National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PARASHAR MICRO MEASUREMENT PRIVATE LIMITED, B-59, SECTOR-64, NOIDA, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 6½ Digital Multimeter by Direct method	1 A to 10 A	0.17 % to 0.26 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 6½ Digital Multimeter by Direct method	50 µA to 1 A	0.31 % to 0.17 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Resistance @1 kHz	Using LCR Meter by Direct method	1 ohm to 10 kohm	0.34 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ Digital Multimeter by Direct method	10 mV to 100 mV	0.53 % to 0.12 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ Digital Multimeter by Direct method	100 mV to 1000 V	0.12 % to 0.09 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using LCR Meter by Direct method	1 nF to 10 nF	0.67 %

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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 100 Hz	Using LCR Meter by Direct method	100 nF to 1 mF	0.40 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @ 1 kHz	Using LCR Meter by Direct method	100 µH to 10 H	0.40 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Product Calibrator with Current coil by Direct method	20 A to 1000 A	0.55 % to 0.51 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct method	1 A to 10 A	0.07 % to 0.09 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct method	1 mA to 1 A	0.14 % to 0.07 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct method	10 A to 20 A	0.09 % to 0.17 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct method	50 µA to 1 mA	0.40 % to 0.14 %

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14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power @ 50 Hz	Using Multi Product Calibrator by Direct method	1 W (10 V, 0.1 A, UPF) to 12 kW (600 V, 20 A, UPF)	0.35 % to 0.23 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Resistance @1 kHz	Using Decade Resistance Box by Direct method	1 ohm to 10 kohm	1.20 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct method	1 V to 1000 V	0.04 % to 0.06 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct method	10 mV to 1 V	0.35 % to 0.04 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi Product Calibrator by Direct method	1 nF to 10 nF	1.74 % to 0.42 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi Product Calibrator by Direct method	500 pF to 1 nF	2.90 % to 1.73 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 100 Hz	Using Multi Product Calibrator by Direct method	30 nF to 100 µF	0.70 %

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21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Standard Inductance Box by Direct method	1 H	1.20 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Standard Inductance Box by Direct method	1 mH	1.20 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Standard Inductance Box by Direct method	10 mH	1.20 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Standard Inductance Box by Direct method	100 µH	1.20 %
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Standard Inductance Box by Direct method	100 mH	1.20 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor (240 V, 2A) @ 50 Hz	Using Multi Product Calibrator by Direct method	0.2 PF (Lead & Lag) to 1 PF (Lead & Lag)	0.0031 PF to 0.0021 PF
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct method	1 A to 10 A	0.08 % to 0.19 %

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct method	10 µA to 100 mA	0.35 % to 0.06 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct method	100 mA to 1 A	0.06 % to 0.08 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct method	1 mV to 100 mV	0.41 % to 0.009 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct method	100 mV to 1000 V	0.009 % to 0.006 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 wire)	Using 6½ Digital Multimeter by Direct method	10 Mohm to 100 Mohm	0.05 % to 0.94 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 wire)	Using 6½ Digital Multimeter by Direct method	100 kohm to 10 Mohm	0.01 % to 0.05 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 wire)	Using 6½ Digital Multimeter by Direct method	100 Mohm to 1000 Mohm	0.94 % to 2.35 %

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35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using Micro Ohm meter by Direct method	1 mohm to 1 ohm	0.15 % to 0.1 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6½ Digital Multimeter by Direct method	1 ohm to 100 ohm	0.36 % to 0.02 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6½ Digital Multimeter by Direct method	100 ohm to 100 kohm	0.02 % to 0.013 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct method	1 A to 10 A	0.05 % to 0.08 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct method	10 µA to 100 mA	0.25 % to 0.02 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct method	10 A to 20 A	0.08 % to 0.02 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct method	100 mA to 1 A	0.02 % to 0.05 %

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42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator with Current coil by Direct method	20 A to 1000 A	0.53 % to 0.37 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power	Using Multi Product Calibrator by Direct method	1 W(10 V, 0.1 A) to 20 kW(1000 V, 20 A)	0.08 % to 0.23 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC voltage	Using Multi Product Calibrator by Direct method	1 mV to 1 V	0.35 % to 0.01 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC voltage	Using Multi Product Calibrator by Direct method	1 V to 1000 V	0.01 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Multi Product Calibrator by Direct method	10 Mohm to 1000 Mohm	0.07 % to 1.74 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Multi Product Calibrator by Direct method	100 kohm to 10 Mohm	0.01 % to 0.07 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Mega Ohm Box by Direct Method	2 Gohm	3.52 %

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49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Mega Ohm Box by Direct Method	20 Gohm	3.50 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Standard Resistance box by Direct method	1 mohm	0.75 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Standard Resistance Box by Direct Method	1 ohm	0.58 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Multi Product Calibrator by Direct method	1 ohm to 100 kohm	0.01 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Standard Resistance box by Direct method	10 mohm	0.58 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Standard Resistance box by Direct method	100 µohm	1.42 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Standard Resistance box by Direct method	100 mohm	0.58 %

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56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Standard Resistance box by Direct method	50 µohm	2.02 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Standard Resistance box by Direct method	50 mohm	0.52 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance @ 5000 V	Using Mega Ohm Box by Direct Method	1 T ohm	7.37 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance @ 5000 V	Using Mega Ohm Box by Direct Method	500 Gohm	7.63 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance @1000 V	Using Mega ohm Box by Direct method	1 Mohm	0.93 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance @2000 V	Using Mega ohm Box by Direct method	10 Mohm	1.38 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance @500 V	Using Mega ohm Box by Direct method	100 kohm	0.90 %

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63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance @5000 V	Using Mega ohm Box by Direct method	1 Gohm	4.84 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance @5000 V	Using Mega ohm Box by Direct method	10 Gohm	4.83 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance @5000 V	Using Mega ohm Box by Direct method	100 Gohm	7.17 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance @5000 V	Using Mega ohm Box by Direct method	100 Mohm	1.83 %
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance @5000 V	Using Mega ohm Box by Direct method	500 Mohm	2.59 %
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT-100 Type)	Using Digital Thermometer Readout by Direct method	(-)200 °C to 800 °C	0.05 °C
69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - B Type	Using Multi Product Calibrator by Direct method	600 °C to 1800 °C	0.85 °C

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70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - E Type	Using Multi Product Calibrator by Direct method	(-)200 °C to 1000 °C	0.58 °C
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - J Type	Using Multi Product Calibrator by Direct method	(-)200 °C to 1200 °C	0.32 °C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - K Type	Using Multi Product Calibrator by Direct method	(-)200 °C to 1350 °C	0.47 °C
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - N Type	Using Multi Product Calibrator by Direct method	(-)200 °C to 1300 °C	0.49 °C
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - R Type	Using Multi Product Calibrator by Direct method	0 to 1750 °C	0.74 °C
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - S Type	Using Multi Product Calibrator by Direct method	0 °C to 1750 °C	0.59 °C
76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - T Type	Using Multi Product Calibrator by Direct method	(-)200 °C to 400 °C	0.77 °C

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77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT-100 Type)	Using Multi Product Calibrator by Direct method	(-)200 °C to 800 °C	0.27 °C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - B Type	Using Multi Product Calibrator by Direct method	600 °C to 1800 °C	0.52 °C
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - E Type	Using Multi Product Calibrator by Direct method	(-)200 °C to 1000 °C	0.58 °C
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - J Type	Using Multi Product Calibrator by Direct method	(-)200 °C to 1200 °C	0.32 °C
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - K Type	Using Multi Product Calibrator by Direct method	(-)200 °C to 1350 °C	0.49 °C
82	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - N Type	Using Multi Product Calibrator by Direct method	(-)200 °C to 1300 °C	0.47 °C
83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - R Type	Using Multi Product Calibrator by Direct method	0 °C to 1750 °C	0.66 °C

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84	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - S Type	Using Multi Product Calibrator by Direct method	0 °C to 1750 °C	0.56 °C
85	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - T Type	Using Multi Product Calibrator by Direct method	(-)200 °C to 400 °C	0.73 °C
86	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter by Direct method	10 Hz to 1 MHz	0.082 % to 0.012 %
87	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer/Stop Watch Calibrator by comparison Method	1 s to 10 s	0.12 s
88	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer/Stop Watch Calibrator by Comparison Method	10 s to 1 hr	0.7 s to 0.85 s
89	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer/Stop Watch Calibrator by comparison Method	10 s to 60 s	0.12 s
90	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer/Stop Watch Calibrator by comparison Method	1000 s to 1800 s	0.44 s to 0.74 s

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91	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer/Stop Watch Calibrator by comparison Method	1800 s to 3600 s	0.45 s to 0.77 s
92	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer/Stop Watch Calibrator by comparison Method	21600 s to 43200 s	5.43 s to 5.96 s
93	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer/Stop Watch Calibrator by comparison Method	3600 s to 7200 s	0.77 s to 5.30 s
94	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer/Stop Watch Calibrator by comparison Method	43200 s to 86400 s	5.96 s to 11.77 s
95	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer/Stop Watch Calibrator by comparison Method	60 s to 1000 s	0.12 s to 0.74 s
96	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer/Stop Watch Calibrator by comparison Method	7200 s to 21600 s	5.30 s to 5.43 s
97	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct method	10 Hz to 1 MHz	0.015 % to 0.003 %

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98	MECHANICAL-ACCELERATION AND SPEED	Contact Type RPM (Tachometer, RPM Meter)	Using Digital Tachometer (Contact Type) & Tachometer Calibrator by Comparison method	1000 rpm to 6000 rpm	11.4 rpm
99	MECHANICAL-ACCELERATION AND SPEED	Contact Type RPM (Tachometer, RPM Meter)	Using Digital Tachometer (Contact Type) & Tachometer Calibrator by Comparison method	60 rpm to 1000 rpm	2.5 rpm
100	MECHANICAL-ACCELERATION AND SPEED	Non Contact Type RPM (Tachometer, Stroboscope, RPM Meter)	Using Digital Tachometer (Non Contact Type) & Tachometer Calibrator by Comparison method	1000 rpm to 6000 rpm	6.59 rpm
101	MECHANICAL-ACCELERATION AND SPEED	Non Contact Type RPM (Tachometer, Stroboscope, RPM Meter)	Using Digital Tachometer (Non Contact Type) & Tachometer Calibrator by Comparison method	50 rpm to 1000 rpm	4.69 rpm
102	MECHANICAL-ACCELERATION AND SPEED	Non Contact Type RPM (Tachometer, Stroboscope, RPM Meter)	Using Digital Tachometer (Non Contact Type) & Tachometer Calibrator by Comparison method	6000 rpm to 60000 rpm	23.9 rpm
103	MECHANICAL-ACCELERATION AND SPEED	RPM Meter with sensor	Using Digital Tachometer (Non Contact Type) and Tachometer Calibrator by comparison method	1000 rpm to 6000 rpm	6.59 rpm

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104	MECHANICAL-ACCELERATION AND SPEED	RPM Meter with sensor	Using Digital Tachometer (Non Contact Type) and Tachometer Calibrator by comparison method	50 rpm to 1000 rpm	4.69 rpm
105	MECHANICAL-ACCELERATION AND SPEED	RPM Meter with sensor	Using Digital Tachometer (Non Contact Type) and Tachometer Calibrator by comparison method	6000 rpm to 60000 rpm	23.9 rpm
106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Protractor (Digital/Analog) L.C: 1°	Using Angle Gauge Set by Comparison method	0° to 90° to 0°	37 minute
107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor (Digital/Analog) L.C: 1 minute	Using Angle Gauge Set by Comparison method	0° to 90° to 0°	1 minute
108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier/Digital/Dial) L.C: 0.01 mm	Using ('0' Grade) Slip Gauge set with Accessories, Caliper Checker by Comparison method	0 to 1000 mm	17.0 µm
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier/Digital/Dial) L.C: 0.01 mm	Using ('0' Grade) Slip Gauge set with Accessories by Comparison method	0 to 150 mm	8.0 µm

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110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier/Digital/Dial) L.C: 0.01 mm	Using ('0' Grade) Slip Gauge set with Accessories by Comparison method	0 to 300 mm	10.0 µm
111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier/Digital/Dial) L.C: 0.01 mm	Using ('0' Grade) Slip Gauge set with Accessories, Caliper Checker by Comparison method	0 to 600 mm	12.0 µm
112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge L.C: 0.1 µm /1 µm	Using Standard Foils by Comparison method	10 µm to 734 µm	2.4 µm
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge L.C: 0.1µm /1 µm	Using Standard Foils by Comparison method	734 µm to 1900 µm	8.5 µm
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set L.C: 1°	Using Angle Gauge Set by Comparison method	0° to 90° to 0°	37 minute
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper & Gauges L.C: 0.01 mm	Using ('0' Grade) Slip Gauge Set With Accessories and Surface Plate by Comparison method	0 to 300 mm	10.0 µm

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116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer L.C: 0.01 mm	Using ('0' Grade) Slip Gauge set with Accessories and Surface Plate by Comparison method	0 to 150 mm	9.0 µm
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge L.C: 0.001 mm	Using ('0' Grade) Slip Gauge set by Comparison method	0 to 12 mm	1.0 µm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge L.C: 0.01 mm	Using ('0' Grade) Slip Gauge set by Comparison method	0 to 50 mm	7.0 µm
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C: 0.001 mm	Using ('0' Grade) Slip Gauge Set, Micrometer Check Set and Optical Parallel set by Comparison method	0 to 25 mm	1.4 µm
120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C: 0.001 mm	Using ('0' Grade) Slip Gauge Set, Accessories and Optical Parallel set by Comparison method	25 to 100 mm	2.5 µm
121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C: 0.01 mm	Using ('0' Grade) Slip Gauge Set, Long Gauge Block, Accessories and Optical Parallel set by Comparison method	100 mm to 600 mm	11.0 µm

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122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C: 0.01 mm	Using ('0' Grade) Slip Gauge Set, Long Gauge Block, Caliper checker Accessories and Optical Parallel set by Comparison method	600 mm to 1000 mm	18.0 µm
123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Digital Dial Gauge and Comparator Stand by Comparison method	0.03 mm to 2 mm	2.0 µm
124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hegman Gauge (Flatness)	Using Dial Gauge & Surface Plate, Accessories: Granite Comparator Stand ('0' Grade) by Comparison method	0 to 102 µm	3.5 µm
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Digital/Dial) L.C: 0.01 mm	Using ('0' Grade) Slip Gauge set with Accessories, Caliper Checker and Surface Plate by Comparison method	0 to 1000 mm	16.0 µm
126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Digital/Dial) L.C: 0.01 mm	Using Slip Gauge set with Accessories and Surface Plate by Comparison method	0 to 300 mm	10.0 µm
127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer L.C: 0.01 mm	Using ('0' Grade) Slip Gauge set with Accessories by Comparison method	5 mm to 30 mm	7.0 µm

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128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer L.C: 0.01 mm	Using ('0' Grade) Slip Gauge set with Accessories, Long Gauge block and Caliper Checker with accessories by Comparison method	50 mm to 1000 mm	12.0 µm
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge L.C: 0.001 mm	Using ('0' Grade) Slip Gauge set by Comparison method	0 to 0.14 mm	2.0 µm
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge L.C: 0.002 mm	Using ('0' Grade) Slip Gauge set by Comparison method	0 to 0.28 mm	2.2 µm
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge L.C: 0.01 mm	Using ('0' Grade) Slip Gauge set / Dial Calibration Tester by Comparison method	0 to 0.8 mm	6.0 µm
132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin	Using ('0' Grade) Slip Gauge set, Digital Dial Gauge and Comparator Stand by Comparison method	0.5 mm to 20 mm	2.0 µm
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper L.C: 0.1 mm	Using ('0' Grade) Slip Gauge set by Comparison method	0 to 100 mm	90.0 µm

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134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using ('0' Grade) Slip Gauge set, Digital Dial Gauge and Comparator Stand by Comparison method	1 mm to 100 mm	2.0 µm
135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauge (Digital /Dial) L.C: 0.001 mm	Using ('0' Grade) Slip Gauge set and Comparator Stand by Comparison method	0 to 50 mm	2.0 µm
136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauge (Digital/Dial) L.C: 0.01 mm	Using ('0' Grade) Slip Gauge set, Dial Calibration Tester and Comparator Stand by Comparison method	0 to 100 mm	7.0 µm
137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge (Plain/Dial)	Using ('0' Grade) Slip Gauge set with Accessories by Comparison method	6 mm to 100 mm	2.0 µm
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Standard Thickness Foils	Using Digital Dial Gauge and Comparator Stand by Comparison method	0.01 mm to 5 mm	2.0 µm
139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Digital Caliper by Comparison method	4 mm to 125 mm	17.0 µm

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140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V - Block (Flatness)	Using Surface Plate and Dial Gauge by Comparison method	150 mm x 150 mm x 150 mm	5.1 µm
141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V - Block (Parallelism)	Using Surface Plate, Mandrel and Dial Gauge by Comparison method	150 mm x 150 mm x 150 mm	5.1 µm
142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V - Block (Symmetricity)	Using Surface Plate, Mandrel and Dial Gauge by Comparison method	150 mm x 150 mm x 150 mm	5.1 µm
143	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Micrometer Setting Rod	Using ('0' Grade) Slip Gauge set, Digital Dial Gauge and Comparator stand by comparison method	100 mm to 200 mm	3.5 µm
144	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Micrometer Setting Rod	Using ('0' Grade) Slip Gauge set, Long Gauge Block, Digital Dial Gauge and Comparator stand by comparison method	200 mm to 600 mm	8.5 µm
145	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Micrometer Setting Rod	Using ('0' Grade) Slip Gauge set, Digital Dial Gauge and Comparator stand by comparison method	25 mm to 100 mm	2.8 µm

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146	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Standard Length bar	Using ('0' Grade) Slip Gauge Set, Digital Dial Gauge and Comparator Stand by Comparison Method	100 mm to 200 mm	3.5 µm
147	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Standard Length bar	Using ('0' Grade) Slip Gauge set, Long Gauge Block, Digital Dial Gauge and Comparator stand by comparison method	200 mm to 600 mm	8.5 µm
148	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Standard Length bar	Using ('0' Grade) Slip Gauge set, Digital Dial Gauge and Comparator stand by comparison method	25 mm to 100 mm	2.8 µm
149	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure, Dial & Digital Gauge	Using Digital Pressure Gauge and Comparator pump by Comparison method as per DKD-R 6-1	0 to 40 bar	0.02 bar
150	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure, Dial & Digital Gauge	Using Digital Pressure Gauge and Comparator pump by Comparison method as per DKD-R 6-1	0 to 400 bar	0.31 bar
151	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure, Dial & Digital Gauge	Using Digital Pressure Gauge and Comparator pump by Comparison method as per DKD-R 6-1	0 to 700 bar	0.18 bar

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152	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure, Dial , Dig. Pressure Gauge, Pressure Transducer with display	Using Digital Pressure Gauge and Comparator pump by Comparison method as per DKD-R 6-1	0 to 7 bar	0.0025 bar
153	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure, Dial , Digital Pressure Gauge, Pressure Transducer with display	Using Digital Pressure Gauge and Comparator pump by Comparison method as per DKD-R 6-1	0 to 1 bar	0.0016 bar
154	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure, Dial, Digital Pressure Gauge, Pressure Transducer with display	Using Digital Pressure Gauge and Comparator pump by Comparison method as per DKD-R 6-1	0 to 30 bar	0.02 bar
155	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge (Negative Pressure)	Using Digital Pressure Gauge and Comparator pump by Comparison method as per DKD-R 6-1	(-) 0.95 bar to 0 bar	0.002 bar
156	MECHANICAL-VOLUME	Burette	Using Digital Weighing Balance (d:0.01 mg) and Distilled water of known density by Gravimetric Method as per IS/ISO 4787	0.1 ml to 10 ml	0.03 ml

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157	MECHANICAL-VOLUME	Burette	Using Digital Weighing Balance (d:0.01 mg, 0.1 mg, 1 mg) and Distilled water of known density by Gravimetric Method as per IS/ISO 4787	10 ml to 100 ml	0.07 ml
158	MECHANICAL-VOLUME	Burette / Dispenser (Piston operated)	Using Digital Weighing Balance (d 0.01 mg) and Distilled water of known density by Gravimetric Method as per ISO 8655-6	1 ml to 10 ml	0.029 ml
159	MECHANICAL-VOLUME	Burette / Dispenser (Piston operated)	Using Digital Weighing Balance (d :0.1, 1 mg) and Distilled water of known density by Gravimetric Method as per ISO 8655-6	10 ml to 100 ml	0.1 ml
160	MECHANICAL-VOLUME	Glass Pipette	Using Digital Weighing Balance (d:0.01 mg) and Distilled water of known density by Gravimetric Method as per IS/ISO 4787	0.1 ml to 10 ml	0.023 ml
161	MECHANICAL-VOLUME	Glass Pipette	Using Digital Weighing Balance (d:0.01 mg) and Distilled water of known density by Gravimetric Method as per IS/ISO 4787	10 ml to 25 ml	0.03 ml

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162	MECHANICAL-VOLUME	Measuring Cylinder / Flask / Beaker / Pycnometer / Conical Flask / Volumetric Flask / Dean Stark	Using Digital Weighing Balance (d: 0.01 mg) and Distilled water of known density by Gravimetric Method as per IS/ISO 4787	1 ml to 10 ml	0.033 ml
163	MECHANICAL-VOLUME	Measuring Cylinder / Flask / Jar / Beaker / Bottle / Pycnometer / Can / Conical Flask/ Volumetric Flask	Using Digital Weighing Balance (d: 10 mg) and Distilled water of known density by Gravimetric Method as per IS/ISO 4787	1000 ml to 5000 ml	2.18 ml
164	MECHANICAL-VOLUME	Measuring Cylinder / Flask / Jar/ Beaker / Bottle / Pycnometer/ Can/ Conical Flask / Volumetric Flask / Cup/Dean Stark/ Bucket	Using Digital Weighing Balance (d: 1 mg) and Distilled water of known density by Gravimetric Method as per IS/ISO 4787	100 ml to 1000 ml	0.1 ml
165	MECHANICAL-VOLUME	Measuring Cylinder / Flask/ Jar/ Beaker / Bottle/ Pycnometer / Conical Flask / Volumetric Flask/Cup / Dean Stark	Using Digital Weighing Balance (d:0.01 mg, 0.1 mg, 1 mg) and Distilled water of known density by Gravimetric Method as per IS/ISO 4787	10 ml to 100 ml	0.054 ml
166	MECHANICAL-VOLUME	Micro Pipette (Piston operated)	Using Dig. Weighing Balance (d:0.01 mg) and Distilled water of known density by Gravimetric Method as per ISO 8655-6	1 ml to 10 ml	0.029 ml

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167	MECHANICAL-VOLUME	Micro Pipette (Piston operated)	Using Digital Weighing Balance (d:0.01 mg) and Distilled water of known density by Gravimetric Method as per ISO 8655-6	100 µl to 1000 µl	0.63 µl
168	MECHANICAL-VOLUME	Micro Pipette (Piston operated)	Using Digital Weighing Balance (d=0.01 mg) and Distilled water of known density by Gravimetric Method as per ISO 8655-6	20 µl to 100 µl	0.24 µl
169	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, (Readability: 100 mg & Coarser), Class-II	Using Standard Weights (E1 & E2 Class) by Comparison method	100 mg to 20000 g	0.08 g
170	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Readability: 0.001 mg, (Class-I & Coarser)	Using Standard Weights (E1 Class) by Comparison method	1 mg to 20 g	0.016 mg
171	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Readability: 0.01 mg, (Class-I & Coarser)	Using Standard Weights (E1 Class) by Comparison method	1 mg to 100 g	0.04 mg
172	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Readability: 0.01 mg, (Class-I & Coarser)	Using Standard Weights (E1 Class) by Comparison method	1 mg to 200 g	0.05 mg
173	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Readability: 0.1 mg, (Class-I & Coarser)	Using Standard Weights (E1 Class) by Comparison method	1 mg to 500 g	0.15 mg

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174	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Readability: 1 mg (Class-I & Coarser)	Using Standard Weights (E1 & E2 Class) by Comparison method	1 mg to 1500 g	0.002 g
175	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Readability: 10 mg (Class-II & Coarser)	Using Standard Weights (E1 & E2 Class) by Comparison method	10 mg to 6000 g	0.008 g
176	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Standard Weights (E1 Class) and Digital Weighing Machine, Readability : 0.01 mg upto 100 g, 0.1 mg upto 200 g by substitution method ABA weighing cycle as per OIML R111-1:2004	1 g	0.01 mg
177	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Standard Weights (E2 Class) and Digital Weighing Machine, Readability : 1 mg by substitution method ABA weighing cycle as per OIML R111-1:2004	1 kg	2.0 mg

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178	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Standard Weights (E1 Class) and Digital Weighing Machine, Readability : 0.01 mg upto 100 g, 0.1 mg upto 200 g by substitution method ABA weighing cycle as per OIML R111-1:2004	10 g	0.02 mg
179	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Standard Weights (E1 Class) and Digital Weighing Machine, Readability : 0.01 mg upto 100 g, 0.1 mg upto 200 g by substitution method ABA weighing cycle as per OIML R111-1:2004	100 g	0.1 mg
180	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Standard Weights (E1 Class) and Digital Weighing Machine, Readability : 0.01 mg upto 100 g, 0.1 mg upto 200 g by substitution method ABA weighing cycle as per OIML R111-1:2004	100 mg	0.01 mg

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181	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Standard Weights (E1 Class) and Digital Weighing Machine, Readability : 0.01 mg upto 100 g, 0.1 mg upto 200 g by substitution method ABA weighing cycle as per OIML R111-1:2004	2 g	0.02 mg
182	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Standard Weights (E1 Class) and Digital Weighing Machine, Readability : 0.01 mg upto 100 g, 0.1 mg upto 200 g by substitution method ABA weighing cycle as per OIML R111-1:2004	20 g	0.02 mg
183	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Standard Weights (E1 Class) and Digital Weighing Machine, Readability : 0.01 mg upto 100 g, 0.1 mg upto 200 g by substitution method ABA weighing cycle as per OIML R111-1:2004	20 mg	0.01 mg

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184	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Standard Weights (E1 Class) and Digital Weighing Machine, Readability : 0.01 mg upto 100 g, 0.1 mg upto 200 g by substitution method ABA weighing cycle as per OIML R111-1:2004	200 g	0.12 mg
185	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Standard Weights (E1 Class) and Digital Weighing Machine, Readability : 0.01 mg upto 100 g, 0.1 mg upto 200 g by substitution method ABA weighing cycle as per OIML R111-1:2004	200 mg	0.01 mg
186	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Standard Weights (E1 Class) and Digital Weighing Machine, Readability : 0.01 mg upto 100 g, 0.1 mg upto 200 g by substitution method ABA weighing cycle as per OIML R111-1:2004	5 g	0.02 mg

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187	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Standard Weights (E1 Class) and Digital Weighing Machine, Readability : 0.01 mg upto 100 g, 0.1 mg upto 200 g by substitution method ABA weighing cycle as per OIML R111-1:2004	50 g	0.03 mg
188	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Standard Weights (E1 Class) and Digital Weighing Machine, Readability : 0.01 mg upto 100 g, 0.1 mg upto 200 g by substitution method ABA weighing cycle as per OIML R111-1:2004	50 mg	0.01 mg
189	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Standard Weights (E1 Class) and Digital Weighing Machine, Readability : 0.01 mg upto 100 g, 0.1 mg upto 200 g by substitution method ABA weighing cycle as per OIML R111-1:2004	500 mg	0.01 mg

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190	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Standard Weights (E1 Class) and Digital Weighing Machine, Readability : 0.01 mg upto 100 g, 0.1 mg upto 200 g by substitution method ABA weighing cycle as per OIML R111-1:2004	1 mg	0.01 mg
191	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Standard Weights (E1 Class) and Digital Weighing Machine, Readability : 0.01 mg upto 100 g, 0.1 mg upto 200 g by substitution method ABA weighing cycle as per OIML R111-1:2004	10 mg	0.01 mg
192	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Standard Weights (E2 Class) and Digital Weighing Machine, Readability : 10 mg by substitution method ABA weighing cycle as per OIML R111-1:2004	2 kg	10 mg

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193	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Standard Weights (E1 Class) and Digital Weighing Machine, Readability : 0.01 mg up to 100 g, 0.1 mg up to 200 g by substitution method ABA weighing cycle as per OIML R111-1:2004	2 mg	0.01 mg
194	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Standard Weights (E2 Class) and Digital Weighing Machine, Readability : 10 mg by substitution method ABA weighing cycle as per OIML R111-1:2004	5 kg	10 mg
195	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Standard Weights (E1 Class) and Digital Weighing Machine, Readability : 0.01 mg upto 100 g, 0.1 mg upto 200 g by substitution method ABA weighing cycle as per OIML R111-1:2004	5 mg	0.01 mg

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196	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Standard Weights (E2 Class) and Digital Weighing Machine, Readability : 1 mg by substitution method ABA weighing cycle as per OIML R111-1:2004	500 g	1.0 mg
197	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using Standard Weights (E2 Class) and Digital Weighing Machine, Readability : 100 mg by substitution method ABA weighing cycle as per OIML R111-1:2004	10 kg	100 mg
198	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using Standard Weights (E2 Class) and Digital Weighing Machine, Readability : 100 mg by substitution method ABA weighing cycle as per OIML R111-1:2004	20 kg	0.12 g

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199	THERMAL-SPECIFIC HEAT & HUMIDITY	Digital & Analog Thermo Hygrometers with inbuilt sensor or with external sensor, Temperature & Humidity Data Logger with or without sensor, Temperature Data Logger with or without sensor	Using Digital Temperature & Humidity Indicator with sensor along with Humidity & Temperature Generator by Comparison method	10 °C to 60 °C @ 50% rh	0.41 °C
200	THERMAL-SPECIFIC HEAT & HUMIDITY	Relative Humidity Digital & Analog Thermo Hygrometers with inbuilt sensor or with external sensor, RH Transmitters with sensor, Humidity Data Logger & Humidity controller with sensor	Using Digital Temperature & Humidity Indicator with sensor along with Humidity & Temperature Generator by Comparison method	13 %rh to 90 % rh @10 °C to 60 °C	1.3 %rh
201	THERMAL-SPECIFIC HEAT & HUMIDITY	Relative Humidity Digital & Analog Thermo-Hygrometers with inbuilt sensor or with external sensor, RH Transmitters with sensor, Humidity Data Logger & Humidity controller with sensor	Using Temperature & Humidity Indicator with sensor along with Humidity & Temperature Generator by Comparison method	10 %rh to 95 %rh @ 25 °C	2.4 %rh

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202	THERMAL-TEMPERATURE	Glass thermometers, RTD's, Thermocouples with or Without Controller/ Indicator/ Data Logger/ Recorder, Temperature Transmitter with Indicator, Temperature Gauges, Digital thermometers	Using SPRT, Thermometer Readout and Temperature Oil Bath by Comparison method	50 °C to 250 °C	0.34 °C
203	THERMAL-TEMPERATURE	Indicator with sensor of Dry Block Bath (Single Position)	Using S type thermocouple and Thermometer Readout by Comparison Method	600 °C to 1200 °C	1.73 °C
204	THERMAL-TEMPERATURE	Indicator with sensor of Liquid and Dry Block Bath (Single Position)	Using SPRT and Thermometer Readout by Comparison method	(-)40 °C to 600 °C	0.26 °C
205	THERMAL-TEMPERATURE	Infrared Thermometers, Thermal Imager (for non medical purpose only) @ Emissivity: 0.95	Using IR Calibrator and Standard IR Thermometer by Comparison method	(-)20 °C to 100 °C	2.8 °C
206	THERMAL-TEMPERATURE	Infrared Thermometers, Thermal Imager (for non medical purpose only) @ Emissivity: 0.95	Using IR Calibrator and Standard IR Thermometer by Comparison method	50 °C to 500 °C	6.4 °C

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207	THERMAL-TEMPERATURE	RTD's, Thermocouples with or Without Controller/ Indicator/ Data Logger/ Recorder, Temperature Transmitter with Indicator, Temperature Gauges, Digital thermometers	Using SPRT and Thermometer Readout and Temperature Dry Block Bath by Comparison method	250 °C to 500 °C	0.34 °C
208	THERMAL-TEMPERATURE	RTD's, Thermocouples with or Without Controller/ Indicator/ Data Logger/ Recorder, Temperature Transmitter with Indicator, Temperature Gauges, Glass Thermometers. Digital thermometers	Using SPRT and Thermometer Readout and Temperature Liquid Bath by Comparison method	(-)40 °C to 50 °C	0.35 °C
209	THERMAL-TEMPERATURE	Thermocouples with & Without Controller/ Indicator/ Data Logger/ Recorder, Temperature Transmitter with Indicator, Digital Thermometers	Using 'S' Type Thermocouple and Thermometer Readout and Temperature Dry Block Bath by Comparison method	500 °C to 1200 °C	2.90 °C

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using High Voltage Probe with Digital Multimeter by Direct method	1 kV to 25 kV	0.02 kV to 0.36 kV
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using High Voltage Divider with Digital Multimeter by Direct method	10 kV to 100 kV	0.34 kV to 3.38 kV
3	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using High Voltage Probe with Digital Multimeter by Direct method	1 kV to 30 kV	0.03 kV to 0.96 kV
4	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT-100 Type)	Using Digital Temperature Calibrator by Direct method	(-)200 °C to 800 °C	1.16 °C
5	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - J Type	Using Digital Temperature Calibrator by Direct Method	(-)200 °C to 1200 °C	1.85 °C
6	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - K Type	Using Digital Temperature Calibrator by Direct method	(-)200 °C to 1300 °C	1.94 °C

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7	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - R Type	Using Digital Temperature Calibrator by Direct method	0 °C to 1750 °C	3.32 °C
8	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - S Type	Using Digital Temperature Calibrator by Direct method	0 °C to 1750 °C	3.32 °C
9	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer/Stop Watch Calibrator by comparison Method	1 s to 10 s	0.12 s
10	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer/Stop Watch Calibrator by Comparison Method	10 s to 1 hr	0.7 s to 0.85 s
11	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer/Stop Watch Calibrator by comparison Method	10 s to 60 s	0.12 s
12	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer/Stop Watch Calibrator by comparison Method	1000 s to 1800 s	0.44 s to 0.74 s
13	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer/Stop Watch Calibrator by comparison Method	1800 s to 3600 s	0.45 s to 0.77 s

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14	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer/Stop Watch Calibrator by comparison Method	21600 s to 43200 s	5.43 s to 5.96 s
15	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer/Stop Watch Calibrator by comparison Method	3600 s to 7200 s	0.77 s to 5.30 s
16	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer/Stop Watch Calibrator by comparison Method	43200 s to 86400 s	5.96 s to 11.77 s
17	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer/Stop Watch Calibrator by comparison Method	60 s to 1000 s	0.12 s to 0.74 s
18	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer/Stop Watch Calibrator by comparison Method	7200 s to 21600 s	5.30 s to 5.43 s
19	MECHANICAL-ACCELERATION AND SPEED	Contact Type RPM (RPM Meter, Motor, Rotary Shaker, Mixer, Stirrer)	Using Digital Tachometer (Contact Type) by Comparison method	100 rpm to 1000 rpm	2.63 rpm
20	MECHANICAL-ACCELERATION AND SPEED	Contact Type RPM (RPM Meter, Motor, Rotary Shaker, Mixer, Stirrer)	Using Digital Tachometer (Contact Type) by Comparison method	1000 rpm to 6000 rpm	12.1 rpm
21	MECHANICAL-ACCELERATION AND SPEED	Contact Type RPM (RPM Meter, Motor, Rotary Shaker, Mixer, Stirrer)	Using Digital Tachometer (Contact Type) by Comparison method	30 rpm to 100 rpm	1.0 rpm

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22	MECHANICAL-ACCELERATION AND SPEED	Non Contact Type RPM (Motor, Rotary Shaker, Mixer, Stirrer & Centrifuge)	Using Digital Tachometer (Non Contact Type) by Comparison method	1000 rpm to 6000 rpm	12.1 rpm
23	MECHANICAL-ACCELERATION AND SPEED	Non Contact Type RPM (Motor, Rotary Shaker, Mixer, Stirrer & Centrifuge)	Using Digital Tachometer (Non Contact Type) by Comparison method	30 rpm to 100 rpm	1.0 rpm
24	MECHANICAL-ACCELERATION AND SPEED	Non Contact Type RPM (Motor, Rotary Shaker, Mixer, Stirrer & Centrifuge)	Using Digital Tachometer (Non Contact Type) by Comparison method	6000 rpm to 60000 rpm	23.9 rpm
25	MECHANICAL-ACCELERATION AND SPEED	Non Contact Type RPM (Motor, Rotary Shaker, Mixer, Stirrer & Centrifuge)	Using Digital Tachometer (Non Contact Type) by Comparison method	100 rpm to 1000 rpm	2.63 rpm
26	MECHANICAL-ACCELERATION AND SPEED	RPM Meter with sensor	Using Digital Tachometer (Non Contact Type) and Tachometer Calibrator by comparison method	1000 rpm to 6000 rpm	6.59 rpm
27	MECHANICAL-ACCELERATION AND SPEED	RPM Meter with sensor	Using Digital Tachometer (Non Contact Type) and Tachometer Calibrator by comparison method	50 rpm to 1000 rpm	4.69 rpm
28	MECHANICAL-ACCELERATION AND SPEED	RPM Meter with sensor	Using Digital Tachometer (Non Contact Type) and Tachometer Calibrator by comparison method	6000 rpm to 60000 rpm	23.9 rpm

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29	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Angular) L.C.:1 sec	Using Angle Gauge Set by Comparison Method	Up to 90 °	25.4 sec
30	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Linearity) L.C.: 0.001mm	Using Glass Scale and Slip Gauge set by Comparison Method	0.1 mm to 200 mm	6.0 µm
31	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Magnification)	Using Glass Scale, Slip Gauge set and Digital Caliper by Comparison Method	Up to 50 X	0.42 %
32	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Travelling Microscope L.C.: 0.001mm	Using Glass Scale and Slip Gauge set by Comparison Method	Up to 200 mm	5.5 µm
33	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure, Dial & Digital Gauge	Using Digital Pressure Gauge and Comparator pump by Comparison method as per DKD-R 6-1	0 to 40 bar	0.02 bar
34	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure, Dial & Digital Gauge	Using Digital Pressure Gauge and Comparator pump by Comparison method as per DKD-R 6-1	0 to 400 bar	0.31 bar
35	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure, Dial & Digital Gauge	Using Digital Pressure Gauge and Comparator pump by Comparison method as per DKD-R 6-1	0 to 700 bar	0.18 bar

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36	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure, Dial , Dig. Pressure Gauge, Pressure Transducer with display	Using Digital Pressure Gauge and Comparator pump by Comparison method as per DKD-R 6-1	0 to 7 bar	0.0025 bar
37	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure, Dial , Digital Pressure Gauge, Pressure Transducer with display	Using Digital Pressure Gauge and Comparator pump by Comparison method as per DKD-R 6-1	0 to 1 bar	0.0016 bar
38	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure, Dial, Digital Pressure Gauge, Pressure Transducer with display	Using Digital Pressure Gauge and Comparator pump by Comparison method as per DKD-R 6-1	0 to 30 bar	0.02 bar
39	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge (Negative Pressure)	Using Digital Pressure Gauge and Comparator pump by Comparison method as per DKD-R 6-1	(-) 0.95 bar to 0 bar	0.002 bar
40	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, (Readability: 100 mg & Coarser), Class-II	Using Standard Weights (E1 & E2 Class) by Comparison method	100 mg to 20000 g	0.08 g
41	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Readability: 0.001 mg (Class I & Coarser)	Using Standard Weights (E1 Class) by Comparison method	1 mg to 500 mg	1.0 mg
42	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Readability: 0.001 mg, (Class-I & Coarser)	Using Standard Weights (E1 Class) by Comparison method	1 mg to 20 g	0.016 mg

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43	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Readability: 0.01 mg, (Class-I & Coarser)	Using Standard Weights (E1 Class) by Comparison method	1 mg to 100 g	0.04 mg
44	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Readability: 0.01 mg, (Class-I & Coarser)	Using Standard Weights (E1 Class) by Comparison method	1 mg to 200 g	0.05 mg
45	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Readability: 0.1 mg, (Class-I & Coarser)	Using Standard Weights (E1 Class) by Comparison method	1 mg to 500 g	0.15 mg
46	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Readability: 1 g (Class III & Coarser)	Using Standard Weights (E1, E2 & F1 Class) by Comparison method	1 g to 100 kg	1.6 g
47	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Readability: 1 mg (Class-I & Coarser)	Using Standard Weights (E1 & E2 Class) by Comparison method	1 mg to 1500 g	0.002 g
48	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Readability: 10 g (Class III & Coarser)	Using Standard Weights (E1, E2, F1 & M1 Class) by Comparison method	10 g to 300 kg	7.6 g
49	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Readability: 10 mg (Class-II & Coarser)	Using Standard Weights (E1 & E2 Class) by Comparison method	10 mg to 6000 g	0.008 g
50	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Readability: 100 mg (Class-II & Coarser)	Using Standard Weights (E1 & E2 Class) by Comparison method	100 mg to 30000 g	0.07 g
51	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Readability: 5 g, (Class-IV & Coarser)	Using Standard Weights (E1, E2 & F1 Class) by Comparison method	5 g to 200 kg	7.0 g

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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)(±)
52	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with sensor of Humidity Chamber, Environmental Chamber, Conditioning Chamber (Single Position)	Using Digital Temperature & Humidity Indicator with sensor by Comparison method	10 %rh to 95 %rh @ 25°C	2.0 % rh
53	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with sensor of Humidity Chamber, Environmental Chamber, Conditioning Chamber (Single Position)	Using Digital Temperature & Humidity Indicator with sensor by Comparison method	13 %rh to 90 %rh @ 10°C to 60°C	2.0 % rh
54	THERMAL-TEMPERATURE	Freezer, Refrigerator, Incubators, Oven, Cold Room, Conditioning Chamber, Environmental Chamber, Liquid Bath (Multi Position)	Using Minimum 9 nos. and Maximum16 nos RTD Sensor with Data Logger by Comparison method	(-)40 °C to 250 °C	2.8 °C
55	THERMAL-TEMPERATURE	Indicator with sensor of Dry Block Bath, Muffle Furnace (Single Position)	Using S type thermocouple and Thermometer Readout by Comparison method	600 °C to 1200 °C	1.72 °C
56	THERMAL-TEMPERATURE	Indicator with sensor of Liquid and Dry Block Bath, Muffle Furnace (Single Position)	Using SPRT and Thermometer Readout by Comparison method	(-)80 °C to 600 °C	0.26 °C

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PARASHAR MICRO MEASUREMENT PRIVATE LIMITED, B-59, SECTOR-64, NOIDA, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

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57	THERMAL-TEMPERATURE	RTD's, Thermocouples with or Without Controller/ Indicator/ Data Logger/ Recorder, Temperature Transmitter with Indicator, Temperature Gauges, Digital Thermometers	Using SPRT and Thermometer Readout and Temperature Dry Block Bath by Comparison method	40 °C to 500 °C	0.34 °C
58	THERMAL-TEMPERATURE	Temperature Indicator/Controller/ Thermostat of Deep Freezers, Refrigerator, Oven, Water Bath, Environmental / Conditioning Chamber, Non-Medical Industrial Incubator, B.O.D Incubator (Single position)	Using SPRT and Thermometer Readout by Comparison method	(-)80 °C to 300 °C	0.60 °C
59	THERMAL-TEMPERATURE	Thermocouples with & Without Controller/ Indicator/ Data Logger/ Recorder, Temperature Transmitter with Indicator, Digital Thermometers	Using 'S' Type Thermocouple and Thermometer Readout and Temperature Dry Block Bath by Comparison method	500 °C to 1200 °C	2.90 °C

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