National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

CANAN TESTING MACHINES AND CALIBRATIONS LLP

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

11, FIRST FLOOR, CONVENIENT SHOPPING CENTRE, POCKET-F, G.T.B. ENCLAVE, NAND NAGARI, SHAHDARA, DELHI, INDIA

in the field of

CALIBRATION

Certificate Number: CC-2359

Issue Date: 28/12/2024 **Valid Until:** 27/12/2028

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of thislaboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: CANAN TESTING MACHINES AND CALIBRATIONS LLP

Signed for and on behalf of NABL

N. Venkateswaran
Chief Executive Officer

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

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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)(±)
Site Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer (L.C.: 0.0001 mm)	Using Extensometer Calibration Fixture & Vernier Caliper by Direct Method as per IS 12872, ISO 9513 & ASTM E-83	Up to 50 mm	13.97 µm
2	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope - Magnification	Using Glass Scale by Comparison Method as per ASTM E 1951	Up to 1000 X	0.58 %
3	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Angular (L.C.: 1')	Using Angular Graticule by Comparison Method as per JIS B 7184 : 2021	Up to 360 °	3 ' 16 "
4	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Magnification	Using Glass Scale & Vernier Caliper comparison Method as per JIS B 7184	Up to 50 X	0.61 %
5	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - X Axis (L.C.: 0.001 mm)	Using Glass Scale by Comparison Method as per JIS B 7184	Up to 300 mm	7 µm
6	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Y Axis (L.C.: 0.001 mm)	Using Glass Scale by Comparison Method as per JIS B 7184	Up to 300 mm	7 µm
7	MECHANICAL-DUROMETER	Rubber Hardness Tester - Shore A	Using Load Cell with Fixtures by Comparison Method as per ASTM D 2240 & ISO 18898	Up to 100 Shore A	0.88 Shore A

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8	MECHANICAL-DUROMETER	Rubber Hardness Tester - Shore D	Using Load Cell with Fixtures by Comparison Method as per ASTM D 2240 & ISO 18898	Up to 100 Shore D	0.88 Shore D
9	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per ASTM E - 110 (14) and ASTM E - 10	HBW 10/3000	1.1 %
10	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester - Test Force	Using Force Proving Rings and Load Cells as per IS 1500 (2), ISO 6506 (2) and ASTM E - 10	61.29 N to 29421 N	0.91 %
11	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Reference Test Blocks by Indirect Method as per IS 1500 (Part 2) : 2021, ISO 6506 (Part 2) : 2017 and ASTM E - 10 - 18	2.5/187.5 HBW	1.36 %
12	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Reference Test Blocks by Indirect Method as per IS 1500 (Part 2) : 2021, ISO 6506 (Part 2) : 2017 and ASTM E - 10 - 18	2.5/62.5 HBW	2.4 %

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13	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Reference Test Blocks by Indirect Method as per IS 1500 (Part 2) : 2021, ISO 6506 (Part 2) : 2017 and ASTM E - 10 - 18	5/250 HBW	1.26 %
14	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Reference Test Blocks by Indirect Method as per IS 1500 (Part 2) : 2021, ISO 6506 (Part 2) : 2017 and ASTM E - 10 - 18	5/750 HBW	1.2 %
15	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Reference Test Blocks by Indirect Method as per IS 1500 (Part 2) : 2021, ISO 6506 (Part 2) : 2017 and ASTM E - 10 - 18	HBW 10/1000	1.63 %
16	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Reference Test Blocks by Indirect Method as per IS 1500 (Part 2): 2021 and ISO 6506 (Part 2): 2017	HBW 10/3000	1.1 %
17	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine - Measuring Device	Using Glass Scale by Comparison Method as per IS 1500 (2), ISO 6506 (2) and ASTM E - 18	0 to 7 mm	0.25 mm

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18	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine - Testing Cycle	Using Stop Watch by Comparison Method as per IS 1500 (2), ISO 6506 (2) and ASTM E - 10	0 to 180 sec	0.8 sec
19	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Testing Machine	Using Standard Reference Test Blocks by Indirect Method as per IS 1501 (Part 2) : 2020, ISO 6507 (Part 2) : 2018, ASTM E - 384 - 2022 and ASTM E - 92 - 2017	HV 0.1	7.64 %
20	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Testing Machine	Using Standard Reference Test Blocks by Indirect Method as per IS 1501 (Part 2) : 2020, ISO 6507 (Part 2) : 2018, ASTM E - 384 - 2022 and ASTM E - 92 - 2017	HV 0.2	6.2 %
21	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Testing Machine	Using Standard Reference Test Blocks by Indirect Method as per IS 1501 (Part 2) : 2020, ISO 6507 (Part 2) : 2018, ASTM E - 384 - 2022 and ASTM E - 92 - 2017	HV 0.3	3.18 %

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22	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Testing Machine	Using Standard Reference Test Blocks by Indirect Method as per IS 1501 (Part 2) : 2020, ISO 6507 (Part 2) : 2018, ASTM E - 384 - 2022 and ASTM E - 92 - 2017	HV 0.5	4.18 %
23	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Testing Machine	Using Standard Reference Test Blocks by Indirect Method as per IS 1501 (Part 2) : 2020, ISO 6507 (Part 2) : 2018, ASTM E - 384 - 2022 and ASTM E - 92 - 2017	HV 1	3.58 %
24	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell & Rockwell Superficial Hardness Tester (Ball Scale) - Hysteresis	Using Readout of Rockwell by Comparison Method as per IS 1586 (2), ISO 6508 (2) and ASTM E - 18	130 ±1 HR	0.5 HR
25	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell & Rockwell Superficial Hardness Tester (Dimond Scale) - Hysteresis	Using Readout of Rockwell by Comparison Method as per IS 1586 (2), ISO 6508 (2) and ASTM E - 18	100 ±1 HR	0.5 HR
26	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell & Rockwell Superficial Hardness Tester - Depth Measuring System	Using Micrometer Head with Accessories by Direct Method as per IS 1586 (2), IS 6508 (2) and ASTM E - 18	0 to 0.2 mm	2 µm

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27	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell & Rockwell Superficial Hardness Tester - Test Force	Using Force Proving Rings & Load cells by Direct Method as per IS 1586 (2), ISO 6508 (2) and ASTM E - 18	29.42 N to 1471 N	0.5 %
28	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell & Rockwell Superficial Hardness Tester - Testing Cycle	Using Stop Watch by Comparison Method as per IS 1586 (2), ISO 6508 (2) and ASTM E - 18	0 to 180 sec	0.8 sec
29	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per ASTM E - 110 (14) and ASTM E - 18	HRA	0.65 HRA
30	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per ASTM E - 110 (14) and ASTM E - 18	HRBW	0.61 HRBW
31	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per ASTM E - 110 (14) and ASTM E - 18	HRC	0.55 HRC
32	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Reference Test Blocks by Indirect Method as per IS 1586 (Part 2): 2018, ISO 6508 (Part 2): 2015	HRA	0.65 HRA

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33	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Reference Test Blocks by Indirect Method as per IS 1586 (Part 2): 2018, ISO 6508 (Part 2): 2015	HRBW	0.61 HRBW
34	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Reference Test Blocks by Indirect Method as per IS 1586 (Part 2): 2018, ISO 6508 (Part 2): 2015	HRC	0.55 HRC
35	MECHANICAL-HARDNESS TESTING MACHINES	Superficial Rockwell Hardness Tester	Using Standard Reference Test Blocks by Indirect Method as per IS 1586 (Part 2) : 2018, ISO 6508 (Part 2) : 2015 and ASTM E - 18 - 2022	HR 15 TW	0.84 HR 15 TW
36	MECHANICAL-HARDNESS TESTING MACHINES	Superficial Rockwell Hardness Tester	Using Standard Reference Test Blocks by Indirect Method as per IS 1586 (Part 2) : 2018, ISO 6508 (Part 2) : 2015 and ASTM E - 18 - 2022	HR 15 N	0.82 HR 15 N
37	MECHANICAL-HARDNESS TESTING MACHINES	Superficial Rockwell Hardness Tester	Using Standard Reference Test Blocks by Indirect Method as per IS 1586 (Part 2): 2018, ISO 6508 (Part 2): 2015 and ASTM E - 18 - 2022	HR 30 N	0.67 HR 30 N

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38	MECHANICAL-HARDNESS TESTING MACHINES	Superficial Rockwell Hardness Tester	Using Standard Reference Test Blocks by Indirect Method as per IS 1586 (Part 2) : 2018, ISO 6508 (Part 2) : 2015 and ASTM E - 18 - 2022	HR 30 TW	1.09 HR 30 TW
39	MECHANICAL-HARDNESS TESTING MACHINES	Superficial Rockwell Hardness Tester	Using Standard Reference Test Blocks by Indirect Method as per IS 1586 (Part 2) : 2018, ISO 6508 (Part 2) : 2015 and ASTM E - 18 - 2022	HR 45 N	0.82 HR 45 N
40	MECHANICAL-HARDNESS TESTING MACHINES	Superficial Rockwell Hardness Tester	Using Standard Reference Test Blocks by Indirect Method as per IS 1586 (Part 2): 2018, ISO 6508 (Part 2): 2015 & ASTM E-18-2022	HR 45 TW	1.07 HR 45 TW
41	MECHANICAL-HARDNESS TESTING MACHINES	Vickers & Micro Vickers Hardness Testing Machine - Measuring Device	Using Glass Scale by Comparison Method as per IS 1501 (2), ISO 6507 (2) and ASTM E - 92	0 to 1 mm	0.5 µm
42	MECHANICAL-HARDNESS TESTING MACHINES	Vickers & Micro Vickers Hardness Testing Machine - Test Force	Using Force Proving Rings and Load Cells by Direct Method as per IS 1501 (2), ISO 6507 (2), ASTM E - 384 and ASTM E - 92	1 N to 980.7 N	0.25 %

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43	MECHANICAL-HARDNESS TESTING MACHINES	Vickers & Micro Vickers Hardness Testing Machine - Testing Cycle	Using Stop Watch by Comparison Method as per IS 1501 (2), ISO 6507 (2), ASTM E - 384 and ASTM E - 92	0 to 180 sec	0.8 sec
44	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Reference Test Blocks by Indirect Method as per IS 1501 (Part 2) : 2020, ISO 6507 (Part 2) : 2018, ASTM E - 384 - 2022 and ASTM E - 92 - 2017	HV 10	0.95 %
45	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Reference Test Blocks by Indirect Method as per IS 1501 (Part 2) : 2020, ISO 6507 (Part 2) : 2018, ASTM E - 384 - 2022 and ASTM E - 92 - 2017	HV 2	2.74 %
46	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Reference Test Blocks by Indirect Method as per IS 1501 (Part 2) : 2020, ISO 6507 (Part 2) : 2018, ASTM E - 384 - 2022 and ASTM E - 92 - 2017	HV 20	2.1 %

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47	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Reference Test Blocks by Indirect Method as per IS 1501 (Part 2) : 2020, ISO 6507 (Part 2) : 2018, ASTM E - 384 - 2022 and ASTM E - 92 - 2017	HV 3	2.33 %
48	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Reference Test Blocks by Indirect Method as per IS 1501 (Part 2) : 2020, ISO 6507 (Part 2) : 2018, ASTM E - 384 - 2022 and ASTM E - 92 - 2017	HV 30	0.67 %
49	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Reference Test Blocks by Indirect Method as per IS 1501 (Part 2) : 2020, ISO 6507 (Part 2) : 2018, ASTM E - 384 - 2022 and ASTM E - 92 - 2017	HV 5	1.92 %

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50	MECHANICAL-IMPACT TESTING MACHINE	Impact Testing Machine - Charpy	Using Clinometer, Load Cell, Vernier Caliper, Stop Watch, Bevel Protractor, Steel Tape, Angle Gauges, Radius Gauges and Dial Indicator by Direct and Indirect Method as per ISO 148 - 2, ASTM E - 23, ISO 13802 and IS 1757 (Part 2)	Up to 750 J	0.41 %
51	MECHANICAL-IMPACT TESTING MACHINE	Impact Testing Machine - Izod	Using Clinometer, Load Cell, Stop Watch, Vernier Caliper, Bevel Protractor, Steel Tape, Angle Gauges, Radius Gauges and Dial Indicator by Direct Method as per ISO 13802, ASTM D-256, & BS 131 (Part 4)	Up to 170 J	0.54 %
52	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Cross Head of UTM, CTM, TTM, Tension, Creep & Torsion Testing Machine - Displacement	Using Digital Height Gauge by Comparison Method as per ASTM E - 2309 (M - 20)	10 mm to 500 mm	0.94 mm
53	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Cross Head of UTM, CTM, TTM, Tension, Creep & Torsion Testing Machine - Speed	Using Digital Height Gauge and Stop Watch by Comparison Method as per ASTM E - 2658	Up to 500 mm/min	2.1 mm/min

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54	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Erichsen Cupping Testing Machine - Movement	Using Erichsen Cupping Calibration Fixture by Direct Method as per IS 10175 (Part 1) : 2018, ISO 20482 : 2013	Up to 20 mm	0.011 mm
55	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	UTM, CTM - Compression	Using Force Proving Rings & Load Cells by Direct Method as per ASTM E - 4 - 21	10 N to 1000 kN	0.48 %
56	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	UTM, CTM Machine - Compression	Using Force Proving Rings & Load Cells as per IS 1828 (Part 1) : 2022 & ISO 7500 (Part 1) : 2018	1 N to 3000 kN	0.79 %
57	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	UTM, TTM, Creep, Torsion Testing Machine & Tensile Testing Machine - Tension	Using Force Proving Rings & Load Cells by Direct Method as per ASTM E - 4 - 21	10 N to 1000 kN	0.48 %
58	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	UTM, TTM, Tension, Creep, Torsion Testing Machine - Tension	Using Force Proving Rings & Load Cells by Direct Method as per IS 1828 (Part 1) : 2022, IS 1828 (Part 2) and ISO 7500 (Part 1) : 2018	1 N to 1000 kN	0.35 %

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