



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name CANAN TESTING SERVICES, 11, FIRST FLOOR, CONVENIENT SHOPPING CENTRE, POCKET-F, G.T.B. ENCLAVE, NAND NAGARI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2359 Page No. : 1 / 9

Validity 06/09/2019 to 05/09/2021 Last Amended on -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured / Instrument	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)	Calibration or Measurement Method or procedure
Site Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	ERICHSEN CUPPING TESTING MACHINE	up to 20mm	0.10mm	By using digital dial gauge and holding fixture as per IS 10175 (PART 1) & SOP 11.8 (ISSUE No.5) 15.01.19
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	EXTENSOMETER	up to 25 mm	3.4µm	By Using Extensometer Calibration Fixture and Vernier Caliper IS 12872, ISO 9513 & ASTM E-83
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	MICROSCOPE	UP TO 1000x	1.64%	Using Glass Scale as per ASTM E 1951
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PROFILE PROJECTOR ANGLE	upto 360°	6' 58"	Using angle gauge & Angular Graticule as per JIS B 7184
5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PROFILE PROJECTOR MAGNIFICATION	upto 50X	0.61%	Using Glass Scale. Glass Graticule and Vernier Caliper as per JIS B 7184



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6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PROFILE PROJECTOR X-AXIS	upto 300 mm	11µm	Using Glass Scale , Glass Graticule and Vernier Caliper as per JIS B 7184
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PROFILE PROJECTOR Y-AXIS	UP TO 300 mm	11µm	Using Glass Scale, Glass Graticule and Vernier Caliper as per JIS B 7184
8	MECHANICAL-HARDNESS TESTING MACHINES	HARDNESS BRINELL 10/1000	UPTO 600 HBW	1.25%	By Using Standard Reference Test Blocks as per IS 1500 (PART 2), ISO 6506 (PART 2) & ASTM E-10
9	MECHANICAL-HARDNESS TESTING MACHINES	HARDNESS BRINELL 10/3000	UPTO 700 HBW	1.41%	By Using Standard Reference Test Blocks as per IS 1500 (PART 2), ISO 6506 (PART 2) & ASTM E-10
10	MECHANICAL-HARDNESS TESTING MACHINES	HARDNESS BRINELL 2.5/187.5	UPTO 600 HBW	2.2%	By Using Standard Reference Test Blocks as per IS 1500 (PART 2), ISO 6506 (PART 2) & ASTM E-10



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11	MECHANICAL-HARDNESS TESTING MACHINES	HARDNESS BRINELL 2.5/62.5	UPTO 600 HBW	1.40%	By Using Standard Reference Test Blocks as per IS 1500 (PART 2), ISO 6506 (PART 2) & ASTM E-10
12	MECHANICAL-HARDNESS TESTING MACHINES	HARDNESS BRINELL 5/250	UPTO 600 HBW	1.25%	By Using Standard Reference Test Blocks as per IS 1500 (PART 2), ISO 6506 (PART 2) & ASTM E-10
13	MECHANICAL-HARDNESS TESTING MACHINES	HARDNESS BRINELL 5/750	UPTO 650 HBW	1.32%	By Using Standard Reference Test Blocks as per IS 1500 (PART 2), ISO 6506 (PART 2) & ASTM E-10
14	MECHANICAL-HARDNESS TESTING MACHINES	HARDNESS VICKERS HV 0.1	UPTO 800 HV	4.83%	By Using Standard Reference Test Blocks as per IS 1501 (PART 2), ISO 6507 (PART 2), ASTM E-384 & ASTM E-92
15	MECHANICAL-HARDNESS TESTING MACHINES	HARDNESS VICKERS HV 0.2	UPTO 800 HV	3.64%	By Using Standard Reference Test Blocks as per IS 1501 (PART 2), ISO 6507 (PART 2), ASTM E-384 & ASTM E-92



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Site Facility					
16	MECHANICAL-HARDNESS TESTING MACHINES	HARDNESS VICKERS HV 0.3	UPTO 800 HV	3.94%	By Using Standard Reference Test Blocks as per IS 1501 (PART 2), ISO 6507 (PART 2), ASTM E-384 & ASTM E-92
17	MECHANICAL-HARDNESS TESTING MACHINES	HARDNESS VICKERS HV 0.5	UPTO 800 HV	2.79%	By Using Standard Reference Test Blocks as per IS 1501 (PART 2), ISO 6507 (PART 2), ASTM E-384 & ASTM E-92
18	MECHANICAL-HARDNESS TESTING MACHINES	HARDNESS VICKERS HV 1	UPTO 800 HV	2.49%	By Using Standard Reference Test Blocks as per IS 1501 (PART 2), ISO 6507 (PART 2), ASTM E-384 & ASTM E-92
19	MECHANICAL-HARDNESS TESTING MACHINES	HARDNESS VICKERS HV 10	UP TO 800 HV	2.1%	By Using Standard Reference Test Blocks as per IS 1501 (PART 2), ISO 6507 (PART 2), ASTM E-384 & ASTM E-92



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20	MECHANICAL-HARDNESS TESTING MACHINES	HARDNESS VICKERS HV 2	UPTO 800 HV	4.7%	By Using Standard Reference Test Blocks as per IS 1501 (PART 2), ISO 6507 (PART 2), ASTM E-384 & ASTM E-92
21	MECHANICAL-HARDNESS TESTING MACHINES	HARDNESS VICKERS HV 20	UP TO 800 HV	2.1%	By Using Standard Reference Test Blocks as per IS 1501 (PART 2), ISO 6507 (PART 2), ASTM E-384 & ASTM E-92
22	MECHANICAL-HARDNESS TESTING MACHINES	HARDNESS VICKERS HV 3	UPTO 800 HV	2.33%	By Using Standard Reference Test Blocks as per IS 1501 (PART 2), ISO 6507 (PART 2), ASTM E-384 & ASTM E-92
23	MECHANICAL-HARDNESS TESTING MACHINES	HARDNESS VICKERS HV 30	UPTO 800 HV	2.30%	By Using Standard Reference Test Blocks as per IS 1501 (PART 2), ISO 6507 (PART 2), ASTM E-384 & ASTM E-92



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24	MECHANICAL-HARDNESS TESTING MACHINES	HARDNESS VICKERS HV 5	UPTO 800 HV	1.92%	By Using Standard Reference Test Blocks as per IS 1501 (PART 2), ISO 6507 (PART 2), ASTM E-384 & ASTM E-92
25	MECHANICAL-HARDNESS TESTING MACHINES	ROCKWELL HRA SCALE	20 HRA to 88 HRA	0.55HRA	By Using Standard Reference Test Blocks as per IS 1586 (PART 2), ISO 6508 (PART 2) AND ASTM E-18
26	MECHANICAL-HARDNESS TESTING MACHINES	ROCKWELL HRBW SCALE	20 HRBW to 100 HRBW	1.12HRBW	By Using Standard Reference Test Blocks as per IS 1586 (PART 2), ISO 6508 (PART 2) AND ASTM E-18
27	MECHANICAL-HARDNESS TESTING MACHINES	ROCKWELL HRC SCALE	20 HRC to 70 HRC	0.58HRC	By Using Standard Reference Test Blocks as per IS 1586 (PART 2), ISO 6508 (PART 2) & ASTM E-18
28	MECHANICAL-HARDNESS TESTING MACHINES	ROCKWELL SUPERFICIAL HR 15N SCALE	70 HR 15N to 91 HR 15N	0.51HR 15N	By Using Standard Reference Test Blocks as per IS 1586 (PART 2), ISO 6508 (PART 2) AND ASTM E-18



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29	MECHANICAL-HARDNESS TESTING MACHINES	ROCKWELL SUPERFICIAL HR 15TW SCALE	73 HR 15TW to 93 HR 15TW	0.84HR 15TW	By Using Standard Reference Test Blocks as per IS 1586 (PART 2), ISO 6508 (PART 2) AND ASTM E-18
30	MECHANICAL-HARDNESS TESTING MACHINES	ROCKWELL SUPERFICIAL HR 30N SCALE	42 HR 30N to 80 HR 30N	0.67HR 30N	By Using Standard Reference Test Blocks as per IS 1586 (PART 2), ISO 6508 (PART 2) AND ASTM E-18
31	MECHANICAL-HARDNESS TESTING MACHINES	ROCKWELL SUPERFICIAL HR 30TW SCALE	43 HR 30TW to 82 HR 30TW	0.90HR 30TW	By Using Standard Reference Test Blocks as per IS 1586 (PART 2), ISO 6508 (PART 2) AND ASTM E-18
32	MECHANICAL-HARDNESS TESTING MACHINES	ROCKWELL SUPERFICIAL HR 45N SCALE	20 HR 45N to 70 HR 45N	0.92HR 45N	By Using Standard Reference Test Blocks as per IS 1586 (PART 2), ISO 6508 (PART 2) AND ASTM E-18
33	MECHANICAL-HARDNESS TESTING MACHINES	ROCKWELL SUPERFICIAL HR 45TW SCALE	12 HR 45TW to 72 HR 45TW	1.50HR 45TW	By Using Standard Reference Test Blocks as per IS 1586 (PART 2), ISO 6508 (PART 2) AND ASTM E-18



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34	MECHANICAL- IMPACT TESTING MACHINE	CHARPY SCALE	0 J to 750 J	0.32% (For Direct calibration only)7.2 % (For Indirect calibration)	By Using Clinometer, Load cell, Stop Watch and Other measuring instruments as per ISO 148 (PART 2), ISO 13802, ASTM E-23, ASTM D-256 AND IS 1757 (PART 2)
35	MECHANICAL- IMPACT TESTING MACHINE	IZOD SCALE	0 J to 170 J	0.54 % (For Direct calibration only)	By Using Clinometer, load cell, Stop Watch, and Other Measuring Instrument/ gauges as per ISO 13802, ASTM D-256, IS 1757-2 AND BS 131-4
36	MECHANICAL- UTM, TENSION CREEP AND TORSION TESTING MACHINE	FORCE- COMPRESSION	10 N to 1000 kN	0.64%	Using Force Proving Rings and load cell ASTM E-4
37	MECHANICAL- UTM, TENSION CREEP AND TORSION TESTING MACHINE	FORCE- COMPRESSION	20 N to 3000 kN	0.64%	By using Force Proving rings and load cell as per IS 1828 (PART 1) & ISO 7500 (PART 1)
38	MECHANICAL- UTM, TENSION CREEP AND TORSION TESTING MACHINE	FORCE-TENSION	2 N to 1000 kN	0.62%	By Using Force Proving Rings and Load Cell as per IS 1828 (PART 1) & ISO 7500 (PART 1)



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39	MECHANICAL- UTM, TENSION CREEP AND TORSION TESTING MACHINE	FORCE-TENSION	50 N to 1000 kN	0.62%	By using force proving rings and load cell as per ASTM E-4

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