



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ACCURATE MEASUREMENTS, PLOT NO.103, D BLOCK, MEETHAPUR EXT.,
BADARPUR, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2286

Validity 23/12/2021 to 22/12/2023

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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 @ 50Hz to 1 kHz	Using Fluke 1732 Energy Logger by Comparison Method	10 A to 1000 A	1.5 % to 1.3 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50Hz to 1 kHz	Using Fluke 8846A 6½ Digit Multimeter by Comparison Method	30 µA to 10 A	0.47 % to 0.25 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50Hz to 1 kHz	Using Fluke 8846A 6½ Digit Multimeter by Comparison Method	1 mV to 1000 V	0.49 % to 0.096 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @1 kHz	Using Fluke 8846A 6½ Digit Multimeter by Comparison Method	1 nF to 100 µF	5.2 % to 1.8 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50Hz to 1 kHz	Using Fluke 5502A Multi-Product Calibrator with Current Coil by Direct Method	20 A to 1000 A	2.1 % to 0.77 %



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6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50Hz to 1 kHz	Using Fluke 5502A Multi-Product Calibrator by Direct Method	30 μ A to 20 A	0.57 % to 0.18 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz to 1 kHz	Using Fluke 5502A Multi-Product Calibrator by Direct Method	1 mV to 1000 V	0.56 % to 0.061 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active power @ 50Hz 10 V to 600 V 0.1 A to 20 A 0.1 PF to 1 PF (Lag & Lead)	Using Fluke 5502A Multi-Product Calibrator by Direct Method	0.1 W to 12 kW	1.45 % to 0.18 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @1kHz	Using Fluke 5502A Multi-Product Calibrator by Direct Method	1 nF to 100 μ F	0.7%
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @1kHz	Using Decade Capacitance Box by Direct Method	1 nF to 100 μ F	1.17%
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @1kHz	Using Decade Inductance Box by Direct Method	100 μ H to 1 H	1.16%



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12	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz, 240 V, 1 A (Lag & Lead)	Using Fluke 5502A Multi-Product Calibrator by Direct Method	0.2 PF to 1 PF	0.006 PF
13	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Fluke 8846A 6½ Digit Multimeter by Comparison Method	1 µA to 10 A	3.03 % to 0.18 %
14	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with 4½ Digit Multimeter by Comparison Method	1 kV to 5 kV	5.8%
15	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance (4 Wire / 2Wire)	Using Fluke 8846A 6½ Digit Multimeter by Direct Method	1 Ohm to 100 Ohm	0.36 % to 0.016 %
16	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance (4 Wire / 2Wire)	Using Fluke 8846A 6½ Digit Multimeter by Direct Method	100 Ohm to 1 GOhm	0.016 % to 2.3 %
17	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	Using Fluke 8846A 6½ Digit Multimeter by Comparison Method	1 mV to 1000 V	0.42 % to 0.006 %



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18	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5502A Multi-Product Calibrator by Direct Method	1 μ A to 3 A	0.15 % to 0.046 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5502A Multi-Product Calibrator With Current Coil by Direct Method	20 A to 1000 A	1.42 % to 0.65 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5502A Multi-Product Calibrator by Direct Method	3 A to 20 A	0.046 % to 0.32 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire / 2Wire)	Using Fluke 5502A Multi-Product Calibrator by Direct Method	1 Ohm to 3 MOhm	0.147 % to 0.02 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire / 2Wire)	Using Fluke 5502A Multi-Product Calibrator by Direct Method	3 MOhm to 1 GOhm	0.02 % to 1.79 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Discrete Standard 4 Wire Low Resistance Box by Direct Method	1 mohm to mOhm	0.96%



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24	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Discrete Standard 4 Wire Low Resistance Box by Direct Method	10μOhm	2.01%
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Discrete Standard 4 Wire Low Resistance Box by Direct Method	100μOhm	0.25%
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Discrete Standard 4 Wire Low Resistance Box by Direct Method	1000mOhm	0.14%
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Discrete Standard 4 Wire Low Resistance Box by Direct Method	100mOhm	0.14%
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Discrete Standard 4 Wire Low Resistance Box by Direct Method	10mOhm	0.15%
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Discrete Standard 4 Wire Low Resistance Box by Direct Method	50μOhm	0.5%



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30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Fluke 5502A Multi-Product Calibrator by Direct Method	1 mV to 1000 V	0.36 % to 0.007 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @Maximum Test Voltage 5000 V	Using Discrete High Resistance Box by Direct Method	100GOhm	10.23%
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @Maximum Test Voltage 5000 V	Using Discrete High Resistance Box by Direct Method	100MOhm	3.42%
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @Maximum Test Voltage 5000 V	Using Discrete High Resistance Box by Direct Method	10GOhm	4.25%
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @Maximum Test Voltage 5000 V	Using Discrete High Resistance Box by Direct Method	10MOhm	3.42%
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @Maximum Test Voltage 5000 V	Using Discrete High Resistance Box by Direct Method	1GOhm	4.17%



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36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @Maximum Test Voltage 5000 V	Using Discrete High Resistance Box by Direct Method	200MOhm	3.42%
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @Maximum Test Voltage 5000 V	Using Discrete High Resistance Box by Direct Method	500MOhm	4.17%
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @Maximum Test Voltage 5000 V	Using Discrete High Resistance Box by Direct Method	5MOhm	3.42%
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Single Phase DC power 10 V to 600 V 0.1 A to 20 A	Using Fluke 5502A Multi-Product Calibrator by Direct Method	1 W to 12 kW	1.18 % to 0.44 %
40	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Indicator/Controller/ Data Logger/ Recorder/Calibrator Input : B Type Thermocouple	Using Fluke 5502A Multi-Product Calibrator by Simulation Method	600 °C to 1800 °C	0.53°C



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41	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Indicator/Controller/ Data Logger/ Recorder/Calibrator Input : E Type Thermocouple	Using Fluke 5502A Multi-Product Calibrator by Simulation Method	-200 °C to 1200 °C	0.58°C
42	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Indicator/Controller/ Data Logger/ Recorder/Calibrator Input : J Type Thermocouple	Using Fluke 5502A Multi-Product Calibrator by Simulation Method	-200 °C to 1200 °C	0.31°C
43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Indicator/Controller/ Data Logger/ Recorder/Calibrator Input : K Type Thermocouple	Using Fluke 5502A Multi-Product Calibrator by Simulation Method	-200 °C to 1300 °C	0.46°C
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Indicator/Controller/ Data Logger/ Recorder/Calibrator Input : N Type Thermocouple	Using Fluke 5502A Multi-Product Calibrator by Simulation Method	-200 °C to 1300 °C	0.46°C
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Indicator/Controller/ Data Logger/ Recorder/Calibrator Input : R Type Thermocouple	Using Fluke 5502A Multi-Product Calibrator by Simulation Method	0 °C to 1750 °C	0.66°C



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46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Indicator/Controller/ Data Logger/ Recorder/Calibrator Input : RTD Type	Using Fluke 8846A 6½ Digit Multimeter by Simulation Method	-200 °C to 800 °C	0.37°C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Indicator/Controller/ Data Logger/ Recorder/Calibrator Input : S Type Thermocouple	Using Fluke 5502A Multi-Product Calibrator by Simulation Method	0 °C to 1750 °C	0.55°C
48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Indicator/Controller/ Data Logger/ Recorder/Calibrator Input : T Type Thermocouple	Using Fluke 5502A Multi-Product Calibrator by Simulation Method	-200 °C to 1200 °C	0.73°C
49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Indicator/Controller/ Data Logger/ Recorder/Calibrator Input : B Type Thermocouple	Using Fluke 5502A Multi-Product Calibrator by Simulation Method	600 °C to 1800 °C	0.51°C
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Indicator/Controller/ Data Logger/ Recorder/Calibrator Input : E Type Thermocouple	Using Fluke 5502A Multi-Product Calibrator by Simulation Method	-200 °C to 1200 °C	0.58°C



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51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Indicator/Controller/ Data Logger/ Recorder/Calibrator Input : J Type Thermocouple	Using Fluke 5502A Multi-Product Calibrator by Simulation Method	-200 °C to 1200 °C	0.32°C
52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Indicator/Controller/ Data Logger/ Recorder/Calibrator Input : K Type Thermocouple	Using Fluke 5502A Multi-Product Calibrator by Simulation Method	-200 °C to 1300 °C	0.5 °C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Indicator/Controller/ Data Logger/ Recorder/Calibrator Input : N Type Thermocouple	Using Fluke 5502A Multi-Product Calibrator by Simulation Method	-200 °C to 1300 °C	0.31°C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Indicator/Controller/ Data Logger/ Recorder/Calibrator Input : R Type Thermocouple	Using Fluke 5502A Multi-Product Calibrator by Simulation Method	0 °C to 1750 °C	0.66°C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Indicator/Controller/ Data Logger/ Recorder/Calibrator Input : RTD Type	Using Fluke 5502A Multi-Product Calibrator by Simulation Method	-200 °C to 800 °C	0.27°C



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56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Indicator/Controller/ Data Logger/ Recorder/Calibrator Input : S Type Thermocouple	Using Fluke 5502A Multi-Product Calibrator by Simulation Method	0 °C to 1750 °C	0.55°C
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Indicator/Controller/ Data Logger/ Recorder/Calibrator Input : T Type Thermocouple	Using Fluke 5502A Multi-Product Calibrator by Simulation Method	-200 °C to 1200 °C	0.73 °C
58	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Fluke 8846A 6½ Digit Multimeter by Comparison Method	10 Hz to 1000 kHz	0.035 % to 0.012 %
59	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Stop Watch (Mechanical/Digital)	Using Digital Time Interval Meter by Comparison Method	1 sec to 82800 sec	0.71 sec to 1.68 sec
60	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer (Mechanical/Digital)	Using Digital Time Interval Meter by Comparison Method	1 sec to 82800 sec	0.14 sec to 1.54 sec



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61	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Fluke 5502A Multi-Product Calibrator by Direct Method	10 Hz to 1000 kHz	0.014 % to 0.0001 %
62	MECHANICAL-ACCELERATION AND SPEED	Non-Contact Tachometer Stroboscope / RPM Source /(Source)/ Vibrating M/c / Centrifuge, Washing & Drying M/c (indicator/Source)	Using Digital Tachometer & Source By Comparison Method with using Motorized source with Strip	>1000 RPM to 10000 RPM	7.2 RPM
63	MECHANICAL-ACCELERATION AND SPEED	Non-Contact Tachometer Stroboscope / RPM Source /(Source)/ Vibrating M/c / Centrifuge, Washing & Drying M/c (indicator/Source)	Using Digital Tachometer & Source By Comparison Method with using Motorized source with Strip	>10000 RPM to 40000 RPM	8.3 RPM
64	MECHANICAL-ACCELERATION AND SPEED	Non-Contact Tachometer Stroboscope / RPM Source /(Source)/ Vibrating M/c / Centrifuge, Washing & Drying M/c (indicator/Source)	Using Digital Tachometer & Source By Comparison Method with using Motorized source with Strip	>40000 RPM to 60000 RPM	8.3 RPM



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65	MECHANICAL-ACCELERATION AND SPEED	Non-Contact Tachometer Stroboscope / RPM Source /(Source)/ Vibrating M/c / Centrifuge, Washing & Drying M/c (indicator/Source)	Using Digital Tachometer & Source By Comparison Method with using Motorized source with Strip	10 RPM to 1000 RPM	6.5 RPM
66	MECHANICAL-ACCELERATION AND SPEED	RPM Measurement / Tachometer (Contact)	Using Digital Tachometer & Source by Comparison Method	>1000 RPM to 5000 RPM	3.5 RPM
67	MECHANICAL-ACCELERATION AND SPEED	RPM Measurement / Tachometer (Contact)	Using Digital Tachometer & Source By Comparison Method	10 RPM to 1000 RPM	2 RPM
68	MECHANICAL-ACOUSTICS	Sound Level Meter (at 94 & 114 dB)	Using Sound Level Calibrator By Comparison Method	114 dB	0.49 dB
69	MECHANICAL-ACOUSTICS	Sound Level Meter (at 94 & 114 dB)	Using Sound Level Calibrator By Comparison Method	94 dB	0.42dB
70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Gauge	Using Slip Gauge Set '0' Grade / Digital Caliper	6.3 mm to 100mm	20µm



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71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Air Gauge Unit L.C.: 0.001 mm	Using Std. Air Plug and Std. Setting Rings	0 to ± 40 µm	2.5µm
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate (Flatness)	Using Dial Test Indicator, Slip Gauge Set '0' Grade & Master Cylinder By Comparison Method	50 mm to 300 mm	5µm
73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate (Squareness)	Using Dial Test Indicator, Slip Gauge Set '0' Grade & Master Cylinder By Comparison Method	50 mm to 300 mm	10 µm
74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center (Co-axiality)	Using Dial Test Indicator and Mandrel	100 mm to 600 mm	8 µm
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center (Parallelism)	Using Dial Test Indicator and Mandrel	100 mm to Upto 600 mm	5.3µm



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76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector L.C: 0.01° & Combination Set L.C 1°.	Using Angle Gauge Block Set By Comparison Method	0 to 360 °	0.57'
77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (Transmission Travel 1 mm) L.C.: 0.001 mm	Using Universal Length Measuring Machine (ULM) by Comparison Method	Upto 400mm	1µm
78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Tester/Gauge	Using Std. Thickness Foils by Comparison Method	10.30µm to 1015µm	2µm
79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand - Flatness	Using Dial Test Indicator with Screw Jack set	50 x 50 mm to 300 x 300 mm	2.7 µm
80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould	Using Digital Caliper	50 mm to 150 mm	40µm



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81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper / Gauge L.C.- 0.01 mm	Using Slip Gauge Set '0' Grade , Long Gauge Block & Surface Plate by Comparison Method	0 to 300 mm	7µm
82	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer L.C.- 0.001 mm	Using Slip Gauge Set '0' Grade & Surface Plate by Comparison Method	0 to 100 mm	1.5 µm
83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer L.C.- 0.01 mm	Using Slip Gauge Set '0' Grade, Long Gauge Block & Surface Plate by Comparison Method	100 mm to 300 mm	7µm
84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial / Digital Indicator (Lever Type) L.C.: 0.001 mm	Using Universal Length Measuring Machine (ULM) by Comparison Method	0 to 1 mm	1µm
85	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial / Digital Indicator (Plunger Type) L.C.: 0.001 mm	Using Universal Length Measuring Machine (ULM) by Comparison Method	0 to 25 mm	1µm



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86	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial / Digital Indicator (Plunger Type) L.C.: 0.001 mm	Using Universal Length Measuring Machine (ULM) by Comparison Method	25 mm to 100 mm	2µm
87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Calibration Tester L.C.: 0.0001 mm	Using Slip Gauge Set '0' Grade by Comparison Method	0 to 25 mm	0.45µm
88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial/Digital Thickness Gauge/Pistol Caliper L.C 0.01 mm	Using Slip Gauge Set '0' Grade	0 to 13 mm	8µm
89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial/Digital/Vernier Caliper L.C. - 0.01 mm	Using Slip Gauge Set '0' Grade, Slip Gauge Accessories & Caliper Checker by Comparison Method	0 to 300 mm	7µm
90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial/Digital/Vernier Caliper L.C. - 0.01 mm	Using Slip Gauge Set '0' Grade, Slip Gauge Accessories & Caliper Checker by Comparison Method	0 to 600 mm	8µm



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91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial/Mechanical/Digital Height Gauge L.C.: 0.01 mm	Using Slip Gauge Set '0' Grade & Caliper Checker by Comparison Method	0 to 600 mm	8.5µm
92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Probe / LVDT L.C.: 0.0001 mm	Using Universal Length Measuring Machine (ULM) by Comparison Method	0 to 25 mm	0.8µm
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Probe / LVDT L.C.: 0.001 mm	Using Universal Length Measuring Machine (ULM) by Comparison Method	0 to 50 mm	1.2µm
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Probe / LVDT L.C.: 0.01 mm	Using Universal Length Measuring Machine (ULM) by Comparison Method	0 to 100 mm	7 µm
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer Square /Right Angle (Tri Square) Flatness	Using Dial Test Indicator and Surface Plate	50 mm to 500 mm	4µm



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96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer Square /Right Angle (Tri Square) Right Angle Perpendicularity	Using Master Cylinder, Slip Gauge Set '0' Grade and Surface Plate	50 mm to 500 mm	8 µm
97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge / Thickness Foils	Using Universal Length Measuring Machine (ULM) by Comparison Method	0.01 mm to 2 mm	1.2µm
98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flakiness Gauge Length	Using Slip Gauge Set '0' Grade / Digital Caliper	25mm to 100 mm	20µm
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Caliper L.C.- 0.01 mm	Using Slip Gauge Set '0' Grade, Long Gauge Block & Slip Gauge Accessories by Comparison Method	5 mm to 300 mm	8µm
100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Micrometer L.C.- 0.001 mm	Using Slip Gauge Set '0' Grade, Long Gauge Block & Slip Gauge Accessories by Comparison Method	5 mm to 200 mm	2 µm



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101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Linear Height Gauge/2 D Height Gauge L.C.: 0.0001 mm	Using Slip Gauge Set '0' Grade & Caliper Checker by Comparison Method	0 to 600 mm	7 µm
102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod / Length Bar	Using Universal Length Measuring Machine (ULM) by Comparison Method	25 mm to 300 mm	2.8µm
103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside Micrometer L.C.- 0.0001 mm	Using Slip Gauge Set '0' Grade by Comparison Method	0 to 25 mm	0.4µm
104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside Micrometer L.C.- 0.001 mm	Using Slip Gauge Set '0' Grade, Long Gauge Block & Slip Gauge Accessories by Comparison Method	0 to 200 mm	2 µm
105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside/Inside Micrometer L.C.- 0.01 mm	Using Slip Gauge Set '0' Grade, Long Gauge Block & Slip Gauge Accessories by Comparison Method	200 mm to 500 mm	9 µm



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106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge/ Setting Plug Gauge/ Air Plug Gauge/ Width Gauge	Using Universal Length Measuring Machine (ULM) by Comparison Method	0.5 mm to 100 mm	2.5 µm
107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge/ Setting Plug Gauge/ Air Plug Gauge/ Width Gauge	Using Universal Length Measuring Machine (ULM) by Comparison Method	100 mm to 300 mm	3µm
108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge/ Setting Ring/ Air Ring Gauge (Diameter)	Using Universal Length Measuring Machine (ULM) by Comparison Method	100 mm to 300 mm	3.5µm
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge/ Setting Ring/ Air Ring Gauge (Diameter)	Using Universal Length Measuring Machine (ULM) by Comparison Method	3 mm to 100 mm	1.4µm
110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Profile Projector by Comparison Method	0.5 mm to 25 mm	7µm



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111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Receiving Gauge/ Profile Gauge / Profile of Work Piece -Angle (Angular Dimension)	Using Profile Projector	0 to 180 °	5.50'
112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Receiving Gauge/ Profile Gauge / Profile of Work Piece -Length(Length Measurements)	Using Profile Projector / Universal Length Measuring Machine	1 mm to 250 mm	11.77µm
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge - (GO & NOGO)	Using Slip Gauge Set '0' Grade	0.5 mm to 100 mm	1.2 µm
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge - (GO & NOGO)	Using Universal Length Measuring Machine (ULM) by Comparison Method	100 mm to 300 mm	3.5 µm
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sprit Level. Sensitivity: 0.02 mm/mtr	Using Tilting Plate & Electronic level L C 0.001mm/m	upto 200 mm Base length	12.40 µm/m



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116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Std. Mandrel Cylindricity	Using Universal Length Measuring Machine (ULM) & Dial Test Indicator By Comparison Method	50 mm to 300 mm (Dia. Upto 50 mm)	2 µm
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Std. Mandrel Run out	Using Universal Length Measuring Machine (ULM) & Dial Test Indicator By Comparison Method	50 mm to 300 mm (Dia. Upto 50 mm)	1 µm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Std. Mandrel Straightness	Using Universal Length Measuring Machine (ULM) & Dial Test Indicator By Comparison Method	50 mm to upto 300 mm (Dia. Upto 50 mm)	2 µm
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Std. Pin Gauge / Three Wire Set	Using Universal Length Measuring Machine (ULM) by Comparison Method	0.17 mm to 50 mm	1µm
120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Scale L.C.- 0.5 mm	Using Profile Projector by Comparison Method	0 to 250 mm	0.3mm



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121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Electronic Level	300mm x 300 mm to 4000mm x 4000 mm	1.3 x (sqrt L+W/150) µm (L & W in mm)
122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Plug Gauge - (Half Angle, Gauge Length, Major Dia., Minor Dia.)	Using Universal Length Measuring Machine (ULM) by Comparison Method	3 mm to 100 mm	2.5 µm
123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Plug Gauge - (Half Angle, Gauge Length, Major Dia., Minor Dia.)	Using Universal Length Measuring Machine (ULM) by Comparison Method	100 mm to 300 mm	3.5 µm
124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Ring Gauge - (Half Angle, Gauge Length, Major Dia., Minor Dia.)	Using Universal Length Measuring Machine (ULM) by Comparison Method	3 mm to 100 mm	2.8 µm
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale	Using Profile Projector by Comparison Method	0.5 mm to 15 mm	0.3 mm



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126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge - (Effective Dia, Major Dia , Taper Angle And Gauge Length)	Using Universal Length Measuring Machine (ULM) & Thread Measuring Wire Set by Comparison Method	3 mm to 300 mm	3.7 µm
127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge - (Effective Dia, Major Dia , Taper Angle And Gauge Length)	Using Universal Length Measuring Machine (ULM) by Comparison Method	3 mm to 100 mm	3 µm
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Profile Projector by Comparison Method	0.03 mm to 25 mm	6.76 µm
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Digital Caliper by Comparison Method	25 mm to 150 mm	25 µm
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge Angle	Using Profile Projector by Comparison Method	55° & 60 °	5'



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131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge	Using Profile Projector by Comparison Method	0.25 mm to 7 mm	7 µm
132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge L.C.- 0.1 mm	Using Slip Gauge Set '0' Grade By Comparison Method	0.5 mm to 300 mm	70 µm
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V - Block Flatness	Using Dial Test Indicator	50 mm to Upto 200 mm	6 µm
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V - Block Parallelism	Using Dial Test Indicator, Parallel Test Mandrel	50 mm to Upto 200 mm	6 µm
135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V - Block Squareness	Using Slip Gauge Set '0' Grade & Master Cylinder	50 mm to Upto 200 mm	6.8µm



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136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wear Check / Thread Plug Gauge	Using Universal Length Measuring Machine (ULM) & Thread Measuring Wire Set by Comparison Method	3 mm to 300 mm	3.5µm
137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wear Check /Thread Ring Gauge	Using Universal Length Measuring Machine (ULM) by Comparison Method	3 mm to 300 mm	3.4 µm
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Fillet Gauge - Angle	Using Profile Projector	upto 60 °	6.5'
139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Fillet Gauge - Length	Using Profile Projector	0 to 25 mm	10.069µm
140	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/VMM/Micro scope Angle Scale L.C. 0.01°	Using Angle Gauge Set by Comparison Method	0 to 360 °	30"



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141	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/VMM/Micro scope Magnification	Using Glass Scale & Digital Caliper by Comparison Method	10X to 100X	0.4%
142	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/VMM/Micro scope X/Y Axis Movement L.C. 0.001 mm	Using Glass Scale by Comparison Method	0 to 300 mm	5µm
143	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Specimen - Roughness Value - Ra	Using Surface Roughness Tester	0.41 µm to 3.2 µm	7%
144	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Tester (Portable & Standalone) - Ra, L.C 0.01 micron	Using Roughness Specimen Set (3 Nos.)	0.4 µm to 360 µm	8.8 %
145	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine L.C.- 0.0001 mm	Using Slip Gauge Set '0' Grade by Comparison Method	0 to 100 mm	1.5µm
146	MECHANICAL-DUROMETER	Rubber Hardness Tester for Spring Force	Using Digital Weighing Balance and fixture Based on ASTM D 2240 / ISO 18898	0 to 100 Shore A	0.8Shore A



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147	MECHANICAL-DUROMETER	Rubber Hardness Tester for Spring Force	Using Digital Weighing Balance and fixture Based on ASTM D 2240 / ISO 18898	0 to 100 Shore D	1.2 Shore D
148	MECHANICAL-FORCE PROVING INSTRUMENTS	Force / Load Cell /Proving Ring / Dynamometer (Class 1 and Coarser)	Using Dead Weight Force Machine as per IS 4169:2014 and ISO 376:2011	100 N to 2 kN	0.04 %
149	MECHANICAL-FORCE PROVING INSTRUMENTS	Force / Load Cell /Proving Ring / Dynamometer (Class 1 and Coarser)	Using Dead Weight Force Machine as per IS 4169:2014 and ISO 376:2011	5 N to 100 N	0.08 %
150	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Gauge/Force Gauge/Tension Gauge	Using Fixture, Frame, Hangers and Newtonian Weights on VDI/VDE 2624-2.1	10 N to 200 N	0.5N
151	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Gauge/Force Gauge/Tension Gauge	Using Fixture, Frame, Hangers and Newtonian Weights on VDI/VDE 2624-2.1	200 N to 2000 N	7.5 N



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152	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure -Hydraulic (Pressure Gauge, Pressure Indicator, Pressure Controller, Pressure Calibrator, Pressure Transmitter, Pressure Transducer, Pressure Switch, Pressure Recorder)	Using Precision Pressure Indicator & Hydraulic Pressure Tester by Comparison Method as per DKD-R-6-1	0 to 70 bar	0.047 bar
153	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure -Hydraulic (Pressure Gauge, Pressure Indicator, Pressure Controller, Pressure Calibrator, Pressure Transmitter, Pressure Transducer, Pressure Switch, Pressure Recorder)	Using Precision Pressure Indicator & Hydraulic Pressure Tester by Comparison Method as per DKD-R-6-1	0 to 700 bar	0.47 bar
154	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure -Pneumatic (Pressure Gauge /Indicator/ Controller, Pressure Calibrator, Pressure Transmitter /Transducer /Switch /Recorder, Leakage Tester, Manometer, Magnehelic gauge)	Using Precision Pressure Indicator & Pneumatic Pressure Pump by Comparison Method as per DKD-R-6-1	0 to 2 bar	0.002 bar



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155	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure -Pneumatic (Pressure Gauge /Indicator/Controller, Pressure Calibrator, Pressure Transmitter/Transducer/ Switch, Differential Gauge, Leakage Tester, Manometer, Magnehelic Gauge)	Using Digital Manometer with Precision Low Pressure Generator by Comparison Method	20 mbar to 100 mbar	0.21mbar
156	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure -Pneumatic (Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Transmitter, Pressure Switch, Leakage Tester, Manometer, Level Gauge, Magnehelic Gauge)	Using Digital Pressure Calibrator with Precision Low Pressure Generator by Comparison Method	0 to 2000 Pa	2.7Pa



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157	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure -Pneumatic (Pressure Gauge, Pressure Indicator, Pressure Controller, Pressure Calibrator, Pressure Transmitter, Pressure Transducer, Pressure Switch, Pressure Recorder)	Using Precision Pressure Indicator & Pneumatic Pressure Pump by Comparison Method as per DKD-R-6-1	0 to 20 bar	0.02bar
158	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum -Pneumatic (Vacuum Gauge, Vacuum Indicator, Vacuum Controller, Vacuum Calibrator, Vacuum Transmitter, Vacuum Transducer, Vacuum Switch, Vacuum Recorder)	Using Precision Pressure Indicator & Pressure Pump by Comparison Method as per ISO-3567 & ISO-27893/DKD-R-6-2	-0.9 bar to 0	0.003 bar
159	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench / Torque Screw Driver (Type-I)	Using Digital Torque Indicator with Sensor as per IS:16906	0.2 N.m to 2 N.m	2%
160	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench / Torque Screw Driver (Type-I)	Using Digital Torque Indicator with Sensor as per IS:16906	2 N.m to 200 N.m	0.9%



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161	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench / Torque Screw Driver (Type-I)	Using Digital Torque Indicator with Sensor as per IS:16906	200 N.m to 1000 N.m	1.8 %
162	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench / Torque Screw Driver (Type-II)	Using Digital Torque Indicator with Sensor as per IS:16906	0.2 N.m to 2 N.m	2.3%
163	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench / Torque Screw Driver (Type-II)	Using Digital Torque Indicator with Sensor as per IS:16906	2 N.m to 200 N.m	1.1%
164	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench / Torque Screw Driver (Type-II)	Using Digital Torque Indicator with Sensor as per IS:16906	200 N.m to 1000 N.m	1.5%
165	MECHANICAL-TORQUE MEASURING DEVICES	Torque Meter / Torque Transducer/Calibrators (Class 0.5 & Coarser)	Using Torque Calibration System with Pulley & AL Newtonian weights as per BS 7882	0.1 N.m to 5 N.m	0.059%
166	MECHANICAL-TORQUE MEASURING DEVICES	Torque Meter / Torque Transducer/Calibrators (Class 0.5 & Coarser)	Using Torque Calibration System with Lever Arm with SS Newtonian weights as per BS 7882	5 N.m to 200 N.m	0.053%



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167	MECHANICAL-VOLUME	Glass wares / Measuring Cylinder	Using Precision Weighing Balance (Readability 0.01 g) and Distilled Water of known density as per Gravimetric Method, ISO 8655-6 / IS/ISO 4787	>10 ml to 100 ml	0.2 ml
168	MECHANICAL-VOLUME	Glass wares / Measuring Cylinder	Using Precision Weighing Balance (Readability 0.01 g) and Distilled Water of known density as per Gravimetric Method, ISO 8655-6 / IS/ISO 4787	>1000 ml to 5000 ml	3.2 ml
169	MECHANICAL-VOLUME	Glass wares / Measuring Cylinder	Using Precision Weighing Balance (Readability 0.1 g) and Distilled Water of known density as per Gravimetric Method, ISO 8655-6 / IS/ISO 4787	>5000 ml to 10000 ml	3.2 ml



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170	MECHANICAL-VOLUME	Glass wares / Measuring Cylinder	Using Precision Weighing Balance (Readability 0.01 g) and Distilled Water of known density as per Gravimetric Method, ISO 8655-6 / IS/ISO 4787	0.1 ml to 10 ml	29 µl
171	MECHANICAL-VOLUME	Micro Pipette (Piston Operated)	Using Precision Weighing Balance (Readability 0.01 mg / 0.1 mg) and Distilled Water of known density as per Gravimetric Method, ISO 8655-6	>10 µl to 100 µl	0.36µl
172	MECHANICAL-VOLUME	Micro Pipette (Piston Operated)	Using Precision Weighing Balance (Readability 0.01 mg / 0.1 mg) and Distilled Water of known density as per Gravimetric Method, ISO 8655-6	>100 µl to 1000 µl	2.5µl



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173	MECHANICAL-VOLUME	Micro Pipette (Piston Operated)	Using Precision Weighing Balance (Readability 0.01 mg / 0.1 mg) and Distilled Water of known density as per Gravimetric Method, ISO 8655-6	>1000 µl to 10000 µl	43µl
174	MECHANICAL-VOLUME	Pipette / Burette	Using Precision Weighing Balance (Readability 0.01 mg / 0.1 mg) and Distilled Water of known density as per Gravimetric Method, IS/ISO 4787	>1 ml to 5 ml	29µl
175	MECHANICAL-VOLUME	Pipette / Burette	Using Precision Weighing Balance (Readability 0.01 mg / 0.1 mg) and Distilled Water of known density as per Gravimetric Method, IS/ISO 4787	>25 ml to 100 ml	0.2 ml



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176	MECHANICAL-VOLUME	Pipette / Burette	Using Precision Weighing Balance (Readability 0.01 mg / 0.1 mg) and Distilled Water of known density as per Gravimetric Method, IS/ISO 4787	>5 ml to 25 ml	11.4µl
177	MECHANICAL-VOLUME	Pipette / Burette	Using Precision Weighing Balance (Readability 0.01 mg / 0.1 mg) and Distilled Water of known density as per Gravimetric Method, IS/ISO 4787	0.5 ml to 1 ml	29µl
178	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance / Weighing Scale Readability : 0.001 mg	Using E1 Accuracy Class Standard Weights as per OIML R-76-1:2006	0 to 1 g	0.033 mg
179	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance / Weighing Scale Readability : 0.01 mg	Using E1 Accuracy Class Standard Weights as per OIML R-76-1:2006	0 to 3 g	0.05 mg
180	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance / Weighing Scale Readability : 0.01 mg	Using E1 Accuracy Class Standard Weights as per OIML R-76-1:2006	0 to 50 g	0.07 mg



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181	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance / Weighing Scale Readability : 0.1 mg	Using E1 Accuracy Class Standard Weights as per OIML R-76-1:2006	0 to 200 g	0.95 mg
182	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance / Weighing Scale Readability : 10 mg	Using F2 Accuracy Class Standard Weights as per OIML R-76-1:2006	0 to 5 kg	90 mg
183	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance / Weighing Scale Readability : 100 mg	Using F2 Accuracy Class Standard Weights as per OIML R-76-1:2006	0 to 20 kg	200mg
184	MECHANICAL-WEIGHTS	Single weight F2 Class & coarser	Using E1 Accuracy Class Standard Weights & Precision Weighing Balance (Readability 0.01 mg / 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1 :2004	1 mg	0.02 mg
185	MECHANICAL-WEIGHTS	Single weight F2 Class & coarser	Using E1 Accuracy Class Standard Weights & Precision Weighing Balance (Readability 0.01 mg / 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1 :2004	2 mg	0.10 mg



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186	MECHANICAL-WEIGHTS	Single weight F2 Class & coarser	Using E1 Accuracy Class Standard Weights & Precision Weighing Balance (Readability 0.01 mg / 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1 :2004	200 g	1 mg
187	MECHANICAL-WEIGHTS	Single weight F2 Class & coarser	Using E1 Accuracy Class Standard Weights & Precision Weighing Balance (Readability 0.01 mg / 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1 :2004	50g	0.37mg
188	MECHANICAL-WEIGHTS	Single weight M1 Class & coarser	Using E1 Accuracy Class Standard Weights & Precision Weighing Balance (Readability 0.01 mg / 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1 :2004	1 g	0.54 mg



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189	MECHANICAL-WEIGHTS	Single weight M1 Class & coarser	Using E1 Accuracy Class Standard Weights & Precision Weighing Balance (Readability 0.01 mg / 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1 :2004	10 g	0.54 mg
190	MECHANICAL-WEIGHTS	Single weight M1 Class & coarser	Using E1 Accuracy Class Standard Weights & Precision Weighing Balance (Readability 0.01 mg / 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1 :2004	100 mg	0.10 mg
191	MECHANICAL-WEIGHTS	Single weight M1 Class & coarser	Using E1 Accuracy Class Standard Weights & Precision Weighing Balance (Readability 0.01 mg / 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1 :2004	100g	0.37mg



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192	MECHANICAL-WEIGHTS	Single weight M1 Class & coarser	Using E1 Accuracy Class Standard Weights & Precision Weighing Balance (Readability 0.01 mg / 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1 :2004	20 g	0.54 mg
193	MECHANICAL-WEIGHTS	Single weight M1 Class & coarser	Using E1 Accuracy Class Standard Weights & Precision Weighing Balance (Readability 0.01 mg / 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1 :2004	20 mg	0.10 mg
194	MECHANICAL-WEIGHTS	Single weight M1 Class & coarser	Using E1 Accuracy Class Standard Weights & Precision Weighing Balance (Readability 0.01 mg / 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1 :2004	200 mg	0.2 mg



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195	MECHANICAL-WEIGHTS	Single weight M1 Class & coarser	Using E1 Accuracy Class Standard Weights & Precision Weighing Balance (Readability 0.01 mg / 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1 :2004	2g	0.54 mg
196	MECHANICAL-WEIGHTS	Single weight M1 Class & coarser	Using F2 Accuracy Class Standard Weights & Precision Weighing Balance (Readability 0.01 g) by Substitution Method (ABBA Cycle) as per OIML R-111-1 :2004	5 kg	457 mg
197	MECHANICAL-WEIGHTS	Single weight M1 Class & coarser	Using F2 Accuracy Class Standard Weights & Precision Weighing Balance (Readability 0.01 g) by Substitution Method (ABBA Cycle) as per OIML R-111-1 :2004	500 g	104 mg



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198	MECHANICAL-WEIGHTS	Single weight M1 Class & coarser	Using E1 Accuracy Class Standard Weights & Precision Weighing Balance (Readability 0.01 mg / 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1 :2004	500 mg	0.54 mg
199	MECHANICAL-WEIGHTS	Single weight M1 Class & coarser	Using E1 Accuracy Class Standard Weights & Precision Weighing Balance (Readability 0.01 mg / 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1 :2004	5g	0.54mg
200	MECHANICAL-WEIGHTS	Single weight M2 Class & coarser	Using F2 Accuracy Class Standard Weights & Precision Weighing Balance (Readability 0.01 g) by Substitution Method (ABBA Cycle) as per OIML R-111-1 :2004	1 kg	104 mg



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201	MECHANICAL-WEIGHTS	Single weight M2 Class & coarser	Using F2 Accuracy Class Standard Weights & Precision Weighing Balance (Readability 0.1 g) by Substitution Method (ABBA Cycle) as per OIML R-111-1 :2004	10 kg	400 mg
202	MECHANICAL-WEIGHTS	Single weight M2 Class & coarser	Using F2 Accuracy Class Standard Weights & Precision Weighing Balance (Readability 0.01 g) by Substitution Method (ABBA Cycle) as per OIML R-111-1 :2004	2 kg	104 mg
203	MECHANICAL-WEIGHTS	Single weight M2 Class & coarser	Using M1 Accuracy Class Standard Weights & Precision Weighing Balance (Readability 0.1 g) by Substitution Method (ABBA Cycle) as per OIML R-111-1 :2004	20 kg	400 mg



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204	MECHANICAL-WEIGHTS	Single weight M1 Class & coarser	Using E1 Accuracy Class Standard Weights & Precision Weighing Balance (Readability 0.01 mg / 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1 :2004	10 mg	0.10 mg
205	MECHANICAL-WEIGHTS	Single weight M1 Class & coarser	Using E1 Accuracy Class Standard Weights & Precision Weighing Balance (Readability 0.01 mg / 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1 :2004	50 mg	0.10 mg
206	MECHANICAL-WEIGHTS	Single weight M1 Class & coarser	Using E1 Accuracy Class Standard Weights & Precision Weighing Balance (Readability 0.01 mg / 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1 :2004	5mg	0.10 mg
207	OPTICAL- OPTICAL	Lux / Illuminance Meter / Light Meter	Using Standard Lux Meter by Substitution Method	10 lx to 2000 lx	3.14%



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208	OPTICAL- OPTICAL	Lux / Illuminance Meter / Light Meter	Using Standard Lux Meter by Substitution Method	2000 lx to 10000 lx	3.15%
209	THERMAL- SPECIFIC HEAT & HUMIDITY	Digital /Analog Thermo-Hygrometer, RH Sensor with indicator /Controller /Data Logger /Recorder (Relative Humidity) @ ~ 25°C	Using Temp. & Humidity Indicator with Sensor, Humidity Generator by Comparison Method	20 %RH to 95 %RH	2%RH
210	THERMAL- SPECIFIC HEAT & HUMIDITY	Digital /Analog Thermo-Hygrometer, RH Sensor with indicator /Controller /Data Logger /Recorder (Temperature) @ 50% RH	Using Temp. & Humidity Indicator with Sensor, Humidity Generator by Comparison Method	10 °C to 50 °C	0.3°C
211	THERMAL- TEMPERATURE	Non Contact/IR Thermometer/ Laser Gun	Using RTD Sensor with Precision Digital Thermometer, Black Body Furnace by Comparison Method	35 °C to 50 °C	0.28°C
212	THERMAL- TEMPERATURE	Non Contact/IR Thermometer/ Thermal Imager/Pyrometer/ Laser Gun	Using Digital Infrared Thermometer, Black Body Furnace by Comparison Method	50 °C to 600 °C	2.7 °C



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213	THERMAL-TEMPERATURE	Non Contact/IR Thermometer/ Thermal Imager/Pyrometer/ Laser Gun	Using Digital Infrared Thermometer, Black Body Furnace by Comparison Method	600 °C to 1200 °C	4.4°C
214	THERMAL-TEMPERATURE	RTD/Thermocouple with or without Indicators, Temperature Transmitter, Recorder, Data Logger, Liquid-in-glass Thermometer, Temperature Gauge	Using Sec PRT with Precision Digital Thermometer, Oil Bath by Comparison Method	50 °C to 250 °C	0.13°C
215	THERMAL-TEMPERATURE	RTD/Thermocouple with or without Indicators, Temperature Transmitter, Recorder, Data Logger, Liquid-in-glass Thermometer, Temperature Gauge	Using Sec PRT with Precision Dig. Thermometer, Low Temp. Bath by Comparison Method	-80 °C to 50 °C	0.11°C
216	THERMAL-TEMPERATURE	RTD/Thermocouple with or without Indicators, Temperature Transmitter, Recorder, Data Logger, Temperature Gauge	Using PRT with Precision Digital Thermometer, Dry Block Calibrator by Comparison Method	250 °C to 600 °C	0.34 °C to 0.88 °C



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217	THERMAL-TEMPERATURE	Thermocouple with or without Indicators, Temperature Transmitter, Recorder, Data Logger	Using 'S' Type Thermocouple with Precision Digital Thermometer, Dry Block Calibrator by Comparison Method	600 °C to 1200 °C	2°C



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50Hz to 1 kHz	Using Fluke 1732 Energy Logger by Comparison Method	10 A to 1000 A	1.5 % to 1.3 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50Hz to 1 kHz	Using Fluke 8846A 6½ Digit Multimeter by Comparison Method	30 µA to 10 A	0.47 % to 0.25 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50Hz	Using HV Probe with 4½ Digit Multimeter by Comparison Method	1 kV to 15 kV	5.8 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power(kW) (1 Ph / 3 Ph) @50Hz 100V to 600V 1A to 1000A 0.5 PF to UPF (Lag & lead)	Using Fluke 1732 Energy Logger by Comparison Method	0.005 kW to 600 kW	2.5 % to 1.5 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50Hz to 1 kHz	Using Fluke 8846A 6½ Digit Multimeter by Comparison Method	1 mV to 1000 V	0.49 % to 0.096 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy (kWh) (1 Ph /3 Ph)@ 50Hz 100 V - 600 V 0.1 A -1000 A 0.5 PF - UPF(Lag & Lead)	Using Fluke 1732 Energy Logger by Comparison Method	0.005 kWh to 600 kWh	2.5 % to 1.5 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @1 kHz	Using Fluke 8846A 6½ Digit Multimeter by Comparison Method	1 nF to 100 µF	5.2 % to 1.8 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor @ 50 Hz, 240 V, 1 A (Lag & Lead)	Using Fluke 1732 Energy Logger by Comparison Method	0.2 PF to 1 PF	0.007 PF
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @1kHz	Using Decade Capacitance Box by Direct Method	1 nF to 100 µF	1.17%



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10	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Inductance @1kHz	Using Decade Inductance Box by Direct Method	100 μ H to 1 H	1.16%
11	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Fluke 8846A 6½ Digit Multimeter by Comparison Method	1 μ A to 10 A	3.03 % to 0.18 %
12	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Shunt with Fluke 8846A 6½ Digit Multimeter by Comparison Method	10 A to 1000 A	0.97 % to 1.7 %
13	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with 4½ Digit Multimeter by Comparison Method	1 kV to 5 kV	5.8%
14	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance (4 Wire / 2Wire)	Using Fluke 8846A 6½ Digit Multimeter by Direct Method	1 Ohm to 100 Ohm	0.36 % to 0.016 %
15	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance (4 Wire / 2Wire)	Using Fluke 8846A 6½ Digit Multimeter by Direct Method	100 Ohm to 1 GOhm	0.016 % to 2.3 %



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16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Fluke 8846A 6½ Digit Multimeter by Comparison Method	1 mV to 1000 V	0.42 % to 0.006 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Discrete Standard 4 Wire Low Resistance Box by Direct Method	1 mohm to mOhm	0.96%
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Discrete Standard 4 Wire Low Resistance Box by Direct Method	10μOhm	2.01%
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Discrete Standard 4 Wire Low Resistance Box by Direct Method	100μOhm	0.25%
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Discrete Standard 4 Wire Low Resistance Box by Direct Method	1000mOhm	0.14%
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Discrete Standard 4 Wire Low Resistance Box by Direct Method	100mOhm	0.14%



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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Discrete Standard 4 Wire Low Resistance Box by Direct Method	10mOhm	0.15%
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Discrete Standard 4 Wire Low Resistance Box by Direct Method	50μOhm	0.5%
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @Maximum Test Voltage 5000 V	Using Discrete High Resistance Box by Direct Method	100GOhm	10.23%
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @Maximum Test Voltage 5000 V	Using Discrete High Resistance Box by Direct Method	100MOhm	3.42%
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @Maximum Test Voltage 5000 V	Using Discrete High Resistance Box by Direct Method	10GOhm	4.25%
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @Maximum Test Voltage 5000 V	Using Discrete High Resistance Box by Direct Method	10MOhm	3.42%



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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @Maximum Test Voltage 5000 V	Using Discrete High Resistance Box by Direct Method	1GOhm	4.17%
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @Maximum Test Voltage 5000 V	Using Discrete High Resistance Box by Direct Method	200MOhm	3.42%
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @Maximum Test Voltage 5000 V	Using Discrete High Resistance Box by Direct Method	500MOhm	4.17%
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @Maximum Test Voltage 5000 V	Using Discrete High Resistance Box by Direct Method	5MOhm	3.42%
32	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Indicator/Controller/ Data Logger/ Recorder/Calibrator Input : B Type Thermocouple	Using Fluke 5502A Multi-Product Calibrator by Simulation Method	600 °C to 1800 °C	0.53°C



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33	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Indicator/Controller/ Data Logger/ Recorder/Calibrator Input : E Type Thermocouple	Using Fluke 5502A Multi-Product Calibrator by Simulation Method	-200 °C to 1200 °C	0.58°C
34	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Indicator/Controller/ Data Logger/ Recorder/Calibrator Input : J Type Thermocouple	Using Fluke 5502A Multi-Product Calibrator by Simulation Method	-200 °C to 1200 °C	0.31°C
35	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Indicator/Controller/ Data Logger/ Recorder/Calibrator Input : K Type Thermocouple	Using Fluke 5502A Multi-Product Calibrator by Simulation Method	-200 °C to 1300 °C	0.46°C
36	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Indicator/Controller/ Data Logger/ Recorder/Calibrator Input : N Type Thermocouple	Using Fluke 5502A Multi-Product Calibrator by Simulation Method	-200 °C to 1300 °C	0.46°C
37	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Indicator/Controller/ Data Logger/ Recorder/Calibrator Input : R Type Thermocouple	Using Fluke 5502A Multi-Product Calibrator by Simulation Method	0 °C to 1750 °C	0.66°C



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38	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Indicator/Controller/ Data Logger/ Recorder/Calibrator Input : RTD Type	Using Fluke 8846A 6½ Digit Multimeter by Simulation Method	-200 °C to 800 °C	0.37°C
39	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Indicator/Controller/ Data Logger/ Recorder/Calibrator Input : S Type Thermocouple	Using Fluke 5502A Multi-Product Calibrator by Simulation Method	0 °C to 1750 °C	0.55°C
40	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Indicator/Controller/ Data Logger/ Recorder/Calibrator Input : T Type Thermocouple	Using Fluke 5502A Multi-Product Calibrator by Simulation Method	-200 °C to 1200 °C	0.73°C
41	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Indicator/Controller/ Data Logger/ Recorder/Calibrator Input : B Type Thermocouple	Using Fluke 5502A Multi-Product Calibrator by Simulation Method	600 °C to 1800 °C	0.51°C
42	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Indicator/Controller/ Data Logger/ Recorder/Calibrator Input : E Type Thermocouple	Using Fluke 5502A Multi-Product Calibrator by Simulation Method	-200 °C to 1200 °C	0.58°C



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43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Indicator/Controller/ Data Logger/ Recorder/Calibrator Input : J Type Thermocouple	Using Fluke 5502A Multi-Product Calibrator by Simulation Method	-200 °C to 1200 °C	0.32°C
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Indicator/Controller/ Data Logger/ Recorder/Calibrator Input : K Type Thermocouple	Using Fluke 5502A Multi-Product Calibrator by Simulation Method	-200 °C to 1300 °C	0.5 °C
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Indicator/Controller/ Data Logger/ Recorder/Calibrator Input : N Type Thermocouple	Using Fluke 5502A Multi-Product Calibrator by Simulation Method	-200 °C to 1300 °C	0.31°C
46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Indicator/Controller/ Data Logger/ Recorder/Calibrator Input : R Type Thermocouple	Using Fluke 5502A Multi-Product Calibrator by Simulation Method	0 °C to 1750 °C	0.66°C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Indicator/Controller/ Data Logger/ Recorder/Calibrator Input : RTD Type	Using Fluke 5502A Multi-Product Calibrator by Simulation Method	-200 °C to 800 °C	0.27°C



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48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Indicator/Controller/ Data Logger/ Recorder/Calibrator Input : S Type Thermocouple	Using Fluke 5502A Multi-Product Calibrator by Simulation Method	0 °C to 1750 °C	0.55°C
49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Indicator/Controller/ Data Logger/ Recorder/Calibrator Input : T Type Thermocouple	Using Fluke 5502A Multi-Product Calibrator by Simulation Method	-200 °C to 1200 °C	0.73 °C
50	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Fluke 8846A 6½ Digit Multimeter by Comparison Method	10 Hz to 1000 kHz	0.035 % to 0.012 %
51	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Stop Watch (Mechanical/Digital)	Using Digital Time Interval Meter by Comparison Method	1 sec to 82800 sec	0.71 sec to 1.68 sec
52	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer (Mechanical/Digital)	Using Digital Time Interval Meter by Comparison Method	1 sec to 82800 sec	0.14 sec to 1.54 sec



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53	FLUID FLOW- FLOW MEASURING DEVICES	Volume Flow Rate (Water), Analog & Digital Water Flow Meter / Flow Transmitter / Flow Indicating Devices	Using Ultrasonic Flow Meter by Comparison Method	1.5 m ³ /h to 343 m ³ /h	4.8%
54	MECHANICAL- ACCELERATION AND SPEED	Non-Contact Tachometer Stroboscope / RPM Source /(Source)/ Vibrating M/c / Centrifuge, Washing & Drying M/c (indicator/Source)	Using Digital Tachometer & Source By Comparison Method with using Motorized source with Strip	>1000 RPM to 10000 RPM	7.2 RPM
55	MECHANICAL- ACCELERATION AND SPEED	Non-Contact Tachometer Stroboscope / RPM Source /(Source)/ Vibrating M/c / Centrifuge, Washing & Drying M/c (indicator/Source)	Using Digital Tachometer & Source By Comparison Method with using Motorized source with Strip	>10000 RPM to 40000 RPM	8.3 RPM
56	MECHANICAL- ACCELERATION AND SPEED	Non-Contact Tachometer Stroboscope / RPM Source /(Source)/ Vibrating M/c / Centrifuge, Washing & Drying M/c (indicator/Source)	Using Digital Tachometer & Source By Comparison Method with using Motorized source with Strip	>40000 RPM to 60000 RPM	8.3 RPM



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57	MECHANICAL-ACCELERATION AND SPEED	Non-Contact Tachometer Stroboscope / RPM Source /(Source)/ Vibrating M/c / Centrifuge, Washing & Drying M/c (indicator/Source)	Using Digital Tachometer & Source By Comparison Method with using Motorized source with Strip	10 RPM to 1000 RPM	6.5 RPM
58	MECHANICAL-ACOUSTICS	Sound Level Meter (at 94 & 114 dB)	Using Sound Level Calibrator By Comparison Method	114 dB	0.49 dB
59	MECHANICAL-ACOUSTICS	Sound Level Meter (at 94 & 114 dB)	Using Sound Level Calibrator By Comparison Method	94 dB	0.42dB
60	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Air Gauge Unit L.C.: 0.001 mm	Using Std. Air Plug and Std. Setting Rings	0 to ± 40 µm	2.5µm
61	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate (Flatness)	Using Dial Test Indicator, Slip Gauge Set '0' Grade & Master Cylinder By Comparison Method	50 mm to 300 mm	5µm



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62	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate (Squareness)	Using Dial Test Indicator, Slip Gauge Set '0' Grade & Master Cylinder By Comparison Method	50 mm to 300 mm	10 µm
63	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center (Co-axiality)	Using Dial Test Indicator and Mandrel	100 mm to 600 mm	8 µm
64	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center (Parallelism)	Using Dial Test Indicator and Mandrel	100 mm to Upto 600 mm	5.3µm
65	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand - Flatness	Using Dial Test Indicator with Screw Jack set	50 x 50 mm to 300 x 300 mm	2.7 µm
66	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Linear Height Gauge/2 D Height Gauge L.C.: 0.0001 mm	Using Slip Gauge Set '0' Grade & Caliper Checker by Comparison Method	0 to 600 mm	7 µm



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67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Electronic Level	300mm x 300 mm to 4000mm x 4000 mm	1.3 x (sqrt L+W/150) µm (L & W in mm)
68	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/VMM/Micro scope Angle Scale L.C. 0.01°	Using Angle Gauge Set by Comparison Method	0 to 360 °	30"
69	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/VMM/Micro scope Magnification	Using Glass Scale & Digital Caliper by Comparison Method	10X to 100X	0.4%
70	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/VMM/Micro scope X/Y Axis Movement L.C. 0.001 mm	Using Glass Scale by Comparison Method	0 to 300 mm	5µm
71	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Tester (Portable & Standalone) - Ra, L.C 0.01 micron	Using Roughness Specimen Set (3 Nos.)	0.4 µm to 360 µm	8.8 %
72	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine L.C.- 0.0001 mm	Using Slip Gauge Set '0' Grade by Comparison Method	0 to 100 mm	1.5µm



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73	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Hardness Testing Blocks As Per IS 1500-2:2021, & ASTM E-10:2018 by indirect method	HBW 10/3000	1.7%
74	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Hardness Testing Blocks As Per IS 1500-2:2021, & ASTM E-10:2018 by indirect method	HBW 5/750	1.7 %
75	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Hardness Testing Blocks As Per IS 1586-2:2018, & ASTM E-18:2020 by indirect method	0 to 100 HRA	0.6 HRA
76	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Hardness Testing Blocks As Per IS 1586-2@2018, & ASTM E-18:2020 by indirect method	0 to 100 HRBW	1.2 HRBW
77	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Hardness Testing Blocks As Per IS 1586-2:2018, & ASTM E-18:2020 by indirect method	0 to 100 HRC	0.6 HRC



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78	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Testing Blocks As Per IS 1501-2:2020 & ASTM E-92:2017 by indirect method	HV 10	1.5 %
79	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Testing Blocks As Per IS 1501-2:2020 & ASTM E-92:2017 by indirect method	HV 30	1.5 %
80	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Testing Blocks As Per IS 1501-2:2020 & ASTM E-92:2017 by indirect method	HV 5	1.5 %
81	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure -Hydraulic (Pressure Gauge, Pressure Indicator, Pressure Controller, Pressure Calibrator, Pressure Transmitter, Pressure Transducer, Pressure Switch, Pressure Recorder)	Using Precision Pressure Indicator & Hydraulic Pressure Tester by Comparison Method as per DKD-R-6-1	0 to 70 bar	0.047 bar



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82	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure -Hydraulic (Pressure Gauge, Pressure Indicator, Pressure Controller, Pressure Calibrator, Pressure Transmitter, Pressure Transducer, Pressure Switch, Pressure Recorder)	Using Precision Pressure Indicator & Hydraulic Pressure Tester by Comparison Method as per DKD-R-6-1	0 to 700 bar	0.47 bar
83	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure -Pneumatic (Pressure Gauge /Indicator/ Controller, Pressure Calibrator, Pressure Transmitter /Transducer /Switch /Recorder, Leakage Tester, Manometer, Magnehelic gauge)	Using Precision Pressure Indicator & Pneumatic Pressure Pump by Comparison Method as per DKD-R-6-1	0 to 2 bar	0.002 bar
84	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure -Pneumatic (Pressure Gauge /Indicator/Controller, Pressure Calibrator, Pressure Transmitter/Transducer/ Switch, Differential Gauge, Leakage Tester, Manometer, Magnehelic Gauge)	Using Digital Manometer with Precision Low Pressure Generator by Comparison Method	20 mbar to 100 mbar	0.21mbar



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85	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure -Pneumatic (Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Transmitter, Pressure Switch, Leakage Tester, Manometer, Level Gauge, Magnehelic Gauge)	Using Digital Pressure Calibrator with Precision Low Pressure Generator by Comparison Method	0 to 2000 Pa	2.7Pa
86	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure -Pneumatic (Pressure Gauge, Pressure Indicator, Pressure Controller, Pressure Calibrator, Pressure Transmitter, Pressure Transducer, Pressure Switch, Pressure Recorder)	Using Precision Pressure Indicator & Pneumatic Pressure Pump by Comparison Method as per DKD-R-6-1	0 to 20 bar	0.02bar
87	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum -Pneumatic (Vacuum Gauge, Vacuum Indicator, Vacuum Controller, Vacuum Calibrator, Vacuum Transmitter, Vacuum Transducer, Vacuum Switch, Vacuum Recorder)	Using Precision Pressure Indicator & Pressure Pump by Comparison Method as per ISO-3567 & ISO-27893/DKD-R-6-2	-0.9 bar to 0	0.003 bar



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88	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Compression / Universal Testing Machine, Load Testing Machine, Spring Testing Machine, Flexural Testing Machine Mode : Compression (Class -1)	Using Force Proving Instrument (Load Cell) As per IS 1828 Part I	10 N to 200 kN	0.7 %
89	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing Machine, Load Testing Machine, Spring Testing Machine, Flexural Testing Machine Mode : Tension (Class -1)	Using Force Proving Instrument (Load Cell) As per IS 1828 Part I	10 N to 200 kN	0.7 %
90	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance / Weighing Scale Readability : 0.001 mg	Using E1 Accuracy Class Standard Weights as per OIML R-76-1:2006	0 to 1 g	0.033 mg
91	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance / Weighing Scale Readability : 0.01 mg	Using E1 Accuracy Class Standard Weights as per OIML R-76-1:2006	0 to 3 g	0.05 mg
92	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance / Weighing Scale Readability : 0.01 mg	Using E1 Accuracy Class Standard Weights as per OIML R-76-1:2006	0 to 50 g	0.07 mg



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93	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance / Weighing Scale Readability : 0.1 mg	Using E1 Accuracy Class Standard Weights as per OIML R-76-1:2006	0 to 200 g	0.95 mg
94	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance / Weighing Scale Readability : 1 g	Using M1 Accuracy Class Standard Weights as per OIML R-76-1:2006	0 to 100 kg	2 g
95	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance / Weighing Scale Readability : 10 g	Using M1 Accuracy Class Standard Weights as per OIML R-76-1:2006	0 to 300 kg	17.5 g
96	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance / Weighing Scale Readability : 10 mg	Using F2 Accuracy Class Standard Weights as per OIML R-76-1:2006	0 to 5 kg	90 mg
97	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance / Weighing Scale Readability : 100 mg	Using F2 Accuracy Class Standard Weights as per OIML R-76-1:2006	0 to 20 kg	200mg
98	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator with Sensor of Humidity Calibrator /Generator /Chamber @ 25°C	Using Temp. & Humidity Indicator with Sensor, by Single Position Calibration (At measuring Location in DUC)	20 %RH to 95 %RH	1.99 % RH



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99	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature Indicator with Sensor of Humidity Calibrator /Generator /Chamber @ 50% RH	Using Temp. & Humidity Indicator with Sensor, by Single Position Calibration (At measuring Location in DUC)	10 °C to 50 °C	0.4
100	THERMAL-TEMPERATURE	Calibration/Thermal Mapping (TUS) of Environmental Chamber, Oven, Furnace, Walk in Chamber (non-medical purpose only)	Using 'N' Type Thermocouples with Data Logger By Multi Position Calibration (9 Sensor)	250 °C to 1200 °C	4.54°C
101	THERMAL-TEMPERATURE	Non Contact/IR Thermometer/ Laser Gun	Using RTD Sensor with Precision Digital Thermometer, Black Body Furnace by Comparison Method	35 °C to 50 °C	0.28°C
102	THERMAL-TEMPERATURE	RTD/Thermocouple with or without Indicators, Temperature Transmitter, Recorder, Data Logger, Liquid-in-glass Thermometer, Temperature Gauge	Using Sec PRT with Precision Digital Thermometer, Oil Bath by Comparison Method	50 °C to 250 °C	0.13°C



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103	THERMAL-TEMPERATURE	RTD/Thermocouple with or without Indicators, Temperature Transmitter, Recorder, Data Logger, Temperature Gauge	Using PRT with Precision Digital Thermometer, Dry Block Calibrator by Comparison Method	250 °C to 600 °C	0.34 °C to 0.88 °C
104	THERMAL-TEMPERATURE	Temp. Indicator/Controller with sensor of Env. Chamber, Deep Freezer, Refrigerator, Walk in Chamber & Chiller	Using 4 Wire RTD with Precision Digital Thermometer By Single Position Calibration (At Measuring Location in DUC)	-80 °C to 0 °C	0.8
105	THERMAL-TEMPERATURE	Temp. Indicator/Controller with sensor of Env. Chamber, Oven, Furnace, Autoclave & Incubator (for Non Medical application)	Using 4 wire RTD with Precision Dig. Thermometer by Single Position Calibration (at Measuring location in DUC)	0 °C to 250 °C	0.8
106	THERMAL-TEMPERATURE	Temperature Indicator/Controller with sensor of Env. Chamber, Oven, Muffle Furnace & Furnace	Using 'N' Type Thermocouple with Precision Digital Thermometer By Single Position Calibration (At Measuring Location in DUC)	250 °C to 600 °C	2.4 °C



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107	THERMAL-TEMPERATURE	Temperature Indicator/Controller with sensor of Env. Chamber, Oven, Muffle Furnace & Furnace	Using 'N' Type Thermocouple with Precision Digital Thermometer By Single Position Calibration (At Measuring Location in DUC):	600°C to 1200 °C	2.4 °C
108	THERMAL-TEMPERATURE	Thermal Mapping (TUS) of Env. Chamber, Oven, Furnace, Autoclave & Incubator (for Non Medical application)	Using RTD Sensors with Data Logger by Multi Position Calibration.	0 °C to 250 °C	0.8
109	THERMAL-TEMPERATURE	Thermal Mapping/TUS of Environmental Chamber, Deep Freezer, Refrigerator, Walk in Chamber & Chiller	Using RTD Sensors with Data Logger By Multi Position Calibration (9 sensor)	-80 °C to 0 °C	0.8 °C
110	THERMAL-TEMPERATURE	Thermocouple with or without Indicators, Temperature Transmitter, Recorder, Data Logger	Using 'S' Type Thermocouple with Precision Digital Thermometer, Dry Block Calibrator by Comparison Method	600 °C to 1200 °C	2°C

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