



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : IQCL INSTRUMENT QUALITY CALIBRATION LLP, 416 MARUTI PLAZA
SARDAR CHOWK KRUSHNANAGAR NARODA, AHMEDABAD, GUJARAT,
INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2683

Validity 02/11/2024 to 01/11/2028

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Last Amended on 06/11/2024

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	Using Standard Current Transformer and 6½ Digit Multimeter by Direct Method	20 A to 2000 A	0.83 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	30 µA to 10 A	0.38 % to 0.28 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with DMM by Direct Method	1 kV to 28 kV	6.42 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	10 mV to 1 kV	0.21 % to 0.1 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Turn Ratio	Using 6½ Digit Multimeter by V/V Method	10 Turn to 4000 Turn	1.68 Turn
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Product Calibrator with 50 Turns Current coil by Direct Method	20 A to 1000 A	0.5 %



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7	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Product Calibrator by Direct Method	30 μ A to 20 A	0.54 % to 0.27 %
8	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multi Product Calibrator by Direct Method	2 mV to 1 kV	1.34 % to 0.07 %
9	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz (230 V, 5 A)	Using Multi Product Calibrator by Direct Method	0.1 PF (Lead / Lag) to UPF	0.004 PF to 0.035 PF
10	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Single Phase AC Active Power @ 50 Hz (120 V to 600 V, 0.01 A to 20 A, UPF)	Using Multi Product Calibrator by Direct Method	1.2 W to 12 kW	1.45 % to 0.51 %
11	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Single Phase AC Active Power @ 50 Hz (120 V to 600 V, 0.1 A to 20 A, 0.1 PF Lead / Lag to 0.8 PF Lead / Lag)	Using Multi Product Calibrator by Direct Method	1.2 W to 9.6 kW	1.33 %
12	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	Capacitance	Using 6½ Digit Multimeter by Direct Method	1 nF to 1 mF	4.65 % to 2.11 %
13	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	10 μ A to 10 A	0.36 % to 0.19 %



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14	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM by Direct Method	1 kV to 40 kV	2.39 % to 3.05 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	10 mV to 1 kV	0.05 % to 0.01 %
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ Digit Multimeter by Direct Method	1 ohm to 1 Gohm	0.35 % to 2.3 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Capacitance	Using Multi Product Calibrator by Direct Method	1 nF to 1 mF	0.81 % to 0.96 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi function Calibrator by Direct Method	1 mA to 25 mA	0.21 % to 0.025 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	10 µA to 20 A	0.25 % to 0.15 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator with 50 Turns Current coil by Direct Method	20 A to 1000 A	0.49 % to 0.41 %



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21	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (10 V to 600 V, 0.5 A to 20 A)	Using Multi Product Calibrator by Direct Method	5 W to 12 kW	0.86 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	0.1 mV to 1 kV	3.71 % to 0.009 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi function Calibrator by Direct Method	1 mV to 12 V	0.8 % to 0.025 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Megaohm Resistance (discrete value in step of 10) by Direct Method	0.1 Mohm to 10 Gohm	1.29 % to 3.52 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Multi Product Calibrator by Direct Method	1 ohm to 1 Gohm	0.69 % to 1.83 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Milliohm Resistance (discrete value in steps of 1/2/5) by Direct Method	5 mohm to 2 kohm	1.3 % to 1.19 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Multi function Calibrator by Direct Method	5 ohm to 4 kohm	0.73 % to 0.047 %



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28	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (AC Voltage) @ 1 kHz	Using Multi Product Calibrator by Direct Method	5 mV to 55 V (p-p)	2.6 % to 0.39 %
29	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (Bandwidth) @ 50 kHz to 300 MHz	Using Multi Product Calibrator by Direct Method	5 mV to 5.5 V (p-p)	14.88 % to 5.74 %
30	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (DC Voltage)	Using Multi Product Calibrator by Direct Method	5 mV to 30 V	2.54 % to 0.74 %
31	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (Time Marker)	Using Multi Product Calibrator by Direct Method	10 ns to 5 s	0.58 % to 0.12 %
32	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT100)	Using Multi function Calibrator by Direct Method	(-) 200 °C to 800 °C	0.4 °C
33	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - B Type	Using Multi Product Calibrator by Direct Method	600 °C to 1800 °C	0.71 °C
34	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - B Type	Using Multi function calibrator by Direct Method	600 °C to 1800 °C	1.25 °C



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35	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - E Type	Using Multi function calibrator by Direct Method	(-) 200 °C to 1000 °C	0.58 °C
36	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - E Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.58 °C
37	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - J Type	Using Multi Product calibrator by Direct Method	(-) 200 °C to 1200 °C	0.32 °C
38	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - J Type	Using Multi function calibrator by Direct Method	(-) 200 °C to 1200 °C	0.36 °C
39	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - K Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1372 °C	0.35 °C
40	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - K Type	Using Multi function calibrator by Direct Method	(-) 200 °C to 1372 °C	0.47 °C
41	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - N Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.36 °C



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42	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - N Type	Using Multi function calibrator by Direct Method	(-) 200 °C to 1300 °C	0.65 °C
43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - R Type	Using Multi function calibrator by Direct Method	0 °C to 1750 °C	0.70 °C
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - R Type	Using Multi Product Calibrator by Direct Method	0 °C to 1750 °C	0.86 °C
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - S Type	Using Multi Product Calibrator by Direct Method	0 °C to 1750 °C	0.54 °C
46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - S Type	Using Multi function Calibrator by Direct Method	0 °C to 1750 °C	0.8 °C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - T Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 400 °C	0.36 °C
48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - T Type	Using Multi function Calibrator by Direct Method	(-) 200 °C to 400 °C	0.73 °C



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49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT100)	Using Multi function calibrator by Direct Method	(-) 200 °C to 800 °C	0.41 °C
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT100)	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 800 °C	0.41 °C
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - B Type	Using Multi function Calibrator by Direct Method	600 °C to 1800 °C	0.71 °C
52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - B Type	Using Multi Product Calibrator by Direct Method	600 °C to 1800 °C	0.71 °C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - E Type	Using Multi function calibrator by Direct Method	(-) 200 °C to 1000 °C	0.31 °C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - E Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.58 °C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - J Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.32 °C



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56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - J Type	Using Multi function Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.35 °C
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - K Type	Using Multi function Calibrator by Direct Method	(-) 200 °C to 1372 °C	0.46 °C
58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - K Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1372 °C	0.46 °C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - N Type	Using Multi function calibrator by Direct Method	(-) 200 °C to 1300 °C	0.36 °C
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - N Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.36 °C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - R Type	Using Multi function Calibrator by Direct Method	0 °C to 1750 °C	0.67 °C
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - R Type	Using Multi Product Calibrator by Direct Method	0 °C to 1750 °C	0.7 °C



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63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - S Type	Using Multi function calibrator by Direct Method	0 °C to 1750 °C	0.54 °C
64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - S Type	Using Multi Product Calibrator by Direct Method	0 °C to 1750 °C	0.54 °C
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - T Type	Using Multi function calibrator by Direct Method	(-) 200 °C to 400 °C	0.36 °C
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - T Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 400 °C	0.36 °C
67	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	10 Hz to 1 MHz	0.035 % to 0.16 %
68	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Interval Meter by Direct Method	100 ms to 5 s	1.52 ms to 0.08 s
69	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Interval Meter by Direct Method	5 s to 7200 s	0.08 s to 0.86 s



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70	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi function Calibrator by Direct Method	1 Hz to 10000 Hz	0.58 % to 0.13 %
71	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	1 Hz to 2 MHz	0.59 %
72	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer and RPM Source by Comparison Method	30 rpm to 9999 rpm	2.04 %
73	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Digital Tachometer and RPM Source by Comparison Method	50 rpm to 99999 rpm	2.04 %
74	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Comparison Method	114 dB	1 dB
75	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Comparison Method	94 dB	1 dB
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor / Inclinator (Angle) (L.C.: 1 minute)	Using Angle Gauge Block by Comparison Method	0° to 90°	1.4 minute of arc
77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge - Transmission Error (L.C.: 1 µm)	Using Dial Calibration Tester by Comparison Method	0 to 1 mm	7.4 µm



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78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 0.1 µm)	Using Standard Thickness Foils by Comparison Method	23 µm to 914 µm	4 µm
79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Measuring Pin	Using Gauge Block Set, Electronic Probe and Comparator Stand by Comparison Method	1 mm to 20 mm	2 µm
80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper (L.C.: 10 µm)	Using Depth Checker and Surface plate by Comparison Method	0 to 300 mm	9.16 µm
81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C.: 10 µm)	Using Depth Checker by Comparison Method	0 to 300 mm	9.6 µm
82	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial / Digital Thickness Gauge (L.C.: 1 µm)	Using Gauge Block Set by Comparison Method	0 to 25 mm	6.91 µm
83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 1 µm)	Using Slip Gauge Block Set, Long Gauge Block and Micrometer Check Set by Comparison Method	>150 mm to 300 mm	6.8 µm



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84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 1 µm)	Using Slip Gauge Block Set and Micrometer Check Set by Comparison Method	0 to 150 mm	2.8 µm
85	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Gauge Block Set, Electronic Probe and Comparator Stand by Comparison Method	0.01 mm to 1 mm	1.9 µm
86	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (L.C.: 10 µm)	Using Caliper Checker and Surface Plate by Comparison Method	0 to 600 mm	14.7 µm
87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge (L.C.: 1 µm)	Using Dial Calibration Tester by Comparison Method	0 to 1 mm	6.9 µm
88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Gauge Block Set, Electronic Probe and Comparator Stand by Comparison Method	25 mm to 275 mm	5.8 µm
89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Gauge Block Set, Electronic Probe and Comparator Stand by Comparison Method	5 mm to 100 mm	3.2 µm



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90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge (L.C.: 1 µm)	Using Dial Calibration Tester by Comparison Method	0 to 25 mm	3.5 µm
91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (L.C.: 10 µm)	Using Caliper Checker, Length Bar and External Micrometer by Comparison Method	0 to 600 mm	13 µm
92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (L.C.: 10 µm)	Using Length Bar and External Micrometer by Comparison Method	0 to 1000 mm	17 µm
93	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Digital / Dial Pressure Gauge, Pressure Switch, Pressure Transmitter	Using Digital Pressure Gauge with Hydraulic Pump and Multifuction Calibrator by Comparison Method as per DKD-R 6-1	0 to 1000 bar	0.95 bar
94	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Digital / Dial Pressure Gauge, Pressure Switch, Pressure Transmitter	Using Multifunction Calibrator with Pneumatic Module, Multifunction Calibrator by Comparison Method as per DKD-R 6-1	0 to 20 bar	0.015 bar



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95	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Digital / Dial Vacuum Gauge, Transmitter, Vacuum Switch	Using Multifunction Calibrator with Pneumatic Module, Multifunction Calibrator by Comparison Method as per DKD-R 6-1	(-) 0.9 bar to 0 bar	0.0026 bar
96	MECHANICAL-VOLUME	Measuring Cylinder, Measuring Jar, Dispenser, Pipette, Burette, Beaker, Flask	Using Weighing Balance (Readability: 0.01 mg and Coarser) and Distilled Water by Gravimetric Method as per ISO 4787: 2022	1 ml to 10 ml	12.52 µl
97	MECHANICAL-VOLUME	Measuring Cylinder, Measuring Jar, Dispenser, Pipette, Burette, Beaker, Flask	Using Weighing Balance (Readability: 0.01 mg and Coarser) and Distilled Water by Gravimetric Method as per ISO 4787: 2022	10 ml to 100 ml	84 µl
98	MECHANICAL-VOLUME	Micropipette	Using Weighing Balance (Readability: 0.01 mg and Coarser) and Distilled Water by Gravimetric Method as per ISO 8655-6: 2022	100 µl to 1000 µl	3.04 µl



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99	MECHANICAL-VOLUME	Micropipette	Using Weighing Balance (Readability: 0.01 mg and Coarser) and Distilled Water by Gravimetric Method as per ISO 8655-6: 2022	20 µl to 100 µl	0.9 µl
100	THERMAL-TEMPERATURE	Black Body Furnace (Emissivity: 0.95)	Using Infrared Thermometer by Comparison Method	50 °C to 500 °C	3.7 °C
101	THERMAL-TEMPERATURE	Indicator with sensor of Temperature Bath (Single Position)	Using 4 Wire RTD Sensor with Indicator by Comparison Method	0 °C to 400 °C	0.54 °C
102	THERMAL-TEMPERATURE	Indicator with sensor of Temperature Bath (Single Position)	Using S Type Thermocouple with Indicator by Comparison Method	400 °C to 1200 °C	3 °C
103	THERMAL-TEMPERATURE	Non Contact Type Infrared Thermometer / Thermal Imaging Camera (Temperature Only) / Pyrometer	Using Infrared Thermometer and Black Body Source (Emissivity: 0.95) by Comparison Method	50 °C to 500 °C	3.7 °C
104	THERMAL-TEMPERATURE	RTD / Thermocouple with or without Indicator, Temperature Gauge, Temperature Transmitter with or without Indicator, Recorder with Sensor, Digital Thermometer	Using 4 wire RTD sensor with Indicator, Temperature Calibrator and Digital Multimeter by Comparison Method	45 °C to 400 °C	0.56 °C



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105	THERMAL-TEMPERATURE	Thermocouple with or without Indicator, Temperature Transmitter with or without Indicator, Recorder with Sensor, Digital Thermometer	Using S Type Thermocouple with Indicator, Temperature Calibrator and Digital Multimeter by Comparison Method	200 °C to 600 °C	2.49 °C



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using Standard Current Transformer and 6½ Digit Multimeter by Direct Method	20 A to 2000 A	0.83 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	30 µA to 10 A	0.38 % to 0.28 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Divider with DMM by Direct Method	1 kV to 100 kV	3.53 % to 4.32 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with DMM by Direct Method	1 kV to 28 kV	6.42 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	10 mV to 1 kV	0.21 % to 0.1 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Turn Ratio	Using 6½ Digit Multimeter by V/V Method	10 Turn to 4000 Turn	1.68 Turn



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7	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Product Calibrator with 50 Turns Current coil by Direct Method	20 A to 1000 A	0.5 %
8	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Product Calibrator by Direct Method	30 µA to 20 A	0.54 % to 0.27 %
9	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multi Product Calibrator by Direct Method	2 mV to 1 kV	1.34 % to 0.07 %
10	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz (230 V, 5 A)	Using Multi Product Calibrator by Direct Method	0.1 PF (Lead / Lag) to UPF	0.004 PF to 0.035 PF
11	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Single Phase AC Active Power @ 50 Hz (120 V to 600 V, 0.01 A to 20 A, UPF)	Using Multi Product Calibrator by Direct Method	1.2 W to 12 kW	1.45 % to 0.51 %
12	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Single Phase AC Active Power @ 50 Hz (120 V to 600 V, 0.1 A to 20 A, 0.1 PF Lead / Lag to 0.8 PF Lead / Lag)	Using Multi Product Calibrator by Direct Method	1.2 W to 9.6 kW	1.33 %
13	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	10 µA to 10 A	0.36 % to 0.19 %



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14	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Current	Using Shunt and 6½ Digit Multimeter by Direct Method	10 A to 600 A	1.15 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Divider with DMM by Direct Method	1 kV to 100 kV	4.69 % to 3.68 %
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM by Direct Method	1 kV to 40 kV	2.39 % to 3.05 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	10 mV to 1 kV	0.05 % to 0.01 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ Digit Multimeter by Direct Method	1 ohm to 1 Gohm	0.35 % to 2.3 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Capacitance	Using Multi Product Calibrator by Direct Method	1 nF to 1 mF	0.81 % to 0.96 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi function Calibrator by Direct Method	1 mA to 25 mA	0.21 % to 0.025 %



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21	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	10 μ A to 20 A	0.25 % to 0.15 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator with 50 Turns Current coil by Direct Method	20 A to 1000 A	0.49 % to 0.41 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (10 V to 600 V, 0.5 A to 20 A)	Using Multi Product Calibrator by Direct Method	5 W to 12 kW	0.86 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	0.1 mV to 1 kV	3.71 % to 0.009 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi function Calibrator by Direct Method	1 mV to 12 V	0.8 % to 0.025 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Megaohm Resistance (discrete value in step of 10) by Direct Method	0.1 Mohm to 10 Gohm	1.29 % to 3.52 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Multi Product Calibrator by Direct Method	1 ohm to 1 Gohm	0.69 % to 1.83 %



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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Milliohm Resistance (discrete value in steps of 1/2/5) by Direct Method	5 mohm to 2 kohm	1.3 % to 1.19 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Multi function Calibrator by Direct Method	5 ohm to 4 kohm	0.73 % to 0.047 %
30	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (AC Voltage) @ 1 kHz	Using Multi Product Calibrator by Direct Method	5 mV to 55 V (p-p)	2.6 % to 0.39 %
31	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (Bandwidth) @ 50 kHz to 300 MHz	Using Multi Product Calibrator by Direct Method	5 mV to 5.5 V (p-p)	14.88 % to 5.74 %
32	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (DC Voltage)	Using Multi Product Calibrator by Direct Method	5 mV to 30 V	2.54 % to 0.74 %
33	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (Time Marker)	Using Multi Product Calibrator by Direct Method	10 ns to 5 s	0.58 % to 0.12 %
34	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT100)	Using Multi function Calibrator by Direct Method	(-) 200 °C to 800 °C	0.4 °C



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35	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - B Type	Using Multi Product Calibrator by Direct Method	600 °C to 1800 °C	0.71 °C
36	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - B Type	Using Multi function calibrator by Direct Method	600 °C to 1800 °C	1.25 °C
37	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - E Type	Using Multi function calibrator by Direct Method	(-) 200 °C to 1000 °C	0.58 °C
38	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - E Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.58 °C
39	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - J Type	Using Multi Product calibrator by Direct Method	(-) 200 °C to 1200 °C	0.32 °C
40	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - J Type	Using Multi function calibrator by Direct Method	(-) 200 °C to 1200 °C	0.36 °C
41	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - K Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1372 °C	0.35 °C



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42	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - K Type	Using Multi function calibrator by Direct Method	(-) 200 °C to 1372 °C	0.47 °C
43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - N Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.36 °C
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - N Type	Using Multi function calibrator by Direct Method	(-) 200 °C to 1300 °C	0.65 °C
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - R Type	Using Multi function calibrator by Direct Method	0 °C to 1750 °C	0.70 °C
46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - R Type	Using Multi Product Calibrator by Direct Method	0 °C to 1750 °C	0.86 °C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - S Type	Using Multi Product Calibrator by Direct Method	0 °C to 1750 °C	0.54 °C
48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - S Type	Using Multi function Calibrator by Direct Method	0 °C to 1750 °C	0.8 °C



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49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - T Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 400 °C	0.36 °C
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - T Type	Using Multi function Calibrator by Direct Method	(-) 200 °C to 400 °C	0.73 °C
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT100)	Using Multi function calibrator by Direct Method	(-) 200 °C to 800 °C	0.41 °C
52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT100)	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 800 °C	0.41 °C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - B Type	Using Multi function Calibrator by Direct Method	600 °C to 1800 °C	0.71 °C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - B Type	Using Multi Product Calibrator by Direct Method	600 °C to 1800 °C	0.71 °C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - E Type	Using Multi function calibrator by Direct Method	(-) 200 °C to 1000 °C	0.31 °C



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56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - E Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.58 °C
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - J Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.32 °C
58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - J Type	Using Multi function Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.35 °C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - K Type	Using Multi function Calibrator by Direct Method	(-) 200 °C to 1372 °C	0.46 °C
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - K Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1372 °C	0.46 °C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - N Type	Using Multi function calibrator by Direct Method	(-) 200 °C to 1300 °C	0.36 °C
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - N Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.36 °C



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63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - R Type	Using Multi function Calibrator by Direct Method	0 °C to 1750 °C	0.67 °C
64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - R Type	Using Multi Product Calibrator by Direct Method	0 °C to 1750 °C	0.7 °C
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - S Type	Using Multi function calibrator by Direct Method	0 °C to 1750 °C	0.54 °C
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - S Type	Using Multi Product Calibrator by Direct Method	0 °C to 1750 °C	0.54 °C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - T Type	Using Multi function calibrator by Direct Method	(-) 200 °C to 400 °C	0.36 °C
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - T Type	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 400 °C	0.36 °C
69	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	10 Hz to 1 MHz	0.035 % to 0.16 %



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70	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Interval Meter by Direct Method	100 ms to 5 s	1.52 ms to 0.08 s
71	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Interval Meter by Direct Method	5 s to 7200 s	0.08 s to 0.86 s
72	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi function Calibrator by Direct Method	1 Hz to 10000 Hz	0.58 % to 0.13 %
73	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	1 Hz to 2 MHz	0.59 %
74	MECHANICAL-ACCELERATION AND SPEED	Centrifuge / Stirrer (Non Contact Type)	Using Digital Tachometer by Comparison Method	50 rpm to 20000 rpm	2.08 %
75	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Digital / Dial Pressure Gauge, Pressure Switch, Pressure Transmitter	Using Digital Pressure Gauge with Hydraulic Pump and Multifunction Calibrator by Comparison Method as per DKD-R 6-1	0 to 1000 bar	0.95 bar
76	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Digital / Dial Pressure Gauge, Pressure Switch, Pressure Transmitter	Using Multifunction Calibrator with Pneumatic Module, Multifunction Calibrator by Comparison Method as per DKD-R 6-1	0 to 20 bar	0.015 bar



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INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2683

Validity 02/11/2024 to 01/11/2028

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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)(±)
77	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Digital / Dial Vacuum Gauge, Transmitter, Vacuum Switch	Using Multifunction Calibrator with Pneumatic Module, Multifunction Calibrator by Comparison Method as per DKD-R 6-1	(-) 0.9 bar to 0 bar	0.0026 bar
78	THERMAL-TEMPERATURE	Black Body Furnace (Emissivity: 0.95)	Using Infrared Thermometer by Comparison Method	50 °C to 500 °C	3.7 °C
79	THERMAL-TEMPERATURE	Indicator with sensor of Furnace / Hot Air Oven / Temperature Bath / Temperature Calibrator (Single Position)	Using S Type Thermocouple with Indicator by Comparison Method	400 °C to 1200 °C	3 °C
80	THERMAL-TEMPERATURE	Indicator with sensor of Hot Air Oven / Furnace / Water bath / Chamber / Temperature Bath / Temperature Calibrator (Single Position)	Using 4 Wire RTD with Indicator by Comparison Method	0 °C to 400 °C	0.54 °C
81	THERMAL-TEMPERATURE	Indicator with sensor of Refrigerator / Water bath / Viscosity Bath / Temperature Bath / Temperature Calibrator (Single Position)	Using 4 Wire RTD with Indicator by Comparison Method	0 °C to 150 °C	0.54 °C



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82	THERMAL-TEMPERATURE	Indicator with sensor of Ultra Low Freezer / Deep Freezer / Freezer / Refrigerator / Temperature bath / Temperature Calibrator (Non Medical Purpose) (Single Position)	Using 4 Wire RTD with Indicator by Comparison Method	(-) 80 °C to 0 °C	0.54 °C
83	THERMAL-TEMPERATURE	Non Contact Type Infrared Thermometer / Thermal Imaging Camera (Temperature Only) / Pyrometer	Using Infrared Thermometer and Black Body Source (Emissivity: 0.95) by Comparison Method	50 °C to 500 °C	3.7 °C
84	THERMAL-TEMPERATURE	RTD / Thermocouple with or without Indicator, Temperature Gauge, Temperature Transmitter with or without Indicator, Recorder with Sensor, Digital Thermometer	Using 4 wire RTD sensor with Indicator, Temperature Calibrator and Digital Multimeter by Comparison Method	45 °C to 400 °C	0.56 °C
85	THERMAL-TEMPERATURE	Thermocouple with or without Indicator, Temperature Transmitter with or without Indicator, Recorder with Sensor, Digital Thermometer	Using S Type Thermocouple with Indicator, Temperature Calibrator and Digital Multimeter by Comparison Method	200 °C to 600 °C	2.49 °C

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