

#### **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:** 

25/03/2024

Valid Until:

27/12/2024

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 this laboratory, 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





### **SCOPE OF ACCREDITATION**

Laboratory Name :

CANAN TESTING MACHINES AND CALIBRATIONS LLP, 11. FIRST FLOOR, CONVENIENT SHOPPING CENTRE, POCKET-F, G.T.B. ENCLAVE, NAND NAGARI, SHAHDARA, DELHI, INDIA

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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)(±)
	-	1.30	Site Facility		•
1	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer - Clip on Type, Video & Laser	Using Extensometer Calibration Fixture & Vernier Caliper 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 as per ASTM E 1951	Up to 1000X	0.03 %
3	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Angular Scale (L.C.: 1')	Using Angle Gauge & Angular Graticule as per JIS B 7184: 2021	Up to 360 °	3 ' 16 "
4	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Magnification	Using Glass Scale & Vernier Caliper as per JIS B 7184	Up to 50X	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	5.41 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	5.41 μm





#### National Accreditation Board for **Testing and Calibration Laboratories**

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7	MECHANICAL- DUROMETER	Rubber Hardness Tester - Shore A & D	Using Durometer Calibrator by Comparison Method as per ASTM D 2240 & ISO 18898	Up to 100 Shore A & D	0.88 Shore A & D
8	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 & ASTM E-10-18	HBW 10/1000	1.63 %
9	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 & ASTM E-10-18	HBW 10/3000	1.1 %
10	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 & ASTM E-10-18	HBW 2.5/187.5	1.36 %





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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 & ASTM E-10-18	HBW 2.5/62.5	2.4 %
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 & ASTM E-10-18	HBW 5/250	1.26 %
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 & ASTM E-10-18	HBW 5/750	1.2 %





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14	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 & ASTM E-92-2017	HV 0.1	2.83 %
15	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 & ASTM E-92-2017	HV 0.2	2.02 %
16	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 & ASTM E-92-2017	HV 0.3	1.26 %





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17	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 & ASTM E-92-2017	HV 0.5	3.78 %
18	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 & ASTM E-92-2017	HV 1	2.31 %
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 & ASTM E-92-2017	HV 2	3.5 %





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20	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 & ASTM E-18-2022	HRA	0.56 HRA
21	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 & ASTM E-18-2022	HRBW	0.56 HRBW
22	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 & ASTM E-18-2022	HRC	0.53 HRC





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23	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	HR15N	0.82 HR15 N
24	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	HR15TW	0.84 HR15 TW
25	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	HR30N	0.67 HR30 N





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26	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	HR30TW	1.09 HR30 TW
27	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	HR45N	0.82 HR45 N
28	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	HR45TW	1.02 HR45 TW





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29	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 & ASTM E-92-2017	HV 10	0.95 %
30	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 & ASTM E-92-2017	HV 20	2.1 %
31	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 & ASTM E-92-2017	HV 3	2.33 %



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32	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 & ASTM E-92-2017	HV 30	0.67 %
33	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 & ASTM E-92-2017	HV 5	1.92 %
34	MECHANICAL- IMPACT TESTING MACHINE	Charpy Impact Testing Machine - Direct Calibration	Using Clinometer, Load Cell, Vernier Caliper, Stop Watch, Bevel Protractor, Steel Tape, Angle Gauges, Radius Gauges and Dial Indicator as per ISO 148-2, ISO 13802, ASTM E-23, ASTM D-256 & IS 1757 (Part 2)	0 to 750 joule	0.32 %





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35	MECHANICAL- IMPACT TESTING MACHINE	Charpy Impact Testing Machine - Indirect Calibration	Using SRM (Charpy Specimens) as per ISO 148-2 & ASTM E-23	0 to 750 joule	6.6 %
36	MECHANICAL- IMPACT TESTING MACHINE	Izod Impact Testing Machine - Direct Calibration	Using Clinometer, Load Cell, Stop Watch, Vernier Caliper, Bevel Protractor, Steel Tape, Angle Gauges, Radius Gauges & Dial Indicator as per ISO 13802, ASTM D-256, IS 1757 (Part 2) & BS 131 (Part 4)	0 to 170 joule	0.54 %
37	MECHANICAL- UTM, TENSION CREEP AND TORSION TESTING MACHINE	Cross Head of UTM, CTM, TTM, Tension, Creep & Torsion Testing Machine - Displacement	Using Linear Scale with DRO as per ASTM E 2309 (M-20)	10 mm to 500 mm	0.94 mm
38	MECHANICAL- UTM, TENSION CREEP AND TORSION TESTING MACHINE	Cross Head of UTM, CTM, TTM, Tension, Creep & Torsion Testing Machine - Speed	Using Linear Scale with DRO & Stop Watch as per ASTM E-2658	0 to 500 mm/minute	2.1 mm/minute





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39	MECHANICAL- UTM, TENSION CREEP AND TORSION TESTING MACHINE	Erichsen Cupping Testing Machine - Scale	Using Erichsen Cupping Calibration Fixture as per IS 10175 (Part 1) & SOP 11.8 (Issue No. 5 Dated 15.01.19)	Up to 20 mm	0.011 mm
40	MECHANICAL- UTM, TENSION CREEP AND TORSION TESTING MACHINE	UTM, CTM, Tension, Creep & Torsion Testing Machine - Compression	Using Force Proving Rings & Load Cells as per ASTM E-4-21	10 N to 1000 kN	0.48 %
41	MECHANICAL- UTM, TENSION CREEP AND TORSION TESTING MACHINE	UTM, CTM, Tension, Creep & Torsion Testing Machine - Compression Mode	Using Force Proving Rings & Load Cells as per IS 1828 (Part 1) & ISO 7500 (Part 1)	50 N to 3000 kN	0.86 %
42	MECHANICAL- UTM, TENSION CREEP AND TORSION TESTING MACHINE	UTM, TTM, Creep, Torsion Testing Machine & Tensile Testing Machine	Using Force Proving Rings & Load Cells as per ASTM E-4-21	50 N to 1000 kN	0.52 %
43	MECHANICAL- UTM, TENSION CREEP AND TORSION TESTING MACHINE	UTM, TTM, Tension, Creep, Torsion Testing Machine - Tension Mode	Using Force Proving Rings & Load Cells as per IS 1828 (Part 1): 2022 & ISO 7500 (Part 1): 2018	2 N to 1000 kN	0.29 %





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

