



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY, PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2363 **Page No** 1 of 50

**Validity** 26/08/2022 to 25/08/2024 **Last Amended on** 25/01/2023

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	100 mA to 10 A	0.17 % to 0.37 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 1/2 Digit Multimeter by Direct Method	100 mV to 1000 V	0.12 % to 0.10 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Universal Calibrator by Direct Method	2 mA to 500 mA	0.34 % to 0.10 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Universal Calibrator with Current Coil by Direct Method	20 A to 1000 A	0.51%
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Universal Calibrator by Direct Method	500 mA to 10 A	0.10 % to 0.15 %



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## SCOPE OF ACCREDITATION

**Laboratory Name :** METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY,  
PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2363 **Page No** 2 of 50

**Validity** 26/08/2022 to 25/08/2024 **Last Amended on** 25/01/2023

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)(±)
6	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator by Direct Method	20 mV to 200 mV	0.41 % to 0.11 %
7	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator by Direct Method	200 mV to 1000 V	0.11 % to 0.10 %
8	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 mA to 3 A	0.06 % to 0.14 %
9	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 uA to 100 mA	0.09 % to 0.06 %
10	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	3 A to 10 A	0.14 % to 0.18 %
11	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	30 uA to 100 uA	0.35 % to 0.09 %



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PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2363 **Page No** 3 of 50

**Validity** 26/08/2022 to 25/08/2024 **Last Amended on** 25/01/2023

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)(±)
12	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using 6½ Digit Multimeter by Direct Method	1 kohm to 10 Mohm	0.01 % to 0.05 %
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using 6½ Digit Multimeter by Direct Method	1 Ohm to 10 Ohm	0.36 % to 0.02 %
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using 6½ Digit Multimeter by Direct Method	10 Mohm to 100 Mohm	0.05 % to 0.95 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using 6½ Digit Multimeter by Direct Method	10 Ohm to 1 kohm	0.02 % to 0.01 %
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using 6½ Digit Multimeter by Direct Method	100 Mohm to 1000 Mohm	0.95 % to 2.32 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 mV to 10 mV	0.41 % to 0.045 %



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**Laboratory Name :** METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY,  
PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2363 **Page No** 4 of 50

**Validity** 26/08/2022 to 25/08/2024 **Last Amended on** 25/01/2023

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)(±)
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 V to 1000 V	0.005 % to 0.006 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	10 mV to 100 mV	0.045 % to 0.008 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	100 mV to 1 V	0.008 % to 0.005 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator by Direct Method	10 µA to 500 mA	0.27 % to 0.07 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator with Current Coil by Direct Method	20 A to 1000 A	0.5%
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator by Direct Method	500 mA to 10 A	0.07 % to 0.11 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY, PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	CC-2363	<b>Page No</b>	5 of 50
<b>Validity</b>	26/08/2022 to 25/08/2024	<b>Last Amended on</b>	25/01/2023

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)(±)
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by Direct Method	1 kohm	0.23%
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by Direct Method	1 Mohm	0.23%
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by Direct Method	10 kohm	0.23%
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by direct Method	10 Mohm	0.23%
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by direct Method	10 Ohm	0.48%
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by Direct Method	100 kohm	0.23%



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY,  
PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2363 **Page No** 6 of 50

**Validity** 26/08/2022 to 25/08/2024 **Last Amended on** 25/01/2023

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)(±)
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by Direct Method	100 Ohm	0.25%
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by Direct Method	2.4 kohm	0.23%
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by Direct Method	2.4 Mohm	0.23%
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by Direct Method	24 kohm	0.23%
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by Direct Method	24 Mohm	0.23%
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by Direct Method	24 Ohm	0.33%



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY, PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	CC-2363	<b>Page No</b>	7 of 50
<b>Validity</b>	26/08/2022 to 25/08/2024	<b>Last Amended on</b>	25/01/2023

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by Direct Method	240 kohm	0.23%
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by Direct Method	240 Ohm	0.24%
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by Direct Method	5 kohm	0.23%
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by Direct Method	5 Mohm	0.23%
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by Direct Method	50 kohm	0.23%
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by Direct Method	50 Ohm	0.28%



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## SCOPE OF ACCREDITATION

**Laboratory Name :** METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY,  
PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2363 **Page No** 8 of 50

**Validity** 26/08/2022 to 25/08/2024 **Last Amended on** 25/01/2023

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)	DC Resistance	Using Universal Calibrator by Direct Method	500 kohm	0.23%
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by Direct Method	500 Ohm	0.24%
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	1 mV to 20 mV	4.7 % to 0.27 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	20 mV to 200 mV	0.27 % to 0.06 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	200 mV to 1000 V	0.06%
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B Type Thermocouple	Using Multi Function Calibrator by Direct Method	600 °C to 1800 °C	1.16°C





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**Laboratory Name :** METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY,  
PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2363 **Page No** 9 of 50

**Validity** 26/08/2022 to 25/08/2024 **Last Amended on** 25/01/2023

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)	E Type Thermocouple	Using Multi Function Calibrator by Direct Method	-200 °C to 950 °C	0.30°C
49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Using Multi Function Calibrator by Direct Method	-200 °C to 1150 °C	0.35°C
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Using Multi Function Calibrator by Direct Method	-200 °C to 1370 °C	0.47°C
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Using Multi Function Calibrator by Direct Method	-100 °C to 1250 °C	0.47°C
52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Using Multi Function Calibrator by Direct Method	50 °C to 1750 °C	0.93°C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD PT100	Using Multi Function Calibrator by Direct Method	-200 °C to 800 °C	0.40°C



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY, PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	CC-2363	<b>Page No</b>	10 of 50
<b>Validity</b>	26/08/2022 to 25/08/2024	<b>Last Amended on</b>	25/01/2023

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)(±)
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Using Multi Function Calibrator by Direct Method	50 °C to 1750 °C	0.81°C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Using Multi Function Calibrator by Direct Method	-100 °C to 350 °C	0.37°C
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type Thermocouple	Using Multi Function Calibrator by Direct Method	600 °C to 1800 °C	1.33°C
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E Type Thermocouple	Using Multi Function Calibrator by Direct Method	-50 °C to 850 °C	0.30°C
58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using Multi Function Calibrator by Direct Method	-60 °C to 1100 °C	0.35°C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using Multi Function Calibrator by Direct Method	-100 °C to 1350 °C	0.47°C



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PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2363 **Page No** 11 of 50

**Validity** 26/08/2022 to 25/08/2024 **Last Amended on** 25/01/2023

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)(±)
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Using Multi Function Calibrator by Direct Method	-200 °C to 1300 °C	0.47°C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using Multi Function Calibrator by Direct Method	50 °C to 1750 °C	1.14°C
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD PT100	Using Multi Function Calibrator by Direct Method	-200 °C to 800 °C	0.41°C
63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using Multi Function Calibrator by Direct Method	50 °C to 1750 °C	1.04°C
64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using Multi Function Calibrator by Direct Method	-100 °C to 400 °C	0.37°C
65	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	3 Hz to 30 Hz	0.12 % to 0.04 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY, PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	CC-2363	<b>Page No</b>	12 of 50
<b>Validity</b>	26/08/2022 to 25/08/2024	<b>Last Amended on</b>	25/01/2023

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)(±)
66	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	30 Hz to 300 Hz	0.04 % to 0.01 %
67	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	300 Hz to 10 kHz	0.01%
68	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time (Timer/Stopwatch)	Using Time Totaliser by Comparison Method	1 s to 1000 s	0.08 s to 0.33 s
69	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time (Timer/Stopwatch)	Using Time Totaliser by Comparison Method	1000 s to 5000 s	0.33 s to 1.63 s
70	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time (Timer/Stopwatch)	Using Time Totaliser by Comparison Method	45000 s to 86400 s	10.5 s to 20.5 s
71	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time (Timer/Stopwatch)	Using Time Totaliser by Comparison Method	5000 s to 45000 s	1.63 s to 10.5 s



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY, PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	CC-2363	<b>Page No</b>	13 of 50
<b>Validity</b>	26/08/2022 to 25/08/2024	<b>Last Amended on</b>	25/01/2023

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72	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Function Calibrator by Direct Method	3 Hz to 10 kHz	0.023 % to 0.013 %
73	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Sound Level Calibrator by Direct Method	94 dB & 114 dB @1000Hz	0.25dB
74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Air Gauge (Analog / Digital) LC : 0.001mm	Using Setting Ring Gauge by Comparison Method	Upto 0.05 mm	2.31µm
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre: Coaxiality of Centre & Parallelism	Using Mandrel & Lever Dial Gauge by Comparison Method	Upto 1000 mm	3.3µm
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor L.C.1Arc min.	Using Profile Projector by Direct Method	0 ° to 360 °	4.0Arc min.



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PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2363 **Page No** 14 of 50

**Validity** 26/08/2022 to 25/08/2024 **Last Amended on** 25/01/2023

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured / Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (Split Type) Transmission Error Only, L.C. 0.0005mm	Using Gauge Blocks with Accessories Set by Comparison Method	1.5 mm to 4.0 mm	2.7µm
78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (Stem Type) Transmission Error Only, L.C. 0.001mm	Using Dial Calibration Tester by Comparison Method	6 mm to 500 mm	3.26µm
79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier/Dial/Digital) L.C. 0.02 mm	Using Caliper Checker & Length Bar by Comparison Method	0 to 1500 mm	18µm
80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper Checker	Using Gauge Blocks & Length Bar by Comparison Method	300 mm to 600 mm	4.2µm
81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper Checker	Using Gauge Blocks & Length Bar by Comparison Method	600 mm to 1000 mm	7.4µm



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## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY, PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	CC-2363	<b>Page No</b>	15 of 50
<b>Validity</b>	26/08/2022 to 25/08/2024	<b>Last Amended on</b>	25/01/2023

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)(±)
82	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper Checker	Using Gauge Blocks & Length Bar by Comparison Method	Upto 300 mm	3.0µm
83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calipers (Vernier/Dial/Digital) L.C.0.01mm	Using caliper Checker & Length Bar by Comparison Method	0 to 1000 mm	10µm
84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge L.C. 0.0001mm	Using Master Foils by Comparison Method	0 to 3.0 mm	2.0µm
85	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set L.C. 1°	Using Profile Projector By Direct Method	0 ° to 360 °	4.0Arc min.
86	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness of Base)	Using Dial Indicator by Direct method	300 mm X 250 mm	2.75µm



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY, PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	CC-2363	<b>Page No</b>	16 of 50
<b>Validity</b>	26/08/2022 to 25/08/2024	<b>Last Amended on</b>	25/01/2023

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)(±)
87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness of Base)	Using Optical Flat by Comparison Method	Upto 60 mm	0.93µm
88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Master (Variation in Dia. & Runout)	Using Gauge Blocks & Electronic Probe by Comparison Method	>100 mm to 200 mm	2.0µm
89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Master (Variation in Dia. & Runout)	Using Gauge Blocks & Electronic Probe by Comparison Method	2.5 mm to 100 mm	1.2µm
90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge (Vernier/Dial/Digital) L.C. 0.01mm	Using Gauge Blocks by Comparison Method	0 to 300 mm	10µm
91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge (Vernier/Dial/Digital) L.C. 0.02 mm	Using Gauge Blocks & Length Bar by Comparison Method	0 to 600 mm	16µm





# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY, PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	CC-2363	<b>Page No</b>	17 of 50
<b>Validity</b>	26/08/2022 to 25/08/2024	<b>Last Amended on</b>	25/01/2023

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)(±)
92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer / Depth Dial Gauge L.C. 0.001mm	Using Gauge Blocks by Comparison Method	0 to 150 mm	2.2µm
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer L.C. 0.01mm	Using Gauge Blocks by Comparison Method	0 to 300 mm	4.0µm
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Caliper Gauge (Internal) L.C. 0.01mm	Using Gauge Blocks & Gauge Block Accessories by Comparison Method	10 mm to 100 mm	5.0µm
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Caliper Gauge/Pistol Caliper (External) L.C. 0.1mm	Using Gauge Blocks by Comparison Method	Upto 60 mm	42.04µm
96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge/Dial Snap Meter L.C.0.001mm	Using Gauge Blocks by Comparison Method	0 to 200 mm	2.0µm



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY,  
PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2363 **Page No** 18 of 50

**Validity** 26/08/2022 to 25/08/2024 **Last Amended on** 25/01/2023

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-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C. 0.001mm	Using Gauge Blocks & Long Gauge Blocks by Comparison Method	>200 mm to 600 mm	5.0µm
98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C. 0.001mm	Using Gauge Blocks & Long Gauge Blocks by Comparison Method	>600 mm to 1000 mm	10µm
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C. 0.001mm	Using Gauge Blocks by Comparison Method	0 to 200 mm	2.0µm
100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler gauge	Using Micrometer by Comparison Method	0.03 mm to 3 mm	2.5µm
101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flush pin gauge	Using Gauge Blocks & Electronic Probe by Comparison Method	Upto 100 mm	2.5µm



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY, PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2363 **Page No** 19 of 50

**Validity** 26/08/2022 to 25/08/2024 **Last Amended on** 25/01/2023

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)(±)
102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Gauge Block Accessories Set	Using Gauge Blocks & Electronic Probe by Comparison Method	Upto 25 mm	1.2µm
103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dial/Digital) L.C.0.01mm	Using Caliper Checker & Length Bar by Comparison Method	0 to 1000 mm	10.0µm
104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Micrometer (Caliper type), L.C. 0.01mm	Using Gauge Blocks & Gauge Block Accessories by Comparison Method	5 mm to 30 mm	3.34µm
105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Micrometer (Extension rod type), L.C. 0.001mm	Using Gauge Blocks, Length Bars, Gauge Block Accessories Set & Dial Indicator by Comparison Method	13 mm to 500 mm	5.0µm
106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Micrometer (single type), L.C. 0.001mm	Using Gauge Blocks, Length Bars, Gauge Block Accessories Set & Dial Indicator by Comparison Method	50 mm to 63 mm	5.0µm



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY,  
PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2363 **Page No** 20 of 50

**Validity** 26/08/2022 to 25/08/2024 **Last Amended on** 25/01/2023

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)(±)
107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (Three Point), L.C.0.001mm	Using Setting Ring Gauge by Comparison Method	6 mm to 100 mm	4.67µm
108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever type dial gauge L.C. 0.001mm	Using Dial calibration Tester by Comparison Method	0 to 2.0 mm	2.0µm
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit Gauges/OD Gauge/Length Gauge/Step thickness Gauge/Hegman Gauge	Using Electronic Probe, Gauge Blocks, Dial Indicator & Micrometer by Comparison Method	0.5 mm to 300 mm	3.0µm
110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Master Foils	Using Gauge Blocks & Electronic Probe by Comparison Method	0.01 mm to 3 mm	1.0µm
111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin	Using Length Measuring Machine by Comparison Method	0.2 mm to 25 mm	0.35µm



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY, PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2363 **Page No** 21 of 50

**Validity** 26/08/2022 to 25/08/2024 **Last Amended on** 25/01/2023

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)(±)
112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale, L.C.0.5mm	Using Scale & Tape Calibrator by Direct Method	0 to 2000 mm	117* sqrt(L/1000) μm, where L in mm
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape/Pie Tape, L.C.0.5mm	Using Scale & Tape Calibrator by Direct Method	0 to 100 m	231.34* sqrt(L/1000) μm, where L in mm
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head, L.C. 0.0002 mm	Using Electronic Probe by Comparison Method	0 to 50 mm	1.3μm
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Gauge Blocks & Electronic Probe by Comparison Method	>100 mm to 200 mm	2.5μm
116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Gauge Blocks & Electronic Probe by Comparison Method	>200 mm to 300 mm	3.5μm



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY,  
PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2363 **Page No** 22 of 50

**Validity** 26/08/2022 to 25/08/2024 **Last Amended on** 25/01/2023

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)(±)
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Gauge Blocks & Electronic Probe by Comparison Method	25 mm to 100 mm	1.2µm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Gauge Blocks & Lever Dial Gauge by Comparison Method	300 mm to 1000 mm	6.0µm
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Micrometer (Anvil Angle) L.C. 0.001mm	Using Profile Projector by Direct Method	55° & 60°	5.0Arc min.
120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Micrometer L.C. 0.001mm	Using Gauge Blocks by Comparison Method	0 to 50 mm	2.0µm
121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain / Setting Ring Gauge	Using Length Measuring Machine & Master Ring Gauge by Comparison Method	>100 to 300 mm	2.5µm



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY,  
PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2363 **Page No** 23 of 50

**Validity** 26/08/2022 to 25/08/2024 **Last Amended on** 25/01/2023

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)(±)
122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain / Setting Ring Gauge	Using Length Measuring Machine & Master Ring Gauge by Comparison Method	2 mm to 100 mm	2.0µm
123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Gauge Blocks & Electronic Probe by Comparison Method	>100 mm to 250 mm	2.54µm
124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Gauge Blocks & Electronic Probe by Comparison Method	0.5 mm to 100 mm	1.2µm
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain V-Block (Parallelism)	Using Surface Plate, Test Mandrels & Dial Indicator by comparison method	Upto 250x100 mm	3.5µm
126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain V-Block (Squareness)	Using Surface Plate, Granite L Square & Dial Indicator by comparison method	Upto 250 mm X 100 mm	8.4µm



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY, PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	CC-2363	<b>Page No</b>	24 of 50
<b>Validity</b>	26/08/2022 to 25/08/2024	<b>Last Amended on</b>	25/01/2023

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)(±)
127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain V-Block (Symmetry)	Using Surface Plate, Test Mandrels & Dial Indicator by comparison method	Upto 250x100 mm	3.5µm
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger type dial gauge (Analog/Digital) L.C. 0.0005mm	Using Gauge Blocks & Dial Calibration Tester by Comparison Method	0 to 60.9 mm	1.5µm
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge (Concave & Convex)	Using Profile Projector by Direct Method	0.5 mm to 25 mm	6.1µm
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Gauge Blocks by Comparison Method	>100 mm to 200 mm	2.0µm
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Gauge Blocks & Long Gauge blocks by Comparison Method	>200 mm to 300 mm	3.0µm





# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY,  
PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2363 **Page No** 25 of 50

**Validity** 26/08/2022 to 25/08/2024 **Last Amended on** 25/01/2023

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)(±)
132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Gauge Blocks & Long Gauge blocks Comparison Method	>300 mm to 400 mm	4.0µm
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Gauge Blocks by Comparison Method	2.5 mm to 100 mm	1.6µm
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit Level, L.C. 0.01mm/m	Using Electronic level and robust tilting table by Comparison Method	Base Length upto 300 mm	6.0µm/m
135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Plug Gauge: Pin Over Diameter	Using Length Measuring Machine and Measuring pin by Comparison Method	6 mm to 150 mm	2.6µm
136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Ring Gauge: Pin Over Diameter	Using Gauge Blocks & Measuring pin by Comparison Method	6 mm to 120 mm	2.3µm



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY, PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	CC-2363	<b>Page No</b>	26 of 50
<b>Validity</b>	26/08/2022 to 25/08/2024	<b>Last Amended on</b>	25/01/2023

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)(±)
137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge	Using Electronic Level, Gauge Block & Dial Indicator by Comparison Method	Upto 1000 mm	$2.0 \cdot \sqrt{L/150} \mu\text{m}$ , where L in mm
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Roughness Specimen	Using Surface Rough Specimen & Roughness Tester by Comparison Method	Ra, Ry, Rz	9.5%
139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plug Gauge, Linear	Using Length Measuring Machine by Comparison Method	Upto 100 mm	3.0 $\mu\text{m}$
140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plug Gauge, Taper Angle	Using Length Measuring Machine by Comparison Method	Upto 100 mm	3Arc min.
141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Ring Gauge, Linear	Using Length Measuring Machine by Comparison Method	Upto 100 mm	3.0 $\mu\text{m}$



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY, PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	CC-2363	<b>Page No</b>	27 of 50
<b>Validity</b>	26/08/2022 to 25/08/2024	<b>Last Amended on</b>	25/01/2023

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)(±)
142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Ring Gauge, Taper Angle	Using Length Measuring Machine by Comparison Method	Upto 100 mm	3Arc min.
143	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale, L.C.0.1mm	Using Profile Projector by Direct Method	1 mm to 60 mm	15µm
144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge	Using FCDM, Cylindrical Setting Master & Thread Measuring wire by Comparison Method	7 mm to 100 mm	3.0µm
145	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge	Using Length Measuring Machine & Master Ring Gauge by Comparison Method	7 mm to 100 mm	2.0µm
146	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Mandrel (Straight)	Using Electronic Probe & Bench Centre by Comparison Method	Dia. Upto 50 mm	1.4µm



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY, PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	CC-2363	<b>Page No</b>	28 of 50
<b>Validity</b>	26/08/2022 to 25/08/2024	<b>Last Amended on</b>	25/01/2023

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)(±)
147	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Profile Projector by Direct Method	0.01 mm to 10 mm	5.0µm
148	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Gauge (Dial/Digital) L.C.0.001mm	Using Gauge Blocks by Comparison Method	0 to 25 mm	1.6µm
149	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wire	Using Length Measuring Machine by Comparison Method	0.17 mm to 6.35 mm	0.35µm
150	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge, Flank Angle	Using Profile Projector by Direct Method	55° & 60°	5.6Arc min.
151	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge, Linear	Using Profile Projector by Direct Method	0.4 mm to 10 mm	5.6µm



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY, PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2363 **Page No** 29 of 50

**Validity** 26/08/2022 to 25/08/2024 **Last Amended on** 25/01/2023

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)(±)
152	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge / WCP / CP (Major Diameter,Effective Diameter)	Using Length Measuring Machine & Gauge Blocks by Comparison Method	>100 mm to 300 mm	3.0µm
153	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge / WCP / CP (Major Diameter,Effective Diameter)	Using FCDM, Cylindrical Setting Master & Thread Measuring Wire by Comparison Method.	2.5 mm to 100	3.0µm
154	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge / WCP / CP (Major Diameter,Effective Diameter)	Using Length Measuring Machine & Cylindrical Setting Master by Comparison Method	2.5 mm to 100 mm	2.0µm
155	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge / WCR (Effective Diameter)	Using Length Measuring Machine & Master Ring Gauge by Comparison Method	>100 mm to 300 mm	2.6µm
156	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge / WCR (Effective Diameter)	Using Length Measuring Machine & Master Ring Gauge by Comparison Method	3 mm to 100 mm	2.0µm



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY, PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2363 **Page No** 30 of 50

**Validity** 26/08/2022 to 25/08/2024 **Last Amended on** 25/01/2023

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)(±)
157	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge, L.C.0.1mm	Using Gauge Blocks by Comparison Method	0 to 100 mm	57.76µm
158	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Anvil Micrometer, L.C.0.01mm	Using Cylindrical Setting Master & Measuring Pin by comparison method	1 mm to 15 mm	3.7µm
159	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Fillet Gauge	Using Profile Projector by Direct Method	Upto 60 mm	5.0µm
160	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wet Film Thickness Gauge/Hi-Lo gauge/bridge cam gauge/ CD Gauge/PCD Gauge/Welding Gauge/Width gauge/Receiver Gauge/Profile Gauge (Length/Angle)	Using Profile Projector by Direct Method	0 to 200mm (Linear) 0 to	Length: 5.0 µm; Angular: 4.0 Arc min



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY, PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	CC-2363	<b>Page No</b>	31 of 50
<b>Validity</b>	26/08/2022 to 25/08/2024	<b>Last Amended on</b>	25/01/2023

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)(±)
161	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width Gauge	Using Digital Micrometer by Comparison Method	0.5 mm to 25 mm	2.5µm
162	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wire Gauge	Using Profile Projector by Direct Method	0.2 mm to 10 mm	5.1µm
163	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Electronic Height Gauge L.C. 0.0001mm (Instrumental Error)	Using Length Bar by Comparison Method	0 to 1000 mm	5.7µm
164	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Electronic Height Gauge, L.C.0.0001mm (Squareness)	Using Granite L Square by Comparison Method	0 to 1000 mm	8.5µm
165	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester, L.C.0.0001mm	Using Electronic Probe by Comparison Method	0 to 100 mm	1.0µm
166	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Level, L.C.0.001mm/m	Using Electronic Comparator & Robust Tilting Table by Comparison Method	±2 mm/m	4.0µm/m



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY, PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	CC-2363	<b>Page No</b>	32 of 50
<b>Validity</b>	26/08/2022 to 25/08/2024	<b>Last Amended on</b>	25/01/2023

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)(±)
167	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe / Comparator L.C. 0.0001mm	Using Gauge Blocks by Comparison Method	0 to 25 mm	0.5µm
168	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Micrometer/ Diameter Measuring Machine L.C. 0.0001mm	Using Cylindrical Setting master, Electronic Comparator Surface Plate, Test Mandrel by Comparison Method	0 to 25 mm	1.2µm
169	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine / ULM L.C. 0.0001mm	Using Gauge Blocks by Comparison Method	0 to 100 mm	0.6µm
170	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Angular)	Using Angular Gaticule by Comparison Method	Upto 360 °	2.4Arc min.
171	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Magnification)	Using Glass Scales by Comparison Method	5x to 100x	0.3%
172	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / VMS / Microscope (Linear), L.C.0.0001mm	Using Glass Scale / Long Slip Gauge by Comparison Method	0 to 400 mm	3.0µm





# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY,  
PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2363 **Page No** 33 of 50

**Validity** 26/08/2022 to 25/08/2024 **Last Amended on** 25/01/2023

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)(±)
173	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (Hydraulic) Pressure Gauges, Pressure Switches, Pressure transmitter & Pressure Transducer with Indicator	Using Pressure Calibrator by Comparison Method as per DKD-R 6-1	0 bar to 700 bar	0.20bar
174	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (Pneumatic) Pressure Gauges, Pressure Switches, Pressure transmitter & Pressure Transducer with indicator	Using Pressure Calibrator by Comparison Method Procedure as per DKD-R 6-1	0 bar to 25 bar	0.03bar
175	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Vacuum Gauges	Using Pressure Calibrator by Comparison Method as per ISO 3567 & ISO 27893	0 bar to (-) 0.85 bar	0.0081bar
176	THERMAL-TEMPERATURE	Thermometer, RTD Sensor, Thermocouple, Temperature Indicator / Controller / Transmitter / Recorder with Sensor, Temperature Gauge	Using SSPRT with 6½ Digit Multi Meter & Dry Block Calibrator by Comparison Method	250 °C to 600 °C	0.83°C



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY, PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	CC-2363	<b>Page No</b>	34 of 50
<b>Validity</b>	26/08/2022 to 25/08/2024	<b>Last Amended on</b>	25/01/2023

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)(±)
177	THERMAL-TEMPERATURE	Thermometer, RTD Sensor, Thermocouple, Temperature Indicator / Controller / Transmitter / Recorder with Sensor, Temperature Gauge	Using SSPRT with 6½ Digit Multi Meter & Dry Block Calibrator by Comparison Method	50 °C to 250 °C	0.48°C
178	THERMAL-TEMPERATURE	Thermometer, Thermocouple, Temperature Indicator / Controller / Transmitter / Recorder with Sensor	Using R-Type Thermocouple with Multi Function Calibrator & Dry Block Calibrator by Comparison Method	400 °C to 1200 °C	2.1°C



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY, PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	CC-2363	<b>Page No</b>	35 of 50
<b>Validity</b>	26/08/2022 to 25/08/2024	<b>Last Amended on</b>	25/01/2023

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) (Source)	AC Current @ 50 Hz	Using Universal Calibrator by Direct Method	2 mA to 500 mA	0.34 % to 0.10 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Universal Calibrator with Current Coil by Direct Method	20 A to 1000 A	0.51%
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Universal Calibrator by Direct Method	500 mA to 10 A	0.10 % to 0.15 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator by Direct Method	20 mV to 200 mV	0.41 % to 0.11 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator by Direct Method	200 mV to 1000 V	0.11 % to 0.10 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY, PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	CC-2363	<b>Page No</b>	36 of 50
<b>Validity</b>	26/08/2022 to 25/08/2024	<b>Last Amended on</b>	25/01/2023

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)(±)
6	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator by Direct Method	10 µA to 500 mA	0.27 % to 0.07 %
7	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator with Current Coil by Direct Method	20 A to 1000 A	0.5%
8	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator by Direct Method	500 mA to 10 A	0.07 % to 0.11 %
9	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by Direct Method	1 kohm	0.23%
10	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by Direct Method	1 Mohm	0.23%
11	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by Direct Method	10 kohm	0.23%



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY, PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	CC-2363	<b>Page No</b>	37 of 50
<b>Validity</b>	26/08/2022 to 25/08/2024	<b>Last Amended on</b>	25/01/2023

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)(±)
12	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by direct Method	10 Mohm	0.23%
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by direct Method	10 Ohm	0.48%
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by Direct Method	100 kohm	0.23%
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by Direct Method	100 Ohm	0.25%
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by Direct Method	2.4 kohm	0.23%
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by Direct Method	2.4 Mohm	0.23%



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY, PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	CC-2363	<b>Page No</b>	38 of 50
<b>Validity</b>	26/08/2022 to 25/08/2024	<b>Last Amended on</b>	25/01/2023

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)(±)
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by Direct Method	24 kohm	0.23%
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by Direct Method	24 Mohm	0.23%
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by Direct Method	24 Ohm	0.33%
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by Direct Method	240 kohm	0.23%
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by Direct Method	240 Ohm	0.24%
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by Direct Method	5 kohm	0.23%



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY,  
PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2363 **Page No** 39 of 50

**Validity** 26/08/2022 to 25/08/2024 **Last Amended on** 25/01/2023

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)(±)
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by Direct Method	5 Mohm	0.23%
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by Direct Method	50 kohm	0.23%
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by Direct Method	50 Ohm	0.28%
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by Direct Method	500 kohm	0.23%
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator by Direct Method	500 Ohm	0.24%
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	1 mV to 20 mV	4.7 % to 0.27 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY, PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	CC-2363	<b>Page No</b>	40 of 50
<b>Validity</b>	26/08/2022 to 25/08/2024	<b>Last Amended on</b>	25/01/2023

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)(±)
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	20 mV to 200 mV	0.27 % to 0.06 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	200 mV to 1000 V	0.06%
32	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B Type Thermocouple	Using Multi Function Calibrator by Direct Method	600 °C to 1800 °C	1.16°C
33	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E Type Thermocouple	Using Multi Function Calibrator by Direct Method	-200 °C to 950 °C	0.30°C
34	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Using Multi Function Calibrator by Direct Method	-200 °C to 1150 °C	0.35°C
35	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Using Multi Function Calibrator by Direct Method	-200 °C to 1370 °C	0.47°C





# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY,  
PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2363 **Page No** 41 of 50

**Validity** 26/08/2022 to 25/08/2024 **Last Amended on** 25/01/2023

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured / Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
36	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Using Multi Function Calibrator by Direct Method	-100 °C to 1250 °C	0.47°C
37	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Using Multi Function Calibrator by Direct Method	50 °C to 1750 °C	0.93°C
38	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD PT100	Using Multi Function Calibrator by Direct Method	-200 °C to 800 °C	0.40°C
39	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Using Multi Function Calibrator by Direct Method	50 °C to 1750 °C	0.81°C
40	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Using Multi Function Calibrator by Direct Method	-100 °C to 350 °C	0.37°C
41	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type Thermocouple	Using Multi Function Calibrator by Direct Method	600 °C to 1800 °C	1.33°C



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY,  
PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2363 **Page No** 42 of 50

**Validity** 26/08/2022 to 25/08/2024 **Last Amended on** 25/01/2023

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-TEMPERATURE SIMULATION (Source)	E Type Thermocouple	Using Multi Function Calibrator by Direct Method	-50 °C to 850 °C	0.30°C
43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using Multi Function Calibrator by Direct Method	-60 °C to 1100 °C	0.35°C
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using Multi Function Calibrator by Direct Method	-100 °C to 1350 °C	0.47°C
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Using Multi Function Calibrator by Direct Method	-200 °C to 1300 °C	0.47°C
46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using Multi Function Calibrator by Direct Method	50 °C to 1750 °C	1.14°C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD PT100	Using Multi Function Calibrator by Direct Method	-200 °C to 800 °C	0.41°C



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY, PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	CC-2363	<b>Page No</b>	43 of 50
<b>Validity</b>	26/08/2022 to 25/08/2024	<b>Last Amended on</b>	25/01/2023

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 (Source)	S Type Thermocouple	Using Multi Function Calibrator by Direct Method	50 °C to 1750 °C	1.04°C
49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using Multi Function Calibrator by Direct Method	-100 °C to 400 °C	0.37°C
50	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time (Timer/Stopwatch)	Using Time Totaliser by Comparison Method	1 s to 1000 s	0.08 s to 0.33 s
51	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time (Timer/Stopwatch)	Using Time Totaliser by Comparison Method	1000 s to 5000 s	0.33 s to 1.63 s
52	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time (Timer/Stopwatch)	Using Time Totaliser by Comparison Method	45000 s to 86400 s	10.5 s to 20.5 s
53	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time (Timer/Stopwatch)	Using Time Totaliser by Comparison Method	5000 s to 45000 s	1.63 s to 10.5 s



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY, PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	CC-2363	<b>Page No</b>	44 of 50
<b>Validity</b>	26/08/2022 to 25/08/2024	<b>Last Amended on</b>	25/01/2023

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)(±)
54	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Function Calibrator by Direct Method	3 Hz to 10 kHz	0.023 % to 0.013 %
55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Air Gauge (Analog / Digital) LC : 0.001mm	Using Setting Ring Gauge by Comparison Method	Upto 0.05 mm	2.31µm
56	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre: Coaxiality of Centre & Parallelism	Using Mandrel & Lever Dial Gauge by Comparison Method	Upto 1000 mm	3.3µm
57	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier/Dial/Digital) L.C. 0.02 mm	Using Caliper Checker & Length Bar by Comparison Method	0 to 1500 mm	18µm
58	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Scale and Tape Calibrator, L.C. 0.001mm	Using Gauge Blocks & Length Bar by Comparison Method	0 to 1000 mm	10µm



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	METRIC MEASUREMENT TECHNOLOGIES, PLOT NO.55, CHENNAI GREEN CITY, PARUTHIPATTU, AVADI, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	CC-2363	<b>Page No</b>	45 of 50
<b>Validity</b>	26/08/2022 to 25/08/2024	<b>Last Amended on</b>	25/01/2023

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59	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Electronic Level by Comparison Method	Upto 3000x2000 mm	0.8 Sqrt (W+L/100)µm, where L & W in mm
60	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Electronic Height Gauge L.C. 0.0001mm (Instrumental Error)	Using Length Bar by Comparison Method	0 to 1000 mm	5.7µm
61	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Electronic Height Gauge, L.C.0.0001mm (Squareness)	Using Granite L Square by Comparison Method	0 to 1000 mm	8.5µm
62	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester, L.C.0.0001mm	Using Electronic Probe by Comparison Method	0 to 100 mm	1.0µm
63	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Micrometer/ Diameter Measuring Machine L.C. 0.0001mm	Using Cylindrical Setting master, Electronic Comparator Surface Plate, Test Mandrel by Comparison Method	0 to 25 mm	1.2µm
64	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine / ULM L.C. 0.0001mm	Using Gauge Blocks by Comparison Method	0 to 100 mm	0.6µm



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**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2363 **Page No** 46 of 50

**Validity** 26/08/2022 to 25/08/2024 **Last Amended on** 25/01/2023

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65	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Angular)	Using Angular Graticule by Comparison Method	Upto 360 °	2.4Arc min.
66	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Magnification)	Using Glass Scales by Comparison Method	5x to 100x	0.3%
67	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / VMS / Microscope (Linear), L.C.0.0001mm	Using Glass Scale / Long Slip Gauge by Comparison Method	0 to 400 mm	3.0µm
68	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (Hydraulic) Pressure Gauges, Pressure Switches, Pressure transmitter & Pressure Transducer with Indicator	Using Pressure Calibrator by Comparison Method as per DKD-R 6-1	0 bar to 700 bar	0.20bar
69	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (Pneumatic) Pressure Gauges, Pressure Switches, Pressure transmitter & Pressure Transducer with indicator	Using Pressure Calibrator by Comparison Method Procedure as per DKD-R 6-1	0 bar to 25 bar	0.03bar



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**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2363 **Page No** 47 of 50

**Validity** 26/08/2022 to 25/08/2024 **Last Amended on** 25/01/2023

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70	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Vacuum Gauges	Using Pressure Calibrator by Comparison Method as per ISO 3567 & ISO 27893	0 bar to (-) 0.85 bar	0.0081bar
71	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Readability: 0.01g (Accuracy Class II & Coarser)	Using F1 accuracy class standard weights and procedure as per OIML R 76	10 mg to 320 g	1.4 mg
72	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Readability: 1 g (Accuracy Class II & Coarser)	Using F1 & F2 accuracy Class standard weights and procedure as per OIML R 76	15 kg to 30 kg	0.79g
73	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Readability 0.5 g (Accuracy Class II & Coarser)	Using F1 & F2 accuracy class standard weights and procedure as per OIML R 76	6.2 kg to 15 kg	0.50 g
74	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Readability: 0.1g (Accuracy Class II & Coarser)	Using F1 & F2 accuracy class standard weights and procedure as per OIML R 76	320 g to 6.2 kg	0.12 g
75	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Readability: 10 g (Accuracy Class IV)	Using F2 & M1 accuracy class standard weights and procedure as per OIML R 76	50 kg to 100 kg	13.5 g



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**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2363 **Page No** 48 of 50

**Validity** 26/08/2022 to 25/08/2024 **Last Amended on** 25/01/2023

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76	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Readability: 5 g (Accuracy Class III & Coarser)	Using F2 & M1 accuracy class standard weights and procedure as per OIML R 76	30 kg to 50 kg	3.83 g
77	THERMAL-TEMPERATURE	Chamber, Hot Air Oven, Auto Clave (for non-medical purpose only), Furnace (Multi Position / Min. 9 Sensors)	Using RTDs and Data Logger by Comparison Method	100 °C to 300 °C	2.6°C
78	THERMAL-TEMPERATURE	Deep Freezer, Freezer, Chamber, Water Bath, Incubators (non-medical purpose only), Refrigerators, Hot Air Oven (Multi Position / Min. 9 Sensors)	Using RTDs and Multi Channel Recorder By Comparison Method	-80 °C to 100 °C	2.2°C
79	THERMAL-TEMPERATURE	Hot Air Oven, Furnace (Multi Position / Min. 9 Sensors)	Using N type Thermocouples and Data Logger by Comparison Method	300 °C to 1200 °C	4.3°C
80	THERMAL-TEMPERATURE	Temperature Chamber, Hot Air Oven, Furnace (Single Position)	Using R Type Thermocouple with Multi Function Calibrator by Comparison Method	400 °C to 1200 °C	2.3°C





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**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2363 **Page No** 49 of 50

**Validity** 26/08/2022 to 25/08/2024 **Last Amended on** 25/01/2023

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81	THERMAL-TEMPERATURE	Temperature sensor with indicator of Chamber, Hot Air Oven, Auto Clave (for non-medical purpose only), Furnace (Single Position)	Using RTD Sensor with Multi Function Calibrator by Comparison Method	100 °C to 400 °C	0.7°C
82	THERMAL-TEMPERATURE	Temperature sensor with indicator of Deep Freezer, Freezer, Chamber, Water Bath, Incubators (for non-medical purpose only), Refrigerators, Hot Air Oven, (Single Position)	Using RTD Sensor with Multi Function Calibrator by Comparison Method	-80 °C to 100 °C	0.7°C
83	THERMAL-TEMPERATURE	Thermometer, RTD Sensor, Thermocouple, Temperature Indicator / Controller / Transmitter / Recorder with Sensor, Temperature Gauge	Using RTD Sensor with Multi Function Calibrator & Dry Block Calibrator by Comparison Method	200 °C to 400 °C	0.76°C



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**Certificate Number** CC-2363 **Page No** 50 of 50

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84	THERMAL-TEMPERATURE	Thermometer, RTD Sensor, Thermocouple, Temperature Indicator / Controller / Transmitter / Recorder with Sensor, Temperature Gauge	Using RTD Sensor with Multi Function Calibrator & Dry Block Calibrator by Comparison Method	50 °C to 200 °C	0.5°C
85	THERMAL-TEMPERATURE	Thermometer, Thermocouple, Temperature Indicator / Controller / Transmitter / Recorder with Sensor	Using R-Type Thermocouple with Multi Function Calibrator & Dry Block Calibrator by Comparison Method	400 °C to 1200 °C	2.1°C

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