



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

GALAXY TEST & CALIBRATION LAB

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

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

for its facilities at

B-107 & B-108, 1ST FLOOR, GANPATI PLAZA, BHIWADI, ALWAR, RAJASTHAN, INDIA

in the field of

CALIBRATION

Certificate Number: CC-2707

Issue Date: 14/08/2022

Valid Until:

13/08/2024

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Identity : GALAXY TEST & CALIBRATION LAB

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : GALAXY TEST & CALIBRATION LAB, B-107 & B-108,1ST FLOOR ,GANPATI PLAZA, BHIWADI, ALWAR, RAJASTHAN, 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 (Frequency 50 Hz to 1 kHz)	Using 6½ Digital Multi-meter By Direct Method	10 µA to 2 mA	1.15 % to 0.52 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (Frequency 50 Hz to 1 kHz)	Using 6½ Digital Multi-meter By Direct Method	2 mA to 200 mA	0.52 % to 0.35 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (Frequency 50 Hz to 1 kHz)	Using 6½ Digital Multi-meter By Direct Method	200 mA to 10 A	0.35 % to 0.25 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (Frequency 50 Hz to 1 kHz)	Using 6½ Digital Multi-meter By Direct Method	1 mV to 100 mV	0.52 % to 0.12 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (Frequency 50 Hz to 1 kHz)	Using 6½ Digital Multi-meter By Direct Method	100 mV to 1000 V	0.12 % to 0.11 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using Digital LCR-Q-Meter By direct Method	100 pF to 100 µF	0.3 % to 0.51 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @1 kHz	Using Digital LCR-Q-Meter By direct Method	100 µH to 10 H	0.45%
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (Frequency 50 Hz to 1 kHz)	Using Universal Calibration system by Direct Method	300 mA to 20 A	0.2 % to 0.39 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (Frequency 50 Hz)	Using Universal Calibration system with Current Coil by Direct Method	50 A to 1000 A	0.39 % to 0.73 %



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10	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power (Frequency 50 Hz) Cos Ø:1 (40 V To 600 Volt) (100 mA to 20 A)	Using Multi-Product Calibrator by Direct Method	4 W to 12 kW	2.0%
11	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage at(Frequency 50 Hz to 1 kHz)	Using Universal Calibration system by Direct Method	10 mV to 30 mV	1.16 % to 0.12 %
12	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage at(Frequency 50 Hz to 1 kHz)	Using Universal Calibration system by Direct Method	30 mV to 30 V	0.12 % to 0.06 %
13	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage at(Frequency 50 Hz to 1 kHz)	Using Universal Calibration system by Direct Method	30 V to 1000 V	0.06 % to 0.08 %
14	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1kHz	Using Universal Calibration system by Direct Method	1 nF to 4 µF	4.21 % to 1.1 %
15	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1kHz	Using Universal Calibration system by Direct Method	4 µF to 10 mF	1.1 % to 3.7 %



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16	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz (240 V & 5A)	Using Multi-Product Calibrator by Direct Method	0.1 (Lag/ Lead) to 1 (Lag/ Lead)	1.9%
17	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multi-meter By Direct Method	200 mA to 10 A	0.071 % to 0.21 %
18	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multi-meter & MFC By Comparison Method	1 µA to 20 µA	3.01 % to 0.22 %
19	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multi-meter By Direct Method	1 µA to 20 µA	3.01 % to 0.22 %
20	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multi-meter & MFC By Comparison Method	20 µA to 200 mA	0.22 % to 0.071 %
21	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multi-meter By Direct Method	20 µA to 200 mA	0.22 % to 0.071 %



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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multi-meter & MFC By Comparison Method	200 mA to 10 A	0.071 % to 0.21 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multi-meter By Direct Method	10 V to 1000 V	0.008 % to 0.019 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multi-meter & MFC By Comparison Method	1 mV to 100 mV	0.8 % to 0.01 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multi-meter & MFC By Comparison Method	10 V to 1000 V	0.008 % to 0.019 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multi-meter By Direct Method	100 mV to 10 V	0.01 % to 0.009 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digital Multi-meter By Direct Method	1 Ohm to 100 Ohm	0.96 % to 0.09 %



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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digital Multi-meter By Direct Method	10 M ohm to 1000 M ohm	0.47 % to 2.3 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digital Multi-meter By Direct Method	100 Ohm to 100 kohm	0.09 % to 0.08 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digital Multi-meter By Direct Method	100 kohm to 10 Mohm	0.08 % to 0.17 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibration system by Direct Method	1 µA to 10 µA	1.45 % to 0.16 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibration system by Direct Method	10 µA to 30 µA	0.16 % to 0.06 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibration system by Direct Method	30 µA to 300 mA	0.06 % to 0.05 %



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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibration system by Direct Method	300 mA to 20 A	0.05 % to 0.37 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Function Process Calibrator By Direct Method	4 mA to 20 mA	0.1%
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibration system with Current Coil by Direct Method	50 A to 1000 A	0.37 % to 0.6 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power Cos Ø:1 (40 V to 600 Volt) (100 mA to 20 A)	Using Multi-Product Calibrator by Direct Method	4 W to 12 kW	0.2 % to 0.9 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibration system by Direct Method	1 mV to 10 mV	0.5 % to 0.08 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Function Process Calibrator By Direct Method	10 mV to 10 V	0.12 % to 0.2 %



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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibration system by Direct Method	10 mV to 30 mV	0.08 % to 0.03 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibration system by Direct Method	30 mV to 30 V	0.03 % to 0.01 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibration system by Direct Method	30 V to 1000 V	0.01 % to 0.013 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Universal Calibration system by Direct Method	40 Ohm to 400 kohm	0.12 % to 0.024 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Universal Calibration system by Direct Method	1 Ohm to 10 Ohm	2.41 % to 0.30 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Universal Calibration system by Direct Method	10 ohm to 19 ohm	0.3 % to 0.12 %



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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Universal Calibration system by Direct Method	190 k ohm to 19 M ohm	0.024 % to 0.073 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Universal Calibration system by Direct Method	40 Mohm to 400 Mohm	0.073 % to 0.44 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Standard Mega Ohm Box by Direct Method	2 Gohm	3.1%
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Standard Mega Ohm Box by Direct Method	2 Mohm	1.31%
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Standard Mega Ohm Box by Direct Method	20 Gohm	6.3%
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Standard Mega Ohm Box by Direct Method	20 Mohm	1.45%



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52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Standard Mega Ohm Box by Direct Method	200 Mohm	2.63%
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Standard Resistance Box by Direct Method	0.001 Ohm	0.24%
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Standard Resistance Box by Direct Method	0.01 Ohm	0.24%
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Standard Resistance Box by Direct Method	0.1 Ohm	0.24%
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Standard Resistance Box by Direct Method	1 kohm	0.24%
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Standard Resistance Box by Direct Method	1 Ohm	0.28%



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58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Standard Resistance Box by Direct Method	10 Ohm	0.24%
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Standard Resistance Box by Direct Method	100 Ohm	0.24%
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Source ("R" Type Thermocouple)	Using Temperature Scanner By Direct Method	0 to 1700 °C	1.4°C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Source ("B" Type Thermocouple)	Using Temperature Scanner By Direct Method	600 °C to 1800 °C	1.6°C
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Source ("J" Type Thermocouple)	Using Temperature Scanner By Direct Method	(-) 200 °C to 1200 °C	1.04°C
63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Source ("K" Type Thermocouple)	Using Temperature Scanner By Direct Method	(-) 200 °C to 1200 °C	1.01°C



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64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Source ("S" Type Thermocouple)	Using Temperature Scanner By Direct Method	0 to 1700 °C	1.5°C
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Source ("T" Type Thermocouple)	Using Temperature Scanner By Direct Method	(-) 200 °C to 400 °C	0.77°C
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Source (RTD ("Pt100" Type))	Using Temperature Scanner By Direct Method	(-) 200 °C to 800 °C	0.6°C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Indicator/Controller/ Recorder ("B" Type Thermocouple)	Using Universal Calibration system by Direct Method	600 °C to 1800 °C	1.1°C
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Indicator/Controller/ Recorder ("E" Type Thermocouple)	Using Universal Calibration system by Direct Method	(-) 200 °C to 1000 °C	0.3°C
69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Indicator/Controller/ Recorder ("J" Type Thermocouple)	Using Universal Calibration system by Direct Method	(-) 200 °C to 1200 °C	0.32°C



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70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Indicator/Controller/Recorder ("K" Type Thermocouple)	Using Universal Calibration system by Direct Method	(-) 200 °C to 1200 °C	0.37°C
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Indicator/Controller/Recorder ("N" Type Thermocouple)	Using Universal Calibration system by Direct Method	(-) 200 °C to 1200 °C	0.4°C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Indicator/Controller/Recorder ("R" Type Thermocouple)	Using Universal Calibration system by Direct Method	0 °C to 1700 °C	1.01°C
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Indicator/Controller/Recorder ("S" Type Thermocouple)	Using Universal Calibration system by Direct Method	0 °C to 1700 °C	1.0°C
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Indicator/Controller/Recorder ("T" Type Thermocouple)	Using Universal Calibration system By Direct Method	(-) 200 °C to 400 °C	0.33°C
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Indicator/Controller/Recorder (RTD ("Pt100" Type))	Using Universal Calibration system by Direct Method	(-) 200 °C to 800 °C	0.56°C



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76	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multi-meter By Direct Method	10 Hz to 1 MHz	0.12 % to 0.01 %
77	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer/ Digital Timer / Hour Meter / Digital Hour Meter / Digital Time Interval Meter/ Stop Watch	Using Time Totalizer By Comparison Method	10 Sec to 24 Hours	0.417 Sec to 111.4 Sec
78	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Universal Calibration system by Direct Method	1 Hz to 1 MHz	0.6 % to 0.06 %
79	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Universal Calibration system by Direct Method	1 MHz to 10 MHz	0.06 % to 0.006 %
80	MECHANICAL-ACCELERATION AND SPEED	Contact type rpm (Digital/Analogue Tachometer / RPM Meter / Tachometer Meter Calibrator)	Using standard digital tachometer & RPM source by comparison method/By Using SANAS TR45-02	10 rpm to 100 rpm	1.4rpm



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81	MECHANICAL-ACCELERATION AND SPEED	Contact type rpm (Digital/Analogue Tachometer / RPM Meter / Tachometer Meter Calibrator)	Using standard digital tachometer & RPM source by comparison method/By Using SANAS TR45-02	100 rpm to 3000 rpm	4.8rpm
82	MECHANICAL-ACCELERATION AND SPEED	Contact type rpm (Digital/Analogue Tachometer / RPM Meter / Tachometer Meter Calibrator)	Using standard digital tachometer & RPM source by comparison method/By Using SANAS TR45-02	3000 rpm to 6000 rpm	10.2rpm
83	MECHANICAL-ACCELERATION AND SPEED	NON-Contact type rpm (Digital/Analogue Tachometer & RPM Meter, RPM Meter Of Centrifuge)	Using standard digital tachometer & RPM source by comparison method/By Using SANAS TR45-02	10 rpm to 100 rpm	1.9rpm
84	MECHANICAL-ACCELERATION AND SPEED	NON-Contact type rpm (Digital/Analogue Tachometer & RPM Meter, RPM Meter Of Centrifuge)	Using standard digital tachometer & RPM source by comparison method/By Using SANAS TR45-02	100 rpm to 10000 rpm	10.1rpm
85	MECHANICAL-ACCELERATION AND SPEED	NON-Contact type rpm (Digital/Analogue Tachometer & RPM Meter, RPM Meter Of Centrifuge)	Using standard digital tachometer & RPM source by comparison method/By Using SANAS TR45-02	10000 rpm to 50000 rpm	41rpm



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86	MECHANICAL-ACOUSTICS	Digital/Analogue Sound Level Meter (@ 1 kHz)	using Sound Calibrator by Direct Method	114 dB	1.2dB
87	MECHANICAL-ACOUSTICS	Digital/Analogue Sound Level Meter (@ 1 kHz)	using Sound Calibrator by Direct Method	94 dB	1.0dB
88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector,L.C. 5 min.	Using Steel Angle Gauge Set & Surface Plate by Comparison Method	(0 - 90 -0) Degree	4.5min
89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (For Transmission) Least Count. : 1 µm	Dial Gauge Calibrator by Comparison Method	0 to 1 mm	3.4µm
90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (Least Count :0.1 µm)	Using Standard Thickness Foils by Comparison Method	0 to 0.1 mm	8.5µm
91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (Least Count :1 µm)	Using Standard Thickness Foils by Comparison Method	0.1 mm to 0.7 mm	3.1µm



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92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set / Angle protector L.C. 1 Degree	Using Steel Angle Gauge Set & Surface Plate by Comparison Method	(0-90-0) Degree	35min
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper (Digital/Dial/Scale) L.C. : 0.01 mm	Using Set of slip gauge grade '0' by comparison method	0 to 150 mm	8.9µm
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer L.C. : 0.001 mm	Using Set of slip gauge grade '0' comparison method	0 to 25 mm	8.5µm
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge (Lever Type) L.C. : 0.001 mm	Dial Gauge Calibrator by Comparison Method	0 to 0.14 mm	1.8µm
96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge (Lever Type) L.C. : 0.01 mm	Dial Gauge Calibrator by Comparison Method	0 to 0.8 mm	6.0µm



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97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge (Plunger type) L.C. : 0.001 mm	Dial Gauge Calibrator by Comparison Method	0 to 1 mm	1.8µm
98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge (Plunger type) L.C. : 0.001 mm	Dial Gauge Calibrator by Comparison Method	0 to 12.7 mm	1.2µm
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge (Plunger type) L.C. : 0.01 mm	Dial Gauge Calibrator by Comparison Method	0 to 25 mm	5.9µm
100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Digital/Dial/Scale) L.C. : 0.0001 mm	Using Set of slip gauge grade '0' by comparison method	0 to 25 mm	0.9µm
101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Digital/Dial/Scale) L.C. : 0.001 mm	Using Set of slip gauge grade '0' by comparison method	0 to 100 mm	1.8µm



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102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Digital Micrometer by Comparison Method	0 to 1 mm	2.6µm
103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Digital/Dial/Scale) L.C. : 0.01 mm	Using caliper checker & Surface Plate by comparison method	0 to 300 mm	8.8µm
104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Digital/Dial/Scale) L.C. : 0.01 mm	Using caliper checker & Surface Plate by comparison method	0 to 600 mm	9.5µm
105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Micrometer (Stick type Micrometer) Overall Length Accuracy of Extension Rod	Using Set of slip gauge grade '0' & caliper checker by comparison method	100 mm to 600 mm	0.0105mm
106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Micrometer Stick Micrometer Basic Travel Of Micrometer Head L.C. : 0.01 mm	Using slip gauge set grade '0' by comparison method	50 mm to 100 mm	8.3µm



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107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Set of slip gauge grade '0' by comparison method	25 mm to 75 mm	5.31µm
108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper LC : 0.10 mm	Using slip gauge set grade '0' by comparison method	0 to 100 mm	0.067mm
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using slip gauge set grade '0', Comparator Stand With Dial Gauge by Comparison Method	1 mm to 100 mm	5.4µm
110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using slip gauge set grade '0' by comparison method	3 mm to 100 mm	1.21µm
111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Gauge L.C : 0.001 mm	Using Set of slip gauge grade '0' by comparison method	0 to 25 mm	6.6µm



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112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Flatness)	Using slip gauge set grade '0' ,Straight Mandrel, Lever dial Gauge & Surface Plate by Comparison Method	Up to 150 mm	0.0183mm
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Parallelism)	Using slip gauge set grade '0' ,Straight Mandrel, Lever dial Gauge & Surface Plate by Comparison Method	Upto 150 mm	0.0183mm
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Symmetricity)	Using slip gauge set grade '0' ,Straight Mandrel, Lever dial Gauge & Surface Plate by Comparison Method	upto 150 mm	0.0183mm
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (Digital/Dial/Scale) (L.C : 0.01 mm)	Using Set of slip gauge grade '0' & caliper checker by comparison method	0 to 150 mm	8.1µm
116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (Digital/Dial/Scale) (L.C : 0.01 mm)	Using Set of slip gauge grade '0' & caliper checker by comparison method	0 to 200 mm	8.12µm



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117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (Digital/Dial/Scale) (L.C : 0.01 mm)	Using Set of slip gauge grade '0' & caliper checker by comparison method	0 to 300 mm	8.41µm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (Digital/Dial/Scale) (L.C : 0.01 mm)	Using Set of slip gauge grade '0' & caliper checker by comparison method	0 to 600 mm	9.5µm
119	MECHANICAL-PRESSURE INDICATING DEVICES	(Digital & Analog) Differential Pressure Gauge / Magnehelic Gauge / Manometer (Pneumatic Pressure)	Digital Manometer By Comparison method based on DKD-R-6-1	0 to 100 mbar	0.68mbar
120	MECHANICAL-PRESSURE INDICATING DEVICES	(Digital & Analog) Differential Pressure Gauge / Magnehelic Gauge / Manometer (Pneumatic Pressure)	Digital Manometer By Comparison method based on DKD-R-6-1	0 to 2.5 mbar	0.062 mbar



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121	MECHANICAL-PRESSURE INDICATING DEVICES	Pnumatic Pressure: Pressure Gauge(Dial, Digital), Pressure Transmitter/Switch/V alve/Transducer With Or Without Indicator (Hydraulic Pressure)/(Pneumatic Pressure)	Digital Pressure Gauge with Pressure Pump, Digital Multimeter By Comparison method based on DKD-R-6-1	0 to 30 bar	0.062bar
122	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge(Dial, Digital), Pressure Transmitter/Switch/T ransducer With Or Without Indicator (Hydraulic Pressure)	Digital Pressure Gauge with Pressure Pump, Digital Multimeter By Comparison method based on DKD-R-6-1	0 to 700 bar	0.44bar
123	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge(Dial, Digital), Pressure Transmitter/Switch/V alve/Transducer With Or Without Indicator(Pneumatic Pressure)	Digital Pressure Gauge with Pressure Pump, Digital Multimeter By Comparison method based on DKD-R-6-1	0 to 4 bar	0.0064bar
124	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge,Dial, Digital, Vacuum Transmitter/Switch/ Transducer With Or Without Indicator	Digital Pressure Gauge with Vacuum Pump, Digital Multimeter By Comparison method based on DKD-R-6-1	(-)-0.92 to 0 bar	0.006bar



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125	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale/ Balanced (Class I and coarser) Readability = 0.01 mg & coarser	Using E2 class weights based on OIML R 76-1	0 to 50 g	0.07mg
126	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale/ Balanced (Class I and coarser) Readability = 0.1 mg & coarser	Using E2 class weights based on OIML R 76-1	0 to 220 g	0.15mg
127	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale/ Balanced (Class II and coarser) Readability = 0.001 g & coarser	Using E2/F1 class weights based on OIML R 76-1	220 g to 1000 g	1.8mg
128	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale/ Balanced (Class II and coarser) Readability = 0.01 g & coarser	Using E2/F1 class weights based on OIML R 76-1	1 kg to 6 kg	12mg
129	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale/ Balanced (Class III and coarser) Readability = 0.1 g & coarser	Using F1 class weights based on OIML R 76-1	6 kg to 20 kg	120mg
130	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale/ Balanced (Class III and coarser) Readability = 5 g & coarser	Using E2/F1 class weights based on OIML R 76-1	20 kg to 50 kg	3g



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131	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale/ Balanced (Class IV and coarser) Readability = 10 g & coarser	Using M1 class weights based on OIML R 76-1	50 kg to 100 kg	6g
132	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale/ Balanced (Class IV and coarser) Readability = 20 g & coarser	Using M1 class weights based on OIML R 76-1	100 kg to 200 kg	12g
133	MECHANICAL-WEIGHTS	Conventional Mass - F1 Class & Coarser	Using E2 Class Standard Weight & Weighing Balance (readability: 0.01 mg) as per OIMLR-111(by Substitution Method of ABBA Weighing Cycle)	1 g	0.018mg
134	MECHANICAL-WEIGHTS	Conventional Mass - F1 Class & Coarser	Using E2 Class Standard Weight & Weighing Balance (readability: 0.01 mg) as per OIMLR-111(by Substitution Method of ABBA Weighing Cycle)	10 g	0.025mg



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135	MECHANICAL-WEIGHTS	Conventional Mass - F1 Class & Coarser	Using E2 Class Standard Weight & Weighing Balance (readability: 0.1 mg) as per OIMLR-111(by Substitution Method of ABBA Weighing Cycle)	100 g	0.11mg
136	MECHANICAL-WEIGHTS	Conventional Mass - F1 Class & Coarser	Using E2 Class Standard Weight & Weighing Balance (readability: 0.01 mg) as per OIMLR-111(by Substitution Method of ABBA Weighing Cycle)	100 mg	0.013mg
137	MECHANICAL-WEIGHTS	Conventional Mass - F1 Class & Coarser	Using E2 Class Standard Weight & Weighing Balance (readability: 0.01 mg) as per OIMLR-111(by Substitution Method of ABBA Weighing Cycle)	2 g	0.018mg



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138	MECHANICAL-WEIGHTS	Conventional Mass - F1 Class & Coarser	Using E2 Class Standard Weight & Weighing Balance (readability: 0.01 mg) as per OIMLR-111(by Substitution Method of ABBA Weighing Cycle)	20 g	0.028mg
139	MECHANICAL-WEIGHTS	Conventional Mass - F1 Class & Coarser	Using E2 Class Standard Weight & Weighing Balance (readability: 0.1 mg) as per OIMLR-111(by Substitution Method of ABBA Weighing Cycle)	200 g	0.14mg
140	MECHANICAL-WEIGHTS	Conventional Mass - F1 Class & Coarser	Using E2 Class Standard Weight & Weighing Balance (readability: 0.01 mg) as per OIMLR-111(by Substitution Method of ABBA Weighing Cycle)	200 mg	0.015mg



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141	MECHANICAL-WEIGHTS	Conventional Mass - F1 Class & Coarser	Using E2 Class Standard Weight & Weighing Balance (readability: 0.01 mg) as per OIMLR-111(by Substitution Method of ABBA Weighing Cycle)	5 g	0.023mg
142	MECHANICAL-WEIGHTS	Conventional Mass - F1 Class & Coarser	Using E2 Class Standard Weight & Weighing Balance (readability: 0.01 mg) as per OIMLR-111(by Substitution Method of ABBA Weighing Cycle)	50 mg	0.012mg
143	MECHANICAL-WEIGHTS	Conventional Mass - F1 Class & Coarser	Using E2 Class Standard Weight & Weighing Balance (readability: 0.01 mg) as per OIMLR-111(by Substitution Method of ABBA Weighing Cycle)	50 g	0.034mg



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144	MECHANICAL-WEIGHTS	Conventional Mass - F1 Class & Coarser	Using E2 Class Standard Weight & Weighing Balance (readability: 0.01 mg) as per OIMLR-111(by Substitution Method of ABBA Weighing Cycle)	500 mg	0.018mg
145	MECHANICAL-WEIGHTS	Conventional Mass - F2 Class & Coarser	Using E2 Class Standard Weight & Weighing Balance (readability: 0.01 mg) as per OIMLR-111(by Substitution Method of ABBA Weighing Cycle)	1 mg	0.01mg
146	MECHANICAL-WEIGHTS	Conventional Mass - F2 Class & Coarser	Using E2 Class Standard Weight & Weighing Balance (readability: 0.01 mg) as per OIMLR-111(by Substitution Method of ABBA Weighing Cycle)	10 mg	0.012mg



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147	MECHANICAL-WEIGHTS	Conventional Mass - F2 Class & Coarser	Using F1 Class Standard Weight & Weighing Balance (readability: 0.001g) as per OIMLR-111(by Substitution Method of ABBA Weighing Cycle)	1000 g	2mg
148	MECHANICAL-WEIGHTS	Conventional Mass - F2 Class & Coarser	Using E2 Class Standard Weight & Weighing Balance (readability: 0.01 mg) as per OIMLR-111(by Substitution Method of ABBA Weighing Cycle)	2 mg	0.01mg
149	MECHANICAL-WEIGHTS	Conventional Mass - F2 Class & Coarser	Using E2 Class Standard Weight & Weighing Balance (readability: 0.01 mg) as per OIMLR-111(by Substitution Method of ABBA Weighing Cycle)	20 mg	0.012mg



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150	MECHANICAL-WEIGHTS	Conventional Mass - F2 Class & Coarser	Using F1 Class Standard Weight & Weighing Balance (readability: 0.01g) as per OIMLR-111(by Substitution Method of ABBA Weighing Cycle)	2000 g	10mg
151	MECHANICAL-WEIGHTS	Conventional Mass - F2 Class & Coarser	Using E2 Class Standard Weight & Weighing Balance (readability: 0.01 mg) as per OIMLR-111(by Substitution Method of ABBA Weighing Cycle)	5 mg	0.01mg
152	MECHANICAL-WEIGHTS	Conventional Mass - F2 Class & Coarser	Using F1 Class Standard Weight & Weighing Balance (readability: 0.001g) as per OIMLR-111(by Substitution Method of ABBA Weighing Cycle)	500 g	1.3mg



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153	MECHANICAL-WEIGHTS	Conventional Mass - F2 Class & Coarser	Using F1 Class Standard Weight & Weighing Balance (readability: 0.01g) as per OIMLR-111(by Substitution Method of ABBA Weighing Cycle)	5000 g	12.8mg
154	MECHANICAL-WEIGHTS	Conventional Mass - M1 Class & Coarser	Using F1 Class Standard Weight & Weighing Balance (readability: 0.1g) as per OIMLR- 111(by Substitution Method of ABBA Weighing Cycle)	10000 g	100mg
155	MECHANICAL-WEIGHTS	Conventional Mass - M1 Class & Coarser	Using F1 Class Standard Weight & Weighing Balance (readability: 0.1g) as per OIMLR- 111(by Substitution Method of ABBA Weighing Cycle)	20000 g	120mg
156	THERMAL-SPECIFIC HEAT & HUMIDITY	Digital / Analogue Hygrometer, Rh Sensor With Controller/ Indicator/Recorder/ Data Logger @25°C	RH & Temperature Indicator with Temp. & Humidity Chamber, BY Comparison Calibration	15 %rh to 95 %rh	0.95%rh



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157	THERMAL-SPECIFIC HEAT & HUMIDITY	Digital / Analogue Thermo hygrometer, Rh & Temp. Sensor With Controller/ Indicator/Recorder/ Data Logger @50 % RH	RH & Temperature Indicator with Temp. & Humidity Chamber, BY Comparison Calibration	10 °C to 50 °C	0.4°C
158	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity & Temperature Sensor with indicator of Industrial Environment Chamber/ Humidity Chamber @ 50 %RH (Single Position)	Using Humidity & Temperature Indicator By Comparison Method	10 °C to 50 °C	0.4°C
159	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Sensor with indicator of Industrial Environment Chamber/ Humidity Chamber @ 25°C (Single Position)	Using Humidity & Temperature Indicator by Comparison method	15 % rh to 95 % rh	0.93% rh
160	THERMAL-TEMPERATURE	Temperature Indicator With Sensor of Furnace, Muffle Furnace, Dry Block Furnace (Single Position)	Using S-Type Thermocouple With Data Scanner by Comparison Method	300 °C to 1200 °C	2.5°C



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161	THERMAL-TEMPERATURE	Temperature Transmitter, Thermocouple With Or Without Indicator/Controller / Data Logger/ Recorder, Temperature Gauge , Digital Thermometer	Using S-Type Thermocouple With Data Scanner,(Super DAQ for without Indicator) & Dry Block Furnace By Comparison Method	400 °C to 1200 °C	2.4°C
162	THERMAL-TEMPERATURE	Temperature Transmitter, RTD, Thermocouple With Or Without Indicator/Controller / Data Logger/ Recorder, Temperature Gauge , Digital Thermometer	Using SPRT with Data Scanner (Super DAQ for without Indicator) & Liquid Nitrogen Bath By Comparison Method	-196 °C	0.32°C
163	THERMAL-TEMPERATURE	Temperature Transmitter, RTD, Thermocouple With Or Without Indicator/Controller / Data Logger/ Recorder, Temperature Gauge , Digital Thermometer	Using SPRT with Data Scanner (Super DAQ for without Indicator) & Dry Block Furnace By Comparison Method	250 °C to 400 °C	1.04°C



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164	THERMAL-TEMPERATURE	Temperature Transmitter, RTD, Thermocouple With Or Without Indicator/Controller / Data Logger/ Recorder, Temperature Gauge , Digital Thermometer, Glass Thermometer	Using SPRT with Data Scanner, (Super DAQ for without Indicator) & Oil Bath By Comparison Method	50 °C to 250 °C	0.35°C
165	THERMAL-TEMPERATURE	Temperature indicator with sensor of Oven, Chambers, Incubator (non medical pupose only), Liquid Bath, Dry Block Furnace (Single Position)	Using SPRT With Data Scanner by Comparison Method	50 °C to 400 °C	0.88°C
166	THERMAL-TEMPERATURE	Temperature Transmitter, RTD, Thermocouple With Or Without Indicator/Controller / Data Logger/ Recorder, Temperature Gauge , Digital Thermometer, Glass Thermometer	Using SPRT with Data Scanner (Super DAQ for without Indicator) & Low Temperature Bath By Comparison Method	-40 °C to 50 °C	0.34°C



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (Frequency 50 Hz to 1 kHz)	Using 6½ Digital Multi-meter By Direct Method	10 µA to 2 mA	1.15 % to 0.52 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (Frequency 50 Hz to 1 kHz)	Using 6½ Digital Multi-meter By Direct Method	2 mA to 200 mA	0.52 % to 0.35 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (Frequency 50 Hz to 1 kHz)	Using 6½ Digital Multi-meter By Direct Method	200 mA to 10 A	0.35 % to 0.25 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Energy (1Phase,3Phase) 50V to 240V, 0.1A to 100A & PF to 0.5 (Lag/Lead) (At Frequency 50 Hz)	Using Energy Logger By Comparison Method	0.1 kWh to 24 kWh	2.17%



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5	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Power (Active) at 50 Hz (1Phase,3Phase)(40 V To 600 V, 100 mA to 20 A, PF:0.5 (Lag/Lead)	Using Energy Logger By Comparison Method	0.0025 kW to 36 kW	0.7%
6	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Power (Active) at 50 Hz 1Phase,3Phase, (40 V To 600 V, 100 mA to 20 A, UPF)	Using Energy Logger By Comparison Method	0.005 kW to 72 kW	0.7%
7	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Power (Apparent) at 50 Hz 1Phase,3Phase, (40 V To 600 V, 100 mA to 20 A, UPF)	Using Energy Logger By Comparison Method	0.005 kVA to 72 kVA	0.7%
8	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Power (Reactive) at 50 Hz 1Phase,3Phase, (40 V To 600 V, 100 mA to 20 A, UPF)	Using Energy Logger By Comparison Method	0.005 kVAr to 72 kVAr	0.7%
9	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage (Frequency 50 Hz to 1 kHz)	Using 6½ Digital Multi-meter By Direct Method	1 mV to 100 mV	0.52 % to 0.12 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (Frequency 50 Hz to 1 kHz)	Using 6½ Digital Multi-meter By Direct Method	100 mV to 1000 V	0.12 % to 0.11 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	High Voltage (AC)	Using HV Probe with Digital Multimeter By Direct Method	1 kV to 27 kV	6.32%
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor @50 Hz (240 V & 5A)	Using Energy Logger By Comparison Method	0.1 (Lag/Lead) to 1 (Lag/Lead)	2.89%
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (Frequency 50 Hz to 1 kHz)	Using Multi-Product Calibrator by Direct Method	100 µA to 300 mA	1.6 % to 0.30 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (Frequency 50 Hz to 1 kHz)	Using Multi-Product Calibrator by Direct Method	300 mA to 20 A	0.30 % to 0.8 %



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15	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power (Frequency 50 Hz) Cos Ø:1 (40 V To 600 Volt) (100 mA to 20 A)	Using Multi-Product Calibrator by Direct Method	4 W to 12 kW	2.0%
16	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage (Frequency 50 Hz to 1 kHz)	Using Multi-Product Calibrator by Direct Method	10 mV to 30 mV	1.2 % to 0.61 %
17	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage (Frequency 50 Hz to 1 kHz)	Using Multi-Product Calibrator by Direct Method	30 mV to 30 V	0.61 % to 0.147 %
18	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage (Frequency 50 Hz to 1 kHz)	Using Multi-Product Calibrator by Direct Method	30 V to 1000 V	0.147 % to 0.184 %
19	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz (240 V & 5A)	Using Multi-Product Calibrator by Direct Method	0.1 (Lag/ Lead) to 1 (Lag/ Lead)	1.9%
20	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multi-meter By Direct Method	200 mA to 10 A	0.071 % to 0.21 %



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21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multi-meter By Direct Method	1 µA to 20 µA	3.01 % to 0.22 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multi-meter By Direct Method	20 µA to 200 mA	0.22 % to 0.071 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multi-meter By Direct Method	10 V to 1000 V	0.008 % to 0.019 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multi-meter By Direct Method	100 mV to 10 V	0.01 % to 0.009 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	High Voltage (DC)	Using HV Probe with Digital Multimeter By Direct Method	1 kV to 35 kV	3.02%
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digital Multi-meter By Direct Method	1 Ohm to 100 Ohm	0.96 % to 0.09 %



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27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digital Multi-meter By Direct Method	10 M ohm to 1000 M ohm	0.47 % to 2.3 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digital Multi-meter By Direct Method	100 Ohm to 100 kohm	0.09 % to 0.08 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digital Multi-meter By Direct Method	100 kohm to 10 Mohm	0.08 % to 0.17 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Product Calibrator by Direct Method	1 µA to 10 µA	11.6 % to 1.25 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Product Calibrator by Direct Method	10 µA to 30 µA	1.25 % to 0.47 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Product Calibrator by Direct Method	30 µA to 300 mA	0.472 % to 0.08 %



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33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Product Calibrator by Direct Method	300 mA to 20 A	0.08 % to 0.67 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Function Process Calibrator By Direct Method	4 mA to 20 mA	0.1%
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power Cos Ø:1 (40 V to 600 Volt) (100 mA to 20 A)	Using Multi-Product Calibrator by Direct Method	4 W to 12 kW	0.2 % to 0.9 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi-Product Calibrator by Direct Method	1 mV to 10 mV	1.30 % to 0.14 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Function Process Calibrator By Direct Method	10 mV to 10 V	0.12 % to 0.2 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi-Product Calibrator by Direct Method	10 mV to 30 mV	0.14 % to 0.06 %



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39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi-Product Calibrator by Direct Method	30 mV to 30 V	0.06 % to 0.12 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi-Product Calibrator by Direct Method	30 V to 1000 V	0.12 % to 0.016 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi-Product Calibrator by Direct Method	1 Ohm to 10 Ohm	1.5 % to 0.18 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi-Product Calibrator by Direct Method	10 Ohm to 40 Ohm	0.20 % to 0.06 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi-Product Calibrator by Direct Method	40 Ohm to 400 kohm	0.06 % to 0.049 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi-Product Calibrator by Direct Method	400 kohm to 190 Mohm	0.054 % to 1.16 %



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45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Standard Mega Ohm Box by Direct Method	2 Gohm	3.1%
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Standard Mega Ohm Box by Direct Method	2 Mohm	1.31%
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Standard Mega Ohm Box by Direct Method	20 Gohm	6.3%
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Standard Mega Ohm Box by Direct Method	20 Mohm	1.45%
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Standard Mega Ohm Box by Direct Method	200 Mohm	2.63%
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Standard Resistance Box by Direct Method	0.001 Ohm	0.24%



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51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Standard Resistance Box by Direct Method	0.01 Ohm	0.24%
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Standard Resistance Box by Direct Method	0.1 Ohm	0.24%
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Standard Resistance Box by Direct Method	1 kohm	0.24%
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Standard Resistance Box by Direct Method	1 Ohm	0.28%
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Standard Resistance Box by Direct Method	10 Ohm	0.24%
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Standard Resistance Box by Direct Method	100 Ohm	0.24%



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57	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multi-meter By Direct Method	10 Hz to 1 MHz	0.12 % to 0.01 %
58	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer/ Digital Timer / Hour Meter / Digital Hour Meter / Digital Time Interval Meter/ Stop Watch	Using Time Totalizer By Comparison Method	10 Sec to 24 Hours	0.417 Sec to 111.4 Sec
59	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi-Product Calibrator by Direct Method	45 to 1000 Hz	0.02 % to 0.01 %
60	MECHANICAL-ACCELERATION AND SPEED	Contact type rpm (Digital/Analogue Tachometer / RPM Meter / Tachometer Meter Calibrator)	Using standard digital tachometer & RPM source by comparison method/By Using SANAS TR45-02	10 rpm to 100 rpm	1.4rpm
61	MECHANICAL-ACCELERATION AND SPEED	Contact type rpm (Digital/Analogue Tachometer / RPM Meter / Tachometer Meter Calibrator)	Using standard digital tachometer & RPM source by comparison method/By Using SANAS TR45-02	100 rpm to 3000 rpm	4.8rpm



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62	MECHANICAL-ACCELERATION AND SPEED	Contact type rpm (Digital/Analogue Tachometer / RPM Meter / Tachometer Meter Calibrator)	Using standard digital tachometer & RPM source by comparison method/By Using SANAS TR45-02	3000 rpm to 6000 rpm	10.2rpm
63	MECHANICAL-ACCELERATION AND SPEED	NON-Contact type rpm (Digital/Analogue Tachometer & RPM Meter, RPM Meter Of Centrifuge)	Using standard digital tachometer & RPM source by comparison method/By Using SANAS TR45-02	10 rpm to 100 rpm	1.9rpm
64	MECHANICAL-ACCELERATION AND SPEED	NON-Contact type rpm (Digital/Analogue Tachometer & RPM Meter, RPM Meter Of Centrifuge)	Using standard digital tachometer & RPM source by comparison method/By Using SANAS TR45-02	100 rpm to 10000 rpm	10.1rpm
65	MECHANICAL-ACCELERATION AND SPEED	NON-Contact type rpm (Digital/Analogue Tachometer & RPM Meter, RPM Meter Of Centrifuge)	Using standard digital tachometer & RPM source by comparison method/By Using SANAS TR45-02	10000 rpm to 50000 rpm	41rpm
66	MECHANICAL-PRESSURE INDICATING DEVICES	(Digital & Analog) Differential Pressure Gauge / Magnehelic Gauge / Manometer (Pneumatic Pressure)	Digital Manometer By Comparison method based on DKD-R-6-1	0 to 100 mbar	0.68mbar



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67	MECHANICAL-PRESSURE INDICATING DEVICES	(Digital & Analog) Differential Pressure Gauge / Magnehelic Gauge / Manometer (Pneumatic Pressure)	Digital Manometer By Comparison method based on DKD-R-6-1	0 to 2.5 mbar	0.062 mbar
68	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Pressure Gauge(Dial, Digital), Pressure Transmitter/Switch/Valve/Transducer With Or Without Indicator (Hydraulic Pressure)/(Pneumatic Pressure)	Digital Pressure Gauge with Pressure Pump, Digital Multimeter By Comparison method based on DKD-R-6-1	0 to 30 bar	0.062bar
69	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge(Dial, Digital), Pressure Transmitter/Switch/Transducer With Or Without Indicator (Hydraulic Pressure)	Digital Pressure Gauge with Pressure Pump, Digital Multimeter By Comparison method based on DKD-R-6-1	0 to 700 bar	0.44bar
70	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge(Dial, Digital), Pressure Transmitter/Switch/Valve/Transducer With Or Without Indicator(Pneumatic Pressure)	Digital Pressure Gauge with Pressure Pump, Digital Multimeter By Comparison method based on DKD-R-6-1	0 to 4 bar	0.0064bar



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71	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge,Dial, Digital, Vacuum Transmitter/Switch/ Transducer With Or Without Indicator	Digital Pressure Gauge with Vacuum Pump, Digital Multimeter By Comparison method based on DKD-R-6-1	(-)0.92 to 0 bar	0.006bar
72	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale/ Balanced (Class I and coarser) Readability = 0.01 mg & coarser	Using E2 class weights based on OIML R 76-1	0 to 50 g	0.07mg
73	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale/ Balanced (Class I and coarser) Readability = 0.1 mg & coarser	Using E2 class weights based on OIML R 76-1	0 to 220 g	0.15mg
74	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale/ Balanced (Class II and coarser) Readability = 0.001 g & coarser	Using E2/F1 class weights based on OIML R 76-1	220 g to 1000 g	1.8mg
75	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale/ Balanced (Class II and coarser) Readability = 0.01 g & coarser	Using E2/F1 class weights based on OIML R 76-1	1 kg to 6 kg	12mg



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76	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale/ Balanced (Class III and coarser) Readability = 0.1 g & coarser	Using F1 class weights based on OIML R 76-1	6 kg to 20 kg	120mg
77	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale/ Balanced (Class III and coarser) Readability = 5 g & coarser	Using E2/F1 class weights based on OIML R 76-1	20 kg to 50 kg	3g
78	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale/ Balanced (Class IV and coarser) Readability = 10 g & coarser	Using M1 class weights based on OIML R 76-1	50 kg to 100 kg	6g
79	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale/ Balanced (Class IV and coarser) Readability = 20 g & coarser	Using M1 class weights based on OIML R 76-1	100 kg to 200 kg	12g
80	THERMAL-SPECIFIC HEAT & HUMIDITY	Environment Chamber, Humidity Chamber @ 25°C (Multi position)	Using wireless Humidity Data logger (minimum 9 Nos) (Inbuilt Sensor) by Multi Position Calibration Method	30 % rh to 85 % rh	3.9% rh



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81	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity & Temperature Sensor with indicator of Industrial Environment Chamber/ Humidity Chamber @ 50 %RH (Single Position)	Using Humidity & Temperature Indicator By Comparison Method	10 °C to 50 °C	0.4°C
82	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Sensor with indicator of Industrial Environment Chamber/ Humidity Chamber @ 25°C (Single Position)	Using Humidity & Temperature Indicator by Comparison method	15 % rh to 95 % rh	0.93% rh
83	THERMAL-TEMPERATURE	Environment Chamber, Incubator (non medical pupose only) Ovens (Multi Position)	Using Data Logger with RTD Sensor(minimum 9 Nos) by Multi Position Calibration Method	50 °C to 250 °C	2.4°C
84	THERMAL-TEMPERATURE	Freezer, Environment Chamber (Multi Position)	Using Data Logger with RTD Sensor(minimum 9 Nos) by Multi Position Calibration Method	-30 °C to 50 °C	2.4°C



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85	THERMAL-TEMPERATURE	Industrial Furnace/ Muffle Furnace (Multi Position)	Using Data Logger with 'N'-type thermocouple by Multi Position Calibration Method	250 °C to 1200 °C	4.4°C
86	THERMAL-TEMPERATURE	Temperature Indicator With Sensor of Furnace, Muffle Furnace, Dry Block Furnace (Single Position)	Using S-Type Thermocouple With Data Scanner by Comparison Method	300 °C to 1200 °C	2.5°C
87	THERMAL-TEMPERATURE	Temperature Indicator With Sensor of Oven, Chambers, Incubator (non medical pupose only), Liquid Bath (Single Position Calibration)	Using SPRT With Data Scanner by Comparison Method	-80 °C to 50 °C	0.88°C
88	THERMAL-TEMPERATURE	Temperature Transmitter, Thermocouple With Or Without Indicator/Controller / Data Logger/ Recorder, Temperature Gauge , Digital Thermometer	Using S-Type Thermocouple With Data Scanner,(Super DAQ for without Indicator) & Dry Block Furnace By Comparison Method	400 °C to 1200 °C	2.4°C



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89	THERMAL-TEMPERATURE	Temperature Transmitter, RTD, Thermocouple With Or Without Indicator/Controller / Data Logger/ Recorder, Temperature Gauge , Digital Thermometer	Using SPRT with Data Scanner (Super DAQ for without Indicator) & Liquid Nitrogen Bath By Comparison Method	-196 °C	0.32°C
90	THERMAL-TEMPERATURE	Temperature Transmitter, RTD, Thermocouple With Or Without Indicator/Controller / Data Logger/ Recorder, Temperature Gauge , Digital Thermometer	Using SPRT with Data Scanner (Super DAQ for without Indicator) & Dry Block Furnace By Comparison Method	250 °C to 400 °C	1.04°C
91	THERMAL-TEMPERATURE	Temperature Transmitter, RTD, Thermocouple With Or Without Indicator/Controller / Data Logger/ Recorder, Temperature Gauge , Digital Thermometer, Glass Thermometer	Using SPRT with Data Scanner, (Super DAQ for without Indicator) & Oil Bath By Comparison Method	50 °C to 250 °C	0.35°C



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92	THERMAL-TEMPERATURE	Temperature indicator with sensor of Oven, Chambers, Incubator (non medical pupose only), Liquid Bath, Dry Block Furnace (Single Position)	Using SPRT With Data Scanner by Comparison Method	50 °C to 400 °C	0.88°C
93	THERMAL-TEMPERATURE	Temperature Transmitter, RTD, Thermocouple With Or Without Indicator/Controller / Data Logger/ Recorder, Temperature Gauge , Digital Thermometer, Glass Thermometer	Using SPRT with Data Scanner (Super DAQ for without Indicator) & Low Temperature Bath By Comparison Method	-40 °C to 50 °C	0.34°C

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