



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

FUEL INSTRUMENTS AND ENGINEERS PRIVATE LIMITED, PLOT NO. 68 TO 89,
PARVATI CO - OPERATIVE INDUSTRIAL ESTATE, YADRAV, ICHALKARANJLI,
KOLHAPUR, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

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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)	Extensometer (Clip on Type, Video & Laser) - Travel Length (Electronic / Mechanical) - (L.C.: 0.0001 mm)	Using Extensometer Calibration Fixture with Plunger Dial by Comparison Method as per IS 12872: 2021, ISO 9513: 2012, ASTM E83-23	0 to 25 mm	2.4 µm
2	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Long Travel Extensometer (Clip on Type, Video & Laser) - Travel Length (Electronic / Mechanical) - (L.C.: 0.001 mm)	Using Extensometer Calibration Fixture with Draw Wire Encoder Length Measuring Machine by Comparison Method as per IS 12872: 2021, ISO 9513: 2012, ASTM E83-23	0 to 600 mm	10 µm
3	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1500-2: 2021, ISO 6506-2: 2017, ASTM E10-23	HBW 10/3000	1.7 %



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4	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1500-2: 2021, ISO 6506-2: 2017, ASTM E10-23	HBW 2.5/187.5	1.7 %
5	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1500-2: 2021, ISO 6506-2: 2017, ASTM E10-23	HBW 5/250	1.95 %
6	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1500-2: 2021, ISO 6506-2: 2017	HBW 10/1000	1.95 %
7	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1500-2: 2021, ISO 6506-2: 2017	HBW 10/500	2.41 %



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8	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1500-2: 2021, ISO 6506-2: 2017, ASTM E10-23	HBW 5/750	1.84 %
9	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine - Indentation Measuring System	Using Glass Scale by Comparison Method as per IS 1500-2: 2021, ISO 6506-2: 2017, ASTM E10-24	0 to 5 mm	2.33 µm
10	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine - Test Force	Using Load Cell with Indicator by Direct Method as per IS 1500-2: 2021, ISO 6506-2: 2017, ASTM E10-23	1838.8 N to 29420 N	0.4 %
11	MECHANICAL-HARDNESS TESTING MACHINES	Hardness Tester (All Types) - Testing Cycle	Using Stop Watch by Comparison Method as per IS 1586-2: 2025, ISO 6508-2: 2023, ASTM E18-24, IS 1500-2: 2021, ISO 6506-2: 2017, ASTM E10-24, IS: 1501-2: 2025, ISO 6507-2: 2023, ASTM E384-24, ASTM E92-24	Up to 180 second	1 second



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12	MECHANICAL-HARDNESS TESTING MACHINES	Microvicker Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1501-2: 2020, ISO 6507-2: 2018, ASTM E384-22	HV 0.2	4.45 %
13	MECHANICAL-HARDNESS TESTING MACHINES	Microvicker Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1501-2: 2020, ISO 6507-2: 2018, ASTM E384-22	HV 0.3	3.6 %
14	MECHANICAL-HARDNESS TESTING MACHINES	Microvicker Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1501-2: 2020, ISO 6507-2: 2018, ASTM E384-22	HV 0.5	3.5 %
15	MECHANICAL-HARDNESS TESTING MACHINES	Microvicker Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1501-2: 2020, ISO 6507-2: 2018, ASTM E384-22	HV 1	3.3 %



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16	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586-2: 2025, ISO 6508-2: 2023, ASTM E18-24	HR15N	0.87 HR15N
17	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586-2: 2025, ISO 6508-2: 2023, ASTM E18-24	HRA	0.68 HRA
18	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586-2: 2025, ISO 6508-2: 2023, ASTM E18-24	HRBW	0.84 HRBW
19	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586-2: 2025, ISO 6508-2: 2023, ASTM E18-24	HRC	0.59 HRC



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20	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine - Hysteresis (Recovery)	Using Readout of Rockwell Hardness Tester as per IS 1586-2: 2025, ISO 6508-2: 2023, ASTM E18-24	130 HR units	0.2 HR units
21	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine - Hysteresis (Recovery)	Using Readout of Rockwell Hardness Tester as per IS 1586-2: 2025, ISO 6508-2: 2023, ASTM E18-24	100 HR units	0.2 HR units
22	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Superficial Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586-2: 2025, ISO 6508-2: 2023, ASTM E18-24	HR15TW	1.15 HR15TW
23	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Superficial Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586-2: 2025, ISO 6508-2: 2023, ASTM E18-24	HR30N	1.06 HR30N



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24	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Superficial Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586-2: 2025, ISO 6508-2: 2023, ASTM E18-24	HR30TW	1.13 HR30TW
25	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Superficial Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586-2: 2025, ISO 6508-2: 2023, ASTM E18-24	HR45N	0.95 HR45N
26	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Superficial Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586-2: 2025, ISO 6508-2: 2023, ASTM E18-24	HR45TW	1.17 HR45TW
27	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell, Rockwell Superficial Hardness Tester - Test Force	Using Load Cell with Indicator by Direct Method as per IS 1586-2: 2025, ISO 6508-2: 2023, ASTM E18-24	29.42 N to 1471 N	0.3 %



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28	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1501-2: 2020, ISO 6507-2: 2018, ASTM E92-23	HV 10	1.7 %
29	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1501-2: 2020, ISO 6507-2: 2018, ASTM E92-23	HV 20	1.79 %
30	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1501-2: 2020, ISO 6507-2: 2018, ASTM E92-23	HV 30	1.7 %
31	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1501-2: 2020, ISO 6507-2: 2018, ASTM E92-23	HV 5	3.1 %



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32	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1501-2: 2020, ISO 6507-2: 2018, ASTM E92-23	HV 50	2.7 %
33	MECHANICAL-HARDNESS TESTING MACHINES	Vickers, Micro - Vickers Hardness Tester - Test Force	Using Load Cell with Indicator by Direct Method as per IS 1501-2: 2020, ISO 6507-2: 2018, ASTM E384-22, ASTM E92-23	1.961 N to 980.7 N	0.3 %
34	MECHANICAL-HARDNESS TESTING MACHINES	Vickers, Micro Vickers Hardness Testing Machine - Indentation Measuring System	Using Glass Scale, Stage Micrometer by Comparison Method as per IS 1501-2: 2020, ISO 6507-2: 2018, ASTM E384-22, ASTM E92-23	0 to 2 mm	1.51 µm
35	MECHANICAL-IMPACT TESTING MACHINE	Charpy Impact Testing Machine	Using Load Cell with Indicator, Impact Testing Kit by Direct and Indirect Method as per ISO 148-2: 2016, ASTM E23-18	Up to 750 J	0.6 %



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36	MECHANICAL-IMPACT TESTING MACHINE	Izod Impact Testing Machine	Using Load Cell with Indicator, Impact Testing Kit by Direct Method as per BS 131-4: 1972	Up to 170 J	0.5 %
37	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Cross Head Travel of Uniaxial Testing Machine - Displacement	Using Draw Wire Encoder and Indicator by Comparison Method as per ASTM E2309	0 to 600 mm	90 μ m
38	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Crosshead Travel of Uniaxial Testing Machine - Speed	Using Stop Watch, Draw Wire Encoder and Indicator by Comparison Method as per ASTM E2658	0 to 600 mm/min	0.5 mm/min
39	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Static Uniaxial Testing Machine, Universal Testing Machine, Compression Testing Machine, Load Testing Machine, Spring Testing Machine - Compression Mode	Using Force Proving Instruments, Load Cell with Indicator by Comparison Method as per IS 1828-1: 2022, ISO 7500-1: 2018	100 N to 3000 kN	0.25 %



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40	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing Machine, Compression Testing Machine, Load Testing Machine, Spring Testing Machine - Compression Mode	Using Force Proving Instruments, Load Cell with Indicator by Comparison Method as per ASTM E4	10 N to 1000 kN	0.25 %

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