National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 1 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM Meter with Probe (Contact)	Using Digital Tachometer and RPM Source by Comparison Method	50 rpm to 7500 rpm	2.23 %
2	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Stroboscope, RPM Meter with Probe (Non- contact)	Using Digital Tachometer RPM Source by Comparison Method	50 rpm to 5000 rpm	1.69 %
3	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Stroboscope, RPM Meter with Probe (Non-contact)	Using Digital Tachometer and RPM Source by Comparison Method	5000 rpm to 90000 rpm	0.08 %
4	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by direct method	114 dB	0.93 dB
5	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by direct method	94 dB	0.93 dB
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Gauge (Error of Angle)	Using Sine Bar, Slip gauge Set, Dial Indicator and Surface Plate by Comparison Method	1° to 45°	61 Second

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 2 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Gauge (Error of Angle)	Using Sine Bar, Slip gauge Set, Dial Indicator and Surface Plate by Comparison Metho	6" to 60°	61 Second
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Graticule - L.C.: 1°	Using Profile Projector by Comparison Method	0° to 360°	52 Second
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate / Precision Angle Plate (Squareness of adjacent Faces)	Using Precision Surface Plate, Slip gauge set, Granite Square by Comparison Method	Up to 500 mm	6.0 µm
10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate / Precision Angle Plate (Flatness of working faces)	Using 3 numbers screw jacks, Surface plate, Dial Indicator resolution 1 micron, Holding stand, by Comparison Method	Up to 500 mm	4.75 µm
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate / Precision Angle Plate (Parallelism of opposite face)	Using Surface plate, Dial Indicator with holding arrangement by Comparison Method	Up to 500 mm	4.91 µm

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 3 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Co. Axiality)	Using Test mandrel, Dial Indicator with accessories by Comparison Method	0 to 500 mm	9.2 µm
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Parallelism)	Using Test mandrel, Dial Indicator with accessories by Comparison Method	0 to 500 mm	8.0 µm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector / Angle Protector (Error of Indication) - L.C.: 1 Minute	Using Set of Angle Gauge by Comparison Method	0° to 180°	4.04 Minute
15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector / Angle Protector (Straightness of Blade)	Using Gauge Block set, surface plate and Dial Indicator by Comparison	150 mm to 300 mm	3.60 µm
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Block Square (Parallelism between working faces)	Using Surface plate and Dial Indicator with holding arrangements by Comparison Method	Up to 500 mm	12.8 µm

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 4 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Block Square (Squareness between working faces)	Using 2 –D Electronic Height Gauge Resolution 0.1 microns, Granite Square and surface plate by Comparison Method	Up to 500 mm	6.9 µm
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (Transmission Error) - L.C.: 0.001 mm	Using Dial calibration Tester by direct Method	0 to 3 mm	4.1 µm
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Box Angle Plate (Flatness of working face)	Using screw jacks, Surface plate, Dial Indicator, Holding stand by Comparison Method	Up to 500 mm	9.0 µm
20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Box Angle Plate (Parallelism of opposite Faces)	Using Surface plate, Dial Indicator with holding arrangement by Comparison Method	Up to 500 mm	8.7 µm
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Box Angle Plate (Squareness of adjacent faces)	Using Surface Plate, Slip gauge set, Granite Square by Comparison Method	Up to 500 mm	5.9 µm

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 5 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Meter / Gauge - L.C.: 0.0001 mm	Using Master Thickness Foils by Comparison Method	12 µm to 1.5 mm	1.15 µm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Sets (Error in Center Head)	Using Profile Projector by Comparison Method	0° to 180°	1.23 Minute
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Sets (Error in Protractor reading) - L.C.: 1°	Using Profile Projector by Comparison Method	0° to 180°	34.7 Minute
25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Sets (Error in Square Head)	Using Profile Projector by Comparison Method	0° to 180°	1.23 Minute
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness)	Using Electronic Level with Grid Calculation by Direct Method	300 mm X 300 mm	3.76 µm

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 6 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Master	Using Universal Measuring Machine (ULM) by direct method	Up to 100 mm	2.9 µm
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Squares (Squareness)	Using Gauge Blocks, Surface Plate and Granite Square by Comparison method	Up to 600 mm	8.2 µm
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Masters (Groove Depth)	Using Surface roughness Tester By Comparison Method	Up to 10 µm	0.93 µm
30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Masters (Step Height)	Using Surface roughness Tester by Comparison Method	Up to 10 µm	0.93 µm
31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micro Checker - L.C.: 0.001 mm	Using surface Plate, Slip gauge Blocks, Long Slip Gauge set and electronic Comparator by Comparison Method	Up to 1000 mm	3.5 µm

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 7 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer - L.C.: 0.001 mm	Using Surface Plate, Slip Gauge Blocks and Long Slip Gauge Blocks By Comparison Method	Up to 100 mm	2.7 µm
33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer - L.C.: 0.001 mm	Using Surface Plate, Slip Gauge Blocks and Long Slip Gauge Blocks By Comparison Method	Up to 300 mm	2.6 µm
34	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator (Lever Type) - L.C.: 0.001 mm	Using Dial calibration Tester by Comparison Method	Up to 2 mm	1.68 µm
35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge - L.C.: 0.001 mm	Using Gauge Block sets by Comparison Method	0 to 10 mm	2.4 µm
36	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge - L.C.: 0.001 mm	Using Gauge Block Set by Comparison Method	0 to 25 mm	0.5 µm

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 8 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
37	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Level (Error in level reading) - L.C.: 0.001 µm/m	Using Robust Tilting table with Electronic Probe by Comparison Method	+/- 10 mm/m	3 µm/m
38	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Probe - L.C.: 0.0001 mm	Using Slip Gauge Blocks and holding accessories by Comparison Method	Up to 25 mm	0.47 µm
39	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Probe - L.C.: 0.001 mm	Using Slip Gauge Blocks and holding accessories by Comparison Method	Up to 100 mm	2.2 µm
40	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Probe - L.C.: 0.01 µm	Using Slip Gauge Blocks and holding accessories by Comparison Method	Up to 0.2 mm	0.4 µm
41	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer’s Parallel (Equality of Pair)	Using Surface Plate, Dial Indicator.by Comparison Method	Up to 300 mm	2.2 µm

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 9 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
42	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Parallel (Parallelism)	Using Surface Plate, Dial Indicator.by Comparison Method	Up to 300 mm	5.0 µm
43	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Parallel (Thickness and width variation)	Using Surface Plate, Dial Indicator, Gauge Block by Comparison Method	Up to 300 mm	6.19 µm
44	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Square / Tri Square / Right Angle (Flatness of Block Edge / Working Faces of Stock)	Using Surface Plate, Dial Indicator, Granite Square and Gauge Block by Comparison Method	Up to 500 mm	4.9 µm
45	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Square / Tri Square / Right Angle (Parallelism of Blade edge)	Using Surface Plate, Dial Indicator.by Comparison Method	Up to 500 mm	4.5 µm
46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Square / Tri Square / Right Angle (Squareness of External Square, Squareness of Internal Square)	Using Surface Plate, Granite Square and Gauge Block by Comparison Method	Up to 500 mm	5.7 µm

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 10 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

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47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Flatness of Anvils) - L.C.: 0.001 mm	Using Gauge Block set, Long Slip Blocks, Optical Flats by Comparison Method	Up to 8 mm	0.6 µm
48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Parallelism of Anvils) - L.C.: 0.001 mm	Using Optical Flats, Optical Parallels by Comparison Method	Up to 1000 mm	0.6 µm
49	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Screw Error) - L.C.: 0.001 mm	Using Gauge Block set, Long Slip Blocks, Optical Flats by Comparison Method	Up to 100 mm	1.0 µm
50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Screw Error) - L.C.: 0.001 mm	Using Gauge Block set, Long Slip Blocks Comparison Method	Up to 1000 mm	8.3 µm
51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Screw Error) - L.C.: 0.001 mm	Using Gauge Block set, Long Slip Blocks, Optical Flats by Comparison Method	Up to 200 mm	2.0 µm

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 11 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Screw Error) - L.C.: 0.001 mm	Using Gauge Block set, Long Slip Blocks by Comparison Method	Up to 500 mm	4.4 µm
53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Universal Length Measuring Machine by direct Method	0.01 mm to 2 mm	0.85 µm
54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Form Gauge (Angle)	Using Profile Projector by direct method	Up to 180°	1.1 Minute
55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Form Gauge (Linear)	Using Profile Projector by Comparison Method	Up to 200 mm	2.9 µm
56	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Form Gauge (Radius)	Using Profile Projector by Comparison Method	Up to 200 mm	5.0 µm

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 12 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
57	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Granite Square (Flatness)	Using Surface Plate, and Dial Indicator with height gauge as a holding device By Comparison Method	upto 500 mm	4.4 µm
58	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Granite Square (Squareness of adjacent faces)	Using Surface Plate, Cylindrical Square and Dial Indicator with height gauge as a holding device By Comparison Method	Up to 500 mm	6.8 µm
59	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inclinometer / Clinometer	Using Surface plate, Sine Bar, Gauge Blocks and Electronic. By Comparison Method	0° to 45°	2.8 Minute
60	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Indicator / Dial Indicator (Plunger Type) - L.C.: 0.001 mm	Using Dial Calibration tester By Comparison Method	Up to 25 mm	1.7 µm
61	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Indicator / Dial Indicator (Plunger Type) - L.C.: 0.001 mm	By using Dial Calibration tester by Comparison Method	Up to 50 mm	2.9 µm

SCOPE OF ACCREDITATION

Laboratory Name :	MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-4462	**Page No**	13 of 62
Validity	27/06/2025 to 26/06/2029	**Last Amended on**	-

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
62	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Dial Caliper / Caliper Gauge - L.C.: 0.001 mm	Using Gauge Blocks, Long Slip Gauge Blocks and accessories by Comparison Method	5 mm to 300 mm	3.5 µm
63	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer / Stick Micrometer - L.C.: 0.01 mm	Using Gauge Block set, Long Gauge Blocks and Gauge Blocks holding accessories by Comparison Method	50 mm to 300 mm	6.1 µm
64	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale & Tape Calibration Unit	Using Gauge Block Set, Long Gauge Block Set by Comparison Method	Up to 1000 mm	7.9 µm
65	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape / Steel Tape, Woven metallic & glass fiber tape - L.C.: 0.5 mm	Using Measuring Scale and Tape Calibration Unit with magnifying tension adjustment facility by Comparison Method	Up to 50 m	144.7 x sqrt (L) µm, Where L in meter

SCOPE OF ACCREDITATION

Laboratory Name :	MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-4462	**Page No**	14 of 62
Validity	27/06/2025 to 26/06/2029	**Last Amended on**	-

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
66	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Metric / Steel Scales / Line Standard - L.C.: 0.5 mm	Using Measuring Scale and Tape Calibration Unit with magnifying tension adjustment facility by Comparison Method	Up to 1000 mm	145.3 µm
67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge Diameter at Four Positions / Air Plug Gauge	Using Gauge Block Set and Electronic Comparator by Direct Method	1 mm to 100 mm	2.0 µm
68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge / Air Ring Gauge	Using ULM by Direct Method	15 mm to 100 mm	3.0 µm
69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Proximity Sensor (Length)	Using Length Bar and Gauge Block by Comparison Method	0 to 1000 mm	326.7 µm
70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge / Dial Snap Gauge, Go / NOGO Gap Gauge	Using Gauge Block Set.by Comparison Method	2 mm to 100 mm	1.0 µm

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Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 15 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit Level / Frame Level (Bubble Accuracy) - L.C.: 0.02 mm / m	Using Spirit Level Calibrator/ Set up (Tilting Table Setup 1 meter Long) by Comparison Method	+/- 0.200 mm/m	34.2 µm/m
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Stage Micrometer - L.C.: 1 µm	Using Upright Microscope with Filar Micrometer at Magnification 100x and Video Measurement System by Comparison Method	Up to 1 mm	1.2 µm
73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Parallelism of working face)	Using Slip Gauge Set, Surface Plate, Dial Indicator Comparison Method	Up to 200 mm	1.2 µm
74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Straightness of working face)	Using Slip Gauge Set, Surface Plate, Dial Indicator Comparison Method	1000 mm X 200 mm	7.9 µm

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 16 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Flatness deviation)	Electronic Level and Grid Calculation method.by Direct Method	3000 mm x 3000 mm	0.7 x Sqrt(L+W/150) µm (Where L & W in m)
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Profiler / Contour Profiler (Angle)	Using Radius Standard, Master Contour profile, Gauge Block and Optical Flat by Comparison Method	Up to 90°	14.4 Second
77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Profiler/ Contour Profiler (Length)	Using Radius Standard, Master Contour profile, Gauge Block and Optical Flat by Comparison Method	Up to 100 mm	0.92 µm
78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Profiler/ Contour Profiler (Length)	Using Radius Standard, Master Contour profile, Gauge Block and Optical Flat by Comparison Method	Up to 6 mm	2.0 µm
79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Profiler/ Contour Profiler (Radius error in Master)	Using Radius Standard, Master Contour profile, Gauge Block and Optical Flat by Comparison Method	Up to 1.5 mm	3.2 µm

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 17 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Profiler/ Contour Profiler (Radius error in Master)	Using Radius Standard, Master Contour profile, Gauge Block and Optical Flat by Comparison Method	Up to 100 mm	4.9 µm
81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Roughness Master / Specimen (Ra)	Using Surface Roughness Tester by Comparison Method	Up to 10 µm	0.04 µm
82	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Roughness Master / Specimen (Rz)	Using Surface Roughness Tester by Comparison Method	Up to 1.46 µm	0.08 µm
83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Roughness Master / Specimen {Ry, (Rmax)}	Using Surface Roughness Tester by Comparison Method	Up to 9.3 µm	0.08 µm
84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Roughness Tester/ Surface Texture Measuring Instrument	Using Zeiss Three Roughness Reference Specimen, Optical Flat, Step Master by Comparison Method	Up to 400 µm	0.03 µm

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 18 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
85	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plug Gauge (Roundness)	Using Sine Centre, Surface Plate, Gauge Block Set and Electronic probe by Comparison Method	Up to 100 mm (Taper Length)	1.4 µm
86	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plug Gauge - Straightness of Taper	Using Sine Centre, Surface Plate, Gauge Block Set and Electronic probe by Comparison Method	Up to 100 mm	1.4 µm
87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plug Gauge Half Taper Angle	Using Sine Center, Surface Plate, Gauge Block, Electronic Probe L.C.0.1 µm by Comparison Method	Up to 100 mm	15 Second of arc
88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale	Using Profile Projector by Comparison Method	Up to 15 mm	2.6 µm
89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves (Aperture Size)	Using Profile Projector by Comparison Method	0.032 mm to 10 mm	3.9 µm

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 19 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Vernier Caliper by Comparison Method	10 mm to 150 mm	10 µm
91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Foils	Using Electronic Probe with DRO, Surface Plate & Gauge Block set. By Comparison Method:	0.01 mm to 2 mm	1.1 µm
92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Flank Angle)	Using Profile Projector by Comparison Method	Up to 60°	9.9 Minute
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Pitch)	Using Profile Projector by Comparison Method	Up to 6.0 mm	3.0 µm
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three Point Micrometer L.C.: 0.001 mm	Using Master Ring Set by Comparison Method	5 mm to 100 mm	3.07 µm

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 20 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three Wire Set / Thread Measuring - Cylinder Diameter	Using ULM by Comparison Method	Up to 6 mm	2.70 µm
96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge	Using Gauge Block Set, Long Gauge Block Set by Comparison Method	Up to 200 mm	8.3 µm
97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Universal Length Measuring Machine L.C.: 0.0001 mm	Using Gauge Block Set, Long Gauge Block, Optical Flat by Comparison Method	Up to 300 mm	2.66 µm
98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block - Matching Tolerance (Height / V Axis)	Using Dial Test indicator, Test Mandrel, Surface Plate by Direct Method	Upto 200 mm	4.1 µm
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block - Parallelism(Top & Side Face)	Using Surface Plate, Dial Indicator by Direct Method:	Upto 200 mm	4.0 µm

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 21 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block - Squareness of Working Faces	Using Granite Square, Surface Plate, Gauge Block by Direct Method:	Up to 200 mm	5.9 µm
101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block - Symmetry	Using Surface Plate, Mandrel, Dial Indicator by Direct Method	Up to 200 mm	4.0 µm
102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper / Dial Caliper - L.C.: 0.01 mm	Using Gauge Block Set, Long Gauge Block, By Comparison Method	Up to 1000 mm	16.6 µm
103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper / Dial Caliper - L.C.: 0.01 mm	Using Gauge Block Set, Caliper Checker, Long Gauge Block. By Comparison Method:	Up to 300 mm	10.24 µm
104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper / Dial Caliper - L.C.: 0.01 mm	Using Caliper Checker, Surface Plate By Comparison Method:	Up to 600 mm	10.82 µm

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 22 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper / Dial Caliper L.C.: 0.02 mm	Gauge Block Set, Long Gauge Block, By Comparison Method	Up to 1000 mm	19.39 µm
106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Depth Gauge/Depth Gauge L.C.: 0.01 mm	Using Gauge Block Sets, Long Gauge Block, Caliper Checker & surface plate by Comparison Method	Up to 300 mm	11.0 µm
107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Depth Gauge/Depth Gauge L.C.: 0.01 mm	Using Gauge Block Sets, Long Gauge Block, Caliper Checker & surface plate by Comparison Method	Up to 600 mm	10.72 µm
108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Depth Gauge/Depth Gauge L.C.: 0.02 mm	Using Gauge Block Sets, Long Gauge Block, Caliper Checker & surface plate by Comparison Method	Up to 300 mm	12.9 µm
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Height Gauge / Electronic Height Gauge L.C.: 0.01 mm	Using Caliper Checker & Surface Plate by Comparison Method	Up to 600 mm	8.71 µm

SCOPE OF ACCREDITATION

Laboratory Name :	MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	CC-4462
Validity	27/06/2025 to 26/06/2029

Last Amended on -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Height Gauge / Height Gauge Electronic L.C.: 0.01 mm	Using Gauge Block set, Long Gauge Block & Surface Plate by Comparison Method	Up to 1000 mm	10.53 µm
111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Height Gauge / Height Gauge Electronic L.C.: 0.01 mm	Using Caliper Checker & Surface Plate by Comparison Method	Up to 300 mm	4.41 µm
112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Height Gauge / Height Gauge Electronic L.C.: 0.01 mm	Using Caliper Checker & Surface Plate by Comparison Method	Up to 600 mm	11.69 µm
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Height Gauge / Height Gauge Electronic L.C.: 0.02 mm	Using Block set, Long Gauge Block & Surface Plate by Comparison Method	Up to 1000 mm	10.53 µm
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Height Gauge / Height Gauge Electronic (Parallelism of scriber to base) - L.C.: 0.01 mm	Using Block set, Long Gauge Block & Surface Plate by Comparison Method	Up to 1000 mm	4.30 µm

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 24 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vicker Indenter Axis Angle	Using VMM, by direct method	Up to 90 °	1.2 min of arc
116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vickers Indenter (Included Angle)	Using Vision Measuring Machine By direct method	0° to 136°	3.0 minute of arc
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vision Inspection System / Universal Measuring Microscope (Angular)	Using Angle Graticule by comparison Method	0° to 360°	97 Second
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vision Inspection System/ Universal Measuring Microscope (Linear)	Using Vision Calibration Gauge, Glass Scale, Gauge Block Set Using Angle Graticule (Protractor)/ Angle Gauges	400 mm X 400 mm X 100 mm	3.82 µm
119	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Height Master (Measuring Error) - L.C.: 0.0001 mm	Using Gauge Block set, Long Gauge Block set & Surface Plate by Comparison Method	Up to 1000 mm	1.8 µm

SCOPE OF ACCREDITATION

Laboratory Name :	MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-4462	**Page No**	25 of 62
Validity	27/06/2025 to 26/06/2029	**Last Amended on**	-

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
120	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Height Master (Squareness of movement to the base) - L.C.:0.0001 mm	Using Granite Square and Surface Plate by Comparison Method	Up to 1000 mm	9.9 µm
121	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker / Step Gauge / Check Master Pitch Block Accuracy (Length)	Using Gauge Blocks, Long Slip Gauge Blocks, Surface Plate and Electronic comparator by Comparison Method	Up to 1000 mm	11.0 µm
122	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker / Step Gauge / Check Master Pitch Block Accuracy (Length)	Using Gauge Blocks, Long Slip Gauge Blocks, Surface Plate and Electronic comparator by Comparison Method	Up to 600 mm	5.12 µm
123	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester (Drum accuracy) - L.C.:. 0.0001 mm	Using Gauge Blocks and Electronic Comparator by Comparison Method	Up to 25 mm	2.35 µm
124	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester (Drum accuracy) - L.C.:. 0.0001 mm	Using Gauge Blocks and Electronic Comparator by Comparison Method	Up to 50 mm	2.8 µm
125	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Accessories - Flatness	Using Electronic Comparator, Surface plate, Gauge Block & Optical Flat by Comparison Method:	Up to 300 mm	3.6 µm

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 26 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
126	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Accessories - Parallelism	Using Gauge Block by Comparison Method:	Up to 300 mm	3.6 µm
127	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Set - Grade-1 Steel/Carbide	Using Gauge Block K grade Slip Gauge Set & Slip Gauge Comparator by Comparison Method:	25 mm to 50 mm	0.36 µm
128	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Set - Grade-1 Steel/Carbide	Using Gauge Block Comparator & Gauge Block K Grade by Comparison Method	Up to 25 mm	0.20 µm
129	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Set - Grade-2 Steel/Carbide	Using Gauge Block K grade Slip Gauge Set & Slip Gauge Comparator by Comparison Method:	50 mm to 100 mm	0.7 µm
130	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Glass Scale	Using Glass Scale Comparator (including inbuilt Master Glass Scale & Filar Eyepiece Scale and Drum) As per JIS B 7541 by Comparison Method:	Up to 200 mm	3.8 µm

SCOPE OF ACCREDITATION

Laboratory Name :	MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	CC-4462
Page No	27 of 62
Validity	27/06/2025 to 26/06/2029
Last Amended on	-

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
131	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bar / Long Guage Blocks	Using Long Slip Gauge Block and Electronic Comparator by comparison method	25 mm to 400 mm	4.8 µm
132	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bar / Long Guage Blocks	Using Long Slip Gauge Block and Electronic Comparator by comparison method	400 mm to 625 mm	5.5 µm
133	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Light Microscopes and Reticles - Eyepiece Micrometer Scale	Using Linear Glass Scales, Filar Micrometer. by Comparison Method	Up to 25 mm	1.4 µm
134	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Light Microscopes and Reticles Filar Eyepiece Scale and Drum	Using Linear Glass Scales, Filar Micrometer. by Comparison Method:	Up to 10 mm	1.4 µm
135	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Light Microscopes and Reticles Grain Size Comparison Reticle	Using Linear Glass Scales, Filar Micrometer. by Comparison Method:	Up to 25 mm	1.4 µm
136	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Light Microscopes and Reticles Magnification of Eyepiece Image	Using Linear Glass Scales, Filar Micrometer. by Comparison	Up to 2000 x	0.6 %
137	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Light Microscopes and Reticles Ocular Micrometer	Using Linear Glass Scales, Filar Micrometer. by Comparison Method:	Up to 20 mm	2.3 µm

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 28 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
138	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Light Microscopes and Reticles Photomicrography Magnification	Using Linear Glass Scales, Filar Micrometer by Comparison Method:	Up to 2000 X	0.6 %
139	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Light Microscopes and Reticles Projection Screen / Video Systems Magnification	Using Linear Glass Scales, Filar Micrometer. by Comparison Method:	Up to 2000 X	0.6 %
140	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Micrometer Head (Deviation of Traverse) L.C.: 0.01 mm	Using Electronic Probe with DRO and Gauge Block set by Comparison Method	Up to 50 mm	7.3 µm
141	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Optical Flat Type A (Flatness)	Using Monochromatic Light Source, Master Flat, Electronic Comparator, Gauge Block by Comparison Method	upto 100 mm	3.95 µm
142	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Angle)	Using Angle Graticule.by Comparison Method	0° to 360°	64.3 Second
143	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Linear)	Using Glass Scale by Comparison Method:	0 to 360 mm	5.0 µm

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 29 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
144	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Magnification)	Using Glass Scale, angle Graticule, Slip Gauge & Vernier Caliper by Comparison Method:	Up to 100 X	0.1 %
145	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Radius Gauge (Concave and Convex Profiles), Radius Fillet Gauge	Using Profile Projector by Comparison Method	0.1 mm to 100 mm	5.0 µm
146	MECHANICAL-DUROMETER	Verification & Calibration Of Shore A & D Hardness Tester / Durometer	Using Shore Hardness Calibrator as per ASTM D 2240 -15:2021:	0 Shore D to 100 Shore D	0.74 Shore D
147	MECHANICAL-DUROMETER	Verification & Calibration Of Shore A & D Hardness Tester / Durometer	Using Shore Hardness Calibrator as per ASTM D 2240 -15:2021	0 Shore A to 100 Shore A	1.3 Shore A
148	MECHANICAL-HARDNESS TESTING MACHINES	BALL (Diameter) (Rockwell, Brinell-Steel/ Carbide)	Using Micrometer by Direct Method as per IS: 1500 Part 2:2021, IS:1586 Part 2: 2025	(0.625, 2.5, 5, 10) mm	1.8 µm
149	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Blocks as per IS :1500 -2021 Part - 2 by Indirect Verification	HBW 10/3000	1.6 %

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 30 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
150	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Blocks as per IS : 1500 -2021 Part - 2 by Indirect Verification	HBW 2.5/187.5	3.53 %
151	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Blocks as per IS : 1500 -2021 Part - 2 by Indirect Verification	HBW 5/750	1.3 %
152	MECHANICAL-HARDNESS TESTING MACHINES	Diamond Cone Indenter - Angle	Using Profile Projector by Direct Method as per IS:1586 Part - 2 :2025	120 +/-0.35°	0.37º
153	MECHANICAL-HARDNESS TESTING MACHINES	Diamond Cone Indenter - Tip Radius	Using Profile Projector by Direct Method as per IS:1586 Part-2 :2025	0.2+/-0.015 mm	20 µm
154	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers/ Vickers Hardness Testing Machine	Using Indirect Verification and Standard Blocks as per IS: 1501 Part-2 :2020 by Indirect Verification:	HV 0.2	3.3 %

SCOPE OF ACCREDITATION

Laboratory Name :	MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-4462	**Page No**	31 of 62
Validity	27/06/2025 to 26/06/2029	**Last Amended on**	-

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
155	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers/ Vickers Hardness Testing Machine	Using Indirect Verification and Standard Blocks as per IS: 1501 Part-2 :2020 by Indirect Verification	HV 0.3	3.0 %
156	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers/ Vickers Hardness Testing Machine	Using Indirect Verification and Standard Blocks as per IS:1501 Part-2 :2020 by Indirect Verification	HV 1	2.9 %
157	MECHANICAL-HARDNESS TESTING MACHINES	Micro- Vickers Hardness Testing Machine	Using Standard Hardness Testing Blocks as per IS 1501 -2: 2020	HV 0.1	3.5 %
158	MECHANICAL-HARDNESS TESTING MACHINES	Micro- Vickers Hardness Testing Machine	Using Standard Hardness Testing Blocks as per IS 1501 -2: 2020	HV 0.5	3.2 %
159	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Indirect Verification & Standard Blocks as per IS : 1586 (Part -2) 2025 by Indirect Verification	HR 15 N	0.73 HR 15 N

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 32 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
160	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Indirect Verification & Standard Blocks as per IS : 1586 (Part -2) 2025 by Indirect Verification	HRA	0.54 HRA
161	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Indirect Verification & Standard Blocks as per IS : 1586 (Part -2) 2025 by Indirect Verification	HRBW	0.8 HRBW
162	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Indirect Verification & Standard Blocks as per IS : 1586 (Part -2) 2025 by Indirect Verification	HRC	0.71 HRC
163	MECHANICAL-HARDNESS TESTING MACHINES	Verification of test force for Rockwell & Rockell Superficial ,Brinell , Vickers & Micro Vickers Hardness tester	Using Load Cells as per IS 1586 -2025 IS 1500 -2021 & IS 1501 -2020	0.25 N to 29421 N	0.68 %
164	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Testing Cycle of Hardness Testing Machines.	Using Stop Watch as per IS 1586 -2025 IS 1500 -2021 & IS 1501 -2020	0 Sec to 180 Sec	0.8 Sec

SCOPE OF ACCREDITATION

Laboratory Name :	MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	CC-4462
Page No	33 of 62
Validity	27/06/2025 to 26/06/2029
Last Amended on	-

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
165	MECHANICAL-HARDNESS TESTING MACHINES	Vicker / Microvickers Indentor Calibration Angle between opposite face	Using Profile Projector (L.C.: 0.1º) by direct method: as per IS 1501: Part 2 :2020	C.C. 136+/-0.5°	0.39°
166	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Testing Blocks as per Ref Std: IS 1501 -2: 2020	HV 10	2.8 %
167	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Testing Blocks as per Ref Std: IS 1501 -2: 2020	HV 20	2.1 %
168	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Testing Blocks as per Ref Std: IS 1501 -2: 2020	HV 30	2.6 %
169	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Testing Blocks as per Ref Std: IS 1501 -2: 2020	HV 5	2.0 %
170	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Testing Blocks as per Ref Std: IS 1501 -2: 2020	HV 50	2.7 %

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 34 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
171	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push-Pull Gauge	Using Newtonian Weights direct method	0.2 N to 10 N	1.20 %
172	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push-Pull Gauge	Using Newtonian Weights by direct method	10 N to 1000 N	0.29 %
173	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push-Pull Gauge	Using Newtonian Weights by direct method	1000 N to 2000 N	0.29 %
174	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Medium: Analog/Digital Pressure Gauge, Pressure Transmitter, Transducer, Pressure Indicator, Pressure Switch	Using Hydraulic Pressure Gauge, Multimeter & Comparison Test Pump by Comparison Method as per DKD R-6-1	0 to 300 bar	0.60 bar
175	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Medium: Analog/Digital Pressure Gauge, Pressure Transmitter, Transducer, Pressure Indicator, Pressure Switch	Using Hydraulic Pressure Gauge, Multimeter & Comparison Test Pump by Comparison Method as per DKD R-6-1	300 bar to 800 bar	1.28 bar

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 35 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
176	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Medium: Analog/ Digital Pressure Gauge, Pressure Transmitter, Transducer, Pressure Indicator, Pressure Switch	Using Pneumatic Pressure Gauge, Multimeter & Comparison Test Pump by Comparison Method as per DKD R-6-1	(-) 0.90 bar to 0	0.011 bar
177	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Medium: Analog/Digital Pressure Gauge, Pressure Transmitter, Transducer, Pressure Indicator, Pressure Switch	Using Pneumatic Pressure Gauge, Multimeter & Comparison Test Pump by Comparison Method as per DKD R -6-1	0 to 35 bar	0.34 bar
178	MECHANICAL-TORQUE GENERATING DEVICES	Torque Screw Driver (Type-I) (Class-A,B,C,D,E)	Using Digital Torque Calibration System with Torque Transducers by Comparision Method, As per ISO 6789-1: 2017 and ISO 6789-2: 2017	0.2 Nm to 2 Nm	1.6 %

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 36 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
179	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench / Torque Screw Driver Type I (Class-A,B,C,D,E)	Using Digital Torque Calibration System with Torque Transducers by Comparision Method, As per ISO6789-1: 2017 and ISO 6789-2: 2017	5 Nm to 1000 Nm	1.3 %
180	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench / Torque Screw Driver Type II (Class-A,B,C,D,E,F,G)	Using Digital Torque Calibration System with Torque Transducers By Comparison Method: As per ISO 6789-1: 2017 and ISO 6789-2: 2017	5 Nm to 1000 Nm	1.3 %
181	MECHANICAL-TORQUE MEASURING DEVICES	Torque Tester/ Torque meter,Torque Sensor / Transducer with Indicator in Torque Units only	Using Standard Newtonian Weight and Beam in Torque calibration Rig	10 Nm to 2000 Nm	0.5%
182	MECHANICAL-TORQUE MEASURING DEVICES	Torque Tester/ Torque meter,Torque Sensor / Transducer with Indicator in Torque Units only	Using Standard Newtonian Weight and Beam in Torque calibration Rig	2 Nm to 10 Nm	0.31 %

SCOPE OF ACCREDITATION

Laboratory Name :	MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-4462	**Page No**	37 of 62
Validity	27/06/2025 to 26/06/2029	**Last Amended on**	-

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
183	MECHANICAL-VOLUME	Burette / Pipette / Volumetric Flask / Measuring Cylinder / Beaker / Dispenser /Pycnometer/ Glass Wares	Using Standard Weights & Digital Weighing Balance with readability 0.1 mg) & Distilled Water, As Per ISO 4787:2021	0.1 ml to 1 ml	1.7 µl
184	MECHANICAL-VOLUME	Burette / Pipette / Volumetric Flask / Measuring Cylinder / Beaker / Dispenser /Pycnometer/ Glass Wares	Using Standard Weights & Digital Weighing Balance with readability 0.1 mg) & Distilled Water, As Per ISO 4787:2021	1 ml to 10 ml	0.9 µl
185	MECHANICAL-VOLUME	Burette / Pipette / Volumetric Flask / Measuring Cylinder / Beaker / Dispenser /Pycnometer/ Glass Wares	Using Standard Weights & Digital Weighing Balance with readability 0.1 mg) & Distilled Water, As Per ISO 4787:2021	10 ml to 50 ml	6.0 µl
186	MECHANICAL-VOLUME	Burette / Pipette / Volumetric Flask / Measuring Cylinder / Beaker / Dispenser / Pycnometer / Glass Wares	Using Standard Weights & Digital Weighing Balance with readability 0.1 g) & Distilled Water, As Per ISO 4787:2021	50 ml to 100 ml	8.0 µl

SCOPE OF ACCREDITATION

Laboratory Name :	MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	CC-4462
Page No	38 of 62
Validity	27/06/2025 to 26/06/2029
Last Amended on	-

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
187	MECHANICAL-VOLUME	Volume Micropipettes/Glass Pipettes	Using Standard Weights & Digital Weighing Balance with readability 0.1 mg) & Distilled Water, As Per ISO 8655-6:2022	100 µl to 1000 µl	4.03 µl
188	MECHANICAL-VOLUME	Volume Micropipettes/Glass Pipettes	Using Standard Weights & Digital Weighing Balance with readability 0.1 mg) & Distilled Water, As Per ISO 8655-6:2022	1000 µl to 5000 µl	4.03 µl
189	MECHANICAL-VOLUME	Volume Micropipettes/Glass Pipettes	Using Standard Weights & Digital Weighing Balance with readability 0.1 mg) & Distilled Water, As Per ISO 8655-6:2022	5000 µl to 10000 µl	7.12 µl
190	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances (L.C.: 0.01 g) class II and Coarser	Using Standard E2, F2 & M1 Class weights as per OIML R – 76-1	0 to 5 kg	22 mg
191	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances (L.C.: 0.1 mg) class I and Coarser	Using Standard E2 Class weights as per OIML R – 76-1	0 to 200 g	4.6 mg

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 39 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
192	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances (L.C.: 1 g) class III & Coarser	Using Standard F2 Class weights as per OIML R - 76-1	0 to 30 kg	5.9 g
193	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances (L.C.: 20 g) class IV & Coarser	Using Standard F2 & M1 Class weights as per OIML R – 76-1	0 to 200 kg	17.4 g
194	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances (L.C.: 5 g) class IV and Coarser	Using Standard F2 Class weights as per OIML R – 76-1	0 to 100 kg	4.8 g
195	MECHANICAL-WEIGHTS	M2 Class & Coarser	Using Standard E2 Class Weight, Precision Balance (Readability 0.1 mg) by Substitution Method as per OIML R 111-1	1 g	0.8 mg
196	MECHANICAL-WEIGHTS	M2 Class & Coarser	Using Standard E2 Class Weight, Precision Balance (Readability 0.1 mg) by Substitution Method as per OIML R 111-1	10 g	0.8 mg

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 40 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
197	MECHANICAL-WEIGHTS	M2 Class & Coarser	Using Standard E2 Class Weight, Precision Balance (Readability 0.1 mg) by Substitution Method as per OIML R 111-1	100 g	4 mg
198	MECHANICAL-WEIGHTS	M2 Class & Coarser	Using Standard E2 Class Weight, Precision Balance (Readability 0.1 mg) by Substitution Method as per OIML R 111-1	2 g	0.8 mg
199	MECHANICAL-WEIGHTS	M2 Class & Coarser	Using Standard E2 Class Weight, Precision Balance (Readability 0.1 mg) by Substitution Method as per OIML R 111-1	20 g	0.5 mg
200	MECHANICAL-WEIGHTS	M2 Class & Coarser	Using Standard E2 Class Weight, Precision Balance (Readability 0.1 mg) by Substitution Method as per OIML R 111-1	5 g	0.8 mg

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 41 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
201	MECHANICAL-WEIGHTS	M2 Class & Coarser	Using Standard E2 Class Weight, Precision Balance (Readability 0.1 mg) by Substitution Method as per OIML R 111-1	50 g	4.5 mg
202	MECHANICAL-WEIGHTS	M2 Class and Coarser	Using Standard F2 Class Weight, Precision Balance (Readability 10 mg) by Substitution Method as per OIML R 111-1	1 kg	74 mg
203	MECHANICAL-WEIGHTS	M2 Class and Coarser	Using Standard F2 Class Weight, Precision Balance (Readability 0.1 g) by Substitution Method as per OIML R 111-1	10 kg	1.45 g
204	MECHANICAL-WEIGHTS	M2 Class and Coarser	Using Standard E2 Class Weight, Precision Balance (Readability 0.1 mg) by Substitution Method as per OIML R 111-1	100 mg	0.2 mg

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 42 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
205	MECHANICAL-WEIGHTS	M2 Class and Coarser	Using Standard F2 Class Weight, Precision Balance (Readability 10 mg) by Substitution Method as per OIML R 111-1	2 kg	74 mg
206	MECHANICAL-WEIGHTS	M2 Class and Coarser	Using Standard F2 Class Weight, Precision Balance (Readability 0.1 g) by Substitution Method as per OIML R 111-1	20 kg	1.45 g
207	MECHANICAL-WEIGHTS	M2 Class and Coarser	Using Standard E2 Class Weight, Precision Balance (Readability 0.1 mg) by Substitution Method as per OIML R 111-1	200 g	2 mg
208	MECHANICAL-WEIGHTS	M2 Class and Coarser	Using Standard E2 Class Weight, Precision Balance (Readability 0.1 mg) by Substitution Method as per OIML R 111-1	200 mg	0.2 mg

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 43 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
209	MECHANICAL-WEIGHTS	M2 Class and Coarser	Using Standard F2 Class Weight, Precision Balance (Readability 0.1 g) by Substitution Method as per OIML R 111-1	5 kg	1.45 g
210	MECHANICAL-WEIGHTS	M2 Class and Coarser	Using Standard F2 Class Weight, Precision Balance (Readability 10 mg) by Substitution Method as per OIML R 111-1	500 g	74 mg
211	MECHANICAL-WEIGHTS	M2 Class and Coarser	Using Standard E2 Class Weight, Precision Balance (Readability 0.1 mg) by Substitution Method as per OIML R 111-1	500 mg	1.1 mg
212	MECHANICAL-WEIGHTS	M3 class and coarser	Using Standard F2 Class Weight, Precision Balance (Readability 1 g) by Substitution Method as per OIML R 111-1	50 kg	5.1 g

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 44 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
213	THERMAL-SPECIFIC HEAT & HUMIDITY	Relative Humidity Indicator with sensor of Environmental Chamber (Multi Position Calibration)	Using RH Indicator with Data Logger & Sensor (minimum 9 sensors) by Comparison Method	40 %RH to 95 % RH @ 25 °C	3.2 % RH
214	THERMAL-SPECIFIC HEAT & HUMIDITY	RH Indicator with RH Probe, Thermo Hygrometer, Data Logger With RH Sensor	Using RH Sensor with Indicator & Humidity Generator by Comparison Method	40 % RH to 95 %RH @25 °C	1.89 %RH
215	THERMAL-SPECIFIC HEAT & HUMIDITY	RH Indicator With RH Probe, Thermo Hygrometer, Data Logger With RH Sensor	Using RH Sensor with Indicator & Humidity Generator by comparison method	10 °C to 50 °C @ 50 % RH	0.70 °C
216	THERMAL-TEMPERATURE	Freezer, Oven, Environment Chamber, Vacuum Oven, Cold Room (Multi Position Calibration)	Using RTD with Data Logger (minimum nine Sensors) by Comparison Method	(-)80 °C to 50 °C	2.4 °C
217	THERMAL-TEMPERATURE	Muffle Furnace, Industrial Furnace, Dry Block Furnace (Multi Position Calibration)	Using N – Type Thermocouple with Data Logger (minimum 9 sensors) by Comparison Method	>250 °C to 1200 °C	4.4 °C

SCOPE OF ACCREDITATION

Laboratory Name :	MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-4462	**Page No**	45 of 62
Validity	27/06/2025 to 26/06/2029	**Last Amended on**	-

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
218	THERMAL-TEMPERATURE	Non-Contact Type Thermometer (Infrared Thermometer/ Digital Pyrometer)	Using Standard Infrared Radiation Pyrometer & Black Body (Emissivity 0.97) Furnace by Comparison Method	>350 °C to 800 °C	5.3 °C
219	THERMAL-TEMPERATURE	Non-Contact Type Thermometer (Infrared Thermometer / Digital Pyrometer)	Using Standard Infrared Radiation Pyrometer & Black Body (Emissivity 0.97) Furnace by Comparison Method	50 °C to 350 °C	5.3 °C
220	THERMAL-TEMPERATURE	Non-Contact Type Thermometer (Infrared Thermometer / Digital Pyrometer)	Using Standard Infrared Radiation Pyrometer & Black Body (Emissivity 0.97) Furnace by Comparison Method	800 °C to 1200 °C	5.3 °C
221	THERMAL-TEMPERATURE	Oven, Environment Chamber, Vacuum Oven (Multi Position Calibration)	Using RTD with Data Logger (Minimum 9 sensors) by Comparison Method	>50 °C to 250 °C	2.8 °C
222	THERMAL-TEMPERATURE	RTD With Indicator/Temperature Controller, Transmitter With Sensor, Data Logger, Temperature Gauge, Liquid –In-Glass Thermometer	Using 4 wire RTD (PT-100) Sensor, 6½ Digital Multimeter & Liquid Temperature Bath by Comparison Method	(-)80 °C to 50 °C	0.20 °C

SCOPE OF ACCREDITATION

Laboratory Name :	MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-4462	**Page No**	46 of 62
Validity	27/06/2025 to 26/06/2029	**Last Amended on**	-

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
223	THERMAL-TEMPERATURE	RTD's with Indicator / Temperature Controller, Transmitter With Sensor, Data Logger, Temperature Gauge	Using 4 wire RTD (PT-100) Sensor, 6 ½ Digital Multimeter & Dry Block Calibrator by Comparison Method	50 °C to 300 °C	1.1 °C
224	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Liquid Bath / Freezer / Dry Block /Furnace / Incubator (Non Medical) / Bod Incubator (Non Medical) / Autoclave Non Medical) / Refrigerator / Oven / Vacuum Oven / Environmental Chamber	Using RTD, and 6 ½ Digital Multimeter (Single Position Calibration) by Comparison Method	(-)80 °C to 200 °C	1.1 °C
225	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Muffle Furnace / Dry Block Furnace (Single position Calibration)	Using S-Type Thermocouple with 6 ½ Digital Mutimeter by Comparison Method	300 °C to 1200 °C	3.9 °C

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 47 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
226	THERMAL-TEMPERATURE	Thermocouples with Indicator / Temperature Controller, Transmitter With Sensor, Data Logger with sensor, Temperature Gauge	Using S type Thermocouple, 6 ½ Digital Multimeter & Dry Block Calibrator by Comparison Method	>650 °C to 1200 °C	4 °C
227	THERMAL-TEMPERATURE	Thermocouples with Indicator / Temperature Controller, Transmitter With Sensor, Data Logger, Temperature Gauge	Using S-TYPE Thermocouple, 6 ½ Digital Multimeter & Dry Block Calibrator by Comparison Method	>300 °C to 650 °C	2.5 °C

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 48 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Site Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate / Precision Angle Plate (Squareness of adjacent Faces)	Using Precision Surface Plate, Slip gauge set, Granite Square by Comparison Method	Up to 500 mm	6.0 µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate / Precision Angle Plate (Flatness of working faces)	Using 3 numbers screw jacks, Surface plate, Dial Indicator resolution 1 micron, Holding stand, by Comparison Method	Up to 500 mm	4.75 µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Co. Axiality)	Using Test mandrel, Dial Indicator with accessories by Comparison Method	0 to 500 mm	9.2 µm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Parallelism)	Using Test mandrel, Dial Indicator with accessories by Comparison Method	0 to 500 mm	8.0 µm

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 49 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Block Square (Parallelism between working faces)	Using Surface plate and Dial Indicator with holding arrangements by Comparison Method	Up to 500 mm	12.8 µm
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Block Square (Squareness between working faces)	Using 2 –D Electronic Height Gauge Resolution 0.1 microns, Granite Square and surface plate by Comparison Method	Up to 500 mm	6.9 µm
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Box Angle Plate (Flatness of working face)	Using screw jacks, Surface plate, Dial Indicator, Holding stand by Comparison Method	Up to 500 mm	9.0 µm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Box Angle Plate (Parallelism of opposite Faces)	Using Surface plate, Dial Indicator with holding arrangement by Comparison Method	Up to 500 mm	8.7 µm
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Box Angle Plate (Squareness of adjacent faces)	Using Surface Plate, Slip gauge set, Granite Square by Comparison Method	Up to 500 mm	5.9 µm

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 50 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness)	Using Electronic Level with Grid Calculation by Direct Method	300 mm X 300 mm	3.76 µm
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Parallel (Equality of Pair)	Using Surface Plate, Dial Indicator.by Comparison Method	Up to 300 mm	2.2 µm
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Parallel (Parallelism)	Using Surface Plate, Dial Indicator.by Comparison Method	Up to 300 mm	5.0 µm
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Parallel (Thickness and width variation)	Using Surface Plate, Dial Indicator, Gauge Block by Comparison Method	Up to 300 mm	6.19 µm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Square / Tri Square / Right Angle (Flatness of Block Edge / Working Faces of Stock)	Using Surface Plate, Dial Indicator, Granite Square and Gauge Block by Comparison Method	Up to 500 mm	4.9 µm

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 51 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Parallelism of working face)	Using Slip Gauge Set, Surface Plate, Dial Indicator Comparison Method	Up to 200 mm	1.2 µm
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Straightness of working face)	Using Slip Gauge Set, Surface Plate, Dial Indicator Comparison Method	1000 mm X 200 mm	7.9 µm
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Flatness deviation)	Electronic Level and Grid Calculation method.by Direct Method	3000 mm x 3000 mm	0.7 x Sqrt(L+W/150) µm (Where L & W in m)
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Profiler / Contour Profiler (Angle)	Using Radius Standard, Master Contour profile, Gauge Block and Optical Flat by Comparison Method	Up to 90°	14.4 Second
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Profiler/ Contour Profiler (Length)	Using Radius Standard, Master Contour profile, Gauge Block and Optical Flat by Comparison Method	Up to 100 mm	0.92 µm

SCOPE OF ACCREDITATION

Laboratory Name :	MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	CC-4462
Page No	52 of 62
Validity	27/06/2025 to 26/06/2029
Last Amended on	-

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Profiler/ Contour Profiler (Length)	Using Radius Standard, Master Contour profile, Gauge Block and Optical Flat by Comparison Method	Up to 6 mm	2.0 µm
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Profiler/ Contour Profiler (Radius error in Master)	Using Radius Standard, Master Contour profile, Gauge Block and Optical Flat by Comparison Method	Up to 1.5 mm	3.2 µm
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Profiler/ Contour Profiler (Radius error in Master)	Using Radius Standard, Master Contour profile, Gauge Block and Optical Flat by Comparison Method	Up to 100 mm	4.9 µm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Roughness Tester/ Surface Texture Measuring Instrument	Using Zeiss Three Roughness Reference Specimen, Optical Flat, Step Master by Comparison Method	Up to 400 µm	0.03 µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Universal Length Measuring Machine L.C.: 0.0001 mm	Using Gauge Block Set, Long Gauge Block, Optical Flat by Comparison Method	Up to 300 mm	2.66 µm

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 53 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Height Gauge / Electronic Height Gauge L.C.: 0.01 mm	Using Caliper Checker & Surface Plate by Comparison Method	Up to 600 mm	8.71 µm
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Height Gauge / Height Gauge Electronic L.C.: 0.01 mm	Using Gauge Block set, Long Gauge Block & Surface Plate by Comparison Method	Up to 1000 mm	10.53 µm
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Height Gauge / Height Gauge Electronic L.C.: 0.01 mm	Using Caliper Checker & Surface Plate by Comparison Method	Up to 300 mm	4.41 µm
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Height Gauge / Height Gauge Electronic L.C.: 0.01 mm	Using Caliper Checker & Surface Plate by Comparison Method	Up to 600 mm	11.69 µm
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Height Gauge / Height Gauge Electronic L.C.: 0.02 mm	Using Block set, Long Gauge Block & Surface Plate by Comparison Method	Up to 1000 mm	10.53 µm

SCOPE OF ACCREDITATION

Laboratory Name :	MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-4462	**Page No**	54 of 62
Validity	27/06/2025 to 26/06/2029	**Last Amended on**	-

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Height Gauge / Height Gauge Electronic (Parallelism of scriber to base) - L.C.: 0.01 mm	Using Block set, Long Gauge Block & Surface Plate by Comparison Method	Up to 1000 mm	4.30 µm
31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vision Inspection System / Universal Measuring Microscope (Angular)	Using Angle Graticule by comparison Method	0° to 360°	97 Second
32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vision Inspection System/ Universal Measuring Microscope (Linear)	Using Vision Calibration Gauge, Glass Scale, Gauge Block Set Using Angle Graticule (Protractor)/ Angle Gauges	400 mm X 400 mm X 100 mm	3.82 µm
33	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Height Master (Measuring Error) - L.C.: 0.0001 mm	Using Gauge Block set, Long Gauge Block set & Surface Plate by Comparison Method	Up to 1000 mm	1.8 µm
34	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Height Master (Squareness of movement to the base) - L.C.:0.0001 mm	Using Granite Square and Surface Plate by Comparison Method	Up to 1000 mm	9.9 µm

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 55 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
35	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Light Microscopes and Reticles - Eyepiece Micrometer Scale	Using Linear Glass Scales, Filar Micrometer. by Comparison Method	Up to 25 mm	1.4 µm
36	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Light Microscopes and Reticles Filar Eyepiece Scale and Drum	Using Linear Glass Scales, Filar Micrometer. by Comparison Method:	Up to 10 mm	1.4 µm
37	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Light Microscopes and Reticles Grain Size Comparison Reticle	Using Linear Glass Scales, Filar Micrometer. by Comparison Method:	Up to 25 mm	1.4 µm
38	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Light Microscopes and Reticles Magnification of Eyepiece Image	Using Linear Glass Scales, Filar Micrometer. by Comparison	Up to 2000 x	0.6 %
39	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Light Microscopes and Reticles Ocular Micrometer	Using Linear Glass Scales, Filar Micrometer. by Comparison Method:	Up to 20 mm	2.3 µm
40	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Light Microscopes and Reticles Photomicrography Magnification	Using Linear Glass Scales, Filar Micrometer by Comparison Method:	Up to 2000 X	0.6 %
41	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Light Microscopes and Reticles Projection Screen / Video Systems Magnification	Using Linear Glass Scales, Filar Micrometer. by Comparison Method:	Up to 2000 X	0.6 %

SCOPE OF ACCREDITATION

Laboratory Name :	MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-4462	**Page No**	56 of 62
Validity	27/06/2025 to 26/06/2029	**Last Amended on**	-

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
42	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Angle)	Using Angle Graticule.by Comparison Method	0° to 360°	64.3 Second
43	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Linear)	Using Glass Scale by Comparison Method:	0 to 360 mm	5.0 µm
44	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Magnification)	Using Glass Scale, angle Graticule, Slip Gauge & Vernier Caliper by Comparison Method:	Up to 100 X	0.1 %
45	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Blocks as per IS :1500 -2021 Part - 2 by Indirect Verification	HBW 10/3000	1.6 %
46	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Blocks as per IS : 1500 -2021 Part - 2 by Indirect Verification	HBW 2.5/187.5	3.53 %
47	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Blocks as per IS : 1500 -2021 Part - 2 by Indirect Verification	HBW 5/750	1.3 %

SCOPE OF ACCREDITATION

Laboratory Name :	MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	CC-4462
Page No	57 of 62
Validity	27/06/2025 to 26/06/2029
Last Amended on	-

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
48	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers/ Vickers Hardness Testing Machine	Using Indirect Verification and Standard Blocks as per IS: 1501 Part-2 :2020 by Indirect Verification:	HV 0.2	3.3 %
49	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers/ Vickers Hardness Testing Machine	Using Indirect Verification and Standard Blocks as per IS: 1501 Part-2 :2020 by Indirect Verification	HV 0.3	3.0 %
50	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers/ Vickers Hardness Testing Machine	Using Indirect Verification and Standard Blocks as per IS:1501 Part-2 :2020 by Indirect Verification	HV 1	2.9 %
51	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Indirect Verification & Standard Blocks as per IS : 1586 (Part -2) 2025 by Indirect Verification	HR 15 N	0.73 HR 15 N
52	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Indirect Verification & Standard Blocks as per IS : 1586 (Part -2) 2025 by Indirect Verification	HRA	0.54 HRA

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 58 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
53	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Indirect Verification & Standard Blocks as per IS : 1586 (Part -2) 2025 by Indirect Verification	HRBW	0.8 HRBW
54	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Indirect Verification & Standard Blocks as per IS : 1586 (Part -2) 2025 by Indirect Verification	HRC	0.71 HRC
55	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Medium: Analog/Digital Pressure Gauge, Pressure Transmitter, Transducer, Pressure Indicator, Pressure Switch	Using Hydraulic Pressure Gauge, Multimeter & Comparison Test Pump by Comparison Method as per DKD R-6-1	0 to 300 bar	0.60 bar
56	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Medium: Analog/Digital Pressure Gauge, Pressure Transmitter, Transducer, Pressure Indicator, Pressure Switch	Using Hydraulic Pressure Gauge, Multimeter & Comparison Test Pump by Comparison Method as per DKD R-6-1	300 bar to 800 bar	1.28 bar

SCOPE OF ACCREDITATION

Laboratory Name :	MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-4462	**Page No**	59 of 62
Validity	27/06/2025 to 26/06/2029	**Last Amended on**	-

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
57	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Medium: Analog/ Digital Pressure Gauge, Pressure Transmitter, Transducer, Pressure Indicator, Pressure Switch	Using Pneumatic Pressure Gauge, Multimeter & Comparison Test Pump by Comparison Method as per DKD R-6-1	(-) 0.90 bar to 0	0.011 bar
58	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Medium: Analog/Digital Pressure Gauge, Pressure Transmitter, Transducer, Pressure Indicator, Pressure Switch	Using Pneumatic Pressure Gauge, Multimeter & Comparison Test Pump by Comparison Method as per DKD R -6-1	0 to 35 bar	0.34 bar
59	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances (L.C.: 0.01 g) class II and Coarser	Using Standard E2, F2 & M1 Class weights as per OIML R – 76-1	0 to 5 kg	22 mg
60	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances (L.C.: 0.1 mg) class I and Coarser	Using Standard E2 Class weights as per OIML R – 76-1	0 to 200 g	4.6 mg
61	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances (L.C.: 1 g) class III & Coarser	Using Standard F2 Class weights as per OIML R - 76-1	0 to 30 kg	5.9 g

SCOPE OF ACCREDITATION

Laboratory Name :	MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	CC-4462
Page No	60 of 62
Validity	27/06/2025 to 26/06/2029
Last Amended on	-

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
62	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances (L.C.: 20 g) class IV & Coarser	Using Standard F2 & M1 Class weights as per OIML R – 76-1	0 to 200 kg	17.4 g
63	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances (L.C.: 5 g) class IV and Coarser	Using Standard F2 Class weights as per OIML R – 76-1	0 to 100 kg	4.8 g
64	THERMAL-SPECIFIC HEAT & HUMIDITY	Relative Humidity Indicator with sensor of Environmental Chamber (Multi Position Calibration)	Using RH Indicator with Data Logger & Sensor (minimum 9 sensors) by Comparison Method	40 %RH to 95 % RH @ 25 °C	3.2 % RH
65	THERMAL-SPECIFIC HEAT & HUMIDITY	RH Indicator with RH Probe, Thermo Hygrometer, Data Logger With RH Sensor	Using RH Sensor with Indicator & Humidity Generator by Comparison Method	40 % RH to 95 %RH @25 °C	1.89 %RH
66	THERMAL-SPECIFIC HEAT & HUMIDITY	RH Indicator With RH Probe, Thermo Hygrometer, Data Logger With RH Sensor	Using RH Sensor with Indicator & Humidity Generator by comparison method	10 °C to 50 °C @ 50 % RH	0.70 °C
67	THERMAL-TEMPERATURE	Freezer, Oven, Environment Chamber, Vacuum Oven, Cold Room (Multi Position Calibration)	Using RTD with Data Logger (minimum nine Sensors) by Comparison Method	(-)80 °C to 50 °C	2.4 °C

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 61 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
68	THERMAL-TEMPERATURE	Muffle Furnace, Industrial Furnace, Dry Block Furnace (Multi Position Calibration)	Using N – Type Thermocouple with Data Logger (minimum 9 sensors) by Comparison Method	>250 °C to 1200 °C	4.4 °C
69	THERMAL-TEMPERATURE	Oven, Environment Chamber, Vacuum Oven (Multi Position Calibration)	Using RTD with Data Logger (Minimum 9 sensors) by Comparison Method	>50 °C to 250 °C	2.8 °C
70	THERMAL-TEMPERATURE	RTD's with Indicator / Temperature Controller, Transmitter With Sensor, Data Logger, Temperature Gauge	Using 4 wire RTD (PT-100) Sensor, 6 ½ Digital Multimeter & Dry Block Calibrator by Comparison Method	50 °C to 300 °C	1.1 °C
71	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Liquid Bath / Freezer / Dry Block /Furnace / Incubator (Non Medical) / Bod Incubator (Non Medical) / Autoclave Non Medical) / Refrigerator / Oven / Vacuum Oven / Environmental Chamber	Using RTD, and 6 ½ Digital Multimeter (Single Position Calibration) by Comparison Method	(-)80 °C to 200 °C	1.1 °C

SCOPE OF ACCREDITATION

Laboratory Name : MULTITEK TECHNOLOGIES, 201-201 2ND FLOOR, SHRIKRISHNA COMPLEX, VASUNDHARA ENCLAVE, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4462 **Page No** 62 of 62

Validity 27/06/2025 to 26/06/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
72	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Muffle Furnace / Dry Block Furnace (Single position Calibration)	Using S-Type Thermocouple with 6 ½ Digital Mutimeter by Comparison Method	300 °C to 1200 °C	3.9 °C
73	THERMAL-TEMPERATURE	Thermocouples with Indicator / Temperature Controller, Transmitter With Sensor, Data Logger with sensor, Temperature Gauge	Using S type Thermocouple, 6 ½ Digital Multimeter & Dry Block Calibrator by Comparison Method	>650 °C to 1200 °C	4 °C
74	THERMAL-TEMPERATURE	Thermocouples with Indicator / Temperature Controller, Transmitter With Sensor, Data Logger, Temperature Gauge	Using S-TYPE Thermocouple, 6 ½ Digital Multimeter & Dry Block Calibrator by Comparison Method	>300 °C to 650 °C	2.5 °C

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