



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

Laboratory Name      ABS INSTRUMENTS PVT LTD, UNIT 21, BLOCK 1, SIDCO ELECTRONICS COMPLEX, THIRU-VI-KA, INDUSTRIAL ESTATE, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard      ISO/IEC 17025:2017

Certificate Number      CC-2107      Page No. :      1 / 7

Validity      24/02/2019 to 23/02/2021      Last Amended on      14/03/2019

S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
<b>Permanent Facility</b>					
1	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Verification and calibration of Extensometer, Deflection Gauge and COD gauge	0 mm to 50 mm	0.008mm	Using Imported Calibration jig, As per IS 12872/ ISO 9513/ ASTM E 83
2	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Verification and calibration of Extensometer, Deflection Gauge and COD gauge	0 mm to 500 mm	0.025mm	Using Imported Calibration jig and Linear Length Measuring Instruments, As per IS 12872/ ISO 9513/ ASTM E 83
3	MECHANICAL-DUROMETER	Verification and Calibration of Shore A and D	0 Shore to 100 Shore	0.20Shore	Using Calibrator, Weigh Balance and Loadcell, As per ASTM D 2240/ ISO 18898
4	MECHANICAL-DUROMETER	Verification and Calibration of Shore A/B/O/D/C/DO/OO/OO O ( Indenter travel distance)	0 Shore to 100 Shore	0.32Shore	Using Digital Displacement Measurement Instruments, As per ASTM D2240-05 / ISO 18898
5	MECHANICAL-HARDNESS TESTING MACHINES	Verification and Calibration of Shore A/B/O/D/C/Do (Spring Force)	0 Shore A/B/O/D/C/DO to 100 ShoreA/B/O/D/C/DO	0.20ShoreA/B/O/D/C/D O	Using Imported Shore Calibrator, Weighing Balance, As per ASTM D 2240/ ISO 18898



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Certificate Number CC-2107 Page No. : 2 / 7

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<b>Site Facility</b>					
1	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Verification and calibration of Extensometer, Deflection Gauge and COD gauge	0 mm to 50 mm	0.008mm	Using Imported Calibration jig, As per IS 12872/ ISO 9513/ ASTM E 83
2	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Verification and calibration of Extensometer, Deflection Gauge and COD gauge	0 mm to 500 mm	0.025mm	Using Imported Calibration jig and Linear Length Measuring Instruments, As per IS 12872/ ISO 9513/ ASTM E 83
3	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Verification of Displacement System used in the Testing Machine	0 mm to 500 mm	0.025mm	Using Imported Linear Length Measuring Instruments, As per ASTM E 2309-05/ ISO 9513
4	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Verification of Test Speed of Testing Machine	0 mm/min to 1000 mm/min	0.1mm/min	Using Imported Linear Length Measuring Instruments and stop watch, As per ASTM E 2658
5	MECHANICAL-HARDNESS TESTING MACHINES	Direct Verification of Brinell Hardness Tester	Test Force 1.839 kN to 29.42 kN	0.5%	Using force Proving Devices & Load cells, As per IS 1500 (Part2)/ ISO 6506 -2
6	MECHANICAL-HARDNESS TESTING MACHINES	Direct Verification of Brinell Hardness Tester Measuring Devices L.C.0.01mm	0 mm to 7 mm	0.008mm	Using Stage Micrometer Glass Scale, As per IS 1500 (Part2)/ ISO 6506-2



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Certificate Number CC-2107 Page No. : 3 / 7

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7	MECHANICAL- HARDNESS TESTING MACHINES	Direct Verification of Rockwell Hardness Tester Test force of Rockwell Hardness Tester & Superficial Hardness Tester	Pre Load 29.42 N to 98.07 N	0.5%	Using Imported Load Cell, As per IS 1586 (Part 2): ISO 6508 - 2
8	MECHANICAL- HARDNESS TESTING MACHINES	Direct Verification of Rockwell Hardness Tester Test force of Rockwell Hardness Tester & Superficial Hardness Tester	Total Load 147.1 N to 1471.0 N	0.5%	Using Imported Load Cell, As per IS 1586 (Part 2): ISO 6508 - 2
9	MECHANICAL- HARDNESS TESTING MACHINES	Direct Verification of Vickers & Micro Vickers Hardness Tester	0.49033 N to 490.33 N	0.5%	Using Imported Load Cells, As per IS 1501 (Part2)/ ISO 6507
10	MECHANICAL- HARDNESS TESTING MACHINES	Gel Capsule Hardness Tester Force Verification	0 N to 20 N	0.32%	Using Load Cells
11	MECHANICAL- HARDNESS TESTING MACHINES	Indirect Verification of Brinell Hardness Tester	125 HBW 10/3000 to 600 HBW 10/3000	2.0%	Using Calibrated Standard Test Blocks, As per IS 1500(Part2)/ ISO 6507/ ASTM E10
12	MECHANICAL- HARDNESS TESTING MACHINES	Indirect Verification of Brinell Hardness Tester	125 HBW 2.5/187.5 to 600 HBW 2.5/187.5	2.0%	Using Calibrated Standard Test Blocks, As per IS 1500(Part2)/ ISO 6507/ ASTM E10
13	MECHANICAL- HARDNESS TESTING MACHINES	Indirect Verification of Brinell Hardness Tester	125 HBW 5/750 to 600 HBW 5/750	2.0%	Using Calibrated Standard Test Blocks, As per IS 1500(Part2)/ ISO 6507/ ASTM E10



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Certificate Number CC-2107 Page No. : 4 / 7

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14	MECHANICAL- HARDNESS TESTING MACHINES	Indirect Verification of Micro Vickers and Vickers Hardness Tester	200 HV0.3 to 800 HV0.3	2.0%	Using Calibrated Test Blocks, As per IS 1501(Part 2)/ ISO 6507-2/ ASTM E384/ ASTM E92
15	MECHANICAL- HARDNESS TESTING MACHINES	Indirect Verification of Micro Vickers and Vickers Hardness Tester	200 HV0.5 to 800 HV0.5	2.0%	Using Calibrated Test Blocks, As per IS 1501(Part 2)/ ISO 6507-2/ ASTM E384/ ASTM E92
16	MECHANICAL- HARDNESS TESTING MACHINES	Indirect Verification of Micro Vickers and Vickers Hardness Tester	200 HV1 to 800 HV1	2.0%	Using Calibrated Test Blocks, As per IS 1501(Part 2)/ ISO 6507-2/ ASTM E384/ ASTM E92
17	MECHANICAL- HARDNESS TESTING MACHINES	Indirect Verification of Micro Vickers and Vickers Hardness Tester	200 HV10 to 800 HV10	2.0%	Using Calibrated Test Blocks, As per IS 1501(Part 2)/ ISO 6507-2/ ASTM E384/ ASTM E92
18	MECHANICAL- HARDNESS TESTING MACHINES	Indirect Verification of Micro Vickers and Vickers Hardness Tester	200 HV20 to 800 HV20	2.0%	Using Calibrated Test Blocks, As per IS 1501(Part 2)/ ISO 6507-2/ ASTM E384/ ASTM E92
19	MECHANICAL- HARDNESS TESTING MACHINES	Indirect Verification of Micro Vickers and Vickers Hardness Tester	200 HV30 to 800 HV30	2.0%	Using Calibrated Test Blocks, As per IS 1501(Part 2)/ ISO 6507-2/ ASTM E384/ ASTM E92



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20	MECHANICAL-HARDNESS TESTING MACHINES	Indirect Verification of Micro Vickers and Vickers Hardness Tester	200 HV5 to 800 HV5	2.0%	Using Calibrated Test Blocks, As per IS 1501(Part 2)/ ISO 6507-2/ ASTM E384/ ASTM E92
21	MECHANICAL-HARDNESS TESTING MACHINES	Indirect Verification of Micro Vickers and Vickers Hardness Tester	200 HV50 to 800 HV50	2.0%	Using Calibrated Test Blocks, As per IS 1501(Part 2)/ ISO 6507-2/ ASTM E384/ ASTM E92
22	MECHANICAL-HARDNESS TESTING MACHINES	Indirect Verification of Rockwell Hardness Tester	12 HR45T(W) to 72 HR45T(W)	0.86HR45T(W)	Using Calibrated Standard Test Blocks, As per IS1586 (Part 2)/ ISO 6508-2/ ASTM E18
23	MECHANICAL-HARDNESS TESTING MACHINES	Indirect Verification of Rockwell Hardness Tester	20 HR45N to 70 HR45N	0.60HR45N	Using Calibrated Standard Test Blocks, As per IS1586 (Part 2)/ ISO 6508-2/ ASTM E18
24	MECHANICAL-HARDNESS TESTING MACHINES	Indirect Verification of Rockwell Hardness Tester	20 HRA to 90 HRA	0.43HRA	Using Calibrated Standard Test Blocks, As per IS1586 (Part 2)/ ISO 6508-2/ ASTM E18
25	MECHANICAL-HARDNESS TESTING MACHINES	Indirect Verification of Rockwell Hardness Tester	20 HRB(W) to 100 HRB(W)	0.89HRB(W)	Using Calibrated Standard Test Blocks, As per IS1586 (Part 2)/ ISO 6508-2/ ASTM E18
26	MECHANICAL-HARDNESS TESTING MACHINES	Indirect Verification of Rockwell Hardness Tester	20 HRC to 70 HRC	0.50HRC	Using Calibrated Standard Test Blocks, As per IS1586 (Part 2)/ ISO 6508-2/ ASTM E18



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27	MECHANICAL- HARDNESS TESTING MACHINES	Indirect Verification of Rockwell Hardness Tester	42 HR30N to 80 HR30N	0.53HR30N	Using Calibrated Standard Test Blocks, As per IS1586 (Part 2)/ ISO 6508-2/ ASTM E18
28	MECHANICAL- HARDNESS TESTING MACHINES	Indirect Verification of Rockwell Hardness Tester	43 HR30T(W) to 82 HR30T(W)	0.94HR30T(W)	Using Calibrated Standard Test Blocks, As per IS1586 (Part 2)/ ISO 6508-2/ ASTM E18
29	MECHANICAL- HARDNESS TESTING MACHINES	Indirect Verification of Rockwell Hardness Tester	70 HR15N to 91 HR15N	0.61HR15N	Using Calibrated Standard Test Blocks, As per IS1586 (Part 2)/ ISO 6508-2/ ASTM E18
30	MECHANICAL- HARDNESS TESTING MACHINES	Indirect Verification of Rockwell Hardness Tester	73 HR15T(W) to 93 HR15T(W)	0.80HR15T(W)	Using Calibrated Standard Test Blocks, As per IS1586 (Part 2)/ ISO 6508-2/ ASTM E18
31	MECHANICAL- HARDNESS TESTING MACHINES	Indirect Verification of Rockwell Hardness Tester	86 HR15Y(W) to 98 HR15Y(W)	1.03HR15Y(W)	Using Calibrated Standard Test Blocks, As per ASTM E18
32	MECHANICAL- HARDNESS TESTING MACHINES	Indirect Verification of Rockwell Hardness Tester	86 HR30Y(W) to 98 HR30Y(W)	1.03HR30Y(W)	Using Calibrated Standard Test Blocks, As per ASTM E18
33	MECHANICAL- HARDNESS TESTING MACHINES	Verification and Calibration of IRHD Hardness Tester, IRHD Micro	Minor Load 8.3 mN to Total Load 153 mN	0.2mN	Using Weighing Balance and Imported Load Cell, As per ISO 18898, ISO 48 & ASTM D 1415
34	MECHANICAL- HARDNESS TESTING MACHINES	Verification and Calibration of IRHD Hardness Tester, IRHD/Normal/Soft/Hard	Minor Load 0.3 N to Total Load 5.7 N	0.5mN	Using Weighing Balance and Imported Load Cell, As per ISO 18898, ISO 48 & ASTM D 1415



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35	MECHANICAL- HARDNESS TESTING MACHINES	Verification and Calibration of Shore A/B/O/D/C/Do (Spring Force)	0 ShoreA/B/O/D/C/DO to 100 ShoreA/B/O/D/C/DO	0.20ShoreA/B/O/D/C/D O	Using Imported Shore Calibrator, Weighing Balance, As per ASTM D 2240/ ISO 18898
36	MECHANICAL- IMPACT TESTING MACHINE	Verification of Charpy/ IZOD Impact Testing Machine	0 J to 450 J	0.73%	Using Clinometer, Load Cell, Measuring Tape and other Measuring Instruments, As per ISO 148-2/ IS 3766/ BS 131/, ASTM E 23/ ASTM D 256/ D 6110/ ISO 13802
37	MECHANICAL- UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification Force Measuring System in Compression Mode	20 kN to 1000 kN	0.2%	Using Dynamometer and Imported Load cells, As per ASTM E4
38	MECHANICAL- UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification Force Measuring System in Compression Mode	5 N to 1000 kN	0.2%	Using Dynamometer and Imported Load cells, As per IS 1828 (Part 1)/ ISO 7500-1
39	MECHANICAL- UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification Force Measuring System in Compression Mode	5 N to 5000 kN	0.2%	Using Dynamometer and Imported Load cells, As per IS 1828 (Part 1)/ ISO 7500-1
40	MECHANICAL- UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification Force Measuring System in Tension Mode	5 N to 1000 kN	0.2%	Using Dynamometer and Imported Load cells, As per IS 1828 (Part 1)/ ISO 7500-1