



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : HITECH INDIA EQUIPMENTS PRIVATE LIMITED, 26/91, KARPAGAM AVENUE 3RD STREET, RAJA ANNAMALAI PURAM, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2582 **Page No** 1 of 9

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 10/11/2023

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 (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer (All Clip on type Electronic)/ L.C: 0.0001 mm	Using Gauge Calibrator by Comparison method as per IS 12872	0 to 10 mm	3.5 µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Verification and classification of Extensometer	Using Gauge Calibrator by Comparison Method as per ASTM E83	0 to 10 mm	3.5 µm
3	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness	Using Standard Hardness blocks as per IS 1500 by Indirect Method	HBW 10/3000	2.5 %
4	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness	Using Standard Hardness Blocks as per ASTM - E10 by Indirect Method	HBW 10/3000	3.12 %
5	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness	Using Standard Hardness blocks as per IS 1500 by Indirect Method	HBW 10/500	2.5 %
6	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness	Using Standard Hardness Blocks as per ASTM - E10 by Indirect Method	HBW 10/500	2.64 %



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2582 **Page No** 2 of 9

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 10/11/2023

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7	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness	Using Standard Hardness blocks as per IS 1500 by Indirect Method	HBW 2.5/187.5	2.5%
8	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness	Using Standard Hardness Blocks as per ASTM - E10 by Indirect Method	HBW 2.5/187.5	3.89 %
9	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness	Using Standard Hardness blocks as per IS 1500 by Indirect Method	HBW 5/250	2.5 %
10	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness	Using Standard Hardness Blocks as per ASTM - E10 by Indirect Method	HBW 5/250	3.96 %
11	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness	Using Standard Hardness blocks as per IS 1500 by Indirect Method	HBW 5/750	2.5 %
12	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness	Using Standard Hardness Blocks as per ASTM - E10 by Indirect Method	HBW 5/750	3.59 %
13	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness	Using Standard Hardness Blocks as per ASTM E18 by Indirect Method	HRA	0.64 HRA



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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2582	Page No	3 of 9
Validity	14/02/2023 to 13/02/2025	Last Amended on	10/11/2023

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14	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness	Using Standard Hardness blocks as per IS 1586 by Indirect Method	HRA	1 HRA
15	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness	Using Standard Hardness Blocks as per ASTM E18 by Indirect Method	HRBW	0.74 HRBW
16	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness	Using Standard Hardness blocks as per IS 1586 by Indirect Method	HRBW	1.25 HRBW
17	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness	Using Standard Hardness Blocks as per ASTM E18 by Indirect Method	HRC	0.70 HRC
18	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness	Using Standard Hardness blocks as per IS 1586 by Indirect Method	HRC	1.25 HRC
19	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Superficial Hardness	Using Standard Hardness Blocks as per ASTM - E18 by Indirect Method	HR 15N	1.09 HR 15N
20	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Superficial Hardness	Using Standard Hardness Blocks as per ASTM-E18 by Indirect Method	HR 15TW	1.04 HR TW



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2582 **Page No** 4 of 9

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 10/11/2023

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)(±)
21	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Superficial Hardness	Using Standard Hardness Blocks as per ASTM - E18 by Indirect Method	HR 30N	0.70 HR 30N
22	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Superficial Hardness	Using Standard Hardness Blocks as per ASTM-E18 by Indirect Method	HR 30TW	1.45 HR 30TW
23	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Superficial Hardness	Using Standard Hardness Blocks as per ASTM-E18 by Indirect Method	HR 45N	0.82 HR 45N
24	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Superficial Hardness	Using Standard Hardness Blocks as per ASTM-E18 by Indirect Method	HR 45TW	1.51 HR 45TW
25	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Superficial Hardness	Using Standard Hardness blocks as per IS 1586 by Indirect Method	HR15N	1.5HR15N
26	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Superficial Hardness	Using Standard Hardness blocks as per IS 1586 by Indirect Method	HR15TW	1.5HR15TW
27	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Superficial Hardness	Using Standard Hardness blocks as per IS 1586 by Indirect Method	HR30N	1.5HR30N



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2582 **Page No** 5 of 9

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 10/11/2023

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28	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Superficial Hardness	Using Standard Hardness blocks as per IS 1586 by Indirect Method	HR30TW	1.5HR30TW
29	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Superficial Hardness	Using Standard Hardness blocks as per IS 1586 by Indirect Method	HR45N	1.5HR45N
30	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Superficial Hardness	Using Standard Hardness blocks as per IS 1586 by Indirect Method	HR45TW	1.5HR45TW
31	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness	Using Standard Hardness Blocks as per ASTM E384 by Indirect Method	HV 0.3	4.22 %
32	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness	Using Standard Hardness blocks as per IS 1501 by Indirect Method	HV 0.3	4.87 %
33	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness	Using Standard Hardness Blocks as per ASTM E384 by Indirect Method	HV 0.5	3.31 %
34	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness	Using Standard Hardness blocks as per IS 1501 by Indirect Method	HV 0.5	4.74 %



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2582 **Page No** 6 of 9

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 10/11/2023

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35	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness	Using Standard Hardness Blocks as per ASTM E384 by Indirect Method	HV 1	1.7 %
36	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness	Using Standard Hardness Blocks as per ASTM E384 by Indirect Method	HV 10	1.84 %
37	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness	Using Standard Hardness blocks as per IS 1501 by Indirect Method	HV 10	2.2 %
38	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness	Using Standard Hardness Blocks as per ASTM E384 by Indirect Method	HV 30	1.68 %
39	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness	Using Standard Hardness blocks as per IS 1501 by Indirect Method	HV 30	2.2 %
40	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness	Using Standard Hardness Blocks as per ASTM E384 by Indirect Method	HV 5	1.94 %
41	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness	Using Standard Hardness blocks as per IS 1501 by Indirect Method	HV1	1.8%



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2582 **Page No** 7 of 9

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 10/11/2023

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42	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness	Using Standard Hardness blocks as per IS 1501 by Indirect Method	HV5	2.2 %
43	MECHANICAL-IMPACT TESTING MACHINE	IMPACT TESTING MACHINE - Charpy	Using Clinometer, Measuring tape, Load cells and standard reference test pieces (Charpy) By InDirect method as per ISO 148-2/ ASTM E23	Upto 300 J	1.46 %
44	MECHANICAL-IMPACT TESTING MACHINE	Verification of Impact testing machine - Charpy	Using Clinometer, Pushpull gauge, spirit level, gauges, load cell / ASTM - E23 by Direct Method	0 J to 300 J	1.46 %
45	MECHANICAL-IMPACT TESTING MACHINE	Verification of Impact testing machine - CHARPY	Using Clinometer, Push pull gauge, Spirit level, gauges, Load cells / ISO 148 by Direct Method	0 J to 300 J	1.46%
46	MECHANICAL-IMPACT TESTING MACHINE	Verification of Impact testing machine - IZOD	Using Clinometer, Push pull gauge, spirit level, gauges, load cells / IS 3766 by Direct Method	0 J to 170 J	1.3%



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Certificate Number CC-2582 **Page No** 8 of 9

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47	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of UTM, CTM (COMPRESSION)	Using Proving Ring Dynamometer & Load cell by direct method as per ASTM E4	1 kN to 1000 kN	0.13 %
48	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of UTM, CTM (COMPRESSION)	Using Proving Rings, Dynamometer and Load cells as per IS 1828 by Direct Method	1 kN to 1000 kN	0.40%
49	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of UTM, CTM (Compression)	Using Proving Rings Dynamometer & Load cell by direct method as per IS 1828 - Part I	1 kN to 3000 kN	0.39 %
50	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of UTM, TTM (TENSION)	Using Proving Rings and Load cells as per IS 1828 by Direct Method	1 N to 50 kN	0.5%
51	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of UTM/TTM (TENSION)	Using Proving Rings, Dynamometer, Load cells by Direct method as per ASTM - E4	1 N to 50 kN	0.2 %



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Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2582

Page No

9 of 9

Validity

14/02/2023 to 13/02/2025

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

