National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : EXQUISITE MEASUREMENT TECHNOLOGIES PRIVATE LIMITED, NO.17, 1/82, 2ND FLOOR, 1ST STREET, SHANMUGA NAGAR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3280 **Page No** 1 of 33

Validity 10/09/2025 to 09/09/2029 **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) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 A to 10 A	0.42 % to 0.29 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 mA to 10 mA	0.58 % to 0.37 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	10 mA to 100 mA	0.37 % to 0.34 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 mA to 1 A	0.34 % to 0.42 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with Digital Multimeter by Direct Method	1 kV to 25 kV	5.82 % to 7.65 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 V to 10 V	0.11 % to 0.1 %

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3280 **Page No** 2 of 33

Validity 10/09/2025 to 09/09/2029 **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)(±)
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	10 V to 100 V	0.1 % to 0.17 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 mV to 1 V	0.15 % to 0.11 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 V to 750 V	0.17 % to 0.11 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Function Calibrator by Direct Method	0.2 mA to 2 mA	1.05 % to 0.28 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Function Calibrator with Current Coil by Direct Method	2 A to 1000 A	0.39 % to 1.47 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Function Calibrator by Direct Method	2 mA to 2 A	0.28 % to 0.39 %

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3280 **Page No** 3 of 33

Validity 10/09/2025 to 09/09/2029 **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)(±)
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multi Function Calibrator by Direct Method	10 mV to 1000 V	1.4 % to 0.19 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Capacitance Box by Direct Method	100 pF to 9 µF	1.17 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Inductance Box by Direct Method	1 mH to 10 H	1.11 % to 5.8 %
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	0.1 mA to 1 mA	0.11 % to 0.07 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 mA to 10 mA	0.07 % to 0.08 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	10 mA to 100 mA	0.08 % to 0.095 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 mA to 10 A	0.095 % to 0.19 %

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3280 **Page No** 4 of 33

Validity 10/09/2025 to 09/09/2029 **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)(±)
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with Digital Multimeter by Direct Method	1 kV to 25 kV	5.08 % to 3.1 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 V to 10 V	0.06 % to 0.031 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	10 V to 100 V	0.031 % to 0.009 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	100 mV to 1 V	0.012 % to 0.06 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	100 V to 1000 V	0.009 % to 0.012 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	1 Mohm to 100 Mohm	0.032 % to 0.84 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	1 kohm to 1 Mohm	0.015 % to 0.032 %

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3280 **Page No** 5 of 33

Validity 10/09/2025 to 09/09/2029 **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)(±)
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	1 ohm to 1 kohm	0.5 % to 0.015 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Function Calibrator by Direct Method	0.2 mA to 10 A	0.18 % to 0.13 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Function Calibrator with Current Coil by Direct Method	10 A to 1000 A	1.11 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Function Calibrator by Direct Method	0.2 V to 20 V	0.18 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Function Calibrator by Direct Method	1 mV to 0.2 V	1.93 % to 0.18 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Function Calibrator by Direct Method	100 V to 1000 V	0.23 % to 0.13 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Function Calibrator by Direct Method	20 V to 100 V	0.18 % to 0.23 %

SCOPE OF ACCREDITATION

Laboratory Name : EXQUISITE MEASUREMENT TECHNOLOGIES PRIVATE LIMITED, NO.17, 1/82, 2ND FLOOR, 1ST STREET, SHANMUGA NAGAR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3280 **Page No** 6 of 33

Validity 10/09/2025 to 09/09/2029 **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)(±)
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire	Using High Stability Resistance Box by Direct Method	100 kohm to 1 Gohm	1.15 % to 1.2 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Micro / Milli Ohm Standard by Direct Method	1 mohm	7.57 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Micro / Milli Ohm Standard by Direct Method	1 ohm to 500 ohm	0.58 % to 0.13 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Micro / Milli Ohm Standard by Direct Method	1.5 mohm	4.73 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Micro / Milli Ohm Standard by Direct Method	10 mohm	0.77 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Micro / Milli Ohm Standard by Direct Method	100 mohm	0.13 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Micro / Milli Ohm Standard by Direct Method	100 mohm to 500 mohm	0.07 % to 0.06 %

SCOPE OF ACCREDITATION

Laboratory Name : EXQUISITE MEASUREMENT TECHNOLOGIES PRIVATE LIMITED, NO.17, 1/82, 2ND FLOOR, 1ST STREET, SHANMUGA NAGAR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3280 **Page No** 7 of 33

Validity 10/09/2025 to 09/09/2029 **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)(±)
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Micro / Milli Ohm Standard by Direct Method	5 mohm	1.53 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Micro / Milli Ohm Standard by Direct Method	50 mohm	0.26 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Micro / Milli Ohm Standard by Direct Method	500 mohm to 1 ohm	0.06 % to 0.58 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Micro / Milli Ohm Standard by Direct Method	500 ohm to 100 kohm	0.13 % to 0.58 %
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 100)	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 800 °C	0.61 °C
46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple B Type	Using Multifunction Calibrator by Direct Method	600 °C to 1800 °C	1.31 °C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple J Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.47 °C

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Laboratory Name : EXQUISITE MEASUREMENT TECHNOLOGIES PRIVATE LIMITED, NO.17, 1/82, 2ND FLOOR, 1ST STREET, SHANMUGA NAGAR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3280 **Page No** 8 of 33

Validity 10/09/2025 to 09/09/2029 **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)(±)
48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1370 °C	0.58 °C
49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple N Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.58 °C
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple R Type	Using Multifunction Calibrator by Direct Method	3 °C to 1750 °C	1.16 °C
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple S Type	Using Multifunction Calibrator by Direct Method	1 °C to 1750 °C	1.16 °C
52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple T Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 400 °C	0.43 °C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 800 °C	0.41 °C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple B Type	Using Multifunction Calibrator by Direct Method	600 °C to 1800 °C	1.31 °C

SCOPE OF ACCREDITATION

Laboratory Name : EXQUISITE MEASUREMENT TECHNOLOGIES PRIVATE LIMITED, NO.17, 1/82, 2ND FLOOR, 1ST STREET, SHANMUGA NAGAR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3280 **Page No** 9 of 33

Validity 10/09/2025 to 09/09/2029 **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)(±)
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple E Type	Using Multifunction Calibrator by Direct Method	200 °C to 800 °C	0.41 °C
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.5 °C
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1370 °C	0.54 °C
58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple N Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.58 °C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R Type	Using Multifunction Calibrator by Direct Method	3 °C to 1750 °C	0.85 °C
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S Type	Using Multifunction Calibrator by Direct Method	1 °C to 1750 °C	1.16 °C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple T Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 400 °C	0.33 °C

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3280 **Page No** 10 of 33

Validity 10/09/2025 to 09/09/2029 **Last Amended on** -

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62	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	1 kHz to 100 kHz	1.16 % to 0.02 %
63	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	10 Hz to 100 Hz	0.58 % to 0.017 %
64	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	100 Hz to 1 kHz	0.017 % to 1.16 %
65	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Interval Meter by Comparison Method	1 s to 86400 s	0.13 s to 13.2 s
66	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Function Calibrator by Direct Method	45 Hz to 1 kHz	0.4 % to 0.02 %
67	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact	Using Digital Tachometer and RPM Calibrator by Comparison Method	200 rpm to 20000 rpm	3.81 rpm
68	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact	Using Digital Tachometer and RPM Calibrator by Comparison Method	20000 rpm to 99950 rpm	3.52 rpm
69	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Direct Method	114 dB	1.09 dB

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3280 **Page No** 11 of 33

Validity 10/09/2025 to 09/09/2029 **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)(±)
70	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Direct Method	94 dB	0.93 dB
71	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital Pressure Gauge, Low-Pressure Manometer, Magnehelic Gauge / Pressure Indicator - Pneumatic	Using Low - Pressure Calibrator, Pressure Comparator by Comparison Method as per DKD-R 6-1	0 mbar to 19.61 mbar	0.021 mbar
72	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital Pressure Gauge, Low-Pressure Manometer, Magnehelic Gauge / Pressure Indicator / Pressure Module / Pressure Recorder - Pneumatic	Using Low Pressure Calibrator, Pressure Comparator by Comparison Method as per DKD-R 6-1	0 to 196.1 mbar	0.27 mbar
73	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital Vacuum Gauge, Vacuum Transducer, Vacuum Transmitter, Differential Transmitter, Vacuum Switch - Vacuum	Using Digital Pressure Gauge, Pressure Comparator and Digital Multimeter by Comparison Method as per DKD-R 6-1	(-) 0.9 bar to 0 bar	0.0027 bar
74	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital Pressure Gauge, Pressure Transducer, Pressure Transmitter - Hydraulic	Using Digital Pressure Gauge, Pressure Comparator and Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 700 bar	0.22 bar

SCOPE OF ACCREDITATION

Laboratory Name : EXQUISITE MEASUREMENT TECHNOLOGIES PRIVATE LIMITED, NO.17, 1/82, 2ND FLOOR, 1ST STREET, SHANMUGA NAGAR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3280 **Page No** 12 of 33

Validity 10/09/2025 to 09/09/2029 **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)(±)
75	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital Pressure Gauge, Pressure Transducer, Pressure Transmitter, Differential Transmitter, Manometer, Pressure Switch - Pneumatic	Using Digital Pressure Gauge, Pressure Comparator and Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 2 bar	0.0013 bar
76	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital Manometer, Magnehelic Gauge - Pneumatic	Using Low Pressure Calibrator and Pressure Comparator by Comparison Method as per Euramet Cg-17,V2.0 & DKD-R 6-1	(-) 19.61 mbar to 0 mbar	0.018 mbar
77	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital Pressure Gauge, Pressure Transducer, Pressure Transmitter, Differential Transmitter, Manometer, Pressure Switch - Pneumatic	Using Digital Pressure Gauge, Pressure Comparator and Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 30 bar	0.027 bar
78	MECHANICAL-VOLUME	Micropipette	Using Semi Micro Weighing Balance (Readability: 0.01 mg) by Gravimetric Method as per ISO 8655-6:2022	> 100 µl to 1000 µl	1.63 µl

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3280 **Page No** 13 of 33

Validity 10/09/2025 to 09/09/2029 **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)(±)
79	MECHANICAL-VOLUME	Micropipette	Using Semi Micro Weighing Balance (Readability: 0.01 mg) by Gravimetric Method as per ISO 8655-6:2022	20 µl to 100 µl	0.2 µl
80	MECHANICAL-VOLUME	Pipette, Burette	Using Semi Micro Balance (Readability : 0.01 mg) by Gravimetric Method as per IS / ISO 4787	0.1 ml to 1 ml	10.24 µl
81	MECHANICAL-VOLUME	Pipette, Burette	Using Semi Micro Balance (Readability : 0.01 mg) by Gravimetric Method as per IS / ISO 4787	1 ml to 10 ml	18.04 µl
82	MECHANICAL-VOLUME	Pipette, Burette, Volumetric Flask, Measuring Cylinder, Measuring Jar & Beaker	Using Semi Micro Balance (Readability : 0.1 mg) by Gravimetric Method as per IS / ISO 4787	> 10 ml to 100 ml	90 µl
83	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E2 Class Weight and Semi Micro Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	1 g	0.031 mg
84	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E2 Class Weight and Semi Micro Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	10 g	0.031 mg

SCOPE OF ACCREDITATION

Laboratory Name : EXQUISITE MEASUREMENT TECHNOLOGIES PRIVATE LIMITED, NO.17, 1/82, 2ND FLOOR, 1ST STREET, SHANMUGA NAGAR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3280 **Page No** 14 of 33

Validity 10/09/2025 to 09/09/2029 **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)(±)
85	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E2 Class Weight and Semi Micro Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	2 g	0.031 mg
86	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E2 Class Weight and Semi Micro Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	20 g	0.031 mg
87	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E2 Class Weight and Semi Micro Balance (Readability: 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	200 g	0.16 mg
88	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E2 Class Weight and Semi Micro Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	5 g	0.031 mg

SCOPE OF ACCREDITATION

Laboratory Name : EXQUISITE MEASUREMENT TECHNOLOGIES PRIVATE LIMITED, NO.17, 1/82, 2ND FLOOR, 1ST STREET, SHANMUGA NAGAR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3280 **Page No** 15 of 33

Validity 10/09/2025 to 09/09/2029 **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)(±)
89	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E2 Class Weight and Semi Micro Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	50 g	0.031 mg
90	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E2 Class Weight and Semi Micro Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	500 mg	0.026 mg
91	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E2 Class Weight and Semi Micro Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	10 mg	0.024 mg
92	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E2 Class Weight and Semi Micro Balance (Readability: 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	100 g	0.14 mg

SCOPE OF ACCREDITATION

Laboratory Name : EXQUISITE MEASUREMENT TECHNOLOGIES PRIVATE LIMITED, NO.17, 1/82, 2ND FLOOR, 1ST STREET, SHANMUGA NAGAR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3280 **Page No** 16 of 33

Validity 10/09/2025 to 09/09/2029 **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)(±)
93	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E2 Class Weight and Semi Micro Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	100 mg	0.026 mg
94	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E2 Class Weight and Semi Micro Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	2 mg	0.02 mg
95	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E2 Class Weight and Semi Micro Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	20 mg	0.024 mg
96	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E2 Class Weight and Semi Micro Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	200 mg	0.026 mg

SCOPE OF ACCREDITATION

Laboratory Name : EXQUISITE MEASUREMENT TECHNOLOGIES PRIVATE LIMITED, NO.17, 1/82, 2ND FLOOR, 1ST STREET, SHANMUGA NAGAR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3280 **Page No** 17 of 33

Validity 10/09/2025 to 09/09/2029 **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)(±)
97	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E2 Class Weight and Semi Micro Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	50 mg	0.026 mg
98	MECHANICAL-WEIGHTS	Accuracy class F2 class & coarser	Using E2 Class Weight and Semi Micro Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	5 mg	0.02 mg
99	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using E2 Class Weight and Semi Micro Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111-1	1 mg	0.022 mg
100	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using F1 Class Weight & Electronic Balance (Readability: 0.1 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1	20 kg	0.12 g

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : EXQUISITE MEASUREMENT TECHNOLOGIES PRIVATE LIMITED, NO.17, 1/82, 2ND FLOOR, 1ST STREET, SHANMUGA NAGAR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3280 **Page No** 18 of 33

Validity 10/09/2025 to 09/09/2029 **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)(±)
101	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermohygrometer - Analog / Digital, Thermo Hygrograph, Humidity Indicator / Recorder / Datalogger with Inbuild or External Sensor, Humidity Transmitter with Sensor @ 25°C	Using Temperature & Humidity Indicator with Sensor & Temperature Humidity Chamber by Comparison Method	20 %RH to 90 %RH	3.77 %RH
102	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermohygrometer - Analog / Digital, Thermo Hygrograph, Humidity Indicator / Recorder / Datalogger with Inbuild or External Sensor, Humidity Transmitter with Sensor @ 50 %RH	Using Temperature & Humidity Indicator with Sensor & Temperature Humidity Chamber by Comparison Method	10 °C to 40 °C	1.33 °C
103	THERMAL-TEMPERATURE	Liquid in Glass Thermometer, Dial Temperature Gauge	Using RTD with Indicator, Oil Temperature Bath by Comparison Method	35 °C to 250 °C	1.26 °C
104	THERMAL-TEMPERATURE	Non Contact Thermometer, Infrared Thermometer, Pyrometer - Emissivity @ 0.95 (Non Medical)	Using IR Thermometer and Black Body Source by Comparison Method	50 °C to 500 °C	3.7 °C
105	THERMAL-TEMPERATURE	RTD with Indicator, Thermocouple with Indicator, Thermometer with sensor, Temperature gauge with indicator	Using RTD Sensor with Indicator, Dry Temperature Bath by Comparison Method	> 0 °C to 400 °C	0.75 °C

SCOPE OF ACCREDITATION

Laboratory Name : EXQUISITE MEASUREMENT TECHNOLOGIES PRIVATE LIMITED, NO.17, 1/82, 2ND FLOOR, 1ST STREET, SHANMUGA NAGAR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3280 **Page No** 19 of 33

Validity 10/09/2025 to 09/09/2029 **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)(±)
106	THERMAL-TEMPERATURE	RTD with Indicator, Thermocouple with Indicator, Thermometer with sensor, Temperature recorder with sensor, Temperature gauge with indicator	Using RTD Sensor with Indicator, Dry Temperature Bath by Comparison Method	(-) 30 °C to 0 °C	0.26 °C
107	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Temperature Bath, Dry Block Calibrator - Single Position Calibration	Using RTD Sensor with Indicator by Comparison Method	0 °C to 400 °C	1.003 °C
108	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Temperature Bath, Dry Block Calibrator - Single Position Calibration	Using S Type Thermocouple with Indicator by Comparison Method	400 °C to 1200 °C	1.71 °C
109	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Temperature Bath, Liquid Bath, Dry Block Calibrator - Single Position Claibration	Using RTD Sensor with Indicator by Comparison Method	(-) 30 °C to 0 °C	0.49 °C
110	THERMAL-TEMPERATURE	Thermocouple with Indicator, Temperature Indicator with Sensor	Using S Type Thermocouple with Indicator, Dry Temperature Bath by Comparison Method	> 400 °C to 1200 °C	2.53 °C

SCOPE OF ACCREDITATION

Laboratory Name : EXQUISITE MEASUREMENT TECHNOLOGIES PRIVATE LIMITED, NO.17, 1/82, 2ND FLOOR, 1ST STREET, SHANMUGA NAGAR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3280 **Page No** 20 of 33

Validity 10/09/2025 to 09/09/2029 **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)(±)
Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 A to 10 A	0.42 % to 0.29 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 mA to 10 mA	0.58 % to 0.37 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 mA to 1 A	0.34 % to 0.42 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with Digital Multimeter by Direct Method	1 kV to 25 kV	5.82 % to 7.65 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 V to 10 V	0.11 % to 0.1 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	10 V to 100 V	0.1 % to 0.17 %

SCOPE OF ACCREDITATION

Laboratory Name : EXQUISITE MEASUREMENT TECHNOLOGIES PRIVATE LIMITED, NO.17, 1/82, 2ND FLOOR, 1ST STREET, SHANMUGA NAGAR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3280 **Page No** 21 of 33

Validity 10/09/2025 to 09/09/2029 **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)(±)
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 mV to 1 V	0.15 % to 0.11 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 V to 750 V	0.17 % to 0.11 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Function Calibrator by Direct Method	0.2 mA to 2 mA	1.05 % to 0.28 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Function Calibrator by Direct Method	2 mA to 2 A	0.28 % to 0.39 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multi Function Calibrator by Direct Method	10 mV to 1000 V	1.4 % to 0.19 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Capacitance Box by Direct Method	100 pF to 9 µF	1.17 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Inductance Box by Direct Method	1 mH to 10 H	1.11 % to 5.8 %

SCOPE OF ACCREDITATION

Laboratory Name : EXQUISITE MEASUREMENT TECHNOLOGIES PRIVATE LIMITED, NO.17, 1/82, 2ND FLOOR, 1ST STREET, SHANMUGA NAGAR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3280 **Page No** 22 of 33

Validity 10/09/2025 to 09/09/2029 **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)(±)
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	0.1 mA to 1 mA	0.11 % to 0.07 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 mA to 10 mA	0.07 % to 0.08 %
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	10 mA to 100 mA	0.08 % to 0.095 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 mA to 10 A	0.095 % to 0.19 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with Digital Multimeter by Direct Method	1 kV to 25 kV	5.08 % to 3.1 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 V to 10 V	0.06 % to 0.031 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	10 V to 100 V	0.031 % to 0.009 %

SCOPE OF ACCREDITATION

Laboratory Name : EXQUISITE MEASUREMENT TECHNOLOGIES PRIVATE LIMITED, NO.17, 1/82, 2ND FLOOR, 1ST STREET, SHANMUGA NAGAR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3280 **Page No** 23 of 33

Validity 10/09/2025 to 09/09/2029 **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)(±)
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	100 mV to 1 V	0.012 % to 0.06 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	100 V to 1000 V	0.009 % to 0.012 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	1 Mohm to 100 Mohm	0.032 % to 0.84 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	1 kohm to 1 Mohm	0.015 % to 0.032 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	1 ohm to 1 kohm	0.5 % to 0.015 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Function Calibrator by Direct Method	0.2 mA to 10 A	0.18 % to 0.13 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Function Calibrator with Current Coil by Direct Method	10 A to 1000 A	1.11 %

SCOPE OF ACCREDITATION

Laboratory Name : EXQUISITE MEASUREMENT TECHNOLOGIES PRIVATE LIMITED, NO.17, 1/82, 2ND FLOOR, 1ST STREET, SHANMUGA NAGAR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3280 **Page No** 24 of 33

Validity 10/09/2025 to 09/09/2029 **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)(±)
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Function Calibrator by Direct Method	0.2 V to 20 V	0.18 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Function Calibrator by Direct Method	1 mV to 0.2 V	1.93 % to 0.18 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Function Calibrator by Direct Method	100 V to 1000 V	0.23 % to 0.13 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Function Calibrator by Direct Method	20 V to 100 V	0.18 % to 0.23 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire	Using High Stability Resistance Box by Direct Method	100 kohm to 1 Gohm	1.15 % to 1.2 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Micro / Milli Ohm Standard by Direct Method	1 mohm	7.57 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Micro / Milli Ohm Standard by Direct Method	1 ohm to 500 ohm	0.58 % to 0.13 %

SCOPE OF ACCREDITATION

Laboratory Name : EXQUISITE MEASUREMENT TECHNOLOGIES PRIVATE LIMITED, NO.17, 1/82, 2ND FLOOR, 1ST STREET, SHANMUGA NAGAR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3280 **Page No** 25 of 33

Validity 10/09/2025 to 09/09/2029 **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)(±)
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Micro / Milli Ohm Standard by Direct Method	1.5 mohm	4.73 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Micro / Milli Ohm Standard by Direct Method	10 mohm	0.77 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Micro / Milli Ohm Standard by Direct Method	100 mohm	0.13 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Micro / Milli Ohm Standard by Direct Method	100 mohm to 500 mohm	0.07 % to 0.06 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Micro / Milli Ohm Standard by Direct Method	5 mohm	1.53 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Micro / Milli Ohm Standard by Direct Method	50 mohm	0.26 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Micro / Milli Ohm Standard by Direct Method	500 mohm to 1 ohm	0.06 % to 0.58 %

SCOPE OF ACCREDITATION

Laboratory Name : EXQUISITE MEASUREMENT TECHNOLOGIES PRIVATE LIMITED, NO.17, 1/82, 2ND FLOOR, 1ST STREET, SHANMUGA NAGAR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3280 **Page No** 26 of 33

Validity 10/09/2025 to 09/09/2029 **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)(±)
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Micro / Milli Ohm Standard by Direct Method	500 ohm to 100 kohm	0.13 % to 0.58 %
43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 100)	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 800 °C	0.61 °C
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple B Type	Using Multifunction Calibrator by Direct Method	600 °C to 1800 °C	1.31 °C
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple J Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.47 °C
46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1370 °C	0.58 °C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple N Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.58 °C
48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple R Type	Using Multifunction Calibrator by Direct Method	3 °C to 1750 °C	1.16 °C

SCOPE OF ACCREDITATION

Laboratory Name : EXQUISITE MEASUREMENT TECHNOLOGIES PRIVATE LIMITED, NO.17, 1/82, 2ND FLOOR, 1ST STREET, SHANMUGA NAGAR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3280 **Page No** 27 of 33

Validity 10/09/2025 to 09/09/2029 **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)(±)
49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple S Type	Using Multifunction Calibrator by Direct Method	1 °C to 1750 °C	1.16 °C
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple T Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 400 °C	0.43 °C
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 800 °C	0.41 °C
52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple B Type	Using Multifunction Calibrator by Direct Method	600 °C to 1800 °C	1.31 °C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple E Type	Using Multifunction Calibrator by Direct Method	200 °C to 800 °C	0.41 °C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.5 °C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1370 °C	0.54 °C

SCOPE OF ACCREDITATION

Laboratory Name : EXQUISITE MEASUREMENT TECHNOLOGIES PRIVATE LIMITED, NO.17, 1/82, 2ND FLOOR, 1ST STREET, SHANMUGA NAGAR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3280 **Page No** 28 of 33

Validity 10/09/2025 to 09/09/2029 **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)(±)
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple N Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.58 °C
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R Type	Using Multifunction Calibrator by Direct Method	3 °C to 1750 °C	0.85 °C
58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S Type	Using Multifunction Calibrator by Direct Method	1 °C to 1750 °C	1.16 °C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple T Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 400 °C	0.33 °C
60	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	10 Hz to 100 Hz	0.58 % to 0.017 %
61	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	100 Hz to 1 kHz	0.017 % to 1.16 %
62	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Interval Meter by Comparison Method	1 s to 86400 s	0.13 s to 13.2 s

SCOPE OF ACCREDITATION

Laboratory Name : EXQUISITE MEASUREMENT TECHNOLOGIES PRIVATE LIMITED, NO.17, 1/82, 2ND FLOOR, 1ST STREET, SHANMUGA NAGAR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3280 **Page No** 29 of 33

Validity 10/09/2025 to 09/09/2029 **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)(±)
63	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Function Calibrator by Direct Method	45 Hz to 1 kHz	0.4 % to 0.02 %
64	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, Shaker, RPM Source, Stirrer & Mixer	Using Digital Tachometer by Comparison Method	20000 rpm to 99950 rpm	3.52 rpm
65	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, Shaker, RPM Source, Stirrer & Mixer	Using Digital Tachometer by Comparison Method	200 rpm to 20000 rpm	3.81 rpm
66	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital Pressure Gauge, Low-Pressure Manometer, Magnehelic Gauge / Pressure Indicator - Pneumatic	Using Low - Pressure Calibrator, Pressure Comparator by Comparison Method as per DKD-R 6-1	0 mbar to 19.61 mbar	0.021 mbar
67	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital Vacuum Gauge, Vacuum Transducer, Vacuum Transmitter, Differential Transmitter, Vacuum Switch - Vacuum	Using Digital Pressure Gauge, Pressure Comparator and Digital Multimeter by Comparison Method as per DKD-R 6-1	(-) 0.9 bar to 0 bar	0.0027 bar
68	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital Pressure Gauge, Pressure Transducer, Pressure Transmitter - Hydraulic	Using Digital Pressure Gauge, Pressure Comparator and Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 700 bar	0.22 bar

SCOPE OF ACCREDITATION

Laboratory Name : EXQUISITE MEASUREMENT TECHNOLOGIES PRIVATE LIMITED, NO.17, 1/82, 2ND FLOOR, 1ST STREET, SHANMUGA NAGAR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3280 **Page No** 30 of 33

Validity 10/09/2025 to 09/09/2029 **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)(±)
69	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital Pressure Gauge, Pressure Transducer, Pressure Transmitter, Differential Transmitter, Manometer, Pressure Switch - Pneumatic	Using Digital Pressure Gauge, Pressure Comparator and Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 2 bar	0.0013 bar
70	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital Manometer, Magnehelic Gauge - Pneumatic	Using Low Pressure Calibrator and Pressure Comparator by Comparison Method as per Euramet Cg-17,V2.0 & DKD-R 6-1	(-) 19.61 mbar to 0 mbar	0.018 mbar
71	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital Pressure Gauge, Pressure Transducer, Pressure Transmitter, Differential Transmitter, Manometer, Pressure Switch - Pneumatic	Using Digital Pressure Gauge, Pressure Comparator and Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 30 bar	0.027 bar
72	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Class II and Coarser (Readability: 1 mg)	Using E2 Class Weights as per OIML R-76-1	0 to 210 g	0.82 mg
73	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Class III and Coarser (Readability: 1 g)	Using F1 Class Weights as per OIML R-76-1	0 to 20 kg	7.36 g

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3280 **Page No** 31 of 33

Validity 10/09/2025 to 09/09/2029 **Last Amended on** -

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74	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Class IV (Readability: 50 g)	Using M1 Class Weights as per OIML R-76-1	0 to 300 kg	0.26 kg
75	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with Sensor of Humidity Chamber, Environmental Chamber, Climatic Chamber - Single Position @ 25°C	Using Temperature & Humidity Indicator with Sensor by Comparison Method	20 %RH to 90 %RH	3.77 %RH
76	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with Sensor of Humidity Chamber, Environmental Chamber, Climatic Chamber - Single Position @ 50 %RH	Using Temperature & Humidity Probe with Indicator by Comparison Method	10 °C to 40 °C	1.33 °C
77	THERMAL-TEMPERATURE	Deep Freezer, Freezer, Refrigerator, Oven, Incubator, Environmental Chamber, Autoclave (Non - Medical Purpose) - Multi Position Calibration	Using RTD Sensors with Data Logger (minimum 9 sensors) by Comparison Method	(-) 80 °C to 400 °C	2.8 °C
78	THERMAL-TEMPERATURE	Industrial Furnace, furnace - Multi Position Calibration	Using N Type Thermocouple with Data Logger (minimum 9 sensors) by Comparison Method	400 °C to 1200 °C	5.33 °C

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Certificate Number CC-3280 **Page No** 32 of 33

Validity 10/09/2025 to 09/09/2029 **Last Amended on** -

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79	THERMAL-TEMPERATURE	RTD with Indicator, Thermocouple with Indicator, Thermometer with sensor, Temperature gauge with indicator	Using RTD Sensor with Indicator, Dry Temperature Bath by Comparison Method	> 0 °C to 400 °C	0.75 °C
80	THERMAL-TEMPERATURE	RTD with Indicator, Thermocouple with Indicator, Thermometer with sensor, Temperature recorder with sensor, Temperature gauge with indicator	Using RTD Sensor with Indicator, Dry Temperature Bath by Comparison Method	(-) 30 °C to 0 °C	0.26 °C
81	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Deep Freezer, Freezer, Liquid bath - Single position calibration	Using RTD Sensor with Indicator by Comparison Method	(-) 80 °C to 0 °C	0.23 °C
82	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Recorder / Controller of Muffle Furnace, Furnace - Single Position Calibration	Using S Type Thermocouple with Indicator by Comparison Method	> 400 °C to 1200 °C	1.79 °C
83	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Recorder / Controller of Temperature Enclosure, Water Bath, Oven, Incubator, Autoclave (Non -Medical Purpose) - Single Position	Using RTD Sensor with Indicator by Comparison Method	> 0 °C to 400 °C	0.92 °C

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Certificate Number CC-3280 **Page No** 33 of 33

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84	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Temperature Bath, Dry Block Calibrator - Single Position Calibration	Using RTD Sensor with Indicator by Comparison Method	0 °C to 400 °C	1.003 °C
85	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Temperature Bath, Dry Block Calibrator - Single Position Calibration	Using S Type Thermocouple with Indicator by Comparison Method	400 °C to 1200 °C	1.71 °C
86	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Temperature Bath, Liquid Bath, Dry Block Calibrator - Single Position Claibration	Using RTD Sensor with Indicator by Comparison Method	(-) 30 °C to 0 °C	0.49 °C
87	THERMAL-TEMPERATURE	Thermocouple with Indicator, Temperature Indicator with Sensor	Using S Type Thermocouple with Indicator, Dry Temperature Bath by Comparison Method	> 400 °C to 1200 °C	2.53 °C

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