibrator by direct method	300 mV to 300 V	0.01 % to 0.03 %

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39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Fluke 9100 multifunction calibrator by direct method	300 V to 1000 V	0.03 % to 0.014 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using high resistance box by direct method	1 Gohm	2.5%
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using high resistance box by direct method	1 Tohm	2.5%
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using high resistance box by direct method	10 Gohm	2.5%
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using high resistance box by direct method	100 Gohm	2.5%
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using high resistance box by direct method	2 Gohm	2.5%

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45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using high resistance box by direct method	20 Gohm	2.5%
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using high resistance box by direct method	200 Gohm	2.5%
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using high resistance box by direct method	500 Gohm	2.5%
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using high resistance box by direct method	500 Mohm	2.5%
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using low resistance box (fixed value) by direct method	0.001 ohm	0.13%
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using low resistance box (fixed value) by direct method	0.01 ohm	0.13%

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51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using low resistance box (fixed value) by direct method	0.1 ohm	0.13%
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using low resistance box (fixed value) by direct method	1 ohm	0.13%
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using low resistance box (fixed value) by direct method	100 µohm	0.3%
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using low resistance box (fixed value) by direct method	50 µohm	1.26%
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Fluke 9100 multifunction calibrator by direct method	1 ohm to 4 Mohm	0.36 % to 0.07 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Fluke 9100 multifunction calibrator by direct method	4 Mohm to 40 Mohm	0.07 % to 0.18 %

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57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Fluke 9100 multifunction calibrator by direct method	40 Mohm to 400 Mohm	0.18 % to 0.32 %
58	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Power / Energy (1Ø,3Ø) 50 Hz (63.5W to 3.6kW)	Using power /energy meter accuchek & power source by direct method	UPF to 0.5 Lag/Lead PF to Voltage 240 V/ 63.5 V Current :1A/ 5 A	1.0%
59	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude(Deflection Factor) 1 kHz / 1 MegaOhm	Using Fluke 9100 multifunction calibrator by direct method	5 mV to 120 V	1.0%
60	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Bandwidth	Using Fluke 9100 multifunction calibrator by direct method	1 kHz to 250 MHz	5.0%
61	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Sin/Square (DC)	Using Fluke 9100 multifunction calibrator by direct method	50 kHz to 20 Mhz 50 Ohm 20 mV to 2.5 V	1.0%
62	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Time Base (Marker)	Using Fluke 9100 multifunction calibrator by direct method	10 nsec to 5 sec	0.5%

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63	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Turn Ratio Meter	Using Ratio Calibration Standard By Direct Method	1:11	0.65%
64	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Turn Ratio Meter	Using Ratio Calibration Standard By Direct Method	1:110	0.31%
65	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Turn Ratio Meter	Using Ratio Calibration Standard By Direct Method	1:22	0.43%
66	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Turn Ratio Meter	Using Ratio Calibration Standard By Direct Method	1:220	0.25%
67	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Turn Ratio Meter	Using Ratio Calibration Standard By Direct Method	1:44	0.41%

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68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature source, Indicator/Controller/ Recorder) ('B' type T/C)	Using Fluke Super DAQ direct method.	600 °C to 1700 °C	0.18 °C
69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature source, Indicator/Controller/ Recorder) ('E' type T/C)	Using Fluke Super DAQ direct method.	-100 °C to 600 °C	0.11°C
70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature source, Indicator/Controller/ Recorder) ('J' type T/C)	Using Fluke Super DAQ direct method.	-200 °C to 1200 °C	0.10°C
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature source, Indicator/Controller/ Recorder) ('K' type T/C)	Using Fluke Super DAQ direct method.	50 °C to 1300 °C	0.11°C

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72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature source, Indicator/Controller/ Recorder) ('N' type T/C)	Using Fluke Super DAQ direct method.	-200 °C to 1300 °C	0.11°C
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature source, Indicator/Controller/ Recorder) ('R' type T/C)	Using Fluke Super DAQ direct method.	600 °C to 1700 °C	0.13°C
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature source, Indicator/Controller/ Recorder) ('S' type T/C)	Using Fluke Super DAQ direct method.	50 °C to 1700 °C	0.12°C
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature source, Indicator/Controller/ Recorder) ('T' type T/C)	Using Fluke Super DAQ direct method.	-200 °C to 400 °C	0.09°C

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76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature source, Indicator/Controller/ Recorder) (RTD)	Using Fluke Super DAQ direct method.	-200 °C to 800 °C	0.07°C
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/ Recorder) ('B' Type T/C)	Using Fluke 9100 direct method.	600 °C to 1700 °C	0.18°C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/ Recorder) ('E' Type T/C)	Using Fluke 9100 direct method.	-100 °C to 600 °C	0.11°C
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/ Recorder) ('J' Type T/C)	Using Fluke 9100 direct method.	-200 °C to 1200 °C	0.12°C
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/ Recorder) ('K' Type T/C)	Using Fluke 9100 direct method.	-200 °C to 1300 °C	0.11°C

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81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/ Recorder) ('N' Type T/C)	Using Fluke 9100 direct method.	-200 °C to 1300 °C	0.11°C
82	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/ Recorder) ('R' Type T/C)	Using Fluke 9100 direct method.	0 to 1700 °C	0.15°C
83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/ Recorder) ('S' Type T/C)	Using Fluke 9100 direct method.	0 to 1700 °C	0.12°C
84	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/ Recorder) ('T' Type T/C)	Using Fluke 9100 direct method.	-200 °C to 400 °C	0.10°C
85	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/ Recorder) (RTD)	Using Fluke 9100 direct method.	-200 °C to 800 °C	0.07°C
86	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital /Analog)	Using Digital Timer by direct method	14400 sec (4 hour)	4.3sec

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87	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital /Analog)	Using Digital Timer by direct method	60 sec	0.006sec
88	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital /Analog)	Using Digital Timer by direct method	600 sec	0.027sec
89	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital /Analog)	Using Digital Timer by direct method	7200 sec (2 hour)	2.3sec
90	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital/ Analog)	Using Digital Timer by direct method	1 sec	0.003sec
91	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital/ Analog)	Using Digital Timer by direct method	100 msec	0.003 sec
92	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital/ Analog)	Using Digital Timer by direct method	1800 sec	0.04sec

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93	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital/ Analog)	Using Digital Timer by direct method	3600 sec (1 hour)	0.07sec
94	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital/ Analog)	Using Digital Timer by direct method	86400 sec (24 hour)	24sec
95	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Fluke 9100 multifunction calibrator by direct method	10 Hz to 10 MHz	0.07 % to 0.008 %
96	FLUID FLOW-FLOW MEASURING DEVICES	Air Flow rate-(rotameter /flow meter/ flow measuring equipments)	Using Fluke Molbloc – L laminar flow calibration system(medium- air /gases) by comparison method	1 SLM to 5 SLM	1.40% rdg
97	FLUID FLOW-FLOW MEASURING DEVICES	Air Flow rate-(rotameter/flow meter/ flow measuring equipments)	Using Fluke Molbloc – L laminar flow calibration system(medium- air /gases) by comparison method	>5 SLM to 50 SLM	0.58%rdg.

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98	FLUID FLOW-FLOW MEASURING DEVICES	Volume flow rate-(liquid flow meter & flow measuring equipments)	Using ultrasonic flow meter (medium-water) by comparison method	> 200 m^3/hr to 1450 m^3/hr	1 % rdg
99	FLUID FLOW-FLOW MEASURING DEVICES	Volume flow rate-(liquid flow meter & flow measuring equipments)	Using ultrasonic flow meter (medium-water) by comparison method	> 80 m^3/hr to 200 m^3/hr	1.18 % rdg
100	FLUID FLOW-FLOW MEASURING DEVICES	Volume flow rate-(liquid flow meter & flow measuring equipments)	Using ultrasonic flow meter (medium-Water) by comparison method	0.8 m^3/hr to 80 m^3/hr	1.98 % rdg
101	MECHANICAL-ACCELERATION AND SPEED	Contact type rpm (tachometer/ centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	10 rpm to 100 rpm	2.6 % rdg. to 0.28 % rdg.
102	MECHANICAL-ACCELERATION AND SPEED	Contact type rpm (tachometer/ centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	100 rpm to 1000 rpm	0.28 % rdg. to 0.08 % rdg.
103	MECHANICAL-ACCELERATION AND SPEED	Contact type rpm (tachometer/ centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	1000 rpm to 5000 rpm	0.17 % rdg. to 0.04 % rdg.

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104	MECHANICAL-ACCELERATION AND SPEED	Contact type rpm (tachometer/ centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	5000 rpm to 10000 rpm	0.04 % rdg. to 0.02 % rdg.
105	MECHANICAL-ACCELERATION AND SPEED	Contact type rpm (tachometer/ centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	6 rpm to 10 rpm	4.37 % rdg. to 2.61 % rdg.
106	MECHANICAL-ACCELERATION AND SPEED	Non contact type rpm (stroboscope / pulse engine tachometer, digital tachometer, centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	10 rpm to 100 rpm	3.93 % rdg. to 0.35 % rdg.
107	MECHANICAL-ACCELERATION AND SPEED	Non contact type rpm (stroboscope / pulse engine tachometer, digital tachometer, centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	6 rpm to 10 rpm	5.84 % rdg. to 3.49 % rdg.

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108	MECHANICAL-ACCELERATION AND SPEED	Non contact type rpm (stroboscope / pulse engine tachometer, digital tachometer, centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	100 rpm to 1000 rpm	0.35 % rdg. to 0.05 % rdg.
109	MECHANICAL-ACCELERATION AND SPEED	Non contact type rpm (stroboscope / pulse engine tachometer, digital tachometer, centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	1000 rpm to 10000 rpm	0.09 % rdg. to 0.02 % rdg.
110	MECHANICAL-ACCELERATION AND SPEED	Non contact type rpm (stroboscope / pulse engine tachometer, digital tachometer, centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	10000 rpm to 50000 rpm	0.02 % rdg. to 0.01 % rdg.

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111	MECHANICAL-ACCELERATION AND SPEED	Non contact type rpm (stroboscope / pulse engine tachometer, digital tachometer, centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	50000 rpm to 100000 rpm	0.01 % rdg. to 0.01 % rdg.
112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Coaxiality)	Using test mandrel & dial test indicator by comparison method	up to 300 mm	10 µm
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Parallelism)	Using test mandrel & dial test indicator by comparison method	upto 300 mm	10.0 µm
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand - Flatness	Using electronic level by comparison method	300 mm X 300 mm	1.2Sq. Root (L+W)/ 150 ,Where L & W are in mm

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115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand - Flatness	Using dial test indicator/ probe witg DRO by comparison method	300 x 300 mm to mm	4.7µm
116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Centre (Centre Distance)	Using slip gauge block grade ‘0’ & dial test indicator by comparison method	up to 300 mm	3.8 µm
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Centre (Coaxiality of Dead center)	Using test mandrel & dial test indicator by comparison method	up to 300 mm	4.0 µm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Centre (Parallelism of working surface)	Using electronic probe & surface plate by comparison method	up to 300 mm	4.0 µm
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using electronic level by comparison method	6000 mm x 4000 mm	1.3 x Sq.root (L+W)/ 125where L & W are in mm

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120	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector /VMM (Angle Measurement) (LC 1s)	Using angle gauges by comparison method	0 ° to 360 °	75second of arc
121	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ VMM (Linear Dimension) (X-Y axis) (LC-1µm)	Using slip gauge grade '0' & long gauge block by comparison method	0 to 300 mm	3.9µm
122	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ VMM (Magnification)	Using slip gauge grade '0' & digital caliper by comparison method	50X	1.00%
123	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine/ single axis measuring machine (Resolution: 0.0001 mm)	Using slip gauge grade '0' by comparison method	0 to 100 mm	0.5µm
124	MECHANICAL-PRESSURE INDICATING DEVICES	Barometric Pressure Gauge	Using digital barometric pressure indicator by comparison method	600 mbar to 1050 mbar	0.67mbar
125	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic pressure (gauge, manometer, differential gauge, transmitter, transducer, magnehalic gauge, pressure switch) (Digital/Analog)	Using standard digital manometer by comparison method	0 to 200 mbar	0.20mbar

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126	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic pressure (gauge, manometer, differential gauge, transmitter, transducer, magnehalic gauge, pressure switch) (Digital/Analog)	Using standard digital pressure calibrator by comparison method	-2000 pa to 2000 pa	2.67pa
127	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (gauge, transmitter, transducer, pressure switch) (digital/analog) - pneumatic	Using standard digital pressure gauge & pressure comparator by comparison method	0 to 3 bar	0.0028bar
128	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (gauge, transmitter, transducer, pressure switch) (digital/analog) - pneumatic	Using standard digital pressure gauge & pressure comparator by comparison method	0 to 30 bar	0.04bar
129	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (gauge, transmitter, transducer, pressure switch) (Analog/Digital) - Hydraulic	Using standard digital pressure gauge & pressure comparator by comparison method	0 to 1000 bar	0.63bar

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130	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (gauge, transmitter, transducer, pressure switch) (Analog/Digital) - Hydraulic	Using standard digital pressure gauge & pressure comparator by comparison method	0 to 70 bar	0.045bar
131	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum (Gauge, Transmitter, transducer (Digital / Analog)	using standard digital pressure gauge by comparison method	-0.95 bar to 0	0.0025bar
132	MECHANICAL-TORQUE GENERATING DEVICES	Torque Screw Driver Type I : Class D, E Type II: Class D, E, F	Using Digital Torque Tester as per IS: 16906	1 Nm to 10 Nm	2.01% rdg
133	MECHANICAL-WEIGHING SCALE AND BALANCE	Balance (Resolution 0.0001 mg or coarser)	Using E1 class standard weights as per OIML R76-1	0 to 2.2 g	0.004mg
134	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability 0.001 mg & Coarser)	Using E1 class standard weights as per OIML R76-1	0 to 22 g	0.01mg
135	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability 0.01 g & Coarser)	Using E1 & F1 class standard weights as per OIML R76-1	0 to 6 kg	0.01g
136	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability 0.01 mg & Coarser)	Using E1 class standard weights as per OIML R76-1	0 to 250 g	0.07mg

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137	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability 0.1 g & Coarser)	Using E1 & F1 class standard weights as per OIML R76-1	0 to 12 kg	0.06g
138	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability 1 g & Coarser)	Using F1 class standard weights as per OIML R76-1	0 to 100 kg	0.8g
139	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability 1 mg) & Coarser	Using E1 & F1 class standard weights as per OIML R76-1	0 to 1000 g	0.002g
140	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability 10 g & Coarser)	Using F1 & M1 class standard weights as per OIML R76-1	0 to 500 kg	28g
141	THERMAL-SPECIFIC HEAT & HUMIDITY	Cold Chamber, Environment Chamber, Stability Chamber, Centrifuged Chamber, Cold Room, (Multi-locations, Multiple Sensors, Temperature Uniformity, Thermal Mapping) @ (25 +/-2°C) °C	Using Multi-point Data Logger with multiple RH sensors/Inbuilt Data Loggers. (Multi-Point Calibration)	5 % RH to 95 % RH	0.85% RH

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142	THERMAL-SPECIFIC HEAT & HUMIDITY	Cold Chamber, Environment Chamber, Stability Chamber, Centrifuged Chamber, Cold Room, (Multi-locations, Multiple Sensors, Temperature Uniformity, Thermal Mapping)	Using Multiple RTD Sensors with Super DAQ/Data Loggers.(minimum nine sensors) (Multi-Point Calibration)	-80 °C to 300 °C	0.31°C
143	THERMAL-SPECIFIC HEAT & HUMIDITY	Environment Chamber / Humidity Chamber/Humidity Source (Humidity Calibrator /Generator Chamber) (Stability and Uniformity) @(25 +/-2°C) °C	Using STD. RH Sensor with Indicator, (Single Point Calibration)	5 % RH to 95 % RH	0.85% RH

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144	THERMAL-SPECIFIC HEAT & HUMIDITY	Environment Chamber / Humidity Chamber/Humidity Source, (Humidity Calibrator /Generator Chamber)(Multi-locations, Multiple Sensors, Temperature Uniformity Survey, Thermal Mapping) @(25 +/-2°C) °C	Using Multi-point Data Logger with multiple RH sensors/ Data Loggers (Inbuilt Sensors),(Multi-Point Calibration)	5 % RH to 95 % RH	0.85% RH
145	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & RH sensor with/without Indicator, Thermo-hygrometer, Data Logger with Internal/External Sensor @ (50+/-2)% RH	Using SPRT/RTD with Fluke Super DAQ, Low Temperature Chamber	-5 °C to 50 °C	0.2°C
146	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & RH sensor with/without Indicator, Thermo-hygrometer, Data Logger with Internal/External Sensor@ (25 +/-2°C) °C	Using Std. RH Sensor with Indicator & RH Calibrator by comparison method.	0.5 % RH to 95 %RH	0.5% RH

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147	THERMAL-TEMPERATURE	Blackbody Source/ IR Thermal Sources/Blackbody Sources @ emissivity 0.95	Using 4 Wire RTD with Fluke Super DAQ by comparison method	35 °C to 50 °C	0.2°C
148	THERMAL-TEMPERATURE	Blackbody Source/ IR Thermal Sources/Blackbody Sources @ emissivity 0.95	Using 4 Wire RTD with Fluke Super DAQ by comparison method	50 °C to 500 °C	1.77°C
149	THERMAL-TEMPERATURE	Calibration of Dry Block Calibrators, Metrology Well (Stability & Uniformity)	Using SPRT/ PRT with Fluke Super DAQ by comparison method	>200 °C to 660 °C	1.09°C
150	THERMAL-TEMPERATURE	Calibration of High Temperature Furnace/Metrology Wells/ Dry Block calibrators, Thermal Sources (Stability & Uniformity)	Using Standard Type-S/N Thermocouple with Fluke Super DAQ/ 61/2 Digit DMM by comparison method	>660 °C to 1200 °C	1.40°C
151	THERMAL-TEMPERATURE	Calibration of Liquid Baths, Dry Block Calibrators,Metrology Well , Thermal Sources (Stability & Uniformity)	Using SPRT/ PRT with Fluke Super DAQ by comparison method	(-)95 °C to 140 °C	0.057°C

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152	THERMAL-TEMPERATURE	Calibration of Liquid Baths, Dry Block Calibrators,Metrology Well , Thermal Sources (Stability & Uniformity)	Using SPRT/ PRT with Fluke Super DAQ by comparison method	>140 °C to 200 °C	0.054°C
153	THERMAL-TEMPERATURE	Indicator of Thermal Sources (Oven, Dry Block Furnaces, Dry Block calibrators, Muffle Furnace, Chamber, Dry Block calibrators) (Stability & Uniformity)	Using SPRT/PRT with Fluke Super DAQ by comparison method,(Single Point calibration)	>300 °C to 660 °C	1.10°C
154	THERMAL-TEMPERATURE	Indicator of Thermal Sources (Dry Block Furnaces, Metrology Well,Chambers, Dry Block calibrators, Muffle Furnace) (Stability & Uniformity)	Using Type-S/N Thermocoupleswith Fluke Super DAQ by comparison method,(Single Point calibration)	>660 °C to 1200 °C	1.39°C
155	THERMAL-TEMPERATURE	Indicator of Thermal Sources (Liquid Bath, Dry Block Furnaces, Dry Block calibrators) (Stability & Uniformity)	Using SPRT/ PRT with Fluke Super DAQ by comparison method, (Single Point calibration)	(-)196 °C to 0	0.14°C

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156	THERMAL-TEMPERATURE	Indicator of Thermal Sources of (Oven, Environmental Chambers/Furnaces/ Heating Chambers/ Incubators & BOD Incubators, Cold Room, (Stability & Uniformity)	Using Fluke SPRT, PRT with Fluke Super DAQ by comparison method (Single Point calibration)	0 to 300 °C	1.10 °C
157	THERMAL-TEMPERATURE	IR Thermometer/ IR Gun/Radiation Pyrometer/ IR Detector/ Thermal Imagers/ Laser pointed/IR Pyrometer @ emissivity 0.95	Using Radiation Pyrometer/Portable IR Calibrator by comparison method	50 °C to 500 °C	1.77°C
158	THERMAL-TEMPERATURE	IR Thermometer/Infrared Body Temperature Thermometer @ emissivity 0.95	Using Blackbody Source and 4 Wire RTD sensor with Super DAQ By Comparison Method	34 °C to 50 °C	0.75°C
159	THERMAL-TEMPERATURE	Liquid in Glass ThermometerThermometers	Using Fluke SPRT with Fluke Super DAQ/ Liquid Temp Bath by Comparison Method	(-)80 °C to 300°C	0.1°C

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160	THERMAL-TEMPERATURE	Temperature Indicator of Thermal Sources, Baths / Cyro bath, N2 Freezer / Liquid Nitrogen Bath	Using SPRT/ PRT with Fluke Super DAQ by comparison method,(Single Point calibration) by comparison method.	(-)196 °C	0.14°C
161	THERMAL-TEMPERATURE	Temperature Sensor with/without Indicator, Temperature& RH Data Logger, Temperature & RH Data Logger with/without indicator, Data Logger (Inbuilt Sensor), Temperature Inbuilt Sensor, thermo-hygrometer	Using SPRT/RTD (4 Wire) with Fluke Super DAQ, Low Temperature Chamber	(-)25 °C to 50 °C	0.2°C
162	THERMAL-TEMPERATURE	Temperature Transmitter, RTD's and Thermocouples with & without (Controller/Indicator/ Data Logger/Recorder/ Scanner), Temperature Gauge & Digital Thermometer	Using Fluke SPRT with Fluke Super DAQ/Liquid Nitrogen Bath/Field Metrology Well, By Comparison Method	(-)196 °C to (-)95 °C	0.14°C

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163	THERMAL-TEMPERATURE	Temperature Transmitter, RTD's and Thermocouples with & without (Controller/Indicator/ Data Logger/Recorder/ Scanner), Temperature Gauge & Digital Thermometer	Using Fluke SPRT with Fluke Super DAQ/ Field Metrology Well/ Liquid Temperature Bath / by Comparison Method	>(-)95 °C to 140 °C	0.10 °C to 0.04°C
164	THERMAL-TEMPERATURE	Temperature Transmitter, RTD's and Thermocouples with & without (Controller/Indicator/ Data Logger/Recorder/ Scanner), Temperature Gauge & Digital Thermometer	Using Fluke SPRT with Fluke Super DAQ/ Liquid Temp Bath by Comparison Method	>140 °C to 200 °C	0.054°C

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165	THERMAL-TEMPERATURE	Temperature Transmitter, RTD's and Thermocouples with & without (Controller/Indicator/ Data Logger/Recorder/ Scanner), Temperature Gauge & Digital Thermometer	Using Fluke SPRT with Fluke Super DAQ/ Dry Block by Comparison Method	200 °C to 660 °C	0.45°C
166	THERMAL-TEMPERATURE	Temperature Transmitter, RTD's and Thermocouples with & without (Controller/Indicator/ Data Logger/Recorder/ Scanner), Temperature Gauge Digital Thermometer	Using Fluke SPRT with Fluke Super DAQ /Liquid Nitrogen Bath, By Comparison Method	(-)196 °C	0.14°C
167	THERMAL-TEMPERATURE	Thermal Sources of (Furnaces/ Spatial Thermal Mapping (Multi-locations, Multiple Sensors, Temperature Uniformity Survey (TUS), Thermal Mapping)	Using Multiple N-Type Thermocouples Sensor with Fluke Super DAQ.(minimum nine thermocouples) (Multi-Point Calibration)	>300 °C to 1200 °C	1.9°C

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168	THERMAL-TEMPERATURE	Thermal Sources of (Freezers, Deep Freezer, Cold Chamber, Environmental Chambers, Cold Room, Walking Chiller (Multi-locations, Multiple Sensors, Temperature Uniformity Survey (TUS), Thermal Mapping)	Using Multiple RTD Sensors with Super DAQ.(minimum nine sensors)by mapping method	(-)80 °C to 0 °C	0.31°C
169	THERMAL-TEMPERATURE	Thermal Sources of (Freezers, Deep Freezer, Cold Chamber, Environmental Chambers, Cold Room, Walking Chiller (Multi-locations, Multiple Sensors, Temperature Uniformity Survey(TUS), Thermal Mapping)	Using Multiple RTD Sensors with Super DAQ.(Multi-Point Calibration)	0 to 300 °C	0.31°C

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170	THERMAL-TEMPERATURE	Thermocouples, Temperature Transmitter with & without (Controller/Indicator/ /Recorder/ Scanner), Data Logger & Digital Thermometer	Using Type S Thermocouple with Fluke Super DAQ/ Dry Block Furnace by Comparison Method.	> 660 °C to 1200 °C	0.96°C

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