National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PERFECT INSTRUMENTATION CONTROLS, 64, NEW MODELLA IND. PREMISES, PADWAL NAGAR, WAGLE ESTATE, THANE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 03/11/2025 to 02/11/2029 **Last Amended on** -

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) (Source)	AC Current @ 50 Hz	Using Universal Calibrator by Direct Method	2 A to 20 A	0.42 % to 1.02 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Universal Calibrator and Current Coil by Direct Method	20 A to 1000 A	3.14 % to 0.94 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Universal Calibrator by Direct Method	20 mA to 500 mA	0.33 % to 0.34 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Universal Calibrator by Direct Method	30 µA to 500 µA	1.84 % to 2.12 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Universal Calibrator by Direct Method	500 µA to 20 mA	2.12 % to 0.33 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Universal Calibrator by Direct Method	500 mA to 2 A	0.34 % to 0.42 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator by Direct Method	1 V to 10 V	0.13 %

SCOPE OF ACCREDITATION

Laboratory Name : PERFECT INSTRUMENTATION CONTROLS, 64, NEW MODELLA IND. PREMISES, PADWAL NAGAR, WAGLE ESTATE, THANE, MAHARASHTRA, INDIA

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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)(±)
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator by Direct Method	10 mV to 200 mV	7.01 % to 0.13 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator by Direct Method	10 V to 100 V	0.13 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator by Direct Method	100 V to 500 V	0.13 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator by Direct Method	200 mV to 1 V	0.13 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator by Direct Method	500 V to 1000 V	0.13 % to 0.16 %
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 5¾ Digit Multimeter by Direct Method	3 A to 10 A	1.57 % to 1.35 %
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 5¾ Digit Multimeter by Direct Method	3 mA to 300 mA	0.04 % to 0.19 %

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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)(±)
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 5¾ Digit Multimeter by Direct Method	30 µA to 300 µA	1.14 % to 0.17 %
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 5¾ Digit Multimeter by Direct Method	300 µA to 3 mA	0.17 % to 0.04 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 5¾ Digit Multimeter by Direct Method	300 mA to 3 A	0.19 % to 1.57 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 5¾ Digit Multimeter by Direct Method	3 V to 30 V	0.11 % to 0.13 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 5¾ Digit Multimeter by Direct Method	30 mV to 300 mV	1.37 % to 0.16 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 5¾ Digit Multimeter by Direct Method	30 V to 300 V	0.13 % to 0.09 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 5¾ Digit Multimeter by Direct Method	300 mV to 3 V	0.16 % to 0.11 %

SCOPE OF ACCREDITATION

Laboratory Name : PERFECT INSTRUMENTATION CONTROLS, 64, NEW MODELLA IND. PREMISES, PADWAL NAGAR, WAGLE ESTATE, THANE, MAHARASHTRA, INDIA

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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 5¾ Digit Multimeter by Direct Method	300 V to 1000 V	0.09 % to 0.21 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 5¾ Digit Multimeter by Direct Method	3 kohm to 30 kohm	3.09 % to 0.39 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 5¾ Digit Multimeter by Direct Method	3 Mohm to 30 Mohm	3.89 % to 7.15 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 5¾ Digit Multimeter by Direct Method	30 kohm to 300 kohm	0.39 % to 0.25 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 5¾ Digit Multimeter by Direct Method	30 ohm to 300 ohm	0.69 % to 0.48 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 5¾ Digit Multimeter by Direct Method	300 kohm to 3 Mohm	0.25 % to 3.89 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 5¾ Digit Multimeter by Direct Method	300 ohm to 3 kohm	0.48 % to 3.09 %

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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)(±)
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator by Direct Method	20 µA to 500 µA	1.68 % to 0.13 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator and Current Coil by Direct Method	20 A to 1000 A	2.65 % to 0.96 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator by Direct Method	5 mA to 50 mA	0.08 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator by Direct Method	50 mA to 500 mA	0.08 % to 0.31 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator by Direct Method	500 µA to 5 mA	0.13 % to 0.08 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator by Direct Method	500 mA to 20 A	0.31 % to 0.27 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	1 mV to 200 mV	5.42 % to 0.06 %

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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)(±)
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	1 V to 10 V	0.06 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	10 V to 100 V	0.06 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	100 V to 500 V	0.06 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	200 mV to 1 V	0.06 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	500 V to 1000 V	0.06 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Universal Calibrator by Direct Method	1 kohm to 500 kohm	2.54 % to 0.24 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Universal Calibrator by Direct Method	1 Mohm to 24 Mohm	2.57 % to 1.28 %

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43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Universal Calibrator by Direct Method	10 ohm to 500 ohm	0.48 % to 0.24 %
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT100)	Using RTD Simulator by Direct Method	(-) 200 °C to 600 °C	0.71 °C
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - J Type	Using Temperature Calibrator by Direct Method	0 °C to 750 °C	1.6 °C
46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - K Type	Using Temperature Calibrator by Direct Method	0 °C to 1340 °C	1.96 °C
47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge with Dial - Transmission Error (L.C.: 0.001 mm)	Using Dial Calibration Tester by Comparison Method	Up to 1 mm	1.9 µm
48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Digital/Dial/Vernier) L.C.: 0.01 mm)	Using Caliper Checker by Comparison Method	0 to 600 mm	9.3 µm

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49	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 1 µm)	Using Thickness Foils by Comparison Method	49 µm to 1008 µm	3.27 µm
50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Slip Gauge Set by Comparison Method	0 to 25 mm	1.5 µm
51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.01 mm)	Using Slip Gauge Set by Comparison Method	0 to 300 mm	7.7 µm
52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Digital/Vernier/Dial) (L.C.: 0.01 mm)	Using Caliper Checker and Surface Plate by Comparison Method	0 to 600 mm	12 µm
53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge (L.C.: 0.01 mm)	Using Dial Calibration Tester by Comparison Method	0 to 1 mm	3.4 µm
54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauge (L.C.: 0.001 mm)	Using Dial Calibration Tester by Comparison Method	0 to 25 mm	1.9 µm

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55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge (L.C.: 0.1 mm)	Using Slip Gauge Set by Comparison Method	0.5 mm to 100 mm	210 µm
56	MECHANICAL-PRESSURE INDICATING DEVICES	Absolute Pneumatic Pressure: Pressure Gauge/Indicator, Pressure Transmitter	Using Absolute Digital Pressure Gauge, Pneumatic Pressure Comparator and 5¾ Digital Multimeter by Comparison Method	0.2 bar (abs) to 10 bar (abs)	0.03 bar (abs)
57	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Pressure Gauge (Digital/Analog), Pressure Transmitter, Pressure Switch	Using Digital Pressure Gauge, Hydraulic Pressure Comparator and 5¾ Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 250 bar	0.52 bar
58	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Pressure Gauge (Digital/Analog), Pressure Transmitter, Pressure Switch	Using Digital Pressure Gauge, Hydraulic Pressure Comparator and 5¾ Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 700 bar	0.83 bar
59	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Pressure Gauge (Digital/Analog), Pressure Transmitter, Pressure Switch	Using Digital Pressure Gauge, Pneumatic Pressure Comparator and 5¾ Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 2 bar	0.01 bar

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60	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Pressure Gauge (Digital/Analog), Pressure Transmitter, Pressure Switch	Using Digital Pressure Gauge, Pneumatic Pressure Comparator and 5¾ Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 35 bar	0.28 bar
61	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Pneumatic: Pressure Gauge/Indicator, Pressure Transmitter, Pressure Switch	Using Digital Pressure Gauge, Pneumatic Pressure Comparator and 5¾ Digital Multimeter by Comparison Method	0 to 10 bar	0.03 bar
62	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum (Pressure Gauge/Indicator, Pressure Transmitter, Pressure Switch)	Using Digital Pressure Gauge, Pneumatic Pressure Comparator and 5¾ Digital Multimeter by Comparison Method	(-) 1 bar to 0 bar	0.007 bar
63	THERMAL-TEMPERATURE	RTD/Thermocouple with Indicator	Using RTD with Indicator and Dry Block Bath by Comparison Method	(-) 30 °C to 140 °C	1.1 °C
64	THERMAL-TEMPERATURE	RTD/Thermocouple with Indicator	Using RTD with Indicator and Dry Block Bath by Comparison Method	140 °C to 400 °C	1.1 °C
65	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Chamber/Oven/Dry Block Temperature Bath (Single position)	Using RTD with Indicator by Comparison Method	(-) 30 °C to 400 °C	1.1 °C

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Universal Calibrator by Direct Method	2 A to 20 A	0.42 % to 1.02 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Universal Calibrator and Current Coil by Direct Method	20 A to 1000 A	3.14 % to 0.94 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Universal Calibrator by Direct Method	20 mA to 500 mA	0.33 % to 0.34 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Universal Calibrator by Direct Method	30 µA to 500 µA	1.84 % to 2.12 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Universal Calibrator by Direct Method	500 µA to 20 mA	2.12 % to 0.33 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Universal Calibrator by Direct Method	500 mA to 2 A	0.34 % to 0.42 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator by Direct Method	1 V to 10 V	0.13 %

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8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator by Direct Method	10 mV to 200 mV	7.01 % to 0.13 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator by Direct Method	10 V to 100 V	0.13 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator by Direct Method	100 V to 500 V	0.13 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator by Direct Method	200 mV to 1 V	0.13 %
12	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 5¾ Digit Multimeter by Direct Method	3 A to 10 A	1.57 % to 1.35 %
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 5¾ Digit Multimeter by Direct Method	3 mA to 300 mA	0.04 % to 0.19 %
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 5¾ Digit Multimeter by Direct Method	30 µA to 300 µA	1.14 % to 0.17 %

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15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 5¾ Digit Multimeter by Direct Method	300 µA to 3 mA	0.17 % to 0.04 %
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 5¾ Digit Multimeter by Direct Method	300 mA to 3 A	0.19 % to 1.57 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 5¾ Digit Multimeter by Direct Method	3 V to 30 V	0.11 % to 0.13 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 5¾ Digit Multimeter by Direct Method	30 mV to 300 mV	1.37 % to 0.16 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 5¾ Digit Multimeter by Direct Method	30 V to 300 V	0.13 % to 0.09 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 5¾ Digit Multimeter by Direct Method	300 mV to 3 V	0.16 % to 0.11 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 5¾ Digit Multimeter by Direct Method	300 V to 1000 V	0.09 % to 0.21 %

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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 5¾ Digit Multimeter by Direct Method	3 kohm to 30 kohm	3.09 % to 0.39 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 5¾ Digit Multimeter by Direct Method	3 Mohm to 30 Mohm	3.89 % to 7.15 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 5¾ Digit Multimeter by Direct Method	30 kohm to 300 kohm	0.39 % to 0.25 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 5¾ Digit Multimeter by Direct Method	30 ohm to 300 ohm	0.69 % to 0.48 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 5¾ Digit Multimeter by Direct Method	300 kohm to 3 Mohm	0.25 % to 3.89 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 5¾ Digit Multimeter by Direct Method	300 ohm to 3 kohm	0.48 % to 3.09 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator by Direct Method	20 µA to 500 µA	1.68 % to 0.13 %

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29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator and Current Coil by Direct Method	20 A to 1000 A	2.65 % to 0.96 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator by Direct Method	5 mA to 50 mA	0.08 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator by Direct Method	50 mA to 500 mA	0.08 % to 0.31 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator by Direct Method	500 µA to 5 mA	0.13 % to 0.08 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator by Direct Method	500 mA to 20 A	0.31 % to 0.27 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	1 mV to 200 mV	5.42 % to 0.06 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	1 V to 10 V	0.06 %

SCOPE OF ACCREDITATION

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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)(±)
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	10 V to 100 V	0.06 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	100 V to 500 V	0.06 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	200 mV to 1 V	0.06 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	500 V to 1000 V	0.06 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Universal Calibrator by Direct Method	1 kohm to 500 kohm	2.54 % to 0.24 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Universal Calibrator by Direct Method	1 Mohm to 24 Mohm	2.57 % to 1.28 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Universal Calibrator by Direct Method	10 ohm to 500 ohm	0.48 % to 0.24 %

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43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT100)	Using RTD Simulator by Direct Method	(-) 200 °C to 600 °C	0.71 °C
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - J Type	Using Temperature Calibrator by Direct Method	0 °C to 750 °C	1.6 °C
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - K Type	Using Temperature Calibrator by Direct Method	0 °C to 1340 °C	1.96 °C
46	MECHANICAL-PRESSURE INDICATING DEVICES	Absolute Pneumatic Pressure: Pressure Gauge/Indicator, Pressure Transmitter	Using Absolute Digital Pressure Gauge, Pneumatic Pressure Comparator and 5¾ Digital Multimeter by Comparison Method	0.2 bar (abs) to 10 bar (abs)	0.03 bar (abs)
47	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Pressure Gauge (Digital/Analog), Pressure Transmitter, Pressure Switch	Using Digital Pressure Gauge, Hydraulic Pressure Comparator and 5¾ Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 250 bar	0.52 bar
48	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Pressure Gauge (Digital/Analog), Pressure Transmitter, Pressure Switch	Using Digital Pressure Gauge, Hydraulic Pressure Comparator and 5¾ Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 700 bar	0.83 bar

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49	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Pressure Gauge (Digital/Analog), Pressure Transmitter, Pressure Switch	Using Digital Pressure Gauge, Pneumatic Pressure Comparator and 5¾ Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 2 bar	0.01 bar
50	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Pressure Gauge (Digital/Analog), Pressure Transmitter, Pressure Switch	Using Digital Pressure Gauge, Pneumatic Pressure Comparator and 5¾ Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 35 bar	0.28 bar
51	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Pneumatic: Pressure Gauge/Indicator, Pressure Transmitter, Pressure Switch	Using Digital Pressure Gauge, Pneumatic Pressure Comparator and 5¾ Digital Multimeter by Comparison Method	0 to 10 bar	0.03 bar
52	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum (Pressure Gauge/Indicator, Pressure Transmitter, Pressure Switch)	Using Digital Pressure Gauge, Pneumatic Pressure Comparator and 5¾ Digital Multimeter by Comparison Method	(-) 1 bar to 0 bar	0.007 bar
53	THERMAL-TEMPERATURE	RTD/Thermocouple with Indicator	Using RTD with Indicator and Dry Block Bath by Comparison Method	(-) 30 °C to 140 °C	1.1 °C
54	THERMAL-TEMPERATURE	RTD/Thermocouple with Indicator	Using RTD with Indicator and Dry Block Bath by Comparison Method	140 °C to 400 °C	1.1 °C

National Accreditation Board for Testing and Calibration Laboratories

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55	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Chamber/Oven/Dry Block Temperature Bath (Single position)	Using RTD with Indicator by Comparison Method	(-) 30 °C to 400 °C	1.1 °C

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