



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	MET HEAT SERVICES, 857/2, G.I.D.C. INDUSTRIAL ESTATE, MAKARPURA, VADODARA, GUJARAT, INDIA	Page No	1 of 19
Accreditation Standard	ISO/IEC 17025:2017	Last Amended on	-
Certificate Number	CC-2220		
Validity	17/02/2023 to 16/02/2025		

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	BEVEL PROTRACTOR /ANGLE PROTRACTOR L.C: 5'	Using Angle Gauge Blocks by Comparison method	0° to 90°	4.24' of arc
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	BORE GAUGE WITH DIAL (FOR TRANSMISSION ACCURACY) L.C: 0.001 mm	Using Single Axis Measuring Machine by Comparison method	0 to 2 mm	2.0µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	BORE GAUGE WITH DIAL (FOR TRANSMISSION ACCURACY) L.C: 0.01 mm	Using Single Axis Measuring Machine by Comparison method	0 to 2 mm	6.60µm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	CALIPERS L.C: 0.01 mm	Using Length Bars by Comparison method	0 to 1000 mm	20.0µm



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5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	CALIPERS L.C: 0.02 mm	Using Length Bars by Comparison method	0 to 1000 mm	26.0µm
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	CALIPERS L.C: 0.02 mm	Using Length Bars by Comparison method	0 to 2000 mm	32.0µm
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	CALIPERS L.C: 0.05 mm	Using Length Bars by Comparison method	0 to 1000 mm	40.0µm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	COATING THICKNESS GAUGE (L.C.: 0.1/ 1 µm)	Using Master Foils by Comparison method	10 µm to 1200 µm	7.06µm
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	COMBINATION SQUARE SET L.C = 1°	Using Angle Gauge Blocks by Comparison method	0° to 90°	35.0' of arc



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10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	CYLINDRICAL MEASURING PIN	Using Single Axis Measuring Machine by Comparison method	0.1 mm to 20 mm	1.50µm
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	DEPTH MICROMETER L.C: 0.01 mm	Using Depth Micro Checker and Slip Gauge Set by Comparison method	0 to 300 mm	10.0µm
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	DIAL GAUGE (LEVER TYPE) L.C: 0.001 mm	Using Single Axis Measuring Machine by Comparison method	0 to 0.14 mm	1.80µm
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	DIAL GAUGE (LEVER TYPE) L.C: 0.002 mm	Using Single Axis Measuring Machine by Comparison method	0 to 0.18 mm	2.20µm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	DIAL GAUGE (LEVER TYPE) L.C: 0.010 mm	Using Single Axis Measuring Machine by Comparison method	0 to 1 mm	3.0µm



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15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	DIAL GAUGE (PLUNGER TYPE) L.C: 0.001 mm	Using Single Axis Measuring Machine by Comparison method	0 to 50 mm	1.80µm
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	DIAL GAUGE (PLUNGER TYPE) L.C: 0.002 mm	Using Single Axis Measuring Machine by Comparison method	0 to 25 mm	2.0µm
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	DIAL GAUGE (PLUNGER TYPE) L.C: 0.01 mm	Using Single Axis Measuring Machine by Comparison method	0 to 100 mm	7.0µm
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	DIAL THICKNESS GAUGE L.C: 0.01 mm	Using Slip Gauge set by Comparison method	0 to 25 mm	8.0µm
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	DIGITAL ULTRASONIC THICKNESS GAUGE L.C: 0.01 mm	Using Slip Gauge and Standard Blocks by Comparison method	1 mm to 100 mm	8.40µm



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20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	ELECTRONIC EXTENSOMETER (Traverse) L.C: 0.001 mm	Using Electronic probe with DRO and fixture by Comparison method	0 to 1 mm	2.0µm
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	EXTERNAL MICROMETER L.C: 0.001 mm	Using Slip Gauge by Comparison method	0 to 200 mm	4.10µm
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	EXTERNAL MICROMETER L.C: 0.010 mm	Using Slip Gauge and Length Bar by Comparison method	0 to 1000 mm	20.0µm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	FEELER GAUGE	Using External Micrometer by Comparison method	0.01 mm to 1 mm	4.90µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	HEIGHT GAUGES (VERNIER/DIAL/DIGITAL) L.C: 0.010 mm	Using Caliper Checker and Surface Plate by Comparison method	0 to 600 mm	15.0µm



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25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	HEIGHT GAUGES (VERNIER/DIAL/DIGITAL) L.C: 0.020 mm	Using Length bars and Surface Plate by Comparison method	600 mm to 1000 mm	29.0µm
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	INSIDE DIAL CALIPERS L.C: 0.010 mm	Using Slip Gauge and Accessories by Comparison method	10 mm to 120 mm	22.0µm
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	INSIDE DIAL CALIPERS L.C: 0.050 mm	Using Slip Gauge and Accessories by Comparison method	35 mm to 120 mm	41.0µm
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	INSIDE MICROMETER (OVERALL LENGTH) L.C: 0.01 mm	Using Slip Gauges and Accessories, length bars, H&G block by Comparison method	0 to 2000 mm	26.60µm
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	INSIDE MICROMETER (TRAVEL) L.C: 0.01 mm	Using Digital Dial Gauge Setup by Comparison method by Comparison method	0 to 50 mm	6.0µm



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30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	MASTER BLOCKS FOR ULTRASONIC THICKNESS GAUGE (L.C: NOT APPLICABLE)	Using Digital Outside Micrometer, Slip Gauge, Dial and Comparator stand by Comparison method	1 mm to 100 mm	6.30µm
31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	MASTER FOIL OF COATING THICKNESS GAUGE (L.C: NOT APPLICABLE)	Using Electronic Probe With DRO and Comparator Stand by Comparison method	10 µm to 1200 µm	3.9µm
32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	MEASURING TAPE L.C: 1 mm	Using Scale and Tape Calibrator by Comparison method	0 to 100 m	240xSQRT(L/1000)µm, where L in mm
33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	MICROMETER SETTING ROD	Using Slip Gauges, Length bars and Dial with Comparator stand by Comparison method	200 mm to 575 mm	10.40µm
34	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	MICROMETER SETTING ROD	Using Slip Gauge, Dial with Comparator stand by Comparison method	25 mm to 175 mm	6.30µm



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35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	MICROMETER SETTING ROD	Using Slip Gauge, Length bar and Dial with Comparator stand by Comparison method	600 mm to 975 mm	15.0µm
36	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PISTOL CALIPER L.C: 0.1 mm	Using Slip Gauges by Comparison method	0 to 70 mm	80.0µm
37	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PLAIN PLUG GAUGE	Using Slip Gauges and Dial with Comparator stand by Comparison method	100 mm to 225 mm	6.50µm
38	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PLAIN PLUG GAUGE	Using Single Axis Measuring Machine by Comparison method	3 mm to 100 mm	3.26µm
39	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PLAIN RING GAUGE	Using Single Axis Measuring Axis and Master Ring Gauge by Comparison method	6 mm to 125 mm	5.0µm



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40	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PLAIN SNAP/GAP GAUGE	Using Slip Gauge Set by Comparison method	3 mm to 250 mm	6.20µm
41	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	RADIUS GAUGE	Using Video Measuring Machine by Comparison method	0.5 mm to 40 mm	18.0µm
42	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	SPIRIT LEVEL (Electronic /Square frame) Sensitivity: 0.01mm/m	Using Electronic level, Slip gauges, Tilting table by Comparison method as per IS 5706	10 mm to 200 (base) mm	12.21µm/m
43	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	STEEL SCALE L.C: 1 mm	Using Scale and Tape Calibrator by Comparison method	0 to 3000 mm	240xSQRT(L/1000)µm, where L in mm
44	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	STRAIGHT EDGE (FOR STRAIGHTNESS) Sensitivity: 0.001mm/m	Using Electronic Level by Comparison method	300 mm to 3000 mm	8.5xSqrt(L)µm, where L in mm



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45	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	SURFACE PLATE (FOR FLATNESS) Sensitivity: 0.001mm/m	Using Electronic Level by Comparison method	300 mm x 300 mm to 3000 mm x 2000 mm	$1.7 \times \text{SQRT}((L+W)/125) \mu\text{m}$, where L & W in mm
46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	TAPE AND SCALE CALIBRATOR (L.C: 0.001 mm)	Using Length bar Set by Comparison method	0 to 1000 mm	32.24 μm
47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	THREAD PLUG GAUGE (EFFECTIVE DIAMETER)	Using Single Axis Measuring Machine, Gauge Block, Thread Measuring Wires by Comparison Method	2.5 mm to 150 mm	4.0 μm
48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	THREAD RING GAUGE (EFFECTIVE DIAMETER)	Using Single Axis Measuring Machine and Master Ring Gauge by Comparison method	6 mm to 100 mm	4.20 μm
49	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	VERNIER DEPTH GAUGES (VERNIER/DIAL/DIGITAL) L.C: 0.010 mm	Using Depth Micro checker by Comparison method	0 to 300 mm	10.0 μm



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50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	VERNIER DEPTH GAUGES (VERNIER/DIAL/DIGITAL) L.C: 0.020 mm	Using Depth Micro Checker, length bar and Surface plate by Comparison method	0 to 600 mm	19.03µm
51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	VERNIER DEPTH GAUGES (VERNIER/DIAL/DIGITAL) L.C: 0.050 mm	Using Depth Micro Checker, length bar and Surface plate by Comparison method	0 to 600 mm	30.0µm
52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	WIRE GAUGE	Using Video Measuring Machine by Comparison method	0.19 mm to 7.62 mm	13.21µm
53	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	DIAL CALIBRATION TESTER L.C: 0.0002 mm	Using Electronic probe with DRO by Comparison method	0 to 10 mm	1.32µm
54	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	ELECTRONIC PROBE WITH DISPLAY (L.C: 0.0001 mm)	Using Slip Gauge Block and Comparator stand by Comparison method	0 to 10 mm	4.19µm



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55	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	SLIP GAUGE/GAUGE BLOCK (GRADE I, II AND 0 of Steel and Carbide)	Using Gauge Block Comparator & K Grade Slip Gauge Set by Comparison method	0.5 mm to 25 mm	0.16µm
56	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	SLIP GAUGE/GAUGE BLOCK (Grade I, II and 0 of Steel and Carbide)	Using Gauge Block Comparator & K Grade Slip Gauge Set by Comparison method	50 mm to 100 mm	0.29µm
57	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	SLIP GAUGE/GAUGE BLOCK (GRADE I,II AND 0 of Steel and Carbide)	Using Gauge Block Comparator & K Grade Slip Gauge Set by Comparison method	25 mm to 50 mm	0.18µm
58	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	VIDEO MEASURING MACHINE/PROFILE PROJECTOR (ANGULAR SCALE L.C: 1')	Using Angle Gauge Block by Comparison method	Up to 180°	2.6' of arc
59	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	VIDEO MEASURING MACHINE/PROFILE PROJECTOR (LINEAR SCALE L.C: 0.001 mm)	Using Precision Glass Scale as per IS 7184	Up to 200 mm (X-Y Travel)	6.2µm
60	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	VIDEO MEASURING MACHINE/PROFILE PROJECTOR (MAGNIFICATION)	Using Glass Scale and Digital Caliper as per IS 7184	Up to 100X	1.61µm



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Site Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	ELECTRONIC EXTENSOMETER (Traverse) L.C: 0.001 mm	Using Electronic probe with DRO and fixture by Comparison method	0 to 1 mm	2.0µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	ELECTRONIC EXTENSOMETER L.C: 0.001 mm	Using Electronic Probe with DRO by Comparison method as per IS12872 & ASTM E 82	0 to 1 (Traverse) 50 mm (Gauge	1.80µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	STRAIGHT EDGE (FOR STRAIGHTNESS) Sensitivity: 0.001mm/m	Using Electronic Level by Comparison method	300 mm to 3000 mm	8.5xSQRT(L)µm, where L in mm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	SURFACE PLATE (FOR FLATNESS) Sensitivity: 0.001mm/m	Using Electronic Level by Comparison method	300 mm x 300 mm to 3000 mm x 2000 mm	2.12xSQRT((L+W)/125)µm, where L & W in mm



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5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	TAPE AND SCALE CALIBRATOR (L.C: 0.001 mm)	Using Length bar Set by Comparison method	0 to 1000 mm	32.24µm
6	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	DIAL CALIBRATION TESTER L.C: 0.0002 mm	Using Electronic probe with DRO by Comparison method	0 to 10 mm	1.32µm
7	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	ELECTRONIC PROBE WITH DISPLAY (L.C: 0.0001 mm)	Using Slip Gauge Block and Comparator stand by Comparison method	0 to 10 mm	4.19µm
8	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	MICROSCOPE (Magnification)	USING GLASS SCLAE, MICROMETER EYEPIECE BY COMPARISION METHOD	1 X to 100 X	0.28 µm
9	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	VIDEO MEASURING MACHINE/PROFILE PROJECTOR (ANGULAR SCALE L.C: 1')	Using Angle Gauge Block by Comparison method	Up to 180°	2.6' of arc



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10	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	VIDEO MEASURING MACHINE/PROFILE PROJECTOR (ANGULAR SCALE L.C: 1')	Using Angle Gauge Block as per IS 7184	Up to 360°	3' of arc
11	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	VIDEO MEASURING MACHINE/PROFILE PROJECTOR (LINEAR SCALE L.C: 0.001 mm)	Using Precision Glass Scale by Comparison method	Up to 200 mm	7.4µm
12	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	VIDEO MEASURING MACHINE/PROFILE PROJECTOR (LINEAR SCALE L.C: 0.001 mm)	Using Precision Glass Scale as per IS 7184	Up to 200 mm (X-Y Travel)	6.2µm
13	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	VIDEOMEASURING MACHINE/PROFILE PROJECTOR (MAGNIFICATION)	Using Glass Scale and Digital Caliper as per IS 7184	Up to 100X	1.78µm
14	MECHANICAL-HARDNESS TESTING MACHINES	Brinell hardness testing machine by Indirect method verification	Using Standard hardness test block as per IS 1500 (Part 2)- 2021, ISO 6506 (Part 2)- 2017 and ASTM E-10- 2018	25 HBW 2.5/187.5 to 500 HBW 2.5/187.5	3.7%



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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2220	Page No	16 of 19
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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
15	MECHANICAL-HARDNESS TESTING MACHINES	Brinell hardness testing machine by Indirect method verification	Using Standard hardness test block as per IS 1500 (Part 2)- 2021, ISO 6506 (Part 2)- 2017 and ASTM E-10- 2018	50 HBW 10/3000 to 500 HBW 10/3000	1.7%
16	MECHANICAL-HARDNESS TESTING MACHINES	Brinell hardness testing machine by Indirect method verification	Using Standard hardness test block as per IS 1500 (Part 2)- 2021, ISO 6506 (Part 2)- 2017 and ASTM E-10- 2018	50 HBW 5/750 to 500 HBW 5/750	1.9%
17	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell hardness testing machine by Indirect method verification	Using Standard hardness test block as per IS 1586 (PART 2)- 2018, ISO 6508 (PART-2)- 2015 and ASTM E-18- 2022	10 HRBW to 100 HRBW	1HRBW
18	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell hardness testing machine by Indirect method verification	Using Standard hardness test block as per IS 1586 (PART 2)- 2018, ISO 6508 (PART-2)- 2015 and ASTM E-18- 2022	10 HRC to 70 HRC	1.7HRC
19	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell hardness testing machine by Indirect method verification	Using Standard hardness test blocks as per IS 1586 (PART 2)- 2018, ISO 6508 (PART-2)- 2015 and ASTM E-18- 2022	20 HRA to 95 HRA	2.7HRA



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20	MECHANICAL-HARDNESS TESTING MACHINES	Vickers hardness testing machine by Indirect method	Using Standard hardness testing blocks as per IS 1501 (PART-2)-2020, ISO 6507 (PART-2)- 2018 & ASTM E-92- 2017	100 HV 10 to 900 HV 10	1.5%
21	MECHANICAL-HARDNESS TESTING MACHINES	Vickers hardness testing machine by Indirect method	Using Standard hardness testing blocks as per IS 1501 (PART-2)-2020, ISO 6507 (PART-2)- 2018 & ASTM E-92- 2017	100 HV 20 to 900 HV 20	1.4%
22	MECHANICAL-HARDNESS TESTING MACHINES	Vickers hardness testing machine by Indirect method	Using Standard hardness testing blocks as per IS 1501 (PART-2)-2020, ISO 6507 (PART-2)- 2018 & ASTM E-92- 2017	100 HV 30 to 900 HV 30	2%
23	MECHANICAL-HARDNESS TESTING MACHINES	Vickers hardness testing machine by Indirect method	Using Standard hardness testing blocks as per IS 1501 (PART-2)-2020, ISO 6507 (PART-2)- 2018 & ASTM E-92- 2017	100 HV 50 to 900 HV 50	3%



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24	MECHANICAL-IMPACT TESTING MACHINE	IMPACT TESTING MACHINE BY DIRECT METHOD (Charpy)	Using Clinometer, load cell, length bars, other fixtures and measuring instruments as per ASTM E-23 & ISO 148-2, IS-3766	0 J to 350 J	5.72%
25	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Uniaxial Testing Machines(Universal testing machine,compression testing machine,spring testing machine,force measuring systems) (Compression mode)	Using Load Cells with Indicator as per IS 1828 PART-1, BS EN ISO 7500-1 / ASTM E-4	1 kN to 1000 kN	0.93%
26	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Uniaxial Testing Machines(Universal testing machine,compression testing machine,spring testing machine,force measuring systems) (Tension mode)	Using Load Cells with Indicator as per IS 1828 PART-1, BS EN ISO 7500-1 / ASTM E-4	0.3 kN to 3 kN	0.3%



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27	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Uniaxial Testing Machines(Universal testing machine,compression testing machine,spring testing machine,force measuring systems) (Tension mode)	Using Load Cells with Indicator as per IS 1828 PART-1, BS EN ISO 7500-1 / ASTM E-4	5 kN to 50 kN	0.85%

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