



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ECO GREEN LABS INDIA PVT LTD, PLOT NO.: 100( GROUND FLOOR) & 109, NEW SIDCO INDUSTRIAL ESTATE,SRI NAGAR, HOSUR, KRISHNAGIRI, TAMIL NADU, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2688

**Page No**

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**Validity**

30/05/2021 to 29/05/2023

**Last Amended on**

01/06/2021

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 to 1 kHz)	Using 7 ½ Digit Multimeter 34470A by Direct Method	1 A to 10 A	0.00315 A to 0.023 A
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz to 1 kHz)	Using 7 ½ Digit Multimeter 34470A by Direct Method	100 mA to 1 A	0.169 mA to 0.00315 A
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current / (50 Hz to 1 kHz)	Using 7 ½ Digit Multimeter 34470A by Direct Method	1 mA to 100 mA	0.00316 mA to 0.169 mA
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz to 1 kHz)	Using 7 ½ Digit Multimeter 34470A by Direct Method	1 V to 100 V	0.00094 V to 0.093 V



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz to 1 kHz)	Using 7 ½ Digit Multimeter 34470A by Direct Method	10 mV to 100 mV	0.025 mV to 0.116 mV
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz to 1 kHz)	Using 7 ½ Digit Multimeter 34470A by Direct Method	100 mV to 1 V	0.116 mV to 0.00094 V
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz to 1 kHz)	Using 7 ½ Digit Multimeter 34470A by Direct Method	100 V to 750 V	0.093 V to 0.709 V
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz to 1 kHz)	Using Fluke 5500A Multi-Product Calibrator & Current Coil by Direct Method	1 A to 10 A	0.00154 A to 0.0406 A
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz to 1 kHz)	Using Fluke 5500A Multi-Product Calibrator & Current Coil by Direct Method	1 mA to 100 mA	0.00202 mA to 0.142 mA



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz to 1 kHz)	Using Fluke 5500A Multi-Product Calibrator & Current Coil by Direct Method	10 A to 550 A	0.0406 A to 2.011 A
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz to 1 kHz)	Using Fluke 5500A Multi-Product Calibrator & Current Coil by Direct Method	100 mA to 1 A	0.142 mA to 0.00154 A
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50 Hz to 1 kHz)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	1 mV to 10 mV	0.028 mV to 0.0422 mV
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50 Hz to 1 kHz)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	1 V to 10 V	0.00045 V to 0.00556 V
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50 Hz to 1 kHz)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	10 mV to 100 mV	0.0422 mV to 0.041 mV
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50 Hz to 1 kHz)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	10 V to 100 V	0.00556 V to 0.068 V



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16	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage (50 Hz to 1 kHz)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	100 mV to 1 V	0.041 mV to 0.00045 V
17	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage (50 Hz to 1 kHz)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	100 V to 1000 V	0.068 V to 0.686 V
18	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance (1 kHz)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	1 nF to 10 nF	0.018 nF to 0.0732 nF
19	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance (1 kHz)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	10 nF to 330 nF	0.0732 nF to 1.373 nF
20	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance (1 kHz)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	330 nF to 1 µF	1.373 nF to 0.0046 µF
21	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 7 ½ Digit Multimeter 34470A by Direct Method	1 A to 10 A	0.0011 A to 0.0151 A



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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 7 ½ Digit Multimeter 34470A by Direct Method	1 mA to 10 mA	0.00067 mA to 0.0083 mA
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 7 ½ Digit Multimeter 34470A by Direct Method	10 mA to 100 mA	0.0083 mA to 0.066 mA
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 7 ½ Digit Multimeter 34470A by Direct Method	100 mA to 1 A	0.066 mA to 0.0011 A
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 7 ½ Digit Multimeter 34470A by Direct Method	1 mV to 100 mV	0.00023 mV to 0.012 mV
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 7 ½ Digit Multimeter 34470A by Direct Method	1 V to 10 V	0.000064 V to 0.000546 V
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 7 ½ Digit Multimeter 34470A by Direct Method	10 V to 100 V	0.000546 V to 0.0072 V



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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 7 ½ Digit Multimeter 34470A by Direct Method	100 mV to 1 V	0.012 mV to 0.000064 V
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 7 ½ Digit Multimeter 34470A by Direct Method	100 V to 1000 V	0.0072 V to 0.072 V
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 7 ½ Digit Multimeter 34470A by Direct Method	1 kilo ohm to 100 kilo ohm	0.00007 kilo ohm to 0.0071 kilo ohm
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 7 ½ Digit Multimeter 34470A by Direct Method	1 Mega ohm to 100 Mega ohm	0.00010 Mega ohm to 0.47 Mega ohm
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 7 ½ Digit Multimeter 34470A by Direct Method	1 ohm to 10 ohm	0.006 ohm to 0.00143 ohm
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 7 ½ Digit Multimeter 34470A by Direct Method	10 ohm to 100 ohm	0.00143 ohm to 0.0131 ohm



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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 7 ½ Digit Multimeter 34470A by Direct Method	100 kilo ohm to 1 Mega ohm	0.0071 kilo ohm to 0.00010 Mega ohm
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 7 ½ Digit Multimeter 34470A by Direct Method	100 ohm to 1 kilo ohm	0.0131 ohm to 0.00007 kilo ohm
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5500A Multi-Product Calibrator & Current Coil by Direct Method	1 A to 10 A	0.00041 A to 0.00735 A
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5500A Multi Product Calibrator & Current Coil by Direct Method	1 mA to 100 mA	0.00121 mA to 0.0185 mA
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5500A Multi-Product Calibrator & Current Coil by Direct Method	10 A to 550 A	0.00735 A to 1.932 A
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5500A Multi-Product Calibrator & Current Coil by Direct Method	100 mA to 1 A	0.0185 mA to 0.00041 A



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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Fluke 5500A Multi-Product Calibrator by Direct Method	1 mV to 100 mV	0.00503 mV to 0.011 mV
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Fluke 5500A Multi Product Calibrator by Direct Method	1 V to 10 V	0.00586 V to 0.00121 V
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Fluke 5500A Multi-Product Calibrator by Direct Method	10 V to 100 V	0.00121 V to 0.00716 V
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Fluke 5500A Multi Product Calibrator by Direct Method	100 mV to 1 V	0.011 mV to 0.00586 V
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Fluke 5500A Multi Product Calibrator by Direct Method	100 V to 1000 V	0.00716 V to 0.0676 V
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fluke 5500A Multi-Product Calibrator by Direct Method	1 kilo ohm to 100 kilo ohm	0.069 kilo ohm to 0.02049 kilo ohm



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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fluke 5500A Multi-Product Calibrator by Direct Method	1 Mega ohm to 100 Mega ohm	0.00062 Mega ohm to 0.583 Mega ohm
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fluke 5500A Multi-Product Calibrator by Direct Method	1 ohm to 10 ohm	0.0226 ohm to 0.0134 ohm
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fluke 5500A Multi-Product Calibrator by Direct Method	10 ohm to 100 ohm	0.0134 ohm to 0.030 ohm
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fluke 5500A Multi-Product Calibrator by Direct Method	100 kilo ohm to 1 Mega ohm	0.02049 kilo ohm to 0.00062 mega ohm
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fluke 5500A Multi-Product Calibrator by Direct Method	100 ohm to 1 kilo ohm	0.030 ohm to 0.069 kilo ohm
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Resistance Temperature Detector (PT-100)	Using 7 ½ Digit Multimeter 34470A by Direct Method	-200 °C to 800 °C	0.091°C



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52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (B-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	600 °C to 800 °C	0.78°C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (B-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	800 °C to 1800 °C	0.71°C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (E-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	-100 °C to 1000 °C	0.27°C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (E-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	-250 °C to -100 °C	0.59°C
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (J-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	100 °C to 1200 °C	0.27°C
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (J-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	-200 °C to 100 °C	0.32°C



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58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (K-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	100 °C to 1300 °C	0.46°C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (K-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	-200 °C to 100 °C	0.38°C
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (N-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	-100 °C to 1300 °C	0.32°C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (N-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	-200 °C to -100 °C	0.47°C
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (R-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	100 °C to 1700 °C	0.48°C
63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (S-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	100 °C to 1700 °C	0.56°C



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64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (T-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	100 °C to 400 °C	0.18°C
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (T-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	-250 °C to 100 °C	0.73°C
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Resistance Temperature Detector (PT-100)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	100 °C to 800 °C	0.27°C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Resistance Temperature Detector (PT-100)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	-200 °C to 100 °C	0.10°C
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (B-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	600 °C to 800 °C	0.78°C
69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (B-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	800 °C to 1800 °C	0.71°C



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71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (E-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	-250 °C to -100 °C	0.59°C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (J-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	100 °C to 1200 °C	0.27°C
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (J-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	-200 °C to 100 °C	0.32°C
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (K-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	100 °C to 1300 °C	0.46°C
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (K-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	-200 °C to 100 °C	0.39°C



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76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (N-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	-100 °C to 1300 °C	0.32°C
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (N-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	-200 °C to -100 °C	0.47°C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (R-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	100 °C to 1700 °C	0.48°C
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (S-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	100 °C to 1700 °C	0.56°C
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (T-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	100 °C to 400 °C	0.18°C
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (T-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	-250 °C to 100 °C	0.73°C



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82	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Digital Timer	Using Digital Timer CT6S-2P by Comparison Method	1 sec to 86400 sec	0.15 sec to 10.16 sec
83	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 7 ½ Digit Multimeter 34470A by Direct Method	10 Hz to 100 Hz	0.0099 Hz to 0.0351 Hz
84	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 7 ½ Digit Multimeter 34470A by Direct Method	100 Hz to 100 kHz	0.0351 Hz to 0.067 kHz
85	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 7 ½ Digit Multimeter 34470A by Direct Method	100 kHz to 300 kHz	0.067 kHz to 0.1189 kHz
86	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Fluke 5500A Multi-Product Calibrator by Direct Method	10 Hz to 100 kHz	0.00586 Hz to 0.00289 kHz



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87	FLUID FLOW-FLOW MEASURING DEVICES	Flow Rate (Gas Medium Nitrogen) Digital Flow Meter, Rotameters, Mass Flow Meter, Dry Gas Meter	Using Molbloc with RFM by Comparison Method	>10 lpm to 50 lpm	1.01% rdg
88	FLUID FLOW-FLOW MEASURING DEVICES	Flow Rate (Gas Medium) Digital Flow Meter, Rotameters, Mass Flow Meter, Dry Gas Meter	Using Molbloc with RFM by Comparison Method	0.5 lpm to 10 lpm	0.45lpm
89	FLUID FLOW-FLOW MEASURING DEVICES	Velocity Anemometer	Using Standard Vane Anemometer by Comparison Method	1.5 m/s to 3 m/s	6.79 %rdg to 4.09 %rdg
90	FLUID FLOW-FLOW MEASURING DEVICES	Velocity Anemometer, Pitot tube	Using Standard L-Type by Comparison Method	>3 m/s to 31 m/s	7.7 % rdg to 1.3 %rdg
91	MECHANICAL-ACCELERATION AND SPEED	Contact Tachometer, Rpm Speed Indicator with Sensor	Using Digital Tachometer and Tachometer Calibrator as a Source by Comparison Method	100 to 6000 RPM	1.6RPM



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92	MECHANICAL-ACCELERATION AND SPEED	Non-Contact Tachometer, Rpm Speed Indicator with Sensor	Using Digital Tachometer and Tachometer Calibrator as a Source by Comparison Method	> 10000 to 50000 RPM	2.6RPM
93	MECHANICAL-ACCELERATION AND SPEED	Non-Contact Tachometer, Rpm Speed Indicator with Sensor	Using Digital Tachometer and Tachometer Calibrator as a Source by Comparison Method	> 50000 to 90000 RPM	5.8RPM
94	MECHANICAL-ACCELERATION AND SPEED	Non-Contact Tachometer, Rpm Speed Indicator with Sensor	Using Digital Tachometer and Tachometer Calibrator as a Source by Comparison Method	60 to 10000 RPM	2.6RPM
95	MECHANICAL-ACOUSTICS	Sound Level Meter (1 kHz)	Using Sound Level Calibrator by Direct Method	94 dB & 114 dB	0.40dB
96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	'V' Block (Flatness, Parallelism, Symmetry)	Using Lever Dial Gauge, Straight Mandrel, Surface Plate by Comparison Method	L x W x H =(200 mm x 125	2 μm



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97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center (Co-axiality, Parallelism)	Using Cylindrical Mandrel and Lever Dial Gauge by Direct Method	0 to 300 mm	2.6µm
98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor L.C:1 minutes of arc	Using Profile Projector by Comparison Method	0 to 360 °	3.4arc minutes
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (Transmission Only) / 0.001 mm	Using ULM by Comparison Method	0 to 2 mm	1.2µm
100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Meter/Gauge / L.C:0.1 µm	Using Master Thickness Foils by Comparison Method	5 µm to 1 mm	1.2µm
101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set L.C: 1°	Using Profile Projector by Direct Method	0 to 180 °	34.9minutes of arc



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102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand / Dial Gauge Stand(Flatness)	Using Lever Dial by Comparison Method	300 mm X 300 mm	1.6µm
103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cross-Hatch Tester (Pitch)	Using Profile Projector by Direct Method	0 to 4 mm	3.2µm
104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Master / OD Master	Using Universal Length Measuring Machine by Comparison Method	0.1 mm to 100 mm	0.59µm
105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer / L.C:0.01 mm	Using Depth Micro Checker by Comparison Method	0 to 300 mm	6.4µm
106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Vernier Caliper / L.C:0.01 mm	Using Depth Micro Checker by Comparison Method	0 to 300 mm	8.0µm



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107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Vernier Caliper / L.C:0.02 mm	Using Depth Micro Checker by Comparison Method	0 to 600 mm	10.2 µm
108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge	Using Slip Gauge by Comparison Method	0.5 mm to 100 mm	0.92µm
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge / L.C:0.001 mm	Using Slip Gauge by Comparison Method	0 to 25 mm	0.79 µm
110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Probe, DRO / L.C: 0.0001 mm	Using Slip Gauge by Comparison Method	0 to 25 mm	0.17µm
111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Parallel	Using Granite Surface Plate,Gauge Block & Lever Dial Gauge/Electronic Level by Comparison Method	0 to 300 mm	3.1µm



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112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer / L.C: 0.001 mm	Using Slip gauges by Comparison Method	0 to 100 mm	0.8 µm
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer / L.C: 0.001 mm	Using Slip Gauges by Comparison Method	100 mm to 600 mm	3.5µm
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Digital Micrometer by Comparison Method	0.01 mm to 2 mm	2.8 µm
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Groove Dial Gauges / L.C:0.01 mm	Using Slip Gauges, Long Slip Guges & Slip Gauge Accessories by Comparison Method	1 mm to 150 mm	4.3µm
116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge / L.C: 0.01 mm	Using Slip Gauge, Caliper Checker by Comparison Method	0 to 1000 mm	8.4 µm



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117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer/Stick Micrometer / L.C: 0.01 mm	Using Universal Length Measuring System. Long Slip Gauges by Comparison Method	0 to 600 mm	4.8µm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge / L.C:0.001 mm	Using Universal Length Measuring Machine by Comparison Method	0 to 1 mm	0.75µm
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge / L.C:0.01 mm	Using Universal Length Measuring Machine by Comparison Method	0 to 2 mm	2.9µm
120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Foils	Using Universal Length Measuring Machine by Comparison Method	5 µm to 2 mm	0.5 µm
121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin / Thread Measuring Wire (Grade: 1 & Coarser)	Using Universal Length Measuring Machine by Comparison Method	0.17 mm to 20 mm	0.49µm



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122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head / L.C: 0.002 mm	Using Slip Gauge by Comparison Method	0 to 100 mm	3.6µm
123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod / Length Bar	Using Slip Gauge, ULM by Comparison Method	0.5 mm to 600 mm	3.7 µm
124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Millimess Dial Indicator L.C:0.001 mm	Using Universal Length Measuring Machine by Comparison Method	0 to ± 0.05 mm	0.76µm
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Millimess Dial Indicator L.C:0.01 mm	Using Universal Length Measuring Machine by Comparison Method	0 to ± 0.5 mm	2.9µm
126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Millimess Dial Indicator / L.C:0.0005 mm	Using Universal Length Measuring Machine by Comparison Method	0 to (±) 0.03 mm	0.50µm



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127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pi Tape	Using Tape and Scale Calibrator by Comparison Method	0 to 30 m	290 v(L/1000) μm Where L in mm
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper / L.C:0.1 mm	Using Slip Gauge by Comparison Method	0 to 300 mm	43.6μm
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain / Adjustable Snap Gauge	Using Universal Length Measuring Machine by Comparison Method	100 mm to 200 mm	2.3μm
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain / Adjustable Snap Gauge	Using Universal Length Measuring Machine by Comparison Method	2 mm to 100 mm	1.1 μm
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain / Setting / Air Plug gauge	Using Universal Length Measuring Machine by Comparison Method	0.1 mm to 100 mm	0.59 μm



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132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain / Setting / Air Plug Gauge	Using Universal Length Measuring Machine by Comparison Method	100 mm to 300 mm	2.7µm
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain / Setting / Master / Air Ring Gauge	Using Universal Length Measuring Machine by Comparison Method	100 mm to 300 mm	3.0 µm
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain/ Setting / Master / Air Ring Gauge	Using Universal Length Measuring Machine by Comparison Method	2 mm to 100 mm	1.1µm
135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge / L.C: 0.001 mm	Using Universal Length Measuring Machine by Comparison Method	0 to 25 mm	0.76µm
136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge L.C: 0.001 mm	Using Universal Length Measuring Machine by Comparison Method	0 to 100 mm	0.87µm



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137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Profile Projector by Direct Method	1 mm to 25 mm	3.7µm
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Screw Pitch Gauge	Using Profile Projector by Comparison Method	0.25 mm to 25 mm	3.2µm
139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sieves	Using Profile Projector by Comparison Method	0.032 mm to 10 mm	3.2µm
140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Scale / L.C: 1 mm	Using Tape and Scale Calibrator by Direct Method	0 to 1000 mm	0.14 mm / m
141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Precession Sprit Level by Comparison Method	2500 mm x 2000 mm	6.1 x Sqrt ((WxL)/150) µm (L & W in mm)



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142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tape/Steel Scale / L.C: 1 mm	Using Tape and Scale Calibrator by Comparison Method	1 m to 30 m	320v(L/1000)µm Where L in mm
143	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge(Effective Diameter Only)	Using Universal Length Measuring Machine & Thread Measuring Wire by Comparison Method	3 mm to 100 mm	0.75µm
144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Pitch Diameter Only)	Using Universal Length Measuring Machine by Comparison Method	1.5 mm to 100 mm	0.76 µm
145	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug gauge (Pitch Diameter Only)	Using Universal Length Measuring Machine by Comparison Method	100 mm to 200 mm	2.1µm
146	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Pitch Diameter Only)	Using Universal Length Measuring Machine by Comparison Method	Ø 3 mm to Ø 100 mm	1.0 µm



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147	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three-Point Micrometer L.C: 0.001 mm	Using Master Ring Gauge by Comparison Method	3 mm to 100 mm	1.7µm
148	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge / L.C:0.01 mm	Using Slip Gauges by Comparison Method	5 mm to 100 mm	8.7 µm
149	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper / L.C: 0.01 mm	Using Slip Gauge, Caliper Checker by Comparison Method	0 to 1000 mm	8.8µm
150	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wet Film Thickness	Using Profile Projector by Direct Method	0 to 3000 µm	3.3µm
151	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width gauge	Using Digital Micrometer by Comparison Method	1 mm to 25 mm	2.9µm



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152	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge / L.C: 0.0001 mm	Using Length Bar & Gauge Block by Comparison Method	0 to 600 mm	6.0µm
153	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Set	Using Gauge Block Calibrator, Gauge Block Set by Comparison Method	> 25 to 50 mm	0.14µm
154	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Set	Using Gauge Block Calibrator, Gauge Block Set by Comparison Method	> 50 to 100 mm	0.20 µm
155	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Set	Using Gauge Block Calibrator, Gauge Block Set by Comparison Method	0.5 to 25 mm	0.10 µm
156	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine / ULM / L.C: 0.0001 mm	Using Slip Gauge Block Set, Long Slip Gauge Block by Comparison Method by Comparison Method	> 100 to 500 mm	3.9µm
157	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine / ULM / L.C: 0.0001 mm	Using Slip Gauge Block Set, Long Slip gauge Block by Comparison Method	0 to 100 mm	1.0µm



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158	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Long Slip Gauge	Using Universal Length Measuring Machine & Long Gauge Block Set by Comparison Method	100 to 500 mm	3.6µm
159	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Spirit Level L.C: 0.01mm/m Base Length up to 300 mm	Using Electronic Level and Tilting Table by Comparison Method	0 +/- 0.200 mm/m	6.7µm/m
160	MECHANICAL-HARDNESS TESTING MACHINES	Rubber Hardness Tester for Spring Force Calibration.	Using Rubber Hardness Tester Calibrator as per Based on ASTM D2240-15	0 to 100 Shore A/Shore D	1.4Shore A / Shore D
161	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge-(Dial/Digital/Transducer/Transmitter)	Using Digital Vacuum Calibrator & DMM as Read Unit for Transmitter as per Based on DKD-R6-1 Using Built in Pneumatic/Vacuum Pressure Pump.	0 to (-) 0.80 bar	0.01bar
162	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge-(Dial/Digital Pressure Calibrator/Pressure Transducer/Pressure transmitter)	Using Dead Weight Tester & DMM as Read Unit for Transmitter as per Based on DKD-R6-1	10 bar to 35 bar	0.13% rdg



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163	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure gauge-Pressure Gauge (Dial/Digital Pressure Calibrator/Pressure Transducer/Pressure Transmitter).	Using Dead Weight Tester & DMM as Read Unit for Transmitter as per Based on DKD-R6-1	35 bar to 1000 bar	0.027% rdg
164	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure-Pressure Gauge (Dial/Digital Pressure Calibrator/Pressure Transducers/Pressure Transmitter)	Using Digital Pressure Calibrator using Hydraulic Comparator & DMM as Read unit for Transmitter as per Based on DKD-R6-1 .	0 to 1000 bar	0.065% rdg
165	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure-Pressure Gauge (Dial/Digital/Transducers/Transmitter & Pressure Switches)	Using Digital Pressure calibrator & DMM as Read Unit for Transmitter as per Based on DKD-R6-1	0 to 20 bar	0.01bar
166	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench Type:1 (Class A,B,C,D & E ) Type: 2 (Class A,B,C,D,E,F & G)	Using Torque Sensors with Indicator as per Based on IS 16906:2018	1.5 Nm to 4 Nm	1.58%rdg
167	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench Type:1 (Class A,B,C,D & E ) Type: 2 (Class A,B,C,D,E,F & G)	Using Torque Sensors with Indicator as per Based on IS 16906:2018	20 Nm to 80 Nm	1.11% rdg



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168	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench Type:1 (Class A,B,C,D & E ) Type: 2 (Class A,B,C,D,E,F & G)	Using Torque Sensors with Indicator as per Based on IS 16906:2018	4 Nm to 20 Nm	0.37% rdg
169	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench Type:1 (Class A,B,C,D & E ) Type: 2 (Class A,B,C,D,E,F & G)	Using Torque Sensors with Indicator as per Based on IS 16906:2018	400 Nm to 2000 Nm	0.75% rdg
170	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench Type:1 (Class A,B,C,D & E ) Type: 2 (Class A,B,C,D,E,F & G)	Using Torque Sensors with Indicator as per Based on IS 16906:2018	80 Nm to 400 Nm	0.39% rdg
171	MECHANICAL-VOLUME	Measuring Cylinder/Measuring Jar	Using Weighing Balance with Distilled Water and Standard Weights & Calibration of Glassware based on Gravimetric method as per ISO 4787:2010	20 ml to 250 ml	0.043ml



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172	MECHANICAL-VOLUME	Burette d: 0.01 mg	Using Weighing Balance (Readability =0.01 mg) with Distilled Water and Standard Weights & Calibration of Glassware based on Gravimetric method as per ISO 4787:2010	50 ml to 100 ml	0.028ml
173	MECHANICAL-VOLUME	Burette/Pipettes d: 0.01 mg	Using Weighing Balance (Readability =0.01 mg) with Distilled Water and Standard Weights & Calibration of Glassware based on Gravimetric method as per ISO 4787:2010	0.1 ml to 1 ml	0.0014ml
174	MECHANICAL-VOLUME	Burette/Pipettes d: 0.01 mg	Using Weighing Balance (Readability =0.01 mg) with Distilled Water and Standard Weights & Calibration of Glassware based on Gravimetric method as per ISO 4787:2010	0.1 ml to 10 ml	0.005ml



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175	MECHANICAL-VOLUME	Burette/Pipettes d: 0.01 mg	Using Weighing Balance (Readability =0.01 mg) with Distilled Water and Standard Weights & Calibration of Glassware based on Gravimetric method as per ISO 4787:2010	0.1 ml to 2 ml	0.002ml
176	MECHANICAL-VOLUME	Burette/Pipettes d: 0.01 mg	Using Weighing Balance (Readability =0.01 mg) with Distilled Water and Standard Weights & Calibration of Glassware based on Gravimetric method as per ISO 4787:2010	0.1 ml to 25 ml	0.004ml
177	MECHANICAL-VOLUME	Burette/Pipettes d: 0.01 mg	Using Weighing Balance (Readability =0.01 mg) with Distilled Water and Standard Weights & Calibration of Glassware based on Gravimetric method as per ISO 4787:2010	0.1 ml to 5 ml	0.0017ml



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178	MECHANICAL-VOLUME	Burette/Pipettes d:0.01 mg	Using Weighing Balance (Readability =0.01 mg) with Distilled Water and Standard Weights & Calibration of Glassware based on Gravimetric method as per ISO 4787:2010	10 ml to 50 ml	0.010ml
179	MECHANICAL-VOLUME	Measuring Cylinder/Measuring Jar	Using Weighing Balance (Readability =0.01 mg ) with Distilled Water and Standard Weights & Calibration of Glassware based on Gravimetric method as per ISO 4787:2010	1 ml to 10 ml	0.004ml
180	MECHANICAL-VOLUME	Measuring Cylinder/Measuring Jar	Using Weighing Balance (Readability =1 mg ) with Distilled Water and Standard Weights & Calibration of Glassware based on Gravimetric method as per ISO 4787:2010	10 ml to 100ml	0.025ml



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181	MECHANICAL-VOLUME	Measuring Cylinder/Measuring Jar	Using Weighing Balance (Readability = 10 mg ) with Distilled Water and Standard Weights & Calibration of Glassware based on Gravimetric method as per ISO 4787:2010	100 ml to 1000ml	0.211ml
182	MECHANICAL-VOLUME	Measuring Cylinder/Measuring Jar	Using Weighing Balance (Readability =0.01 mg ) with Distilled Water and Standard Weights & Calibration of Glassware based on Gravimetric method as per ISO 4787:2010	2.5 ml to 25ml	0.011ml
183	MECHANICAL-VOLUME	Measuring Cylinder/Measuring Jar	Using Weighing Balance (Readability =0.01 mg ) with Distilled Water and Standard Weights & Calibration of Glassware based on Gravimetric method as per ISO 4787:2010	5 ml to 50ml	0.012ml



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184	MECHANICAL-VOLUME	Measuring Cylinder/Measuring Jar	Using Weighing Balance (Readability =1 mg ) with Distilled Water and Standard Weights & Calibration of Glassware based on Gravimetric method as per ISO 4787:2010	50 ml to 500 ml	0.064ml
185	MECHANICAL-VOLUME	Micro Pipettes d:0.01 mg	Using Weighing Balance (Readability =0.01mg) with and Distilled Water as per ISO 8655-6	1000 µl to 10000 µl	8.45µl
186	MECHANICAL-VOLUME	Micro Pipettes d:0.001 mg	Using Weighing Balance (Readability =0.001mg) with and Distilled Water as per ISO 8655-6	1 µl to 100 µl	0.04µl
187	MECHANICAL-VOLUME	Micro Pipettes d:0.001 mg	Using Weighing Balance (Readability =0.001mg) with and Distilled Water as per ISO 8655-6	100 µl to 1000 µl	0.32µl



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188	MECHANICAL-VOLUME	Volumetric Flask	Using Weighing Balance (Readability =0.01 mg) with Distilled Water and Standard Weights & Calibration of Glassware based on Gravimetric method as per ISO 4787:2010	50 ml	0.007ml
189	MECHANICAL-VOLUME	Volumetric Flask	Using Weighing Balance (Readability =0.01 mg) with Distilled Water and Standard Weights & Calibration of Glassware based on Gravimetric method as per ISO 4787:2010	10 ml	0.003ml
190	MECHANICAL-VOLUME	Volumetric Flask	Using Weighing Balance (Readability =0.01 mg) with Distilled Water and Standard Weights & Calibration of Glassware based on Gravimetric method as per ISO 4787:2010	100 ml	0.016ml



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191	MECHANICAL-VOLUME	Volumetric Flask	Using Weighing Balance (Readability =10 mg) with Distilled Water and Standard Weights & Calibration of Glassware based on Gravimetric method as per ISO 4787:2010	1000 ml	0.133ml
192	MECHANICAL-VOLUME	Volumetric Flask	Using Weighing Balance (Readability =0.01 mg) with Distilled Water and Standard Weights & Calibration of Glassware based on Gravimetric method as per ISO 4787:2010	20 ml to 25ml	0.008ml
193	MECHANICAL-VOLUME	Volumetric Flask	Using Weighing Balance (Readability =1 mg) with Distilled Water and Standard Weights & Calibration of Glassware based on Gravimetric method as per ISO 4787:2010	200 ml to 250 ml	0.033ml



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194	MECHANICAL-VOLUME	Volumetric Flask	Using Weighing Balance (Readability =10 mg) with Distilled Water and Standard Weights & Calibration of Glassware based on Gravimetric method as per ISO 4787:2010	2000 ml	0.24ml
195	MECHANICAL-VOLUME	Volumetric Flask	Using Weighing Balance (Readability =1 mg) with Distilled Water and Standard Weights & Calibration of Glassware based on Gravimetric method as per ISO 4787:2010	500 ml	0.07ml
196	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance d: 0.001 mg accuracy class I and coarser	Using E2 Class & F1 Class Standard Weights (1 mg to 200 g )& as per OIML R76-1	Upto 5 g	0.024mg
197	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance d: 0.01 mg accuracy class I and coarser	Using E2 Class & F1 Class Standard Weights (1 mg to 200 g) & as per OIML R76-1	Upto 100 g	0.10mg



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198	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance d: 0.1 mg accuracy class I and coarser	Using E2 Class & F1 Class Standard Weights (1 mg to 200 g )& as per OIML R76-1	upto 220 g	0.14mg
199	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance d: 1 mg accuracy class II and coarser	Using F1 Class Standard Weights( 500 g to 20 kg )& Calibration of Weighing Balances as per OIML R76-1	upto 1000 g	0.002g
200	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance d: 10 mg accuracy class II and coarser	Using F1 Class Standard Weights (500 g to 20 kg) & Calibration of Weighing Balances as per OIML R76-1	upto 5200 g	0.02g
201	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance d: 0.1 g accuracy class II and coarser	Using F1 Class Standard Weights (500 g to 20 kg )& Calibration of Weighing Balances as per OIML R76-1	Upto 30 kg	0.25g
202	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance d: 10 g accuracy class III and coarser	Using F1 Class Standard Weights 20 kg & Calibration of Weighing Balances as per OIML R76-1	Upto 100 kg	5.78g



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203	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance d: 10 g accuracy class III and coarser	Using F1 Class Standard Weights 20 kg & Calibration of Weighing Balances as per OIML R76-1	upto 300 kg	18g
204	MECHANICAL-WEIGHTS	Standard Weights (F1 Class & Coarser)	Using E2 Class Standard Weights 1 mg to 200 g & Electronic Balances d=0.001 mg by as per OIML R111-1	1 g	0.011mg
205	MECHANICAL-WEIGHTS	Standard Weights (F1 Class & Coarser)	Using E2 Class Standard Weights 1 mg to 200 g & Electronic Balances d=0.001 mg by as per OIML R111-1	1 mg	0.006mg
206	MECHANICAL-WEIGHTS	Standard Weights (F1 Class & Coarser)	Using E2 Class Standard Weights 1 mg to 200 g & Weighing Balance d=0.01/0.1 mg by as per OIML R111-1	10 g	0.054mg
207	MECHANICAL-WEIGHTS	Standard Weights (F1 Class & Coarser)	Using E2 Class Standard Weights 1 mg to 200 g & Electronic Balances d=0.001 mg by as per OIML R111-1	10 mg	0.006mg



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208	MECHANICAL-WEIGHTS	Standard Weights (F1 Class & Coarser)	Using E2 Class Standard Weights 1 mg to 200 g & Weighing Balance d=0.01/0.1 mg by as per OIML R111-1	100 g	0.14mg
209	MECHANICAL-WEIGHTS	Standard Weights (F1 Class & Coarser)	Using E2 Class Standard Weights 1 mg to 200 g & Electronic Balances d=0.001 mg by as per OIML R111-1	100 mg	0.013mg
210	MECHANICAL-WEIGHTS	Standard Weights (F1 Class & Coarser)	Using E2 Class Standard Weights 1 mg to 200 g & Electronic Balances d=0.001 mg by as per OIML R111-1	2 g	0.028mg
211	MECHANICAL-WEIGHTS	Standard Weights (F1 Class & Coarser)	Using E2 Class Standard Weights 1 mg to 200 g & Electronic Balances d=0.001 mg by as per OIML R111-1	2 mg	0.006mg
212	MECHANICAL-WEIGHTS	Standard Weights (F1 Class & Coarser)	Using E2 Class Standard Weights 1 mg to 200 g & Weighing Balance d=0.01/0.1 mg by as per OIML R111-1	20 g	0.030mg



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213	MECHANICAL-WEIGHTS	Standard Weights (F1 Class & Coarser)	Using E2 Class Standard Weights 1 mg to 200 g & Electronic Balances d=0.001 mg by as per OIML R111-1	20 mg	0.008mg
214	MECHANICAL-WEIGHTS	Standard Weights (F1 Class & Coarser)	Using E2 Class Standard Weights 1 mg to 200 g & Weighing Balance d=0.01/0.1 mg by as per OIML R111-1	200 g	0.35mg
215	MECHANICAL-WEIGHTS	Standard Weights (F1 Class & Coarser)	Using E2 Class Standard Weights 1 mg to 200 g & Electronic Balances d=0.001 mg by as per OIML R111-1	200 mg	0.013mg
216	MECHANICAL-WEIGHTS	Standard Weights (F1 Class & Coarser)	Using E2 Class Standard Weights 1 mg to 200 g & Electronic Balances d=0.001 mg by as per OIML R111-1	5 g	0.054mg
217	MECHANICAL-WEIGHTS	Standard Weights (F1 Class & Coarser)	Using E2 Class Standard Weights 1 mg to 200 g & Electronic Balances d=0.001 mg by as per OIML R111-1	5 mg	0.006mg



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218	MECHANICAL-WEIGHTS	Standard Weights (F1 Class & Coarser)	Using E2 Class Standard Weights 1 mg to 200 g & Weighing Balance d=0.01/0.1 mg by as per OIML R111-1	50 g	0.036mg
219	MECHANICAL-WEIGHTS	Standard Weights (F1 Class & Coarser)	Using E2 Class Standard Weights 1 mg to 200 g & Electronic Balances d=0.001 mg by as per OIML R111-1	50 mg	0.008mg
220	MECHANICAL-WEIGHTS	Standard Weights (F1 Class & Coarser)	Using E2 Class Standard Weights 1 mg to 200 g & Electronic Balances d=0.001 mg by as per OIML R111-1	500 mg	0.011mg
221	MECHANICAL-WEIGHTS	Standard Weights (F2 Class & Coarser)	Using F1 Class Standard Weights 500 g to 1 kg & Weighing Balances d=0.1 mg by as per OIML R111-1	1 kg	6.5mg
222	MECHANICAL-WEIGHTS	Standard Weights (F2 Class & Coarser)	Using F1 Class Standard Weights 2 kg to 5 kg & Weighing Balance d=10 mg by as per OIML R111-1	2 kg	13 mg



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223	MECHANICAL-WEIGHTS	Standard Weights (F2 Class & Coarser)	Using F1 Class Standard Weights 10 kg to 20 kg & Weighing Balance d=0.1 g by as per OIML R111-1	20 kg	284mg
224	MECHANICAL-WEIGHTS	Standard Weights (F2 Class & Coarser)	Using F1 Class Standard Weights 2 kg to 5 kg & Weighing Balance d=10 mg by as per OIML R111-1	5 kg	13mg
225	MECHANICAL-WEIGHTS	Standard Weights (M1 Class & Coarser)	Using F1 Class Standard Weights 500 g to 1 kg & Weighing Balance d=0.1 mg by as per OIML R111-1:2004	500 g	6.5mg
226	MECHANICAL-WEIGHTS	Standard Weights (M2 Class & Coarser)	Using F1 Class Standard Weights 10 kg to 20 kg & Electronic Balances d=0.1 g by as per OIML R111-1	10 kg	284mg
227	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo / Hygro Meter	Using Digital Temperature / Humidity meter & Temperature / Humidity chamber as source by Comparison Method	20%Rh to 95%Rh @25°C	0.71 % Rh



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228	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo /Hygro-Meter	Using Digital Temperature / Humidity meter & Temperature / Humidity chamber as source by Comparison Method	10°C to 60°C @60 %Rh	0.20 °C
229	THERMAL-TEMPERATURE	Dry Block Calibrators	Using RTD Sensor, Temperature Calibrator by Comparison Method.	>100 °C to 300 °C	0.21°C
230	THERMAL-TEMPERATURE	Dry Block Calibrators	Using RTD Sensor, Temperature Calibrator by Comparison Method.	>300 °C to 600 °C	0.87°C
231	THERMAL-TEMPERATURE	Dry Block Calibrators	Using Thermocouples, Documenting Process Calibrator by Comparison Method.	>600 °C to 1200 °C	1.52°C
232	THERMAL-TEMPERATURE	Dry Block Calibrators	Using RTD Sensor, Temperature Calibrator by Comparison Method.	-25 °C to 100 °C	0.05°C
233	THERMAL-TEMPERATURE	Glass Thermometer	Using RTD Sensor, Temperature Calibrator and Oil Bath by Comparison Method	>100 °C to 300 °C	1.19°C



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234	THERMAL-TEMPERATURE	Glass Thermometer	Using RTD Sensor, Temperature Calibrator and Oil Bath by Comparison Method.	-10 °C to 100 °C	0.30°C
235	THERMAL-TEMPERATURE	IR Thermometer	Using Standard IR Thermometer by Comparison Method (Emissivity of IR Thermometer & Black Body Calibrator : 0.95)	50 °C to 500 °C	1.04°C
236	THERMAL-TEMPERATURE	Thermocouple, RTDs, Temperature Controller With Sensor, Temperature Transmitter With Sensor, Data Logger With Sensor, Temperature Recorder With Sensor, Temperature Gauges.	Using PRT with Indicator, Temperature Baths by Comparison Method.	>150 °C to 300 °C	0.47°C



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237	THERMAL-TEMPERATURE	Thermocouple, RTDs, Temperature Controller With Sensor, Temperature Transmitter With Sensor, Data Logger With Sensor, Temperature Recorder With Sensor, Temperature Gauges.	Using PRT with Indicator, Temperature Baths by Comparison Method.	>300 °C to 600 °C	0.70°C
238	THERMAL-TEMPERATURE	Thermocouple, RTDs, Temperature Controller With Sensor, Temperature Transmitter With Sensor, Data Logger With Sensor, Temperature Recorder With Sensor, Temperature Gauges.	Using Thermocouples, Temperature Baths, Documenting Process Calibrator by Comparison Method.	>600 °C to 1200°C	1.53°C



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239	THERMAL-TEMPERATURE	Thermocouple, RTDs, Temperature Controller With Sensor, Temperature Transmitter With Sensor, Data Logger With Sensor, Temperature Recorder With Sensor, Temperature Gauges.	Using PRT with Indicator, Temperature Baths by Comparison Method.	-25 °C to 150 °C	0.10°C



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz to 1 kHz)	Using 7 ½ Digit Multimeter 34470A by Direct Method	1 A to 10 A	0.00315 A to 0.023 A
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz to 1 kHz)	Using 7 ½ Digit Multimeter 34470A by Direct Method	100 mA to 1 A	0.169 mA to 0.00315 A
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current / (50 Hz to 1 kHz)	Using 7 ½ Digit Multimeter 34470A by Direct Method	1 mA to 100 mA	0.00316 mA to 0.169 mA
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz to 1 kHz)	Using 7 ½ Digit Multimeter 34470A by Direct Method	1 V to 100 V	0.00094 V to 0.093 V



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz to 1 kHz)	Using 7 ½ Digit Multimeter 34470A by Direct Method	10 mV to 100 mV	0.025 mV to 0.116 mV
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz to 1 kHz)	Using 7 ½ Digit Multimeter 34470A by Direct Method	100 mV to 1 V	0.116 mV to 0.00094 V
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz to 1 kHz)	Using 7 ½ Digit Multimeter 34470A by Direct Method	100 V to 750 V	0.093 V to 0.709 V
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz to 1 kHz)	Using Fluke 5500A Multi-Product Calibrator & Current Coil by Direct Method	1 A to 10 A	0.00154 A to 0.0406 A
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz to 1 kHz)	Using Fluke 5500A Multi-Product Calibrator & Current Coil by Direct Method	1 mA to 100 mA	0.00202 mA to 0.142 mA



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz to 1 kHz)	Using Fluke 5500A Multi-Product Calibrator & Current Coil by Direct Method	10 A to 550 A	0.0406 A to 2.011 A
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz to 1 kHz)	Using Fluke 5500A Multi-Product Calibrator & Current Coil by Direct Method	100 mA to 1 A	0.142 mA to 0.00154 A
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50 Hz to 1 kHz)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	1 mV to 10 mV	0.028 mV to 0.0422 mV
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50 Hz to 1 kHz)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	1 V to 10 V	0.00045 V to 0.00556 V
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50 Hz to 1 kHz)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	10 mV to 100 mV	0.0422 mV to 0.041 mV
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50 Hz to 1 kHz)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	10 V to 100 V	0.00556 V to 0.068 V



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16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50 Hz to 1 kHz)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	100 mV to 1 V	0.041 mV to 0.00045 V
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50 Hz to 1 kHz)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	100 V to 1000 V	0.068 V to 0.686 V
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance (1 kHz)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	1 nF to 10 nF	0.018 nF to 0.0732 nF
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance (1 kHz)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	10 nF to 330 nF	0.0732 nF to 1.373 nF
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance (1 kHz)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	330 nF to 1 µF	1.373 nF to 0.0046 µF
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 7 ½ Digit Multimeter 34470A by Direct Method	1 A to 10 A	0.0011 A to 0.0151 A



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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 7 ½ Digit Multimeter 34470A by Direct Method	1 mA to 10 mA	0.00067 mA to 0.0083 mA
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 7 ½ Digit Multimeter 34470A by Direct Method	10 mA to 100 mA	0.0083 mA to 0.066 mA
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 7 ½ Digit Multimeter 34470A by Direct Method	100 mA to 1 A	0.066 mA to 0.0011 A
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 7 ½ Digit Multimeter 34470A by Direct Method	1 mV to 100 mV	0.00023 mV to 0.012 mV
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 7 ½ Digit Multimeter 34470A by Direct Method	1 V to 10 V	0.000064 V to 0.000546 V
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 7 ½ Digit Multimeter 34470A by Direct Method	10 V to 100 V	0.000546 V to 0.0072 V



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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 7 ½ Digit Multimeter 34470A by Direct Method	100 mV to 1 V	0.012 mV to 0.000064 V
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 7 ½ Digit Multimeter 34470A by Direct Method	100 V to 1000 V	0.0072 V to 0.072 V
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 7 ½ Digit Multimeter 34470A by Direct Method	1 kilo ohm to 100 kilo ohm	0.00007 kilo ohm to 0.0071 kilo ohm
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 7 ½ Digit Multimeter 34470A by Direct Method	1 Mega ohm to 100 Mega ohm	0.00010 Mega ohm to 0.47 Mega ohm
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 7 ½ Digit Multimeter 34470A by Direct Method	1 ohm to 10 ohm	0.006 ohm to 0.00143 ohm
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 7 ½ Digit Multimeter 34470A by Direct Method	10 ohm to 100 ohm	0.00143 ohm to 0.0131 ohm



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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 7 ½ Digit Multimeter 34470A by Direct Method	100 kilo ohm to 1 Mega ohm	0.0071 kilo ohm to 0.00010 Mega ohm
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 7 ½ Digit Multimeter 34470A by Direct Method	100 ohm to 1 kilo ohm	0.0131 ohm to 0.00007 kilo ohm
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5500A Multi-Product Calibrator & Current Coil by Direct Method	1 A to 10 A	0.00041 A to 0.00735 A
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5500A Multi Product Calibrator & Current Coil by Direct Method	1 mA to 100 mA	0.00121 mA to 0.0185 mA
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5500A Multi-Product Calibrator & Current Coil by Direct Method	10 A to 550 A	0.00735 A to 1.932 A
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5500A Multi-Product Calibrator & Current Coil by Direct Method	100 mA to 1 A	0.0185 mA to 0.00041 A



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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Fluke 5500A Multi-Product Calibrator by Direct Method	1 mV to 100 mV	0.00503 mV to 0.011 mV
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Fluke 5500A Multi Product Calibrator by Direct Method	1 V to 10 V	0.00586 V to 0.00121 V
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Fluke 5500A Multi-Product Calibrator by Direct Method	10 V to 100 V	0.00121 V to 0.00716 V
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Fluke 5500A Multi Product Calibrator by Direct Method	100 mV to 1 V	0.011 mV to 0.00586 V
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Fluke 5500A Multi Product Calibrator by Direct Method	100 V to 1000 V	0.00716 V to 0.0676 V
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fluke 5500A Multi-Product Calibrator by Direct Method	1 kilo ohm to 100 kilo ohm	0.069 kilo ohm to 0.02049 kilo ohm



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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fluke 5500A Multi-Product Calibrator by Direct Method	1 Mega ohm to 100 Mega ohm	0.00062 Mega ohm to 0.583 Mega ohm
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fluke 5500A Multi-Product Calibrator by Direct Method	1 ohm to 10 ohm	0.0226 ohm to 0.0134 ohm
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fluke 5500A Multi-Product Calibrator by Direct Method	10 ohm to 100 ohm	0.0134 ohm to 0.030 ohm
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fluke 5500A Multi-Product Calibrator by Direct Method	100 kilo ohm to 1 Mega ohm	0.02049 kilo ohm to 0.00062 mega ohm
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fluke 5500A Multi-Product Calibrator by Direct Method	100 ohm to 1 kilo ohm	0.030 ohm to 0.069 kilo ohm
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Resistance Temperature Detector (PT-100)	Using 7 ½ Digit Multimeter 34470A by Direct Method	-200 °C to 800 °C	0.091°C



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52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (B-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	600 °C to 800 °C	0.78°C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (B-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	800 °C to 1800 °C	0.71°C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (E-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	-100 °C to 1000 °C	0.27°C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (E-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	-250 °C to -100 °C	0.59°C
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (J-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	100 °C to 1200 °C	0.27°C
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (J-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	-200 °C to 100 °C	0.32°C



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58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (K-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	100 °C to 1300 °C	0.46°C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (K-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	-200 °C to 100 °C	0.38°C
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (N-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	-100 °C to 1300 °C	0.32°C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (N-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	-200 °C to -100 °C	0.47°C
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (R-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	100 °C to 1700 °C	0.48°C
63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (S-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	100 °C to 1700 °C	0.56°C



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64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (T-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	100 °C to 400 °C	0.18°C
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (T-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	-250 °C to 100 °C	0.73°C
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Resistance Temperature Detector (PT-100)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	100 °C to 800 °C	0.27°C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Resistance Temperature Detector (PT-100)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	-200 °C to 100 °C	0.10°C
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (B-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	600 °C to 800 °C	0.78°C
69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (B-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	800 °C to 1800 °C	0.71°C



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70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (E-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	-100 °C to 1000 °C	0.27°C
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (E-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	-250 °C to -100 °C	0.59°C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (J-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	100 °C to 1200 °C	0.27°C
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (J-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	-200 °C to 100 °C	0.32°C
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (K-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	100 °C to 1300 °C	0.46°C
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (K-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	-200 °C to 100 °C	0.39°C



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76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (N-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	-100 °C to 1300 °C	0.32°C
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (N-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	-200 °C to -100 °C	0.47°C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (R-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	100 °C to 1700 °C	0.48°C
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (S-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	100 °C to 1700 °C	0.56°C
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (T-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	100 °C to 400 °C	0.18°C
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (T-Type)	Using Fluke 5500A Multi-Product Calibrator by Direct Method	-250 °C to 100 °C	0.73°C



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82	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Digital Timer	Using Digital Timer CT6S-2P by Comparison Method	1 sec to 86400 sec	0.15 sec to 10.16 sec
83	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 7 ½ Digit Multimeter 34470A by Direct Method	10 Hz to 100 Hz	0.0099 Hz to 0.0351 Hz
84	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 7 ½ Digit Multimeter 34470A by Direct Method	100 Hz to 100 kHz	0.0351 Hz to 0.067 kHz
85	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 7 ½ Digit Multimeter 34470A by Direct Method	100 kHz to 300 kHz	0.067 kHz to 0.1189 kHz
86	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Fluke 5500A Multi-Product Calibrator by Direct Method	10 Hz to 100 kHz	0.00586 Hz to 0.00289 kHz
87	FLUID FLOW-FLOW MEASURING DEVICES	Flow Rate (Air Medium) Reparable Dust Sampler, High Volume Sampler	Using Top Load Orifice Calibrator by Comparison method	0.6 m <sup>3</sup> /min to 1.28 m <sup>3</sup> /min	2.23%rdg



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88	MECHANICAL-ACCELERATION AND SPEED	Centrifuge	Using Digital Tachometer by Comparison Method	60 rpm to 10000 rpm	1.9 rpm
89	MECHANICAL-ACCELERATION AND SPEED	Rpm Speed Indicator with Sensor	Using Digital Tachometer by Comparison Method	60 to 10000 RPM	1.9RPM
90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center (Co-axiality, Parallelism)	Using Cylindrical Mandrel and Lever Dial Gauge by Direct Method	0 to 300 mm	2.6µm
91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Precession Sprit Level by Comparison Method	2500 mm x 2000 mm	6.1 x Sqrt ((WxL)/150) µm (L & W in mm)
92	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge / L.C: 0.0001 mm	Using Length Bar & Gauge Block by Comparison Method	0 to 600 mm	6.0µm
93	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine / ULM / L.C: 0.0001 mm	Using Slip Gauge Block Set, Long Slip Gauge Block by Comparison Method	> 100 to 500 mm	3.9µm



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94	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine / ULM / L.C: 0.0001 mm	Using Slip Gauge Block Set, Long Slip gauge Block by Comparison Method	0 to 100 mm	1.0µm
95	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge-(Dial/Digital/Transducer/Transmitter)	Using Digital Vacuum Calibrator & DMM as Read Unit for Transmitter as per Based on DKD-R6-1 Using Built in Pneumatic/Vacuum Pressure Pump.	0 to (-) 0.80 bar	0.01bar
96	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure-Pressure Gauge (Dial/Digital Pressure Calibrator/Pressure Transducers/Pressure Transmitter)	Using Digital Pressure Calibrator using Hydraulic Comparator & DMM as Read unit for Transmitter as per Based on DKD-R6-1 .	0 to 1000 bar	0.065% rdg
97	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure-Pressure Gauge (Dial/Digital/Transducers/Transmitter & Pressure Switches)	Using Digital Pressure calibrator & DMM as Read Unit for Transmitter as per Based on DKD-R6-1	0 to 20 bar	0.01bar
98	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance d: 0.001 mg accuracy class I and coarser	Using E2 Class & F1 Class Standard Weights (1 mg to 200 g )& as per OIML R76-1	Upto 5 g	0.024mg



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99	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance d: 0.01 mg accuracy class I and coarser	Using E2 Class & F1 Class Standard Weights (1 mg to 200 g) & as per OIML R76-1	Upto 100 g	0.10mg
100	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance d: 0.1 mg accuracy class I and coarser	Using E2 Class & F1 Class Standard Weights (1 mg to 200 g) & as per OIML R76-1	upto 220 g	0.14mg
101	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance d: 1 mg accuracy class II and coarser	Using F1 Class Standard Weights( 500 g to 20 kg )& Calibration of Weighing Balances as per OIML R76-1	upto 1000 g	0.002g
102	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance d: 10 mg accuracy class II and coarser	Using F1 Class Standard Weights (500 g to 20 kg) & Calibration of Weighing Balances as per OIML R76-1	upto 5200 g	0.02g
103	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance d: 0.1 g accuracy class II and coarser	Using F1 Class Standard Weights (500 g to 20 kg )& Calibration of Weighing Balances as per OIML R76-1	Upto 30 kg	0.25g



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104	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance d: 10 g accuracy class III and coarser	Using F1 Class Standard Weights 20 kg & Calibration of Weighing Balances as per OIML R76-1	Upto 100 kg	5.78g
105	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance d: 10 g accuracy class III and coarser	Using F1 Class Standard Weights 20 kg & Calibration of Weighing Balances as per OIML R76-1	upto 300 kg	18g
106	THERMAL-TEMPERATURE	Dry Block Calibrators	Using RTD Sensor, Temperature Calibrator by Comparison Method.	>100 °C to 300 °C	0.21°C
107	THERMAL-TEMPERATURE	Dry Block Calibrators	Using RTD Sensor, Temperature Calibrator by Comparison Method.	>300 °C to 600 °C	0.87°C
108	THERMAL-TEMPERATURE	Dry Block Calibrators	Using Thermocouples, Documenting Process Calibrator by Comparison Method.	>600 °C to 1200 °C	1.52°C
109	THERMAL-TEMPERATURE	Dry Block Calibrators	Using RTD Sensor, Temperature Calibrator by Comparison Method.	-25 °C to 100 °C	0.05°C



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110	THERMAL-TEMPERATURE	Ovens, Freezer, Environmental Chamber, Furnace (Multi-position sensor)	Using Digital Data Loggers with RTD Sensor by Comparison Method	>600 °C to 1200 °C	2.88°C
111	THERMAL-TEMPERATURE	Ovens, Freezer, Environmental Chamber, Furnace, Fluid Bath & Autoclave(Industrial purpose only) (Multi-position sensor)	Using Digital Data Logger with RTD Sensor(minimum 9 sensor) by Comparison Method	>100 °C to 300 °C	0.37°C
112	THERMAL-TEMPERATURE	Ovens, Freezer, Environmental Chamber, Furnace, Incubators(Industrial purpose Only), Refrigerator, Fluid Bath & Autoclave (Industrial purpose Only) ( Multi-position sensor)	Using Digital Data Logger with RTD Sensor(Minimum 9 sensor) by Comparison Method	-25 °C to 100 °C	0.17°C
113	THERMAL-TEMPERATURE	Ovens, Freezer, Environmental Chamber, Furnace.(Multi-position sensor)	Using Digital Data Loggers with RTD Sensor(Minimum 9 sensor) by Comparison Method	>300 °C to 600 °C	2.81°C



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## SCOPE OF ACCREDITATION

**Laboratory Name :**

ECO GREEN LABS INDIA PVT LTD, PLOT NO.: 100( GROUND FLOOR) & 109, NEW SIDCO INDUSTRIAL ESTATE,SRI NAGAR, HOSUR, KRISHNAGIRI, TAMIL NADU, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2688

**Page No**

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**Validity**

30/05/2021 to 29/05/2023

**Last Amended on**

01/06/2021

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)(±)
114	THERMAL-TEMPERATURE	Sensor with Indicator of Furnace (Single Position calibration)	Using Thermocouple (R-Type), Documenting Process Calibrator by Comparison Method	>600 °C to 1200 °C	1.71°C
115	THERMAL-TEMPERATURE	Sensor with Indicator of Incubators , Ovens, Freezer, Refrigerator, Fluid Bath & Autoclave (Single Position calibration)	Using RTD Sensor, Temperature Calibrator by Comparison Method.	-25 °C to 100 °C	0.17°C
116	THERMAL-TEMPERATURE	Sensor with Indicator of Ovens, Furnace, Fluid Bath & Autoclave (Single Position )	Using RTD Sensor, Temperature Calibrator by comparison method	>100 °C to 600 °C	0.92°C



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117	THERMAL-TEMPERATURE	Thermocouple, RTDs, Temperature Controller With Sensor, Temperature Transmitter With Sensor, Data Logger With Sensor, Temperature Recorder With Sensor, Temperature Gauges.	Using PRT with Indicator, Temperature Baths by Comparison Method.	>150 °C to 300 °C	0.47°C
118	THERMAL-TEMPERATURE	Thermocouple, RTDs, Temperature Controller With Sensor, Temperature Transmitter With Sensor, Data Logger With Sensor, Temperature Recorder With Sensor, Temperature Gauges.	Using PRT with Indicator, Temperature Baths by Comparison Method.	>300 °C to 600 °C	0.70°C



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119	THERMAL-TEMPERATURE	Thermocouple, RTDs, Temperature Controller With Sensor, Temperature Transmitter With Sensor, Data Logger With Sensor, Temperature Recorder With Sensor, Temperature Gauges.	Using Thermocouples, Temperature Baths, Documenting Process Calibrator by Comparison Method.	>600 °C to 1200°C	1.53°C
120	THERMAL-TEMPERATURE	Thermocouple, RTDs, Temperature Controller With Sensor, Temperature Transmitter With Sensor, Data Logger With Sensor, Temperature Recorder With Sensor, Temperature Gauges.	Using PRT with Indicator, Temperature Baths by Comparison Method.	-25 °C to 150 °C	0.10°C

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