National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

FINE (MIRASHI) CALIBRATION AND TESTING LABORATORIES LLP

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

FINE MANUFACTURING INDUSTRIES, B-7/12, MIDC AREA, MIRAJ, SANGLI, MAHARASHTRA, INDIA

in the field of

CALIBRATION

Certificate Number: CC-4429

Issue Date: 03/06/2025 **Valid Until:** 02/06/2029

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of thislaboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: FINE (MIRASHI) CALIBRATION AND TESTING LABORATORIES LLP

Signed for and on behalf of NABL

Anita Rani
Director

N. Venkateswaran
Chief Executive Officer

SCOPE OF ACCREDITATION

Laboratory Name :	FINE (MIRASHI) CALIBRATION AND TESTING LABORATORIES LLP, FINE MANUFACTURING INDUSTRIES, B-7/12, MIDC AREA, MIRAJ, SANGLI, MAHARASHTRA, INDIA		
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Permanent Facility					
1	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1500 (Part 2) : 2021, ISO 6506-2 : 2017 and ASTM E10 : 2023	HBW 10/1000	1.5 %
2	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1500 (Part 2) : 2021, ISO 6506-2 : 2017 and ASTM E10 : 2023	HBW 10/3000	1.2 %
3	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1500 (Part 2) : 2021, ISO 6506-2 : 2017 and ASTM E10 : 2023	HBW 10/500	1.57 %

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4	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester	Using Standard Hardness test blocks by indirect method as per IS 1500 (Part 2):2021, ISO 6506-2:2017 and ASTM E10:2023	HBW 2.5/187.5	1.5 %
5	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1500 (Part 2) : 2021, ISO 6506-2 : 2017 and ASTM E10 : 2023	HBW 2.5/62.5	1.5 %
6	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1500 (Part 2) : 2021, ISO 6506-2 : 2017 and ASTM E10 : 2023	HBW 5/250	1.59 %
7	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1500 (Part 2) : 2021, ISO 6506-2 : 2017, ASTM E10 : 2023	HBW 5/750	1.53 %

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8	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Reference Test Block	Using Standardizing Hardness Testing Machine as per IS 1500 (Part 3) : 2019, ISO 6506-3 : 20214 and ASTM E10 : 2023	HBW 10/3000	1.1 %
9	MECHANICAL-HARDNESS TESTING MACHINES	Depth Measuring System of Rockwell Hardness Tester	Using Electronic Probe with DRO as per IS 1586 (Part 2) : 2018, ISO 6508-2 : 2023 and ASTM E18 : 2024	Upto 250 µm	3 µm
10	MECHANICAL-HARDNESS TESTING MACHINES	Diagonal Measuring System of Vickers and Knoop Hardness Tester	Using Glass Scale as per IS 6885 (Part 2 & 3) : 2020, ISO 4545-2 & 3 : 2020 ASTM E92 : 2023, ASTM E384 : 2022, IS 1501 (Part 2 & 3) : 2020 and ISO 6507-2 & 3 : 2023	Upto 1.2 mm	0.86 %
11	MECHANICAL-HARDNESS TESTING MACHINES	Indentation Diameter Measuring System of Brinell Hardness Tester	Using Glass Scale as per IS 1500 (Part 2 & 3) : 2021, ISO 6506-2 & 3 : 2017 and ASTM E10 : 2023	Upto 5 mm	0.31 %

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12	MECHANICAL-HARDNESS TESTING MACHINES	Indirect verification of Rockwell ball indenter	Using Standardising Hardness Testing Machine as per IS 1586 (Part 2):2018, ISO 6508-2:2023 and ASTM E18:2024	HRBW	0.5 HRBW
13	MECHANICAL-HARDNESS TESTING MACHINES	Indirect Verification of Rockwell Diamond Indenter (ACDN)	Using Standardising Hardness Testing Machine as per IS 1586 (Part 2):2018. ISO 6508-2:2023 and ASTM E18:2024	HRA, HRC, HRD, HRN	0.5 HR
14	MECHANICAL-HARDNESS TESTING MACHINES	Knoop Hardness Tester	Using Standard Hardness test blocks by indirect method as per IS 6885 (Part 2):2020, ISO 4545-2:2017, ASTM E92:2023 and ASTM E384:2022	HK 0.2	3.7 %
15	MECHANICAL-HARDNESS TESTING MACHINES	Knoop Hardness Tester	Using Standard Hardness test blocks by indirect method as per IS 6885 (Part 2):2020, ISO 4545-2:20217, ASTM E92:2023 and ASTM E384:2022	HK 0.5	3.5 %

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16	MECHANICAL-HARDNESS TESTING MACHINES	Knoop Reference Test Block	Using Standardising hardness testing machine as per IS 6885 (Part 3):2020, ISO 4545-3:2017, ASTM E92:2023 and ASTM E384:2022	HK 0.2	5.0 %
17	MECHANICAL-HARDNESS TESTING MACHINES	Knoop Reference Test Block	Using Standardising hardness testing machine as per IS 6885 (Part 3):2020, ISO 4545-3:20217, ASTM E92:2023 and ASTM E384:2022	HK 0.5	4.0 %
18	MECHANICAL-HARDNESS TESTING MACHINES	Micro-Vickers Hardness Tester	Using Standard Hardness test blocks by indirect method as per IS 1501 (Part 2):2020, ISO 6507-2:2018 ASTM E92:2023 and ASTM E384:2022	HV 0.05	6.5 %
19	MECHANICAL-HARDNESS TESTING MACHINES	Micro-Vickers hardness Tester	Using Standard Hardness test blocks by indirect method as per IS 1501 (Part 2):2020, ISO 6507-2:20218 ASTM E92:2023 and ASTM E384:2022	HV 0.1	5.5 %

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20	MECHANICAL-HARDNESS TESTING MACHINES	Micro-Vickers Hardness Tester	Using Standard Hardness test blocks by indirect method as per IS 1501 (Part 2):2020, ISO 6507-2:2018 ASTM E92:2023 and ASTM E384:2022	HV 0.2	5.6 %
21	MECHANICAL-HARDNESS TESTING MACHINES	Micro-Vickers Hardness Tester	Using Standard Hardness test blocks by indirect method as per IS 1501 (Part 2):2020, ISO 6507-2:2018 ASTM E92:2023 and ASTM E384:2022	HV 0.3	5.0 %
22	MECHANICAL-HARDNESS TESTING MACHINES	Micro-Vickers Hardness Tester	Using Standard Hardness test blocks by indirect method as per IS 1501 (Part 2):2020, ISO 6507-2:2018 ASTM E92:2023 and ASTM E384:2022	HV 0.5	3.5 %

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23	MECHANICAL-HARDNESS TESTING MACHINES	Micro-Vickers Hardness Tester	Using Standard Hardness test blocks by indirect method as per IS 1501 (Part 2):2020, ISO 6507-2:2018 ASTM E92:2023 and ASTM E384:2022	HV 1	2.5 %
24	MECHANICAL-HARDNESS TESTING MACHINES	Micro-Vickers Reference Test Block	Using Standardising Hardness Testing Machine as per IS 1501 (Part 3):2020. ISO 6507-3:2018, ASTM E92:2023 and ASTM 384:2022	HV 1	2.3 %
25	MECHANICAL-HARDNESS TESTING MACHINES	Micro-Vickers Reference Test Block	Using Standardising Hardness Testing Machine as per IS 1501 (Part 3) : 2020, ISO 6507-3 : 2018, ASTM E92 : 2023 and ASTM 384 : 2022	HV0.05	6.05 %
26	MECHANICAL-HARDNESS TESTING MACHINES	Micro-Vickers Reference Test Block	Using Standardising Hardness Testing Machine as per IS 1501 (Part 3):2020. ISO 6507-3:2018, ASTM E92:2023 and ASTM 384:2022	HV0.1	5.5 %

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27	MECHANICAL-HARDNESS TESTING MACHINES	Micro-Vickers Reference Test Block	Using Standardising Hardness Testing Machine as per IS 1501 (Part 3) : 2020, ISO 6507-3 : 2018, ASTM E92 : 2023 and ASTM 384 : 2022	HV0.2	5.64 %
28	MECHANICAL-HARDNESS TESTING MACHINES	Micro-Vickers Reference Test Block	Using Standardising Hardness Testing Machine as per IS 1501 (Part 3):2020, ISO 6507-3 : 2018, ASTM E92 : 2023 and ASTM 384 : 2022	HV0.3	4.47 %
29	MECHANICAL-HARDNESS TESTING MACHINES	Micro-Vickers Reference Test Block	Using Standardising Hardness Testing Machine as per IS 1501 (Part 3) : 2020, ISO 6507-3 : 2018, ASTM E92 : 2023 and ASTM 384 : 2022	HV0.5	3.21 %

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30	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586 (Part 2) : 2018, ISO 6508-2 : 2023 and ASTM E18 : 2024	HR15N	0.6 HR15N
31	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586 (Part 2) : 2018, ISO 6508-2 : 2023 and ASTM E18 : 2024	HR15TW	0.8 HR15TW
32	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586 (Part 2) : 2018, ISO 6508-2 : 2023 and ASTM E18 : 2024	HR30N	0.6 HR30N

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33	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586 (Part 2) : 2018, ISO 6508-2 : 2023 and ASTM E18 : 2024	HR30TW	0.8 HR30TW
34	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586 (Part 2) : 2018, ISO 6508-2 : 2023 and ASTM E18 : 2024	HR45N	0.6 HR45N
35	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586 (Part 2) : 2018, ISO 6508-2 : 2023 and ASTM E18 : 2024	HR45TW	0.8 HR45TW

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36	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586 (Part 2) : 2018, ISO 6508-2 : 2023 and ASTM E18 : 2024	HRA	0.6 HRA
37	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586 (Part 2) : 2018, ISO 6508-2 : 2023 and ASTM E18 : 2024	HRBW	0.94 HRBW
38	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586 (Part 2) : 2018, ISO 6508-2 : 2023 and ASTM E18 : 2024	HRC	0.52 HRC
39	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Reference Test Block	Using Standardising Hardness Testing Machine as per IS 1586 (Part 3):2018. ISO 6508-3:2023 and ASTM E18:2024	HR15N	0.4 HR15N

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40	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Reference Test Block	Using Standardising Hardness Testing Machine as per IS 1586 (Part 3) : 2018, ISO 6508-3 : 2023 and ASTM E18 : 2024	HR15TW	0.93 HR15TW
41	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Reference Test Block	Using Standardising Hardness Testing Machine as per IS 1586 (Part 3) : 2018, ISO 6508-3 : 2023 and ASTM E18 : 2024	HR30N	0.52 HR30N
42	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Reference Test Block	Using Standardising Hardness Testing Machine as per IS 1586 (Part 3) : 2018, ISO 6508-3 : 2023 and ASTM E18 : 2024	HR30TW	0.94 HR30TW
43	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Reference Test Block	Using Standardising Hardness Testing Machine as per IS 1586 (Part 3) : 2018, ISO 6508-3 : 2023 and ASTM E18 : 2024	HR45N	0.6 HR45N

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44	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Reference Test Block	Using Standardising Hardness Testing Machine as per IS 1586 (Part 3):2018. ISO 6508-3:2023 and ASTM E18:2024	HR45TW	0.9 HR45TW
45	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Reference Test Block	Using Standardising Hardness Testing Machine as per IS 1586 (Part 3):2018. ISO 6508-3:2023 and ASTM E18:2024	HRA	0.4 HRA
46	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Reference Test Block	Using Standardising Hardness Testing Machine as per IS 1586 (Part 3):2018. ISO 6508-3:2023 and ASTM E18:2024	HRBW	0.58 HRBW
47	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Reference Test Block	Using Standardising Hardness Testing Machine as per IS 1586 (Part 3):2018. ISO 6508-3:2023 and ASTM E18:2024	HRC	0.4 HRC
48	MECHANICAL-HARDNESS TESTING MACHINES	Test Force of Brinell Hardness Tester	Using Load Cells as per IS 1500 (Part 2 and Part 3) : 2019, ISO 6506-2 & 3 : 2017 and ASTM E10 : 2023	612.9 N to 29420 N	0.21 %

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49	MECHANICAL-HARDNESS TESTING MACHINES	Test Force of Rockwell Hardness Tester	Using Load Cells as per IS 1586 (Part 2 and Part 3) : 2018, ISO 6508-2 & 3 : 2023 and ASTM E18 : 2024	29.42 N to 1471 N	0.13 %
50	MECHANICAL-HARDNESS TESTING MACHINES	Test Force of Vickers and Knoop Hardness Tester	Using Load Cells as per IS 6885 (Part 2 & 3) : 2020, ISO 4545-2 & 3 : 2017 ASTM E92 : 2023 ASTM E384 : 2022, IS 1501 (Part 2 & 3):2020 and ISO 6507- 2 & 3 : 2018	0.4903 N to 490.3 N	0.25 %
51	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Tester	Using Standard Hardness test blocks by indirect method as per IS 1501 (Part 2):2020, ISO 6507-2:2018 and ASTM E92:2023	HV 10	1.3 %
52	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Tester	Using Standard Hardness test blocks by indirect method as per IS 1501 (Part 2):2020, ISO 6507-2:2018 and ASTM E92:2023	HV 20	1.3 %

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53	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Tester	Using Standard Hardness test blocks by indirect method as per IS 1501 (Part 2):2020, ISO 6507-2:2018 and ASTM E92:2023	HV 30	1.3 %
54	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Tester	Using Standard Hardness test blocks by indirect method as per IS 1501 (Part 2):2020, ISO 6507-2:2018 and ASTM E92:2023	HV 5	1.6 %
55	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Tester	Using Standard Hardness test blocks by indirect method as per IS 1501 (Part 2):2020, ISO 6507-2:2018 and ASTM E92:2023	HV 50	1.3 %
56	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Reference Test Block	Using Standardising Hardness Testing Machine as per IS 1501 (Part 3) : 2020, ISO 6507-3 : 2018 and ASTM E92 : 2023	HV 10	1.02 %

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57	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Reference Test Block	Using Standardising Hardness Testing Machine as per IS 1501 (Part 3):2020. ISO 6507-3:2018 and ASTM E92:2023	HV 20	1.1 %
58	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Reference Test Block	Using Standardising Hardness Testing Machine as per IS 1501 (Part 3) : 2020, ISO 6507-3 : 2018 and ASTM E92 : 2023	HV 30	1.08 %
59	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Reference Test Block	Using Standardising Hardness Testing Machine as per IS 1501 (Part 3) : 2020, ISO 6507-3 : 2018 and ASTM E92 : 2023	HV 5	1.56 %
60	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Reference Test Block	Using Standardising Hardness Testing Machine as per IS 1501 (Part 3) : 2020, ISO 6507-3 : 2018 and ASTM E92 : 2023	HV 50	1.07 %

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61	MECHANICAL-IMPACT TESTING MACHINE	Charpy Impact Testing Machine	Using Inclinometer, Load Cell, Gauges by Direct Method and Indirect Method (for verification only) as per ISO 148-2 : 2016, IS 1757 (Part 2) : 2020 and ASTM E23 : 2024	Upto 500 J	1.03 %
62	MECHANICAL-IMPACT TESTING MACHINE	Izod Impact Testing Machine	Using Inclinometer, Load Cell, Gauges by Direct Method as per BS 131 (Part 4) : 1972, IS 1598 : 2024 and ASTM E23 : 2024	Upto 170 J	0.8 %
63	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Extensometer (L.C.: 0.1 µm or coarser)	Using Extensometer Calibration Fixtue, Electronic Probe and DRO as per IS 12872:2021, ISO 9513:2012 and ASTM E83 : 2023	Upto 10 mm	0.005 mm

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Site Facility					
1	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1500 (Part 2) : 2021, ISO 6506-2 : 2017 and ASTM E10 : 2023	HBW 10/1000	1.5 %
2	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1500 (Part 2) : 2021, ISO 6506-2 : 2017 and ASTM E10 : 2023	HBW 10/3000	1.2 %
3	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1500 (Part 2) : 2021, ISO 6506-2 : 2017 and ASTM E10 : 2023	HBW 10/500	1.57 %

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4	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester	Using Standard Hardness test blocks by indirect method as per IS 1500 (Part 2):2021, ISO 6506-2:2017 and ASTM E10:2023	HBW 2.5/187.5	1.5 %
5	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1500 (Part 2) : 2021, ISO 6506-2 : 2017 and ASTM E10 : 2023	HBW 2.5/62.5	1.5 %
6	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1500 (Part 2) : 2021, ISO 6506-2 : 2017 and ASTM E10 : 2023	HBW 5/250	1.59 %
7	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1500 (Part 2) : 2021, ISO 6506-2 : 2017, ASTM E10 : 2023	HBW 5/750	1.53 %

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8	MECHANICAL-HARDNESS TESTING MACHINES	Depth Measuring System of Rockwell Hardness Tester	Using Electronic Probe with DRO as per IS 1586 (Part 2) : 2018, ISO 6508-2 : 2023 and ASTM E18 : 2024	Upto 250 µm	3 µm
9	MECHANICAL-HARDNESS TESTING MACHINES	Diagonal Measuring System of Vickers and Knoop Hardness Tester	Using Glass Scale as per IS 6885 (Part 2 & 3) : 2020, ISO 4545-2 & 3 : 2020 ASTM E92 : 2023, ASTM E384 : 2022, IS 1501 (Part 2 & 3) : 2020 and ISO 6507-2 & 3 : 2023	Upto 1.2 mm	0.86 %
10	MECHANICAL-HARDNESS TESTING MACHINES	Indentation Diameter Measuring System of Brinell Hardness Tester	Using Glass Scale as per IS 1500 (Part 2 & 3) : 2021, ISO 6506-2 & 3 : 2017 and ASTM E10 : 2023	Upto 5 mm	0.31 %
11	MECHANICAL-HARDNESS TESTING MACHINES	Knoop Hardness Tester	Using Standard Hardness test blocks by indirect method as per IS 6885 (Part 2):2020, ISO 4545-2:2017, ASTM E92:2023 and ASTM E384:2022	HK 0.2	3.7 %

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12	MECHANICAL-HARDNESS TESTING MACHINES	Knoop Hardness Tester	Using Standard Hardness test blocks by indirect method as per IS 6885 (Part 2):2020, ISO 4545-2:20217, ASTM E92:2023 and ASTM E384:2022	HK 0.5	3.5 %
13	MECHANICAL-HARDNESS TESTING MACHINES	Micro-Vickers Hardness Tester	Using Standard Hardness test blocks by indirect method as per IS 1501 (Part 2):2020, ISO 6507-2:2018 ASTM E92:2023 and ASTM E384:2022	HV 0.05	6.5 %
14	MECHANICAL-HARDNESS TESTING MACHINES	Micro-Vickers hardness Tester	Using Standard Hardness test blocks by indirect method as per IS 1501 (Part 2):2020, ISO 6507-2:20218 ASTM E92:2023 and ASTM E384:2022	HV 0.1	5.5 %

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15	MECHANICAL-HARDNESS TESTING MACHINES	Micro-Vickers Hardness Tester	Using Standard Hardness test blocks by indirect method as per IS 1501 (Part 2):2020, ISO 6507-2:2018 ASTM E92:2023 and ASTM E384:2022	HV 0.2	5.6 %
16	MECHANICAL-HARDNESS TESTING MACHINES	Micro-Vickers Hardness Tester	Using Standard Hardness test blocks by indirect method as per IS 1501 (Part 2):2020, ISO 6507-2:2018 ASTM E92:2023 and ASTM E384:2022	HV 0.3	5.0 %
17	MECHANICAL-HARDNESS TESTING MACHINES	Micro-Vickers Hardness Tester	Using Standard Hardness test blocks by indirect method as per IS 1501 (Part 2):2020, ISO 6507-2:2018 ASTM E92:2023 and ASTM E384:2022	HV 0.5	3.5 %

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18	MECHANICAL-HARDNESS TESTING MACHINES	Micro-Vickers Hardness Tester	Using Standard Hardness test blocks by indirect method as per IS 1501 (Part 2):2020, ISO 6507-2:2018 ASTM E92:2023 and ASTM E384:2022	HV 1	2.5 %
19	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586 (Part 2) : 2018, ISO 6508-2 : 2023 and ASTM E18 : 2024	HR15N	0.6 HR15N
20	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586 (Part 2) : 2018, ISO 6508-2 : 2023 and ASTM E18 : 2024	HR15TW	0.8 HR15TW

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21	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586 (Part 2) : 2018, ISO 6508-2 : 2023 and ASTM E18 : 2024	HR30N	0.6 HR30N
22	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586 (Part 2) : 2018, ISO 6508-2 : 2023 and ASTM E18 : 2024	HR30TW	0.8 HR30TW
23	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586 (Part 2) : 2018, ISO 6508-2 : 2023 and ASTM E18 : 2024	HR45N	0.6 HR45N

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24	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586 (Part 2) : 2018, ISO 6508-2 : 2023 and ASTM E18 : 2024	HR45TW	0.8 HR45TW
25	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586 (Part 2) : 2018, ISO 6508-2 : 2023 and ASTM E18 : 2024	HRA	0.6 HRA
26	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586 (Part 2) : 2018, ISO 6508-2 : 2023 and ASTM E18 : 2024	HRBW	0.94 HRBW

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27	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586 (Part 2) : 2018, ISO 6508-2 : 2023 and ASTM E18 : 2024	HRC	0.52 HRC
28	MECHANICAL-HARDNESS TESTING MACHINES	Test Force of Brinell Hardness Tester	Using Load Cells as per IS 1500 (Part 2 and Part 3) : 2019, ISO 6506-2 & 3 : 2017 and ASTM E10 : 2023	612.9 N to 29420 N	0.21 %
29	MECHANICAL-HARDNESS TESTING MACHINES	Test Force of Rockwell Hardness Tester	Using Load Cells as per IS 1586 (Part 2 and Part 3) : 2018, ISO 6508-2 & 3 : 2023 and ASTM E18 : 2024	29.42 N to 1471 N	0.13 %
30	MECHANICAL-HARDNESS TESTING MACHINES	Test Force of Vickers and Knoop Hardness Tester	Using Load Cells as per IS 6885 (Part 2 & 3) : 2020, ISO 4545-2 & 3 : 2017 ASTM E92 : 2023 ASTM E384 : 2022, IS 1501 (Part 2 & 3):2020 and ISO 6507- 2 & 3 : 2018	0.4903 N to 490.3 N	0.25 %

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31	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Tester	Using Standard Hardness test blocks by indirect method as per IS 1501 (Part 2):2020, ISO 6507-2:2018 and ASTM E92:2023	HV 10	1.3 %
32	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Tester	Using Standard Hardness test blocks by indirect method as per IS 1501 (Part 2):2020, ISO 6507-2:2018 and ASTM E92:2023	HV 20	1.3 %
33	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Tester	Using Standard Hardness test blocks by indirect method as per IS 1501 (Part 2):2020, ISO 6507-2:2018 and ASTM E92:2023	HV 30	1.3 %
34	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Tester	Using Standard Hardness test blocks by indirect method as per IS 1501 (Part 2):2020, ISO 6507-2:2018 and ASTM E92:2023	HV 5	1.6 %

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35	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Tester	Using Standard Hardness test blocks by indirect method as per IS 1501 (Part 2):2020, ISO 6507-2:2018 and ASTM E92:2023	HV 50	1.3 %
36	MECHANICAL-IMPACT TESTING MACHINE	Charpy Impact Testing Machine	Using Inclinometer, Load Cell, Gauges by Direct Method and Indirect Method (for verification only) as per ISO 148-2 : 2016, IS 1757 (Part 2) : 2020 and ASTM E23 : 2024	Upto 500 J	1.03 %
37	MECHANICAL-IMPACT TESTING MACHINE	Izod Impact Testing Machine	Using Inclinometer, Load Cell, Gauges by Direct Method as per BS 131 (Part 4) : 1972, IS 1598 : 2024 and ASTM E23 : 2024	Upto 170 J	0.8 %
38	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Extensometer (L.C.: 0.1 µm or coarser)	Using Extensometer Calibration Fixtue, Electronic Probe and DRO as per IS 12872:2021, ISO 9513:2012 and ASTM E83 : 2023	Upto 10 mm	0.005 mm

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39	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Force Calibration of Uni-axial Testing Machine (UTM, CTM) - Compression Mode	Using Force Proving Instruments as per IS 1828 (Part 1) : 2022, ISO 7500-1 : 2018	100 N to 1500 kN	0.35 %
40	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Force Calibration of Uni-axial Testing Machine (UTM, CTM) - Compression Mode	Using Force Proving Instruments as per ASTM E4 : 2024	100 N to 1000 kN	0.35 %
41	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uni-axial Testing Machine (UTM, TTM) - Tension mode	Using Force Proving Instruments as per IS 1828 (Part 1):2022, ISO 7500-1 : 2022 and ASTM E4 : 2024	20 N to 300 kN	0.35 %

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