



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name MULTITECH MEASUREMENT TECHNOLOGIES, NO.33/14, JAYAMMAL STREET, AYYAVOO COLONY, AMINJIKARAI, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2196 Page No. : 1 / 26

Validity 05/07/2019 to 04/07/2021 Last Amended on -

S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
Permanent Facility					
1	ELECTRO-TECHNICAL- OTHERS (Measure)	DC VOTAGE	1 V to 12 V	0.58% to 0.052%	Fluke 6 1/2 DMM / By Direct Method
2	ELECTRO-TECHNICAL- OTHERS (Measure)	DC VOTAGE	12 V to 30 V	0.052% to 0.2%	Fluke 6 1/2 DMM / By Direct Method
3	ELECTRO-TECHNICAL- OTHERS (Measure)	TIMER	1 Sec to 9000 Sec	0.1Sec to 10Sec	Using Digital Timer / by Comparison Method
4	ELECTRO-TECHNICAL- OTHERS (Measure)	TIMER	9000 Sec to 86400 Sec	10Sec to 118.5Sec	Using Digital Timer / by Comparison Method
5	ELECTRO-TECHNICAL- OTHERS (Source)	DC CURRENT	0.1 mA to 1 mA	6.3% to 1.13%	Multi Function Calibrator / By Direct Method
6	ELECTRO-TECHNICAL- OTHERS (Source)	DC CURRENT	1 mA to 10 mA	1.13% to 0.12%	Multi Function Calibrator / By Direct Method
7	ELECTRO-TECHNICAL- OTHERS (Source)	DC CURRENT	10 mA to 20 mA	0.12% to 0.10%	Multi Function Calibrator / By Direct Method
8	ELECTRO-TECHNICAL- OTHERS (Source)	DC VOLTAGE	1 V to 10 V	0.63% to 0.074%	Multi Function Calibrator / By Direct Method
9	ELECTRO-TECHNICAL- OTHERS (Source)	DC VOLTAGE	10 mV to 100 mV	0.65% to 0.09%	Multi Function Calibrator / By Direct Method
10	ELECTRO-TECHNICAL- OTHERS (Source)	DC VOLTAGE	100 mV to 1 V	0.09% to 0.63%	Multi Function Calibrator / By Direct Method



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Certificate Number CC-2196 Page No. : 2 / 26

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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
11	ELECTRO-TECHNICAL- OTHERS (Source)	FREQUENCY	1 kHz to 50 kHz	0.07% to 0.017%	Multi Function Calibrator / By Direct Method
12	ELECTRO-TECHNICAL- OTHERS (Source)	FREQUENCY	10 Hz to 1 kHz	0.58% to 0.07%	Multi Function Calibrator / By Direct Method
13	ELECTRO-TECHNICAL- OTHERS (Source)	RESISTANCE	100 Ohms to 400 Ohms	0.15% to 0.04%	Multi Function Calibrator / By Direct Method
14	ELECTRO-TECHNICAL- OTHERS (Source)	RESISTANCE	400 Ohms to 4000 Ohms	0.04% to 0.045%	Multi Function Calibrator / By Direct Method
15	ELECTRO-TECHNICAL- TEMPERATURE SIMULATION (Source)	TEMPERATURE SIMULATION(B Type)	600 °C to 1800 °C	2.45°C	Multi Function Calibrator / By Direct Method
16	ELECTRO-TECHNICAL- TEMPERATURE SIMULATION (Source)	TEMPERATURE SIMULATION(E Type)	-200 °C to 900 °C	1.07°C	Multi Function Calibrator / By Direct Method
17	ELECTRO-TECHNICAL- TEMPERATURE SIMULATION (Source)	TEMPERATURE SIMULATION(J Type)	-200 °C to 1100 °C	0.92°C	Multi Function Calibrator / By Direct Method
18	ELECTRO-TECHNICAL- TEMPERATURE SIMULATION (Source)	TEMPERATURE SIMULATION(K Type)	-100 °C to 1300 °C	1.07°C	Multi Function Calibrator / By Direct Method
19	ELECTRO-TECHNICAL- TEMPERATURE SIMULATION (Source)	TEMPERATURE SIMULATION(N Type)	-200 °C to 1300 °C	1.31°C	Multi Function Calibrator / By Direct Method



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2196 Page No. : 3 / 26

Validity 05/07/2019 to 04/07/2021 Last Amended on -

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20	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TEMPERATURE SIMULATION(PT-100)	-100 °C to 800 °C	0.39°C	Multi Function Calibrator / By Direct Method
21	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TEMPERATURE SIMULATION(R Type)	200 °C to 1700 °C	2.45°C	Multi Function Calibrator / By Direct Method
22	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TEMPERATURE SIMULATION(S Type)	200 °C to 1760 °C	1.87°C	Multi Function Calibrator / By Direct Method
23	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TEMPERATURE SIMULATION(T Type)	-200 °C to 390 °C	0.86°C	Multi Function Calibrator / By Direct Method
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	2 D Height GaugeL.C: 0.0001 mm	0 to 600 mm	6µm	Slip gauges/Long slip gauges / By Comparison Method
25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	BORE GAUGE (Transmission Only)L.C.: 0.001 mm	0 to 1.2 mm	1.8µm	Using Dial Calibration Tester / IS:2092 By Comparison Method
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	CALIPER CHECKER	0 to 600 mm	7.8µm	Carbide Slip Gauge & Long Steel Slip Gauge & Lever Dial gauge / By Comparison Method



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2196 Page No. : 4 / 26

Validity 05/07/2019 to 04/07/2021 Last Amended on -

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27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	COATING MASTER STANDARD THICKNESS FOIL	0.02 mm to 2 mm	1.5µm	Electronic Probe With DRO / By Comparison Method with slip 0 grade
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	COATING THICKNESS GAUGE	0 to 2 mm	11.9 µm	Master foils / IS:6012:1992 By Comparison Method
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	COMPARATOR DIAL GAUGE S.L.C: 0.01 mm	Up to ±50 µm	1.9µm	Using Dial Calibration Tester / IS:2092 By Comparison Method
30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	COMPARATOR STAND(Flatness of the base)	Up to 200 mm	3.2µm	Lever dial gauge & Optical flat / IS: 7599 (Part 2)By Comparison Method
31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	CYLINDRICAL MEASURING PIN	0.5 mm to 20 mm	1.3µm	Slip Gauge / Electronic Probe With DRO / IS: 11103 By Comparison Method
32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	CYLINDRICAL SETTING MASTER(Diameter Only)	Up to 100 mm	1.7µm	Carbide Slip Gauge & Long Steel Slip Gauge & Electronical Probe With DRO / IS : 4349 By Comparison Method



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2196 Page No. : 5 / 26

Validity 05/07/2019 to 04/07/2021 Last Amended on -

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33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	DEPTH MICROMETER(Analog & Digital)L.C: 0.001 mm	0 to 300 mm	4.5µm	Using Carbide Slip Gauges & Long Steel Slip gauges / BS:6468 By Comparison Method
34	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	DIAL CALIBRATION TESTERL.C: 0.0002 mm	0 to 25 mm	1µm	Electronic Probe With DRO / IS:9483:1993 By comparison method
35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	DIAL CALIPER GAUGE / GROOVE DIAL GAUGE (Internal / External)L.C.: 0.01 mm	3 mm to 100 mm	11.1 µm	Using Slip Gauges & Slip gauge accessories / By Comparison Method
36	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	DIAL SNAP GAUGEL.C: 0.001 mm	0 to 100 mm	1.5µm	Using Carbide Slip Gauges / IS : 2967 By Comparison Method
37	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	DIAL/DIGITAL THICKNESS GAUGE L.C 0.01 mm	0 to 10 mm	6.4µm	Using Carbide Slip gauges / IS:2092 By Comparison Method
38	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	ENGINEERING PARALLELS	(300X25X25) mm	3µm	Electronic probe with DRO& Lever dial gauge / IS:4241By Comparison Method



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2196 Page No. : 6 / 26

Validity 05/07/2019 to 04/07/2021 Last Amended on -

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39	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	EXTERNAL MICROMETER (DIGITAL/ANALOG)(Ball/Blade/Disc/Point/Pin/Spline/Pitch)L.C: 0.001 mm	0 to 100 mm	1.6µm	Using Carbide Slip Gauges & Long Steel Slip gauges / IS 2967 By Comparison Method
40	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	EXTERNAL MICROMETER (DIGITAL/ANALOG)L.C: 0.01 mm	100 mm to 1000 mm	10.5µm	Using Carbide Slip Gauges & Long Steel Slip gauges / IS : 2967 By Comparison Method
41	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	FEELER GAUGE	0.05 mm to 2 mm	2.2µm	Using Digital Micrometer / IS : 3179 By Comparison Method
42	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	FLUSH PIN GAUGE	Upto 200 mm	2.6 µm	Electronic Probe With DRO / By Comparison Method
43	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	HEIGHT GAUGE (Vernier/Digital/Dial/Digital)L.C: 0.01 mm	0 to 1000 mm	13.8µm	Caliper checker, Long slip gauge & Lever Dial / IS:2921 By Comparison Method
44	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	INSIDE MICROMETER (Caliper Type)L.C: 0.01 mm	5 mm to 100 mm	6.6µm	Using Carbide Slip Gauges & Slip Gauge Accessories / IS : 2966, IS:2967 By Comparison Method



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2196 Page No. : 7 / 26

Validity 05/07/2019 to 04/07/2021 Last Amended on -

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45	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	INTERNAL / STICK MICROMETER L.C: 0.01 mm	0 to 1000 mm	10.8 µm	Carbide Slip Gauges/ Long Steel Slip Gauges /dial Gauge IS : 2966 By Comparison Method
46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	LENGTH BAR	Upto 300 mm	3.8µm	Carbide Slip Gauges/ Long Steel Slip Gauges/ Electronic Probe with DRO / IS:6012:1992 By Comparison Method
47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	LEVER TYPE DIAL GAUGE L.C : 0.001 mm	0 to 0.14 mm	2.6µm	Using Dial Calibration Tester / IS:11498 By Comparison Method
48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	LEVER TYPE DIAL GAUGE L.C : 0.01 mm	0 to 2 mm	5.9 µm	Using Dial Calibration Tester / IS:11498 By Comparison Method
49	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	LIMIT GAUGES (Length / Width / Depth / Thickness)	Upto 100 mm	2.8µm	Electronic Probe With DRO / Digital Micrometer & Slip Gauge / IS: 3455 & IS: 7066 By Comparison Method
50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	LIMIT GAUGES (Length / Width / Depth / Thickness)	Upto 25 mm	2.2µm	Electronic Probe With DRO / Digital Micrometer & Slip Gauge / IS: 3455 & IS: 7066 By Comparison Method



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2196 Page No. : 8 / 26

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51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	LVDT / ELECTRONIC PROBE WITH DIGITAL INDICATOR L.C: 0.0001 mm	0 to 25 mm	0.7µm	Using Carbide Slip Gauges / By Comparison Method
52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	MICROMETER HEAD L.C: 0.0002 mm	Up to 25 mm	1µm	Electronic Probe With DRO / IS: 9483 By Comparison Method
53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	MICROMETER SETTING ROD	25 mm to 300 mm	3.7µm	Carbide Slip Gauges/ Long Steel Slip Gauges/ Electronic Probe with DRO / By Comparison Method
54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	MICROMETER SETTING ROD	300 mm to 1000 mm	8.1µm	Carbide Slip Gauges/ Long Steel Slip Gauges/ Electronic Probe with DRO / By Comparison Method
55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PISTOL CALIPER L.C: 0.1 mm	0 to 70 mm	57.8µm	Using Carbide Slip Gauges / By Comparison Method
56	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PLAIN PLUG GAUGE / SETTING PLUG GAUGE	0.5 mm to 100 mm	1.6µm	Carbide Slip Gauges & Long Steel Slip Gauges & Electronic Probe With DRO / IS: 3455 By Comparison Method



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Certificate Number CC-2196 Page No. : 9 / 26

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57	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PLAIN PLUG GAUGE / SETTING PLUG GAUGE	100 mm to 300 mm	4.2µm	Carbide Slip Gauges & Long Steel Slip Gauges & Electronic Probe With DRO / IS: 3455 By Comparison Method
58	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PLUNGER TYPE DIAL GAUGE.L.C : 0.001 mm dial and digital	0 to 12.7 mm	2.6µm	Using Dial Calibration Tester / IS:2092 By Comparison Method
59	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PLUNGER TYPE DIAL GAUGE.L.C : 0.01 mm dial and digital	0 to 50 mm	3.9µm	Using Dial Calibration Tester / IS:2092 By Comparison Method
60	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PLUNGER TYPE DIAL GAUGE(Digital).L.C : 0.001 mm	0 to 50 mm	1.0µm	Using Dial Calibration Tester & Slip gauges / IS:2092 By Comparison Method
61	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PLUNGER TYPE DIAL GAUGE(Digital).L.C : 0.01 mm	0 to 50 mm	6.5µm	Using Dial Calibration Tester & Slip gauges / IS:2092 By Comparison Method
62	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	SLIP GAUGE ACCESSORIES	Up to 300 mm	2µm	Using Optical Flat / Electronic Probe With DRO / IS: 4440 By Comparison Method



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2196 Page No. : 10 / 26

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63	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	SNAP GAUGE (Fixed/Adjustable/Gap Gauge)	100 mm to 200 mm	±3.1 µm	Slip Gauge/ Long Slip Gauges / IS : 3455 & IS : 7066 By Comparison Method
64	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	SNAP GAUGE (Fixed/Adjustable/Gap Gauge)	100 mm to 300 mm	3.9µm	Slip Gauge/ Long Slip Gauges / IS : 3455 & IS : 7066 By Comparison Method
65	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	SNAP GAUGE (Fixed/Adjustable/Gap Gauge)	2 mm to 100 mm	1.1µm	Slip Gauge/ Long Slip Gauges / IS : 3455 & IS : 7066 By Comparison Method
66	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	SPIRIT LEVEL	+/- 1 mm/m	0.009mm/m	Electronic level / IS:5706-1993 By Comparison Method, 150 mm base
67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	SURFACE PLATE	(3000 X 1500) mm	0.8 sq rt ((L+W)/150) µm, L and W in mm	Using Electronic Level / IS: 12937, IS: 7327 & IS:2285 By Comparison Method
68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	THREAD MEASURING WIRE (Two / Three wire Method)	0.17 mm to 6.35 mm	0.9µm	Carbide Slip Gauge & Electronic Probe With DRO / IS : 6311 By Comparison Method



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Certificate Number CC-2196 Page No. : 11 / 26

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69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	ULTRASONIC THICKNESS GAUGE L.C: 0.01 mm	0 to 50 mm	9.8µm	Using Steel Slip Gauges By Comparison Method
70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	ULTRASONIC THICKNESS GAUGE L.C: 0.1 mm	0 to 50 mm	65.3 µm	Using Steel Slip Gauges / By Comparison Method
71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-BLOCK(Symmetrycity)	Up to 300 mm	3.9µm	Steel Slip Gauge & Mandrel & Lever Type dial Gauge / IS: 2949-1992 By Comparison Method
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-BLOCKFlatness,parallelism	Up to 300 mm	3.4µm	Steel Slip Gauge & Mandrel & Lever Type dial Gauge / IS: 2949-1992 By Comparison Method
73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	VERNIER CALIPER (Analog/Digital/Dial/Hook/Groove)L.C: 0.01 mm	0 to 600 mm	8.7µm	Using Caliper Checker / IS : 3651 (Part 2) By Comparison Method
74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	VERNIER CALIPER (Analog/Digital/Dial/Hook/Groove)L.C: 0.01 mm	600 mm to 1000 mm	14.1µm	Caliper Checker & Long Steel Slip Gauges / IS : 3651 (Part 2) By Comparison Method



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Certificate Number CC-2196 Page No. : 12 / 26

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75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	VERNIER CALIPER (Analog/Digital/Dial/Hook/Groove)L.C: 0.01 mmL.C: 0.02 mm	0 to 300 mm	10.3 µm	Using Caliper Checker / IS: 3651 (Part 2) by Comparison Method
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	VERNIER DEPTH GAUGE (Digital/Dial/Hook)L.C: 0.01 mm	0 to 600 mm	6.8µm	Using Carbide Slip Gauges, Long Steel Slip Gauges & Granite surface plate / IS : 4213 (Part 2) By Comparison Method
77	MECHANICAL-PRESSURE INDICATING DEVICES	HYDRAULIC PRESSURE GAUGE(Digital Pressure Gauge/Analog Pressure Gauge/Transmitter & Transducer)	0 bar to 700 bar	0.45bar	Using with Pressure calibrator 0 to 700bar / DKD-R 6-1, By Comparison Method
78	MECHANICAL-PRESSURE INDICATING DEVICES	PNEUMATIC PRESSURE GAUGE(Digital Pressure Gauge/Analog Pressure Gauge/Transmitter & Transducer)	0 bar to 20 bar	0.013bar	Using with Pressure calibrator -1 to 20bar / DKD-R 6-1, By Comparison Method
79	MECHANICAL-PRESSURE INDICATING DEVICES	VACUUM-NEGATIVE PRESSURE(Digital Vacuum Gauge/Dial Vacuum Gauge/Transmitter & Transducer)	-0.9 bar to 0 bar	0.003bar	Using with Pressure calibrator -1 to 20bar / DKD-R 6-2, By Comparison Method



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2196 Page No. : 13 / 26

Validity 05/07/2019 to 04/07/2021 Last Amended on -

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80	MECHANICAL- WEIGHING SCALE AND BALANCE	ELECTRONIC WEIGHING BALANCEReadability = 0.1 mgfor (Class 1 and Coarser)	0 g to 200 g	22mg	Using Standards weights E2 Class / As Per OIML R-76-1:2006 / Euramet-cg-18
81	MECHANICAL- WEIGHING SCALE AND BALANCE	ELECTRONIC WEIGHING BALANCEReadability = 1 gfor (Class III and above)	0 kg to 10 kg	0.77g	Using Standards weights M1 Class / As Per OIML R-76-1:2006
82	MECHANICAL- WEIGHING SCALE AND BALANCE	ELECTRONIC WEIGHING BALANCEReadability = 10 gfor (Class III and above)	>30 kg to 150 kg	19g	Using Standards weights M1 Class / As Per OIML R-76-1:2006 / As Per Euramet-cg-18
83	MECHANICAL- WEIGHING SCALE AND BALANCE	ELECTRONIC WEIGHING BALANCEReadability = 2 gfor (Class III and above)	>10 kg to 30 kg	2g	Using Standards weights M1 Class / As Per OIML R-76-1:2006 Euramet-cg-18
84	MECHANICAL- WEIGHING SCALE AND BALANCE	ELECTRONIC WEIGHING BALANCEReadability = 200 gfor (Class III and above)	>150 kg to 200 kg	116g	Using Standards weights M1 Class / As Per OIML R-76-1:2006 / Euramet-cg-18



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name MULTITECH MEASUREMENT TECHNOLOGIES, NO.33/14, JAYAMMAL STREET, AYYAVOO COLONY, AMINJIKARAI, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2196 Page No. : 14 / 26

Validity 05/07/2019 to 04/07/2021 Last Amended on -

S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
85	MECHANICAL-WEIGHTS	WEIGHTS(F1 Class Accuracy and Coarser)	1 g	0.021mg	Using E2 Class Standards Weights and Analytical Balance (Up to 42g Readability 0.01mg /0.1mg up to 210g) / As Per OIML-R111-1 (2004) OIML-R111-2 (2004) By Comparison Method
86	MECHANICAL-WEIGHTS	WEIGHTS(F1 Class Accuracy and Coarser)	1 mg	0.009mg	Using E2 Class Standards Weights and Analytical Balance (Up to 42g Readability 0.01mg /0.1mg up to 210g) / As Per OIML-R111-1 (2004) OIML-R111-2 (2004) By Comparison Method
87	MECHANICAL-WEIGHTS	WEIGHTS(F1 Class Accuracy and Coarser)	10 g	0.022mg	Using E2 Class Standards Weights and Analytical Balance (Up to 42g Readability 0.01mg /0.1mg up to 210g) / As Per OIML-R111-1 (2004) OIML-R111-2 (2004) By Comparison Method



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name MULTITECH MEASUREMENT TECHNOLOGIES, NO.33/14, JAYAMMAL STREET, AYYAVOO COLONY, AMINJIKARAI, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2196 Page No. : 15 / 26

Validity 05/07/2019 to 04/07/2021 Last Amended on -

S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
88	MECHANICAL-WEIGHTS	WEIGHTS(F1 Class Accuracy and Coarser)	10 mg	0.010mg	Using E2 Class Standards Weights and Analytical Balance (Up to 42g Readability 0.01mg /0.1mg up to 210g) / As Per OIML-R111-1 (2004) OIML-R111-2 (2004) By Comparison Method
89	MECHANICAL-WEIGHTS	WEIGHTS(F1 Class Accuracy and Coarser)	100 g	0.11mg	Using E2 Class Standards Weights and Analytical Balance (Up to 42g Readability 0.01mg /0.1mg up to 210g) / As Per OIML-R111-1 (2004) OIML-R111-2 (2004) By Comparison Method
90	MECHANICAL-WEIGHTS	WEIGHTS(F1 Class Accuracy and Coarser)	100 mg	0.015mg	Using E2 Class Standards Weights and Analytical Balance (Up to 42g Readability 0.01mg /0.1mg up to 210g) / As Per OIML-R111-1 (2004) OIML-R111-2 (2004) By Comparison Method



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name MULTITECH MEASUREMENT TECHNOLOGIES, NO.33/14, JAYAMMAL STREET, AYYAVOO COLONY, AMINJIKARAI, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2196 Page No. : 16 / 26

Validity 05/07/2019 to 04/07/2021 Last Amended on -

S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
91	MECHANICAL-WEIGHTS	WEIGHTS(F1 Class Accuracy and Coarser)	2 g	0.021mg	Using E2 Class Standards Weights and Analytical Balance (Up to 42g Readability 0.01mg /0.1mg up to 210g) / As Per OIML-R111-1 (2004) OIML-R111-2 (2004) By Comparison Method
92	MECHANICAL-WEIGHTS	WEIGHTS(F1 Class Accuracy and Coarser)	2 mg	0.009mg	Using E2 Class Standards Weights and Analytical Balance (Up to 42g Readability 0.01mg /0.1mg up to 210g) / As Per OIML-R111-1 (2004) OIML-R111-2 (2004) By Comparison Method
93	MECHANICAL-WEIGHTS	WEIGHTS(F1 Class Accuracy and Coarser)	20 g	0.028mg	Using E2 Class Standards Weights and Analytical Balance (Up to 42g Readability 0.01mg /0.1mg up to 210g) / As Per OIML-R111-1 (2004) OIML-R111-2 (2004) By Comparison Method



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name MULTITECH MEASUREMENT TECHNOLOGIES, NO.33/14, JAYAMMAL STREET, AYYAVOO COLONY, AMINJIKARAI, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2196 Page No. : 17 / 26

Validity 05/07/2019 to 04/07/2021 Last Amended on -

S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
94	MECHANICAL-WEIGHTS	WEIGHTS(F1 Class Accuracy and Coarser)	20 mg	0.015mg	Using E2 Class Standards Weights and Analytical Balance (Up to 42g Readability 0.01mg /0.1mg up to 210g) / As Per OIML-R111-1 (2004) OIML-R111-2 (2004) By Comparison Method
95	MECHANICAL-WEIGHTS	WEIGHTS(F1 Class Accuracy and Coarser)	200 g	0.14mg	Using E2 Class Standards Weights and Analytical Balance (Up to 42g Readability 0.01mg /0.1mg up to 210g) / As Per OIML-R111-1 (2004) OIML-R111-2 (2004) By Comparison Method
96	MECHANICAL-WEIGHTS	WEIGHTS(F1 Class Accuracy and Coarser)	200 mg	0.015mg	Using E2 Class Standards Weights and Analytical Balance (Up to 42g Readability 0.01mg /0.1mg up to 210g) / As Per OIML-R111-1 (2004) OIML-R111-2 (2004) By Comparison Method



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name MULTITECH MEASUREMENT TECHNOLOGIES, NO.33/14, JAYAMMAL STREET, AYYAVOO COLONY, AMINJIKARAI, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2196 Page No. : 18 / 26

Validity 05/07/2019 to 04/07/2021 Last Amended on -

S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
97	MECHANICAL-WEIGHTS	WEIGHTS(F1 Class Accuracy and Coarser)	5 g	0.021mg	Using E2 Class Standards Weights and Analytical Balance (Up to 42g Readability 0.01mg /0.1mg up to 210g) / As Per OIML-R111-1 (2004) OIML-R111-2 (2004) By Comparison Method
98	MECHANICAL-WEIGHTS	WEIGHTS(F1 Class Accuracy and Coarser)	5 mg	0.010mg	Using E2 Class Standards Weights and Analytical Balance (Up to 42g Readability 0.01mg /0.1mg up to 210g) / As Per OIML-R111-1 (2004) OIML-R111-2 (2004) By Comparison Method
99	MECHANICAL-WEIGHTS	WEIGHTS(F1 Class Accuracy and Coarser)	50 g	0.09mg	Using E2 Class Standards Weights and Analytical Balance (Up to 42g Readability 0.01mg /0.1mg up to 210g) / As Per OIML-R111-1 (2004) OIML-R111-2 (2004) By Comparison Method



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name MULTITECH MEASUREMENT TECHNOLOGIES, NO.33/14, JAYAMMAL STREET, AYYAVOO COLONY, AMINJIKARAI, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2196 Page No. : 19 / 26

Validity 05/07/2019 to 04/07/2021 Last Amended on -

S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
100	MECHANICAL-WEIGHTS	WEIGHTS(F1 Class Accuracy and Coarser)	50 mg	0.015mg	Using E2 Class Standards Weights and Analytical Balance (Up to 42g Readability 0.01mg /0.1mg up to 210g) / As Per OIML-R111-1 (2004) OIML-R111-2 (2004) By Comparison Method
101	MECHANICAL-WEIGHTS	WEIGHTS(F1 Class Accuracy and Coarser)	500 mg	0.021mg	Using E2 Class Standards Weights and Analytical Balance (Up to 42g Readability 0.01mg /0.1mg up to 210g) / As Per OIML-R111-1 (2004) OIML-R111-2 (2004) By Comparison Method
102	THERMAL-TEMPERATURE	RTD Sensor, Thermocouple, RTD Sensor / Thermocouple with Indicator, Temperature gauge, Digital Thermometer with Sensor, Temperature Transmitter with sensor	-15 °C to 250 °C	0.21°C	Using RTD Sensor , S type Thermocouple , 6.5 Digital Multi Meter, Multi-Function with Liquid bath and Dry block bath Calibrator by comparison method



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name MULTITECH MEASUREMENT TECHNOLOGIES, NO.33/14, JAYAMMAL STREET, AYYAVOO COLONY, AMINJIKARAI, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2196 Page No. : 20 / 26

Validity 05/07/2019 to 04/07/2021 Last Amended on -

S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
103	THERMAL-TEMPERATURE	RTD Sensor, Thermocouple, RTD Sensor / Thermocouple with Indicator, Temperature gauge, Digital Thermometer with Sensor, Temperature Transmitter with sensor	250 °C to 600 °C	0.64°C	Using RTD Sensor , S type Thermocouple , 6.5 Digital Multi Meter, Multi-Function Calibrator with Dry Block bath by comparison method
104	THERMAL-TEMPERATURE	Thermocouple, Thermocouple with Indicator, Temperature gauge, Digital Thermometer with Sensor, Temperature Transmitter with Sensor	600 °C to 1200 °C	1.72°C	S type Thermocouple , 6.5 Digital Multi Meter, Multi-Function Calibrator with Dry Block by comparison method



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name MULTITECH MEASUREMENT TECHNOLOGIES, NO.33/14, JAYAMMAL STREET, AYYAVOO COLONY, AMINJIKARAI, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2196 Page No. : 21 / 26

Validity 05/07/2019 to 04/07/2021 Last Amended on -

S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
Site Facility					
1	ELECTRO- TECHNICAL- OTHERS (Measure)	DC VOTAGE	1 V to 12 V	0.58% to 0.052%	Fluke 6 1/2 DMM / By Direct Method
2	ELECTRO- TECHNICAL- OTHERS (Measure)	DC VOTAGE	12 V to 30 V	0.052% to 0.2%	Fluke 6 1/2 DMM / By Direct Method
3	ELECTRO- TECHNICAL- OTHERS (Measure)	TIMER	1 Sec to 9000 Sec	0.1Sec to 10Sec	Using Digital Timer / by Comparison Method
4	ELECTRO- TECHNICAL- OTHERS (Measure)	TIMER	9000 Sec to 86400 Sec	10Sec to 118.5Sec	Using Digital Timer / by Comparison Method
5	ELECTRO- TECHNICAL- OTHERS (Source)	DC CURRENT	0.1 mA to 1 mA	6.3% to 1.13%	Multi Function Calibrator / By Direct Method
6	ELECTRO- TECHNICAL- OTHERS (Source)	DC CURRENT	1 mA to 10 mA	1.13% to 0.12%	Multi Function Calibrator / By Direct Method
7	ELECTRO- TECHNICAL- OTHERS (Source)	DC CURRENT	10 mA to 20 mA	0.12% to 0.10%	Multi Function Calibrator / By Direct Method
8	ELECTRO- TECHNICAL- OTHERS (Source)	DC VOLTAGE	1 V to 10 V	0.63% to 0.074%	Multi Function Calibrator / By Direct Method
9	ELECTRO- TECHNICAL- OTHERS (Source)	DC VOLTAGE	10 mV to 100 mV	0.65% to 0.09%	Multi Function Calibrator / By Direct Method
10	ELECTRO- TECHNICAL- OTHERS (Source)	DC VOLTAGE	100 mV to 1 V	0.09% to 0.63%	Multi Function Calibrator / By Direct Method



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name MULTITECH MEASUREMENT TECHNOLOGIES, NO.33/14, JAYAMMAL STREET, AYYAVOO COLONY, AMINJIKARAI, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2196 Page No. : 22 / 26

Validity 05/07/2019 to 04/07/2021 Last Amended on -

S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
11	ELECTRO-TECHNICAL- OTHERS (Source)	FREQUENCY	1 kHz to 50 kHz	0.07% to 0.017%	Multi Function Calibrator / By Direct Method
12	ELECTRO-TECHNICAL- OTHERS (Source)	FREQUENCY	10 Hz to 1 kHz	0.58% to 0.07%	Multi Function Calibrator / By Direct Method
13	ELECTRO-TECHNICAL- OTHERS (Source)	RESISTANCE	100 Ohms to 400 Ohms	0.15% to 0.04%	Multi Function Calibrator / By Direct Method
14	ELECTRO-TECHNICAL- OTHERS (Source)	RESISTANCE	400 Ohms to 4000 Ohms	0.04% to 0.045%	Multi Function Calibrator / By Direct Method
15	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TEMPERATURE SIMULATION(B Type)	600 °C to 1800 °C	2.45°C	Multi Function Calibrator / By Direct Method
16	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TEMPERATURE SIMULATION(E Type)	-200 °C to 900 °C	1.07°C	Multi Function Calibrator / By Direct Method
17	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TEMPERATURE SIMULATION(J Type)	-200 °C to 1100 °C	0.92°C	Multi Function Calibrator / By Direct Method
18	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TEMPERATURE SIMULATION(K Type)	-100 °C to 1300 °C	1.07°C	Multi Function Calibrator / By Direct Method
19	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TEMPERATURE SIMULATION(N Type)	-200 °C to 1300 °C	1.31°C	Multi Function Calibrator / By Direct Method



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name MULTITECH MEASUREMENT TECHNOLOGIES, NO.33/14, JAYAMMAL STREET, AYYAVOO COLONY, AMINJIKARAI, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2196 Page No. : 23 / 26

Validity 05/07/2019 to 04/07/2021 Last Amended on -

S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
20	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TEMPERATURE SIMULATION(PT-100)	-100 °C to 800 °C	0.39°C	Multi Function Calibrator / By Direct Method
21	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TEMPERATURE SIMULATION(R Type)	200 °C to 1700 °C	2.45°C	Multi Function Calibrator / By Direct Method
22	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TEMPERATURE SIMULATION(S Type)	200 °C to 1760 °C	1.87°C	Multi Function Calibrator / By Direct Method
23	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TEMPERATURE SIMULATION(T Type)	-200 °C to 390 °C	0.86°C	Multi Function Calibrator / By Direct Method
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	2 D Height GaugeL.C: 0.0001 mm	0 to 600 mm	6µm	Slip gauges/Long slip gauges / By Comparison Method
25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	BENCH CENTRE (Co-axiality of Centre)	125 mm X 500 mm	4.7µm	Using Master Mandrel / Lever Type Dial Gauge / IS: 5980 By Comparison Method
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	SURFACE PLATE	(3000 X 1500) mm	0.8 sq rt ((L+W)/150) µm, L and W in mm	Using Electronic Level / IS: 12937, IS: 7327 & IS:2285 By Comparison Method



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name MULTITECH MEASUREMENT TECHNOLOGIES, NO.33/14, JAYAMMAL STREET, AYYAVOO COLONY, AMINJIKARAI, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2196 Page No. : 24 / 26

Validity 05/07/2019 to 04/07/2021 Last Amended on -

S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
27	MECHANICAL-PRESSURE INDICATING DEVICES	HYDRAULIC PRESSURE GAUGE(Digital Pressure Gauge/Analog Pressure Gauge/Transmitter & Transducer)	0 bar to 700 bar	0.45bar	Using with Pressure calibrator 0 to 700bar / DKD-R 6-1, By Comparison Method
28	MECHANICAL-PRESSURE INDICATING DEVICES	PNEUMATIC PRESSURE GAUGE(Digital Pressure Gauge/Analog Pressure Gauge/Transmitter & Transducer)	0 bar to 20 bar	0.013bar	Using with Pressure calibrator -1 to 20bar / DKD-R 6-1, By Comparison Method
29	MECHANICAL-PRESSURE INDICATING DEVICES	VACUUM-NEGATIVE PRESSURE(Digital Vacuum Gauge/Dial Vacuum Gauge/Transmitter & Transducer)	-0.9 bar to 0 bar	0.003bar	Using with Pressure calibrator -1 to 20bar / DKD-R 6-2, By Comparison Method
30	MECHANICAL-WEIGHING SCALE AND BALANCE	ELECTRONIC WEIGHING BALANCE Readability = 0.1 mg for (Class 1 and Coarser)	0 g to 200 g	22mg	Using Standards weights E2 Class / As Per OIML R-76-1:2006 / Euramet-cg-18
31	MECHANICAL-WEIGHING SCALE AND BALANCE	ELECTRONIC WEIGHING BALANCE Readability = 1 g for (Class III and above)	0 kg to 10 kg	0.77g	Using Standards weights M1 Class / As Per OIML R-76-1:2006



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name MULTITECH MEASUREMENT TECHNOLOGIES, NO.33/14, JAYAMMAL STREET, AYYAVOO COLONY, AMINJIKARAI, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2196 Page No. : 25 / 26

Validity 05/07/2019 to 04/07/2021 Last Amended on -

S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
32	MECHANICAL-WEIGHING SCALE AND BALANCE	ELECTRONIC WEIGHING BALANCE Readability = 10 gfor (Class III and above)	>30 kg to 150 kg	19g	Using Standards weights M1 Class / As Per OIML R-76-1:2006 / As Per Euramet-cg-18
33	MECHANICAL-WEIGHING SCALE AND BALANCE	ELECTRONIC WEIGHING BALANCE Readability = 2 gfor (Class III and above)	>10 kg to 30 kg	2g	Using Standards weights M1 Class / As Per OIML R-76-1:2006 Euramet-cg-18
34	MECHANICAL-WEIGHING SCALE AND BALANCE	ELECTRONIC WEIGHING BALANCE Readability = 200 gfor (Class III and above)	>150 kg to 200 kg	116g	Using Standards weights M1 Class / As Per OIML R-76-1:2006 / Euramet-cg-18
35	THERMAL-TEMPERATURE	RTD Sensor, Thermocouple, RTD Sensor / Thermocouple with Indicator, Temperature gauge, Digital Thermometer with Sensor, Temperature Transmitter with sensor	-15 °C to 250 °C	0.21°C	Using RTD Sensor , S type Thermocouple , 6.5 Digital Multi Meter, Multi-Function with Liquid bath and Dry block bath Calibrator by comparison method
36	THERMAL-TEMPERATURE	RTD Sensor, Thermocouple, RTD Sensor / Thermocouple with Indicator, Temperature gauge, Digital Thermometer with Sensor, Temperature Transmitter with sensor	250 °C to 600 °C	0.64°C	Using RTD Sensor , S type Thermocouple , 6.5 Digital Multi Meter, Multi-Function Calibrator with Dry Block bath by comparison method



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name MULTITECH MEASUREMENT TECHNOLOGIES, NO.33/14, JAYAMMAL STREET, AYYAVOO COLONY, AMINJIKARAI, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2196 Page No. : 26 / 26

Validity 05/07/2019 to 04/07/2021 Last Amended on -

S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
37	THERMAL-TEMPERATURE	Temperature Controller of Hot Air Oven, Freezer, Incubator(For Non Medical Devices), Autoclave(For Non Medical Devices), Furnace -single point	-50 °C to 250 °C	0.54°C	Using RTD Sensor and Multifunction calibrator by Comparison method
38	THERMAL-TEMPERATURE	Temperature Controller of Hot Air Oven, Furnace -single point	250 °C to 600 °C	2.05°C	N type Thermocouple, Multifunction Calibrator
39	THERMAL-TEMPERATURE	Temperature Controller of Oven,Furnace - single point	600 °C to 1200 °C	2.76°C	N type Thermocouple, Multifunction Calibrator
40	THERMAL-TEMPERATURE	Thermocouple, Thermocouple with Indicator, Temperature gauge, Digital Thermometer with Sensor, Temperature Transmitter with Sensor	600 °C to 1200 °C	1.72°C	S type Thermocouple , 6.5 Digital Multi Meter, Multi-Function Calibrator with Dry Block by comparison method