



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

FS CALIBRATION & TECHNOLOGIES LLP (A DIVISION OF FINE SERVICES), S NO 682/1, BUILDING NO. - A20, FLAT NO. 2, RAMNAGAR HSG COMPLEX, LANDEWADI BHOSARI, PUNE, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3913

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Validity

05/05/2024 to 04/05/2026

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)	Extensometer (All Clip on type, Video & Laser) Electronic / Mechanical (Up to 500 mm Gauge Length) (L.C. : 0.0001 mm)	Using Extensometer Calibration Fixture with Digital Dial Indicator as per IS 12872, ISO 9513 & ASTM E83	0 to 2 mm	3 µm
2	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Linear measurement of Travel of UTM Crosshead travel (Encoder), Crosshead travel of Spring Testing Machine & Long Travel Extensometer (L.C.: 0.01 mm)	By using Digital Height Gauge by comparison method as per ASTM E 2309	0 to 600 mm	50 µm
3	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Verification of Reticle & Magnification of Microscope	By using Glass Scale & Eye Piece as per ASTM E-1951	10 X to 1000 X	1 %
4	MECHANICAL-HARDNESS TESTING MACHINES	Indirect Verification of Brinell Hardness Testing Machine	Using Standard Hardness Test Blocks as per IS 1500 (Part 2) : 2021 / ISO 6506 (Part 2) : 2017 & ASTM E 10 : 2023	HBW 10/1000	1.56 %



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5	MECHANICAL-HARDNESS TESTING MACHINES	Indirect Verification of Brinell Hardness Testing Machine	Using Standard Hardness Test Blocks as per IS 1500 (Part 2) : 2021 / ISO 6506 (Part 2) : 2017 and ASTM E 10 : 2023	HBW 10/3000	1.40 %
6	MECHANICAL-HARDNESS TESTING MACHINES	Indirect Verification of Brinell Hardness Testing Machine	Using Standard Hardness Test Blocks as per IS 1500 (Part 2) : 2021 / ISO 6506 (Part 2) : 2017 & ASTM E 10 : 2023	HBW 10/500	2.74 %
7	MECHANICAL-HARDNESS TESTING MACHINES	Indirect Verification of Brinell Hardness Testing Machine	Using Standard Hardness Test Blocks as per IS 1500 (Part 2) : 2021 / ISO 6506 (Part 2) : 2017 & ASTM E 10 : 2023	HBW 2.5/187.5	1.74 %
8	MECHANICAL-HARDNESS TESTING MACHINES	Indirect Verification of Brinell Hardness Testing Machine	Using Standard Hardness Test Blocks as per IS 1500 (Part 2) : 2021 / ISO 6506 (Part 2) : 2017 & ASTM E 10 : 2023	HBW 5/250	1.70 %



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9	MECHANICAL-HARDNESS TESTING MACHINES	Indirect Verification of Brinell Hardness Testing Machine	Using Standard Hardness Test Blocks as per IS 1500 (Part 2) : 2021 / ISO 6506 (Part 2) : 2017 & ASTM E 10 : 2023	HBW 5/750	1.35 %
10	MECHANICAL-HARDNESS TESTING MACHINES	Indirect Verification of Micro Vickers Hardness Testing Machine	Using Standard Hardness Test Blocks as per IS 1501 - 2 : 2020, ISO 6507 - 2 : 2018 & ASTM E 384 : 2023	HV 0.3	4.65 %
11	MECHANICAL-HARDNESS TESTING MACHINES	Indirect Verification of Micro Vickers Hardness Testing Machine	Using Standard Hardness Test blocks as per IS 1501-2 : 2020, BS EN ISO 6507-2 : 2018 & ASTM E 384 : 2023	HV 0.5	3.84 %
12	MECHANICAL-HARDNESS TESTING MACHINES	Indirect Verification of Micro Vickers Hardness Testing Machine	Using Standard Hardness Test Blocks as per IS 1501-2 : 2020, ISO 6507-2 : 2018 & ASTM E 384 : 2023	HV 1	3.39 %



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13	MECHANICAL-HARDNESS TESTING MACHINES	Indirect Verification of Rockwell Hardness Testing Machine	Using Standard Hardness Test Blocks as per IS 1586-2 : 2018 / ISO 6508-2 : 2015 & ASTM E 18 : 2022	HRA	0.7 HRA
14	MECHANICAL-HARDNESS TESTING MACHINES	Indirect Verification of Rockwell Hardness Testing Machine	Using Standard Hardness Test Blocks as per IS 1586-2 : 2018, ISO 6508-2 : 2015 & ASTM E 18 : 2022	HRBW	1.15 HRBW
15	MECHANICAL-HARDNESS TESTING MACHINES	Indirect Verification of Rockwell Hardness Testing Machine	Using Standard Hardness Test Blocks as per IS 1586-2 : 2018 / ISO 6508-2 : 2015 & ASTM E 18 : 2022	HRC	0.5 HRC
16	MECHANICAL-HARDNESS TESTING MACHINES	Indirect Verification of Superficial Rockwell Hardness Testing Machine	Using Standard Hardness Test Blocks as per IS 1586-2 : 2018, ISO 6508-2 : 2015 & ASTM E 18 : 2022	HR30N	0.85 HR30N
17	MECHANICAL-HARDNESS TESTING MACHINES	Indirect Verification of Superficial Rockwell Hardness Testing Machine	Using Standard Hardness Test Blocks as per IS 1586-2 : 2018 / ISO 6508-2 : 2015 & ASTM E 18 : 2022	HR15N	0.92 HR15N



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18	MECHANICAL-HARDNESS TESTING MACHINES	Indirect Verification of Superficial Rockwell Hardness Testing Machine	Using Standard Hardness Test Blocks as per IS 1586-2 : 2018, ISO 6508-2 : 2015 & ASTM E 18 : 2022	HR45N	0.85 HR45N
19	MECHANICAL-HARDNESS TESTING MACHINES	Indirect Verification of Vickers Hardness Testing Machine	Using Standard Hardness Test Blocks as per IS 1501-2 : 2020, ISO 6507-2 : 2018 & ASTM E92 : 2023	HV 10	1.85 %
20	MECHANICAL-HARDNESS TESTING MACHINES	Indirect Verification of Vickers Hardness Testing Machine	Using Standard Hardness Test Blocks as per IS 1501-2 : 2020, ISO 6507-2 : 2018 & ASTM E92 : 2023	HV 30	2.16 %
21	MECHANICAL-HARDNESS TESTING MACHINES	Indirect Verification of Vickers Hardness Testing Machine	Using Standard Hardness Test Blocks as per IS 1501-2 : 2020, ISO 6507-2 : 2018 & ASTM E92 : 2023	HV5	3.29 %



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22	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Test Force of Brinell Hardness Testing Machine	Using Class 0.5 / Class 1 / Class AA / Class A Force Proving Instrument & Load Cell as per IS 1500 (Part 2) : 2021 / ISO 6506 (Part 2) & ASTM E 10 : 2015	612.9 N to 29420 N	0.69 %
23	MECHANICAL-IMPACT TESTING MACHINE	Direct / Indirect Verification of Charpy Impact Testing Machine	Using Inclinomater, Load cell, Spirit level, Measuring Tape, Stop Watch & Gauges as per ISO 148-2 : 2016 & ASTM E23 : 2023	0 to 500 J	0.40 %
24	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Speed of Crosshead Travel of Uniaxial Testing Machine	Using Stop Watch as per ASTM E 2658	20 mm/min to 200 mm/min	0.55 mm/min
25	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Static Uniaxial Testing Machine (Universal, Compression, Load, Spring Testing Machine, Force Measuring system) (Compression mode)	Using Class AA / Class A, Load cells as per ASTM E4	5 kN to 1000 KN	0.37 %



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26	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Static Uniaxial Testing Machine (Universal, Compression, Load, Spring Testing Machine, Force Measuring system) (Tension mode)	Using Class A / AA, Class 0.5 / Class 1 Dynamometers & Load cells as per IS 1828-I & ISO 7500-I & ASTM E4	500 N to 100 KN	0.55 %

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