National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CALPOINT LLP, 305, 3RD FLOOR BUSINESS POINT, GIDC CHAR RASTA, VAPI, VALSAD, GUJARAT, 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)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50Hz	Using 6½ Digital Multimeter by direct method	30 µA to 1 mA	0.67 % to 0.55 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	Using 6½ Digital Multimeter by direct method	1 A to 10 A	0.19 % to 0.28 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	Using 6½ Digital Multimeter by direct method	1 mA to 10 mA	0.55 % to 0.54 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	Using 6½ Digital Multimeter by direct method	10 mA to 1 A	0.54 % to 0.19 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage	Using AC/DC H.V Probes with Digital Multimeter by direct method	1 kV @50Hz to 10 kV@50Hz	5.78 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50Hz	Using 6½ Digital Multimeter by direct method	1 mV to 100 mV	4.87 % to 0.12 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50Hz	Using 6½ Digital Multimeter by direct method	10 V to 1000 V	0.11 % to 0.10 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50Hz	Using 6½ Digital Multimeter by direct method	100 mV to 10 V	0.12 % to 0.11 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	Using 5½ Multifunction Calibrator by direct method	10 µA to 1 mA	0.20 % to 0.18 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current@50Hz	Using 5½ Multifunction Calibrator by direct method	1 A to 10 A	0.35 % to 0.19 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current@50Hz	Using 5½ Multifunction Calibrator by direct method	1 mA to 10 mA	0.18 % to 0.19 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current@50Hz	Using 5½ Multifunction Calibrator by direct method	10 mA to 1 A	0.19 % to 0.35 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current@50Hz Using current coil	Using 5½ Multifunction Calibrator with current coil by direct method	10 A to 20 A	0.24 % to 1.77 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current@50Hz Using current coil	Using 5½ Multifunction Calibrator with current coil by direct method	20 A to 50 A	1.77 % to 1.79 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current@50Hz Using Current coil	Using 5½ Multifunction Calibrator with Current coil by direct method	50 A to 1000 A	1.79 % to 0.7 %

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16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage@50Hz	Using 5½ Multifunction Calibrator by direct method	1 mV to 100 mV	1.96 % to 0.19 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage@50Hz	Using 5½ multifunction calibrator by direct method	10 V to 1000 V	0.19 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage@50Hz	Using 5½ Multifunction Calibrator by direct method	100 mV to 10 V	0.19 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by direct method	1 A to 10 A	0.086 % to 0.20 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by direct method	1 mA to 10 mA	0.066 % to 0.082 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by direct method	10 µA to 1 mA	0.43 % to 0.066 %

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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by direct method	10 mA to 1 A	0.082 % to 0.086 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by direct method	1 mV to 100 mV	0.43 % to 0.0092 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by direct method	10 V to 1000 V	0.004 % to 0.0063 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by direct method	100 mV to 10 V	0.0092 % to 0.004 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digital Multimeter by direct method	1 Mohm to 100 Mohm	0.014 % to 0.94 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digital Multimeter by direct method	1 ohm to 1 Mohm	3.49 % to 0.014 %

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digital Multimeter by direct method	100 Mohm to 1 Gohm	0.94 % to 2.93 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ multifunction calibrator by direct method	1 A to 10 A	0.23 % to 0.13 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ multifunction calibrator by direct method	1 mA to 10 mA	0.13 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Digital Multimeter by direct method	10 µA to 1 mA	0.17 % to 0.13 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ multifunction calibrator by direct method	10 mA to 1 A	0.13 % to 0.23 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current Using current coil	Using 5½ Multifunction Calibrator with current coil by direct method	10 A to 20 A	0.13 % to 1.86 %

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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current Using current coil	Using 5½ Multifunction Calibrator with current coil by direct method	20 A to 50 A	1.86 % to 1.18 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current Using current coil	Using 5½ Multifunction Calibrator with current coil by direct method	50 A to 1000 A	1.18 % to 0.62 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ multifunction calibrator by direct method	1 mV to 100 mV	1.27 % to 0.13 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ multifunction calibrator by direct method	10 V to 1000 V	0.13 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ multifunction calibrator by direct method	100 mV to 10 V	0.13 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade resistance Box by direct method	1 Mohm to 100 Mohm	0.12 % to 0.58 %

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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade resistance Box by direct method	1 ohm to 1 Mohm	0.58 % to 0.12 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade resistance Box by direct method	100 Mohm to 1 Gohm	0.58 %
42	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD PT-100 (Indicator /Recorder/Controller)	Using multifunction Process calibrator by direct method	-200 °C to 600 °C	0.58 °C to 0.59 °C
43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (J Type)	Using multifunction Process calibrator by direct method	-200 °C to 1200 °C	1.17 °C to 0.83 °C
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (K Type)	Using multifunction Process calibrator by direct method	-200 °C to 1370 °C	1.17 °C to 0.95 °C
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (R Type)	Using multifunction Process calibrator by direct method	0 to 1750 °C	2.28 °C to 1.87 °C

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46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (S Type)	Using multifunction Process calibrator by direct method	0 to 1750 °C	2.28 °C to 1.97 °C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (T Type)	Using multifunction Process calibrator by direct method	-200 °C to 400 °C	1.39 °C to 0.93 °C
48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD PT-100 (Indicator / Recorder/Controller)	Using multifunction Process calibrator by direct method	-200 °C to 600 °C	0.39 °C
49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (J Type)	Using multifunction Process calibrator by direct method	-200 °C to 1200 °C	1.16 °C to 0.81 °C
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (K Type)	Using multifunction Process calibrator by direct method	-200 °C to 1370 °C	1.39 °C to 0.93 °C
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (R Type)	Using multifunction Process calibrator by direct method	0 to 1750 °C	2.23 °C to 1.81 °C

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52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (S Type)	Using multifunction Process calibrator by direct method	0 to 1750 °C	2.16 °C to 1.83 °C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (T Type)	Using multifunction Process calibrator by direct method	-200 °C to 400 °C	1.39 °C to 0.93 °C
54	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter by direct method	50 Hz to 1 kHz	0.12 % to 0.006 %
55	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital time calibrator by compression method	10 Sec. to 9000 Sec.	0.58 Sec. to 5.31 Sec.
56	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using 5½ Multifunction Calibrator by direct method	50 Hz to 1 kHz	0.23 % to 0.014 %
57	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type) RPM Measured	Using Digital Tachometer With RPM Calibrator by Comparison Method	10 to 50 rpm	5.14 rpm

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58	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type) RPM Measured	Using Digital Tachometer With RPM Calibrator by Comparison Method	100 to 1000 rpm	6.51 rpm
59	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type) RPM Measured	Using Digital Tachometer With RPM Calibrator by Comparison Method	1000 to 2000 rpm	8.07 rpm
60	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type) RPM Measured	Using Digital Tachometer With RPM Calibrator by Comparison Method	10000 to 12000 rpm	49.41 rpm
61	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type) RPM Measured	Using Digital Tachometer With RPM Calibrator by Comparison Method	2000 to 3000 rpm	18.20 rpm
62	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type) RPM Measured	Using Digital Tachometer With RPM Calibrator by Comparison Method	3000 to 5000 rpm	20.53 rpm
63	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type) RPM Measured	Using Digital Tachometer With RPM Calibrator by Comparison Method	50 to 100 rpm	10.47 rpm
64	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type) RPM Measured	Using Digital Tachometer With RPM Calibrator by Comparison Method	5000 to 8000 rpm	44.33 rpm

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65	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type) RPM Measured	Using Digital Tachometer With RPM Calibrator by Comparison Method	8000 to 10000 rpm	46.86 rpm
66	MECHANICAL-ACCELERATION AND SPEED	Tachometer (NON Contact Type) RPM Measure	Using Digital Tachometer With RPM Calibrator by Comparison Method	10 to 50 rpm	1.75 rpm
67	MECHANICAL-ACCELERATION AND SPEED	Tachometer(NON Contact Type) RPM Measure	Using Digital Tachometer With RPM Calibrator by Comparison Method	100 to 1000 rpm	6.91 rpm
68	MECHANICAL-ACCELERATION AND SPEED	Tachometer(NON Contact Type) RPM Measure	Using Digital Tachometer With RPM Calibrator by Comparison Method	1000 to 5000 rpm	14.51 rpm
69	MECHANICAL-ACCELERATION AND SPEED	Tachometer(NON Contact Type) RPM Measure	Using Digital Tachometer With RPM Calibrator by Comparison Method	10000 to 50000 rpm	53.65 rpm
70	MECHANICAL-ACCELERATION AND SPEED	Tachometer(NON Contact Type) RPM Measure	Using Digital Tachometer With RPM Calibrator by Comparison Method	50 to 100 rpm	2.65 rpm
71	MECHANICAL-ACCELERATION AND SPEED	Tachometer(NON Contact Type) RPM Measure	Using Digital Tachometer With RPM Calibrator by Comparison Method	5000 to 8000 rpm	15.50 rpm

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72	MECHANICAL-ACCELERATION AND SPEED	Tachometer(NON Contact Type) RPM Measure	Using Digital Tachometer With RPM Calibrator by Comparison Method	50000 to 99500 rpm	89.52 rpm
73	MECHANICAL-ACCELERATION AND SPEED	Tachometer(NON Contact Type) RPM Measure	Using Digital Tachometer With RPM Calibrator by Comparison Method	8000 to 10000 rpm	15.74 rpm
74	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Sound Level Calibrator by Comparison method	94 dB@1KHz to 114 dB@1KHz	0.77 dB
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (1D/Digital / Analog) 0.01mm	Using Caliper Checker and surface plate by Comparison method	0 to 600 mm	16 µm
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge L.C 0.001mm	Using Slip Gauge Set by Comparison method	0 to 12.7 mm	0.74 µm
77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Digital / Analog)0.001 mm	Using Micrometer Check Set by Comparison method	0 to 25 mm	0.98 µm

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78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Digital / Analog)0.001 mm	Using Micrometer Check set and slip gauge block by Comparison method	25 to 50 mm	1.11 µm
79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Digital / Analog)0.001 mm	Using Micrometer check set and slip gauge block by Comparison method	50 to 75 mm	1.34 µm
80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Digital / Analog)0.001 mm	Using Micro check set and Slip Gauge Block by Comparison method	75 to 100 mm	1.73 µm
81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (Digital / Dial / Plain)0.01 mm	Using Caliper Checker and Slip Gauge block by Comparison method	0 to 600 mm	15.57 µm
82	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure, Pneumatic Dial & Digital Pressure Gauges ,Magnehelic Gauges	Using Digital Pressure Indicator with low Pressure Pump by Compression Method base on DKD-R-6-1	0 to 2000 Pa	1.63 Pa

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83	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Hydraulic Dial & Digital Pressure Gauges	Using Digital Pressure Indicator with Hydraulic Pump by Comparison Method based on DKD-R-6-1	35 to 700 bar	0.18 bar
84	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Pneumatic Dial & Digital Pressure Gauges	Using Digital Pressure Indicator with Pneumatic Pump by Comparison Method base on DKD-R-6-1	0 to 7 bar	0.003 bar
85	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Pneumatic, Dial & Digital Pressure Gauges	Using Digital Pressure Indicator with Pneumatic Pump by Comparison Method based on DKD-R-6-1	7 to 35 bar	0.01 bar
86	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge (Digital / Dial)	Using Digital Vacuum Indicator With Vacuum Pump by Comparesion Method based on DKD-R-6-2 Method	-0.96 to 0 bar	0.001 bar
87	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Sensor With Indicator ,	Using Digital Temperature & Humidity Indicator With Sensor by Comparison Method	20% to 95% @25°C	2.64 RH to 2.63 RH

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88	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator of Humidity Chamber (Single Position)	Using Digital Temperature & Humidity Indicator With Sensor by Comparison Method	20% RH to 95% RH@25°C	2.64% RH to 2.63% RH
89	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature Indicator of Humidity Chamber	Using Digital Temperature & Humidity Indicator With Sensor by Comparison Method	6 °C to 60 °C @50 %RH	0.66 °C to 0.68 °C
90	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermohygrometer , Data logger	Using Digital Temperature & Humidity Indicator With Sensor by Comparison Method	20% RH to 95% RH@25°C	2.64% RH to 2.63% RH
91	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermohygrometer , Data logger	Using Digital Temperature & Humidity Indicator With Sensor by Comparison Method	6 °C to 60 °C@50 %RH	0.66 °C to 0.68 °C
92	THERMAL-TEMPERATURE	Indicator of Freezer, Temp. Bath (Single Position)	Using 4 Wire RTD Sensor With 6½ Digital Multimeter by comparison method	-40 °C to 0 °C	0.23 °C
93	THERMAL-TEMPERATURE	Indicator of Hot Air Oven ,Water Bath ,Temp. Bath ,Freezer, Incubator ,BOD Incubator, (Single Position)	Using 4 Wire RTD Sensor With 6½ Digital Multimeter by comparison method	0 °C to 400 °C	0.42 °C

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94	THERMAL-TEMPERATURE	Indicator of Muffle Furnace ,Temp. Bath (Single Position)	Using S type Thermocouple with Multifunction process Calibrator by comparison method	400 °C to 1200 °C	3.10 °C
95	THERMAL-TEMPERATURE	RTD & Thermocouple With or Without Indicator ,Digital Thermometer	Using 4 Wire RTD Sensor With 6½ Digital Multimeter & Dry Block by Comparison Method	-40 °C to 0 °C	0.23 °C
96	THERMAL-TEMPERATURE	RTD &Thermocouple With or Without Indicator , Recorder, Digital Thermometer	Using 4 Wire RTD Sensor With 6½ Digital Multimeter & Dry Block by Comparison Method	0 °C to 400 °C	0.42 °C
97	THERMAL-TEMPERATURE	Temperature Gauge , Glass Thermometer	Using 4 Wire RTD Sensor With 6 1/2 Digital Multimeter & Liquid Bath by Comparison Method	-22 °C to 250 °C	0.62 °C
98	THERMAL-TEMPERATURE	Thermocouple With or Without Indicator , Recorder	Using S type Thermocouple with Multifunction process Calibrator and dry bath by comparison method	400 °C to 800 °C	2.80 °C

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99	THERMAL-TEMPERATURE	Thermocouple With or Without Indicator , Recorder	Using S type Thermocouple with Multifunction process Calibrator and dry bath by comparison method	800 °C to 1200 °C	3.10 °C

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50Hz	Using 6½ Digital Multimeter by direct method	30 µA to 1 mA	0.67 % to 0.55 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	Using 6½ Digital Multimeter by direct method	1 A to 10 A	0.19 % to 0.28 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	Using 6½ Digital Multimeter by direct method	1 mA to 10 mA	0.55 % to 0.54 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	Using 6½ Digital Multimeter by direct method	10 mA to 1 A	0.54 % to 0.19 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage	Using AC/DC H.V Probes with Digital Multimeter by direct method	1 kV @50Hz to 10 kV@50Hz	5.78 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50Hz	Using 6½ Digital Multimeter by direct method	1 mV to 100 mV	4.87 % to 0.12 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50Hz	Using 6½ Digital Multimeter by direct method	10 V to 1000 V	0.11 % to 0.10 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50Hz	Using 6½ Digital Multimeter by direct method	100 mV to 10 V	0.12 % to 0.11 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	Using 5½ Multifunction Calibrator by direct method	10 µA to 1 mA	0.20 % to 0.18 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current@50Hz	Using 5½ Multifunction Calibrator by direct method	1 A to 10 A	0.35 % to 0.19 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current@50Hz	Using 5½ Multifunction Calibrator by direct method	1 mA to 10 mA	0.18 % to 0.19 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current@50Hz	Using 5½ Multifunction Calibrator by direct method	10 mA to 1 A	0.19 % to 0.35 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current@50Hz Using current coil	Using 5½ Multifunction Calibrator with current coil by direct method	10 A to 20 A	0.24 % to 1.77 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current@50Hz Using current coil	Using 5½ Multifunction Calibrator with current coil by direct method	20 A to 50 A	1.77 % to 1.79 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current@50Hz Using Current coil	Using 5½ Multifunction Calibrator with Current coil by direct method	50 A to 1000 A	1.79 % to 0.7 %

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16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage@50Hz	Using 5½ Multifunction Calibrator by direct method	1 mV to 100 mV	1.96 % to 0.19 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage@50Hz	Using 5½ multifunction calibrator by direct method	10 V to 1000 V	0.19 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage@50Hz	Using 5½ Multifunction Calibrator by direct method	100 mV to 10 V	0.19 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by direct method	1 A to 10 A	0.086 % to 0.20 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by direct method	1 mA to 10 mA	0.066 % to 0.082 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by direct method	10 µA to 1 mA	0.43 % to 0.066 %

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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by direct method	10 mA to 1 A	0.082 % to 0.086 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using AC/DC H.V Probes With Digital Multimeter by direct method	1 kV to 5 kV	2.70 % to 2.91 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by direct method	1 mV to 100 mV	0.43 % to 0.0092 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by direct method	10 V to 1000 V	0.004 % to 0.0063 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by direct method	100 mV to 10 V	0.0092 % to 0.004 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digital Multimeter by direct method	1 Mohm to 100 Mohm	0.014 % to 0.94 %

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digital Multimeter by direct method	1 ohm to 1 Mohm	3.49 % to 0.014 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digital Multimeter by direct method	100 Mohm to 1 Gohm	0.94 % to 2.93 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ multifunction calibrator by direct method	1 A to 10 A	0.23 % to 0.13 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ multifunction calibrator by direct method	1 mA to 10 mA	0.13 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Digital Multimeter by direct method	10 µA to 1 mA	0.17 % to 0.13 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ multifunction calibrator by direct method	10 mA to 1 A	0.13 % to 0.23 %

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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current Using current coil	Using 5½ Multifunction Calibrator with current coil by direct method	10 A to 20 A	0.13 % to 1.86 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current Using current coil	Using 5½ Multifunction Calibrator with current coil by direct method	20 A to 50 A	1.86 % to 1.18 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current Using current coil	Using 5½ Multifunction Calibrator with current coil by direct method	50 A to 1000 A	1.18 % to 0.62 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ multifunction calibrator by direct method	1 mV to 100 mV	1.27 % to 0.13 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ multifunction calibrator by direct method	10 V to 1000 V	0.13 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ multifunction calibrator by direct method	100 mV to 10 V	0.13 %

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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade resistance Box by direct method	1 Mohm to 100 Mohm	0.12 % to 0.58 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade resistance Box by direct method	1 ohm to 1 Mohm	0.58 % to 0.12 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade resistance Box by direct method	100 Mohm to 1 Gohm	0.58 %
43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD PT-100 (Indicator /Recorder/Controller)	Using multifunction Process calibrator by direct method	-200 °C to 600 °C	0.58 °C to 0.59 °C
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (J Type)	Using multifunction Process calibrator by direct method	-200 °C to 1200 °C	1.17 °C to 0.83 °C
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (K Type)	Using multifunction Process calibrator by direct method	-200 °C to 1370 °C	1.17 °C to 0.95 °C

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46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (R Type)	Using multifunction Process calibrator by direct method	0 to 1750 °C	2.28 °C to 1.87 °C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (S Type)	Using multifunction Process calibrator by direct method	0 to 1750 °C	2.28 °C to 1.97 °C
48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple (T Type)	Using multifunction Process calibrator by direct method	-200 °C to 400 °C	1.39 °C to 0.93 °C
49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD PT-100 (Indicator / Recorder/Controller)	Using multifunction Process calibrator by direct method	-200 °C to 600 °C	0.39 °C
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (J Type)	Using multifunction Process calibrator by direct method	-200 °C to 1200 °C	1.16 °C to 0.81 °C
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (K Type)	Using multifunction Process calibrator by direct method	-200 °C to 1370 °C	1.39 °C to 0.93 °C

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52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (R Type)	Using multifunction Process calibrator by direct method	0 to 1750 °C	2.23 °C to 1.81 °C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (S Type)	Using multifunction Process calibrator by direct method	0 to 1750 °C	2.16 °C to 1.83 °C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple (T Type)	Using multifunction Process calibrator by direct method	-200 °C to 400 °C	1.39 °C to 0.93 °C
55	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter by direct method	50 Hz to 1 kHz	0.12 % to 0.006 %
56	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital time calibrator by compression method	10 Sec. to 9000 Sec.	0.58 Sec. to 5.31 Sec.
57	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using 5½ Multifunction Calibrator by direct method	50 Hz to 1 kHz	0.23 % to 0.014 %

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58	MECHANICAL-ACCELERATION AND SPEED	Speed Indicator / RPM Meter (Non Contact type)	Using Digital Tachometer by Direct Method	10 to 50 rpm	1.31 rpm
59	MECHANICAL-ACCELERATION AND SPEED	Speed Indicator / RPM Meter (Non Contact type)	Using Digital Tachometer by Direct Method	100 to 1000 rpm	6.49 rpm
60	MECHANICAL-ACCELERATION AND SPEED	Speed Indicator / RPM Meter (Non Contact type)	Using Digital Tachometer by Direct Method	1000 to 5000 rpm	14.27 rpm
61	MECHANICAL-ACCELERATION AND SPEED	Speed Indicator / RPM Meter (Non Contact type)	Using Digital Tachometer by Direct Method	10000 to 12000 rpm	50.93 rpm
62	MECHANICAL-ACCELERATION AND SPEED	Speed Indicator / RPM Meter (Non Contact type)	Using Digital Tachometer by Direct Method	50 to 100 rpm	1.30 rpm
63	MECHANICAL-ACCELERATION AND SPEED	Speed Indicator / RPM Meter (Non Contact type)	Using Digital Tachometer by Direct Method	5000 to 8000 rpm	14.39 rpm
64	MECHANICAL-ACCELERATION AND SPEED	Speed Indicator / RPM Meter (Non Contact type)	Using Digital Tachometer by Direct Method	8000 to 10000 rpm	14.80 rpm
65	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure, Pneumatic Dial & Digital Pressure Gauges ,Magnehelic Gauges	Using Digital Pressure Indicator with low Pressure Pump by Compression Method base on DKD-R-6-1	0 to 2000 Pa	1.63 Pa

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66	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Hydraulic Dial & Digital Pressure Gauges	Using Digital Pressure Indicator with Hydraulic Pump by Comparison Method based on DKD-R-6-1	35 to 700 bar	0.18 bar
67	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Pneumatic Dial & Digital Pressure Gauges	Using Digital Pressure Indicator with Pneumatic Pump by Comparison Method base on DKD-R-6-1	0 to 7 bar	0.003 bar
68	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Pneumatic, Dial & Digital Pressure Gauges	Using Digital Pressure Indicator with Pneumatic Pump by Comparison Method based on DKD-R-6-1	7 to 35 bar	0.01 bar
69	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge (Digital / Dial)	Using Digital Vacuum Indicator With Vacuum Pump by Comparesion Method based on DKD-R-6-2 Method	-0.96 to 0 bar	0.001 bar
70	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Readability 0.1mg, Class I and coarser.	Using E2 class weights as per OIMLR-76-1	0 to 220 g	0.42 mg

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71	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability : 1 mg) Class II & Coarser	Using E2 class weights as per OIMLR-76-1	0 to 600 g	3.9 mg
72	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing balance Readability 10g,Class IIII and coarser	Using F1 class weights as per OIMLR-76-1	0 to 100 kg	30 g
73	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing balance Readability 10mg,Class II and coarser	Using E2 & F1 class weights as per OIMLR-76-1	0 to 1 kg	0.0049 g
74	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing balance Readability 1g,Class III and coarser	Using F1 class weights as per OIMLR-76-1	0 to 15 kg	3.9 g
75	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing balance Readability 1g,Class III and coarser	Using F1 class weights as per OIMLR-76-1	0 to 3 kg	3.9 g
76	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing balance Readability 1g,Class III and coarser	Using F1 class weights as per OIMLR-76-1	0 to 30 kg	5 g
77	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing balance Readability 5g,Class IIII and coarser	Using F1 class weights as per OIMLR-76-1	0 to 50 kg	8.3 g

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78	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator of Humidity Chamber (Single Position)	Using Digital Temperature & Humidity Indicator With Sensor by Comparison Method	20% RH to 95% RH@25°C	2.64% RH to 2.63% RH
79	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature Indicator of Humidity Chamber	Using Digital Temperature & Humidity Indicator With Sensor by Comparison Method	6 °C to 60 °C @50 %RH	0.66 °C to 0.68 °C
80	THERMAL-TEMPERATURE	Indicator of Freezer, Temp. Bath (Single Position)	Using 4 Wire RTD Sensor With 6½ Digital Multimeter by comparison method	-40 °C to 0 °C	0.23 °C
81	THERMAL-TEMPERATURE	Indicator of Hot Air Oven ,Water Bath ,Temp. Bath ,Freezer, Incubator ,BOD Incubator, (Single Position)	Using 4 Wire RTD Sensor With 6½ Digital Multimeter by comparison method	0 °C to 400 °C	0.42 °C
82	THERMAL-TEMPERATURE	Indicator of Muffle Furnace ,Temp. Bath (Single Position)	Using S type Thermocouple with Multifunction process Calibrator by comparison method	400 °C to 1200 °C	3.10 °C

SCOPE OF ACCREDITATION

Laboratory Name :	CALPOINT LLP, 305, 3RD FLOOR BUSINESS POINT, GIDC CHAR RASTA, VAPI, VALSAD, GUJARAT, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-4043	**Page No**	33 of 33
Validity	07/09/2024 to 06/09/2026	**Last Amended on**	15/10/2024

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)(±)
83	THERMAL-TEMPERATURE	RTD & Thermocouple With or Without Indicator ,Digital Thermometer	Using 4 Wire RTD Sensor With 6½ Digital Multimeter & Dry Block by Comparison Method	-40 °C to 0 °C	0.23 °C
84	THERMAL-TEMPERATURE	RTD &Thermocouple With or Without Indicator , Recorder, Digital Thermometer	Using 4 Wire RTD Sensor With 6½ Digital Multimeter & Dry Block by Comparison Method	0 °C to 400 °C	0.42 °C
85	THERMAL-TEMPERATURE	Temperature Gauge , Glass Thermometer	Using 4 Wire RTD Sensor With 6 1/2 Digital Multimeter & Liquid Bath by Comparison Method	-22 °C to 250 °C	0.62 °C
86	THERMAL-TEMPERATURE	Thermocouple With or Without Indicator , Recorder	Using S type Thermocouple with Multifunction process Calibrator and dry bath by comparison method	400 °C to 800 °C	2.80 °C
87	THERMAL-TEMPERATURE	Thermocouple With or Without Indicator , Recorder	Using S type Thermocouple with Multifunction process Calibrator and dry bath by comparison method	800 °C to 1200 °C	3.10 °C

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