National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : NCQC LABORATORY LLP, 4, ABHISHREE CORPORATE PARK, ISCKON-AMBLI ROAD, AMBLI, AHMEDABAD, 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)	1P Active Energy @ 50 Hz - UPF to 0.5 PF Lag/Lead, 240 V, 0.05 A to 5 A	Using Three Phase Online Energy Meter test kit with CT by Direct / Comparison Method	1 Wh to 3.6 kWh	0.36 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3P Active Energy @ 50 Hz - UPF to 0.5 PF Lag/Lead, 240 V, 0.05 A to 5 A	Using Three Phase Online Energy Meter test kit with CT by Direct / Comparison Method	3 Wh to 3.6 kWh	0.36 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 A to 10 A	0.17 % to 0.25 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	30 µA to 1 A	0.43 % to 0.17 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with Multimeter by Direct Method	1 kV to 5 kV	2.96 % to 3.02 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 mV to 10 mV	4.81 % to 0.53 %

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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct method	10 mV to 1000 V	0.53 % to 0.1 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 10 Hz to 10 kHz	Using Multi-Product Calibrator by Direct Method	0.33 A to 1.1 A	5.54 % to 0.3 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 10 Hz to 10 kHz	Using Multi-Product Calibrator by Direct Method	1.1 A to 3 A	3.51 % to 0.19 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 10 Hz to 10 kHz	Using Multi-Product Calibrator by Direct Method	30 µA to 330 µA	1.69 % to 0.23 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 10 Hz to 10 kHz	Using Multi-Product Calibrator by Direct Method	330 µA to 330 mA	0.231 % to 0.533 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi-Product Calibrator with Current Coil by Direct method	20 A to 1000 A	1.429 % to 0.974 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 5 kHz	Using Multi-Product Calibrator by Direct Method	11 A to 20 A	3.48 % to 3.52 %

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14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 5 kHz	Using Multi-Product Calibrator by Direct Method	3 A to 11 A	0.19 % to 3.48 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 100 kHz	Using Multi-Product Calibrator by Direct Method	1 mV to 33 mV	1.961 % to 0.11 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 100 kHz	Using Multi-Product Calibrator by Direct Method	3.3 V to 33 V	0.16 % to 0.11 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 500 kHz	Using Multi-Product Calibrator by Direct Method	33 mV to 330 mV	0.52 % to 0.068 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 500 kHz	Using Multi-Product Calibrator by Direct Method	330 mV to 3.3 V	0.068 % to 0.33 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multi-Product Calibrator by Direct Method	330 V to 1000 V	0.026 % to 0.038 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 20 kHz	Using Multi-Product Calibrator by Direct Method	33 V to 330 V	0.04 % to 0.03 %

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21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active Power, 2 Wire, 1 Phase AC Power, 0.2 to UPF (Lead/Lag) @ 50 Hz, 100 V to 480 V, 0.01 A to 20 A	Using Multi-Product Calibrator by Direct Method	1 W to 9.6 kW	1.76 % to 0.13 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi-Product Calibrator by Direct Method	0.5 nF to 330 nF	2.97 % to 0.70 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 100 Hz	Using Multi-Product Calibrator by Direct Method	0.33 µF to 330 µF	0.77 % to 0.91 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inductance Box by Direct Method	10 µH to 1000 mH	1.91 % to 1.16 %
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Phase Angle @ 50 Hz, 240 V, 0.01 A	Using Multiproduct Calibrator by Direct Method	0° to 90°	0.32 °
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz, 120 V, 480 V, 240 V, 0.01 A to 20 A	Using Multi-Product Calibrator & Accucheck with CT by Direct / Comparison Method	0.1 PF to UPF lead/lag	0.030 PF
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Capacitance	Using 6½ Digit Multimeter by Direct Method	1 µF to 100 mF	1.74 % to 2.43 %

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Capacitance	Using 6½ Digit Multimeter by Direct Method	1 nF to 1 µF	5.21 % to 1.74 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 A to 10 A	0.084 % to 0.19 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	10 µA to 100 mA	0.36 % to 0.065 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 mA to 1 A	0.065 % to 0.084 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with Multimeter by Direct Method	1 kV to 5 kV	2.60 % to 0.82 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 mV to 10 mV	0.42 % to 0.046 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	10 mV to 1000 V	0.046 % to 0.011 %

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35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Multimeter by Direct Method	1 kohm to 10 Mohm	0.009 % to 0.048 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Multimeter by Direct Method	1 ohm to 1 kohm	0.37 % to 0.009 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Multimeter by Direct method	10 Mohm to 1 Gohm	0.048 % to 2.34 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Product Calibrator by Direct Method	1 A to 10 A	0.05 % to 0.065 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Product Calibrator by Direct Method	10 µA to 330 µA	0.25 % to 0.021 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	10 A to 20 A	0.065 % to 0.13 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Product Calibrator with Current Coil by Direct Method	20 A to 1000 A	1.40 % to 1.0 %

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42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Product Calibrator by Direct Method	3.3 mA to 1.0 A	0.017 % to 0.05 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Product Calibrator by Direct Method	330 µA to 3.3 mA	0.021 % to 0.017 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power 10 V to 1000 V, 0.1 A to 20.5 A	Using Multiproduct Calibrator by Direct method	1 W to 20 kW	0.19 % to 0.51 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi-Product Calibrator by Direct Method	0.1 mV to 330 mV	1.5 % to 0.01 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi-Product Calibrator by Direct Method	330 mV to 330 V	0.01 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	330 V to 1000 V	0.01 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Insulation Resistance - 2 Wire, 1 kV	Using Resistance Decade Box by Direct Method	1 ohm to 999 Mohm	0.29 % to 0.60 %

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49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Insulation Resistance - 2 Wire, 5 kV	Using High Resistance Jig (Box) by Direct Method	10 Gohm to 1000 Gohm	2.48 % to 9.7 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Insulation Resistance - 2 Wire, 5 kV	Using Resistance Decade Box by Direct Method	5 Mohm to 10 Gohm	2.31 % to 3 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire	Using Multi-Product Calibrator by Direct Method	110 Mohm to 1100 Mohm	0.062 % to 1.770 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire & 4 Wire	Using Multi-Product Calibrator by Direct Method	0.1 ohm to 330 kohm	0.14 % to 0.01 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire & 4 Wire	Using Multi-Product Calibrator by Direct Method	11 Mohm to 110 Mohm	0.018 % to 0.062 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire & 4 Wire	Using Multi-Product Calibrator by Direct Method	330 kohm to 11 Mohm	0.01 % to 0.018 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire, 100 mV	Using 4 Wire Low Resistance Standards by Direct Method	10 µohm to 1 Ohm	5.79 % to 0.14 %

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56	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Conductivity Meter	Using Multiproduct calibrator by Simulation Method	1 µs to 1000 ms (1 ohm to 1 Mohm)	0.64 % to 5.77 %
57	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Amplitude (AC @ 1 kHz & 1 Mohm Load)	Using Multiproduct Calibrator by Direct method	10 mV to 70 V	0.95 % to 0.2 %
58	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Amplitude (AC @ 1 kHz & 50 Ohm Load)	Using Multiproduct Calibrator by Direct method	10 mV to 6.6 V	1.14 % to 1.070 %
59	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Amplitude (DC @ 1 Mohm Load)	Using Multiproduct Calibrator by Direct method	10 mV to 70 V	1.59 % to 0.20 %
60	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Amplitude (DC @ 50 Ohm Load)	Using Multiproduct Calibrator by Direct method	10 mV to 6.6 V	1.59 % to 1.07 %
61	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Bandwidth	Using Multiproduct Calibrator by Direct method	50 kHz to 1 GHz	8.1 %
62	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Time Base	Using Multiproduct Calibrator by Direct method	5 ns to 5 s	0.6 %

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63	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	pH meter	Using Multi–Product calibrator / Temperature Electrical Calibrator by Simulation Method	0 pH to 14 pH, (-) 440 mV to 440 mV	0.010 %
64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD - Pt-100 Type	Using 6½ Digit Multimeter by Direct Method	(-) 200 °C to 800 °C	0.28 °C
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - B Type	Using Multi-Product Calibrator by Direct Method	600 °C to 1800 °C	0.54 °C
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - C Type	Using Multi-Product Calibrator by Direct Method	1 °C to 2300 °C	1.02 °C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - E Type	Using Multi-Product Calibrator by Direct Method	(-) 249 °C to 1000 °C	0.63 °C
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - J Type	Using Multi-Product Calibrator by Direct Method	(-) 209 °C to 1200 °C	0.37 °C
69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - K Type	Using Multi-Product Calibrator by Direct Method	(-) 200 °C to 1372 °C	0.52 °C

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70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - L Type	Using Multi-Product Calibrator by Direct Method	(-) 200 °C to 900 °C	0.47 °C
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - N Type	Using Multi-Product Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.53 °C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - R Type	Using Multi-Product Calibrator by Direct Method	3 °C to 1767 °C	0.65 °C
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - S Type	Using Multi-Product Calibrator by Direct Method	0 °C to 1767 °C	0.59 °C
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - T Type	Using Multi-Product Calibrator by Direct Method	(-) 230 °C to 400 °C	0.75 °C
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - U Type	Using Multi-Product Calibrator by Direct Method	(-) 200 °C to 600 °C	0.68 °C
76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD - Pt-100 Type	Using Multi-Product Calibrator by Direct Method	(-) 200 °C to 800 °C	0.3 °C

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77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - T Type	Using Multi-Product Calibrator by Direct Method	(-) 230 °C to 400 °C	0.74 °C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - U Type	Using Multi-Product Calibrator by Direct Method	(-) 200 °C to 599 °C	0.66 °C
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - B Type	Using Multi-Product Calibrator by Direct Method	600 °C to 1820 °C	0.53 °C
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - C Type	Using Multi-Product Calibrator by Direct Method	1 °C to 2300 °C	1 °C
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - E Type	Using Multi-Product Calibrator by Direct Method	(-) 250 °C to 1000 °C	0.6 °C
82	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - J Type	Using Multi-Product Calibrator by Direct Method	(-) 209 °C to 1200 °C	0.33 °C
83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - K Type	Using Multi-Product Calibrator by Direct Method	(-) 200 °C to 1372 °C	0.5 °C

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84	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - L Type	Using Multi-Product Calibrator by Direct Method	(-) 199 °C to 899 °C	0.44 °C
85	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - N Type	Using Multi-Product Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.5 °C
86	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - R Type	Using Multi-Product Calibrator by Direct Method	3 °C to 1767 °C	0.7 °C
87	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - S Type	Using Multi-Product Calibrator by Direct Method	0 °C to 1767 °C	0.57 °C
88	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	5 Hz to 1 MHz	0.12 % to 0.015 %
89	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	0.01 s to 1 s	0.002 s to 0.01 s
90	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	1 s to 60 s	0.01 s to 0.035 s

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91	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	1800 s to 3600 s	0.210 s to 0.419 s
92	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	3600 s to 43200 s	0.419 s to 5 s
93	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	43200 s to 86400 s	5 s to 23.25 s
94	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	60 s to 900 s	0.035 s to 0.104 s
95	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	900 s to 1800 s	0.104 s to 0.210 s
96	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi-Product Calibrator by Direct Method	1 Hz to 2 MHz	0.011 % to 0.014 %

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P Active Energy @ 50 Hz - UPF to 0.5 PF Lag/Lead, 240 V, 0.05 A to 5 A	Using Three Phase Online Energy Meter test kit with CT by Direct / Comparison Method	1 Wh to 3.6 kWh	0.36 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3P Active Energy @ 50 Hz - UPF to 0.5 PF Lag/Lead, 240 V, 0.05 A to 5 A	Using Three Phase Online Energy Meter test kit with CT by Direct / Comparison Method	3 Wh to 3.6 kWh	0.36 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 A to 10 A	0.17 % to 0.25 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	30 µA to 1 A	0.43 % to 0.17 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with Multimeter by Direct Method	1 kV to 27 kV	2.96 % to 6.10 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with Multimeter by Direct Method	1 kV to 5 kV	2.96 % to 3.02 %

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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 mV to 10 mV	4.81 % to 0.53 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct method	10 mV to 1000 V	0.53 % to 0.1 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 10 Hz to 10 kHz	Using Multi-Product Calibrator by Direct Method	0.33 A to 1.1 A	5.54 % to 0.3 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 10 Hz to 10 kHz	Using Multi-Product Calibrator by Direct Method	1.1 A to 3 A	3.51 % to 0.19 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 10 Hz to 10 kHz	Using Multi-Product Calibrator by Direct Method	30 µA to 330 µA	1.69 % to 0.23 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 10 Hz to 10 kHz	Using Multi-Product Calibrator by Direct Method	330 µA to 330 mA	0.231 % to 0.533 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi-Product Calibrator with Current Coil by Direct method	20 A to 1000 A	1.429 % to 0.974 %

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14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 5 kHz	Using Multi-Product Calibrator by Direct Method	11 A to 20 A	3.48 % to 3.52 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 5 kHz	Using Multi-Product Calibrator by Direct Method	3 A to 11 A	0.19 % to 3.48 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 100 kHz	Using Multi-Product Calibrator by Direct Method	1 mV to 33 mV	1.961 % to 0.11 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 100 kHz	Using Multi-Product Calibrator by Direct Method	3.3 V to 33 V	0.16 % to 0.11 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 500 kHz	Using Multi-Product Calibrator by Direct Method	33 mV to 330 mV	0.52 % to 0.068 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 500 kHz	Using Multi-Product Calibrator by Direct Method	330 mV to 3.3 V	0.068 % to 0.33 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multi-Product Calibrator by Direct Method	330 V to 1000 V	0.026 % to 0.038 %

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21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 20 kHz	Using Multi-Product Calibrator by Direct Method	33 V to 330 V	0.04 % to 0.03 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active Power, 2 Wire, 1 Phase AC Power, 0.2 to UPF (Lead/Lag) @ 50 Hz, 100 V to 480 V, 0.01 A to 20 A	Using Multi-Product Calibrator by Direct Method	1 W to 9.6 kW	1.76 % to 0.13 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi-Product Calibrator by Direct Method	0.5 nF to 330 nF	2.97 % to 0.70 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 100 Hz	Using Multi-Product Calibrator by Direct Method	0.33 µF to 330 µF	0.77 % to 0.91 %
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inductance Box by Direct Method	10 µH to 1000 mH	1.91 % to 1.16 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Phase Angle @ 50 Hz, 240 V, 0.01 A	Using Multiproduct Calibrator by Direct Method	0° to 90°	0.32 °
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz, 120 V, 480 V, 240 V, 0.01 A to 20 A	Using Multi-Product Calibrator & Accucheck with CT by Direct / Comparison Method	0.1 PF to UPF lead/lag	0.030 PF

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Capacitance	Using 6½ Digit Multimeter by Direct Method	1 µF to 100 mF	1.74 % to 2.43 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Capacitance	Using 6½ Digit Multimeter by Direct Method	1 nF to 1 µF	5.21 % to 1.74 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 A to 10 A	0.084 % to 0.19 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	10 µA to 100 mA	0.36 % to 0.065 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 mA to 1 A	0.065 % to 0.084 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with Multimeter by Direct Method	1 kV to 40 kV	2.96 % to 6.03 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with Multimeter by Direct Method	1 kV to 5 kV	2.60 % to 0.82 %

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35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 mV to 10 mV	0.42 % to 0.046 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	10 mV to 1000 V	0.046 % to 0.011 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Multimeter by Direct Method	1 kohm to 10 Mohm	0.009 % to 0.048 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Multimeter by Direct Method	1 ohm to 1 kohm	0.37 % to 0.009 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Multimeter by Direct method	10 Mohm to 1 Gohm	0.048 % to 2.34 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Product Calibrator by Direct Method	1 A to 10 A	0.05 % to 0.065 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Product Calibrator by Direct Method	10 µA to 330 µA	0.25 % to 0.021 %

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42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	10 A to 20 A	0.065 % to 0.13 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Product Calibrator with Current Coil by Direct Method	20 A to 1000 A	1.40 % to 1.0 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Product Calibrator by Direct Method	3.3 mA to 1.0 A	0.017 % to 0.05 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Product Calibrator by Direct Method	330 µA to 3.3 mA	0.021 % to 0.017 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power 10 V to 1000 V, 0.1 A to 20.5 A	Using Multiproduct Calibrator by Direct method	1 W to 20 kW	0.19 % to 0.51 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi-Product Calibrator by Direct Method	0.1 mV to 330 mV	1.5 % to 0.01 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi-Product Calibrator by Direct Method	330 mV to 330 V	0.01 %

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49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	330 V to 1000 V	0.01 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Insulation Resistance - 2 Wire, 1 kV	Using Resistance Decade Box by Direct Method	1 ohm to 999 Mohm	0.29 % to 0.60 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Insulation Resistance - 2 Wire, 5 kV	Using High Resistance Jig (Box) by Direct Method	10 Gohm to 1000 Gohm	2.48 % to 9.7 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Insulation Resistance - 2 Wire, 5 kV	Using Resistance Decade Box by Direct Method	5 Mohm to 10 Gohm	2.31 % to 3 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire	Using Multi-Product Calibrator by Direct Method	110 Mohm to 1100 Mohm	0.062 % to 1.770 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire & 4 Wire	Using Multi-Product Calibrator by Direct Method	0.1 ohm to 330 kohm	0.14 % to 0.01 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire & 4 Wire	Using Multi-Product Calibrator by Direct Method	11 Mohm to 110 Mohm	0.018 % to 0.062 %

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56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire & 4 Wire	Using Multi-Product Calibrator by Direct Method	330 kohm to 11 Mohm	0.01 % to 0.018 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire, 100 mV	Using 4 Wire Low Resistance Standards by Direct Method	10 µohm to 1 Ohm	5.79 % to 0.14 %
58	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Conductivity Meter	Using Multiproduct calibrator by Simulation Method	1 µs to 1000 ms (1 ohm to 1 Mohm)	0.64 % to 5.77 %
59	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Amplitude (AC @ 1 kHz & 1 Mohm Load)	Using Multiproduct Calibrator by Direct method	10 mV to 70 V	0.95 % to 0.2 %
60	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Amplitude (AC @ 1 kHz & 50 Ohm Load)	Using Multiproduct Calibrator by Direct method	10 mV to 6.6 V	1.14 % to 1.070 %
61	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Amplitude (DC @ 1 Mohm Load)	Using Multiproduct Calibrator by Direct method	10 mV to 70 V	1.59 % to 0.20 %
62	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Amplitude (DC @ 50 Ohm Load)	Using Multiproduct Calibrator by Direct method	10 mV to 6.6 V	1.59 % to 1.07 %

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63	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Bandwidth	Using Multiproduct Calibrator by Direct method	50 kHz to 1 GHz	8.1 %
64	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Time Base	Using Multiproduct Calibrator by Direct method	5 ns to 5 s	0.6 %
65	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	pH meter	Using Multi–Product calibrator / Temperature Electrical Calibrator by Simulation Method	0 pH to 14 pH, (-) 440 mV to 440 mV	0.010 %
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD - Pt-100 Type	Using 6½ Digit Multimeter by Direct Method	(-) 200 °C to 800 °C	0.28 °C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - B Type	Using Multi-Product Calibrator by Direct Method	600 °C to 1800 °C	0.54 °C
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - C Type	Using Multi-Product Calibrator by Direct Method	1 °C to 2300 °C	1.02 °C
69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - E Type	Using Multi-Product Calibrator by Direct Method	(-) 249 °C to 1000 °C	0.63 °C

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70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - J Type	Using Multi-Product Calibrator by Direct Method	(-) 209 °C to 1200 °C	0.37 °C
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - K Type	Using Multi-Product Calibrator by Direct Method	(-) 200 °C to 1372 °C	0.52 °C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - L Type	Using Multi-Product Calibrator by Direct Method	(-) 200 °C to 900 °C	0.47 °C
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - N Type	Using Multi-Product Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.53 °C
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - R Type	Using Multi-Product Calibrator by Direct Method	3 °C to 1767 °C	0.65 °C
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - S Type	Using Multi-Product Calibrator by Direct Method	0 °C to 1767 °C	0.59 °C
76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - T Type	Using Multi-Product Calibrator by Direct Method	(-) 230 °C to 400 °C	0.75 °C

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77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - U Type	Using Multi-Product Calibrator by Direct Method	(-) 200 °C to 600 °C	0.68 °C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD - Pt-100 Type	Using Multi-Product Calibrator by Direct Method	(-) 200 °C to 800 °C	0.3 °C
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - T Type	Using Multi-Product Calibrator by Direct Method	(-) 230 °C to 400 °C	0.74 °C
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - U Type	Using Multi-Product Calibrator by Direct Method	(-) 200 °C to 599 °C	0.66 °C
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - B Type	Using Multi-Product Calibrator by Direct Method	600 °C to 1820 °C	0.53 °C
82	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - C Type	Using Multi-Product Calibrator by Direct Method	1 °C to 2300 °C	1 °C
83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - E Type	Using Multi-Product Calibrator by Direct Method	(-) 250 °C to 1000 °C	0.6 °C

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84	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - J Type	Using Multi-Product Calibrator by Direct Method	(-) 209 °C to 1200 °C	0.33 °C
85	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - K Type	Using Multi-Product Calibrator by Direct Method	(-) 200 °C to 1372 °C	0.5 °C
86	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - L Type	Using Multi-Product Calibrator by Direct Method	(-) 199 °C to 899 °C	0.44 °C
87	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - N Type	Using Multi-Product Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.5 °C
88	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - R Type	Using Multi-Product Calibrator by Direct Method	3 °C to 1767 °C	0.7 °C
89	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - S Type	Using Multi-Product Calibrator by Direct Method	0 °C to 1767 °C	0.57 °C
90	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	5 Hz to 1 MHz	0.12 % to 0.015 %

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91	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	0.01 s to 1 s	0.002 s to 0.01 s
92	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	1 s to 60 s	0.01 s to 0.035 s
93	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	1800 s to 3600 s	0.210 s to 0.419 s
94	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	3600 s to 43200 s	0.419 s to 5 s
95	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	43200 s to 86400 s	5 s to 23.25 s
96	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	60 s to 900 s	0.035 s to 0.104 s
97	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	900 s to 1800 s	0.104 s to 0.210 s

SCOPE OF ACCREDITATION

Laboratory Name : NCQC LABORATORY LLP, 4, ABHISHREE CORPORATE PARK, ISCKON-AMBLI ROAD, AMBLI, AHMEDABAD, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 11/04/2025 to 10/04/2029 **Last Amended on** 05/05/2025

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)(±)
98	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi-Product Calibrator by Direct Method	1 Hz to 2 MHz	0.011 % to 0.014 %
99	FLUID FLOW-FLOW MEASURING DEVICES	Digital or Analog Liquid Flow Meter	Using Hand Held Clamp on Type Ultrasonic Flow Meter by Comparison method	1.8 m^3/hr to 100 m^3/hr	2.2 %
100	FLUID FLOW-FLOW MEASURING DEVICES	Digital or Analog Liquid Flow Meter	Using Hand Held Clamp on Type Ultrasonic Flow Meter by Comparison method	100 m^3/hr to 349 m^3/hr	1.9 %
101	MECHANICAL-ACCELERATION AND SPEED	Centrifuge/ Stroboscope/ RPM of Indicating Device/ Karl Fischer Titrator/ Sieve Shaker/ Bitumen Extractor/ L.A. Abrasion Machine/ Mixer/ Stirrer/ Viscometer/ Incubator Shaker / Vibration Machine	Using Master Tachometer by Direct method	> 10000 RPM to 30000 RPM	17.02 RPM
102	MECHANICAL-ACCELERATION AND SPEED	Centrifuge/ Stroboscope/ RPM of Indicating Device/ Karl Fischer Titrator/ Sieve Shaker/ Bitumen Extractor/ L.A. Abrasion Machine/ Mixer/ Stirrer/ Viscometer/ Incubator Shaker / Vibration Machine	Using Master Tachometer by Direct method	6 RPM to 1000 RPM	2.1 RPM