



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

SHELL SERVICES, GROUND 18, BHANDUP INDUSTRIAL ESTATE, PANNALAL COMPOUND, L. B. S. ROAD, BHANDUP WEST, MUMBAI, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-4713

**Page No**

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**Validity**

09/04/2026 to 08/04/2030

**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)(±)
Permanent Facility					
1	FLUID FLOW-FLOW MEASURING DEVICES	Anemometer, Van Type Anemometer, Air Velocity Sensor with Indicator	Using Hot wire Anemometer, Wind Tunnel by Comparison Method as per ISO 3966: 2008	3 m/s to 30 m/s	3.77 %
2	FLUID FLOW-FLOW MEASURING DEVICES	Hot Wire Anemometer	Using Hot wire Anemometer, Wind Tunnel & Digital Multimeter by Comparison Method as per ISO 3966: 2008	3 m/s to 27 m/s	3.4 %
3	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Force Push Pull Gauge	Using Newton Weights & Fixture as per VDI/VDE 2624 (Part-2.1): 2008	0.2 N to 500 N	0.5 %
4	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Speed for Material Testing Machine and Speed of Crosshead travel of Uniaxial Testing Machine	Using Digmatic Height Gauge and Stop Watch as per ASTM 2658 - 2015	0 to 500 mm/min	2.1 mm/min



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Site Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Linear Measurement of Travel of UTM Crosshead (Encoder), Crosshead Travel of Material Testing Machine	Using Digimatic Height Gauge by Comparison Method as per ASTM E 2309 / E 2309 M - 2020	0 to 500 mm	307.7 µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Long travel Extensometer (L.C.: 1 µm)	Using Digimatic Height Gauge with Jig and Accessories by Comparison Method as per ASTM E83- 2023, IS 12872: 2021, ISO 9513: 2012	0 to 550 mm	115.3 µm
3	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Force Push Pull Gauge	Using Newton Weights & Fixture as per VDI/VDE 2624 (Part-2.1): 2008	0.2 N to 500 N	0.5 %
4	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Force Measurement in Creep Testing Machine - Tension	Using Loadcell with Indicator as per ASTM E4 -16.	10 kN to 100 kN	0.60 %



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5	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Force Measurement in Creep testing Machine - Tension	Using Loadcell with Indicator as per IS1828 Part-2: 2022, ISO 7500:2- 2020	0.001 kN to 100 kN	0.60 %
6	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Testing Machine, CTM, Load Testing in Compression Mode	Using Standard Weights as per ASTM E4 -16	0.02 N to 20 N	0.45 %
7	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Testing Machine, CTM, Load Testing Machine in Compression Mode	Using Standard Weights as per IS 1828- Part 1-2022	0.02 N to 20 N	0.45 %
8	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Testing Machine, CTM, Load Testing Machine in Compression Mode	Using Loadcell with Indicator as per IS 1828 (Part-1):2022	1 kN to 1000 kN	0.45 %
9	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Testing Machine, CTM, Load Testing Machine in Compression Mode	Using Loadcell with Indicator as per ASTM E4-16	100 kN to 1000 kN	0.45 %



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10	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Testing Machine, TTM, Load Testing Machine - Tension	Using Dead Weights as per IS 1828- PART 1 - 2022.	0.02 N to 20 N	0.45 %
11	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Testing Machine, TTM, Load Testing Machine - Tension	Using Dead Weights as per ASTM E4 -16	0.02 N to 20 N	0.45 %
12	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Testing Machine, TTM, Load Testing Machine in Tension Mode	Using Loadcell with Indicator as per IS 1828 (Part -1) :2022	1 kN to 1000 kN	0.45 %
13	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Testing Machine, TTM, Load Testing Machine in Tension Mode	Using Loadcell with Indicator as per ASTM E4-16	10 kN to 1000 kN	0.45 %
14	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Speed for Material Testing Machine and Speed of Crosshead travel of Uniaxial Testing Machine	Using Digmatic Height Gauge and Stop Watch as per ASTM 2658 - 2015	0 to 500 mm/min	2.1 mm/min



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

