



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

ZWICKROELL CALIBRATION LABORATORY

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

SKCL ICON, 3RD FLOOR, C - 42 & 43, SIDCO INDUSTRIAL ESTATE, GUINDY, CHENNAI, TAMIL NADU,
INDIA

in the field of

CALIBRATION

Certificate Number: CC-2081

Issue Date: 13/01/2026

Valid Until: 12/01/2030

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: ZWICKROELL PRIVATE LIMITED

Signed for and on behalf of NABL



Anita Rani
Director

Dr. Ramanand N. Shukla
Chief Executive Officer



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Last Amended on

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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 (PRECISION INSTRUMENTS)	Displacement, Strain, Extension Measuring System used in Material Testing Machine Type - A, B, C, E, F	Using Incremental Linear Encoder (Touch Probe Measuring Sensor & Draw Wire Displacement Sensor) by Comparison Method as per ISO 9513: 2012, ASTM E83-25, ASTM E2309-20	0 to 1000 mm	0.22 %
2	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Extensometer used in Uniaxial Testing Machine Type - A, B, C, E, F	Using Incremental Linear Encoder (Touch Probe Measuring Sensor & Draw Wire Displacement Sensor) by Comparison Method as per ISO 9513: 2012, ASTM E83-25, ASTM E2309-20	0.01 mm to 0.1 mm	0.3 µm
3	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Extensometer used in Uniaxial Testing Machine Type - A, B, C, E, F	Using Incremental Linear Encoder (Touch Probe Measuring Sensor & Draw Wire Displacement Sensor) by Comparison Method as per ISO 9513: 2012, ASTM E83-25, ASTM E2309-20	0.1 mm to 1 mm	0.8 µm



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4	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Extensometer used in Uniaxial Testing Machine Type - A, B, C, E, F	Using Incremental Linear Encoder (Touch Probe Measuring Sensor & Draw Wire Displacement Sensor) by Comparison Method as per ISO 9513: 2012, ASTM E83-25, ASTM E2309-20	1 mm to 50 mm	7.45 µm
5	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Reference Hardness Test Blocks by Indirect Method as per IS 1500-2: 2021, ISO 6506-2: 2017, ASTM E10: 2023	HBW 2.5/187.5	1.82 %
6	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Reference Hardness Test Blocks by Indirect Method as per IS 1500-2: 2021, ISO 6506-2: 2017, ASTM E10: 2023	HBW 2.5/62.5	1.33 %
7	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Reference Hardness Test Blocks by Indirect Method as per IS 1500-2: 2021, ISO 6506-2: 2017, ASTM E10: 2023	HBW 5/250	2.48 %



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8	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Reference Hardness Test Blocks by Indirect Method as per IS 1500-2: 2021, ISO 6506-2: 2017, ASTM E10: 2023	HBW 1/30	1.23 %
9	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Reference Hardness Test blocks by Indirect Method as per IS 1586-2: 2025, ISO 6508-2: 2023, ASTM E18: 2024	HR15N	0.5 HR15N
10	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Reference Hardness Test Blocks by Indirect Method as per IS 1586-2: 2025, ISO 6508-2: 2023, ASTM E18: 2024	HR15TW	1.3 HR15TW
11	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Reference Hardness Test Blocks by Indirect Method as per IS 1586-2: 2025, ISO 6508-2: 2023, ASTM E18: 2024	HR30N	0.5 HR30N
12	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Reference Hardness Test Blocks by Indirect Method as per IS 1586-2: 2025, ISO 6508-2: 2023, ASTM E18: 2024	HR30TW	1.3 HR30TW



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13	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Reference Hardness Test Blocks by Indirect Method as per IS 1586-2: 2025, ISO 6508-2: 2023, ASTM E18: 2024	HR45N	0.5 HR45N
14	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Reference Hardness Test Blocks by Indirect Method as per IS 1586-2: 2025, ISO 6508-2: 2023, ASTM E18: 2024	HR45TW	1.3 HR45TW
15	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Reference Hardness Test Blocks by Indirect Method as per IS 1586-2: 2025, ISO 6508-2: 2023, ASTM E18: 2024	HRA	0.5 HRA
16	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Reference Hardness Test Blocks by Indirect Method as per IS 1586-2: 2025, ISO 6508-2: 2023, ASTM E18: 2024	HRBW	1.3 HRBW
17	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Reference Hardness Test blocks by Indirect Method as per IS 1586-2: 2025, ISO 6508-2: 2023, ASTM E18: 2024	HRC	0.5 HRC



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18	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Reference Hardness Test Blocks by Indirect Method as per IS 1501-2: 2020, ISO 6507-2: 2018, ASTM E92: 2023, ASTM E384-22	HV 0.1	11.9 %
19	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Reference Hardness Test Blocks by Indirect Method as per IS 1501-2: 2020, ISO 6507-2: 2018, ASTM E92: 2023, ASTM E384-22	HV 0.2	5.3 %
20	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Reference Hardness Test Blocks by Indirect Method as per IS 1501-2: 2020, ISO 6507-2: 2018, ASTM E92: 2023, ASTM E384-22	HV 0.3	8.3 %
21	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Reference Hardness Test Blocks by Indirect Method as per IS 1501-2: 2020, ISO 6507-2: 2018, ASTM E92: 2023, ASTM E384-22	HV 0.5	5.9 %



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22	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Reference Hardness Test Blocks by Indirect Method as per IS 1501-2: 2020, ISO 6507-2: 2018, ASTM E92: 2023, ASTM E384-22	HV 1	4.1 %
23	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Reference Hardness Test Blocks by Indirect Method as per IS 1501-2: 2020, ISO 6507-2: 2018, ASTM E92: 2023, ASTM E384-22	HV 10	2.2 %
24	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Reference Hardness Test Blocks by Indirect Method as per IS 1501-2: 2020, ISO 6507-2: 2018, ASTM E92: 2023, ASTM E384-22	HV 3	4.1 %
25	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Reference Hardness Test Blocks by Indirect Method as per IS 1501-2: 2020, ISO 6507-2: 2018, ASTM E92: 2023	HV 30	1.5 %



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26	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Reference Hardness Test Blocks by Indirect Method as per IS 1501-2: 2020, ISO 6507-2: 2018, ASTM E92: 2023, ASTM E384-22	HV 5	2.5 %
27	MECHANICAL-IMPACT TESTING MACHINE	Impact Testing Machine Direct & Indirect Method - Charpy, Izod (Metallic Material)	Using Load Cell with Indicator, Clinometer, Bevel Protractor, Stop Watch and Other Gauges as per ASTM E23: 2025, ISO 148: 2016	0 to 750 J	0.47 %
28	MECHANICAL-IMPACT TESTING MACHINE	Impact Testing Machine Direct Method - Charpy, Izod, Tensile (Plastic Material)	Using Load Cell with Indicator, Clinometer, Bevel Protractor, Stop Watch and Other Gauges as per ASTM D256-24, ASTM D6110-18, ISO 13802: 2015	0 to 50 J	0.46 %
29	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Material Testing Machine - UTM, CTM, MFR, MVR - Compression Mode	Using Load Cell with Indicator by Comparison Method as per IS 1828-1: 2022, ISO 7500-1: 2018	1 N to 5000 N	0.34 %



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30	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Speed in Material Testing Machine	Using Extensometer / Displacement Calibrator and Incremental Sensor, Stop Watch by Comparison Method as per ASTM E2658-15	0 to 1500 mm/min	0.25 %
31	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Static Uni - Axial Testing Machine - Compression Mode	Using Load Cells with Indicator by Comparison Method as per ASTM E4-24	0.1 kN to 600 kN	0.3 %
32	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Static Uni - Axial Testing Machine - Compression Mode	Using Dead Weights by Comparison Method as per IS 1828-1: 2022, ISO 7500-1: 2018	0.1 N to 100 N	0.2 %
33	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Static Uni - Axial Testing Machine - Compression Mode	Using Load Cells and Dead Weights by Comparison Method as per IS 1828-1: 2022, ISO 7500-1: 2018	100 N to 600 kN	0.23 %
34	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Static Uni - Axial Testing Machine - Tension Mode	Using Load Cells with Indicator by Comparison Method as per ASTM E4-24	0.1 kN to 600 kN	0.3 %
35	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Static Uni - Axial Testing Machine - Tension Mode	Using Dead Weights by Comparison Method as per IS 1828-1: 2022, ISO 7500-1: 2018	0.1 N to 100 N	0.2 %



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36	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Static Uni - Axial Testing Machine - Tension Mode	Using Load Cells and Dead Weights by Comparison Method as per IS 1828-1: 2022, ISO 7500-1: 2018	100 N to 600 kN	0.23 %
37	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Class I and Coarser (Readability: 0.01 mg)	Using E1 Class Weights by Comparison Method as per OIML R 76-1	0 to 220 g	0.26 mg
38	THERMAL-TEMPERATURE	Indicator with Sensor of Chamber, Furnace, Oven, Extrusion Plastometer (MFR / MVR) - Single Position	Using RTD Sensor with Indicator by Comparison Method	50 °C to 400 °C	0.5 °C

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