National Accreditation Board for Testing and Calibration Laboratories

NABL

CERTIFICATE OF ACCREDITATION

RAYS CALIBRATION SERVICES PRIVATE LIMITED

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

FIRST FLOOR, OFFICE NO. 02, PLOT NO. 12 - 16, 16A, 16B, 17, 18/10, EPI SYSTEMS BUILDING, SECTOR NO. 7, BHOSARI, PUNE, MAHARASHTRA, INDIA

in the field of

CALIBRATION

Certificate Number: NABLC0826MH04888

Issue Date: 04/08/2026 Valid Until: 03/08/2030

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 this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: RAYS CALIBRATION SERVICES PRIVATE LIMITED

Signed for and on behalf of NABL

Anita Rani
Director

Dr. Ramanand N. Shukla
Chief Executive Officer

RAYS CALIBRATION SERVICES PVT. LTD.

Your Trusted Partner in Calibration

NABL ACCREDITED
CALIBRATION LABORATORY



ACCURATE
MEASUREMENTS

RELIABLE
RESULTS

COMPLIANT
GLOBAL STANDARDS

ISO/IEC 17025:2017

General Requirements for the Competence of Testing & Calibration Laboratories

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Laboratory Name : RAYS CALIBRATION SERVICES PRIVATE LIMITED, FIRST FLOOR, OFFICE NO. 02, PLOT NO. 12 - 16, 16A, 16B, 17, 18/10, EPI SYSTEMS BUILDING, SECTOR NO. 7, BHOSARI, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number NABLC0826MH04888 **Page No** 1 of 26

Validity 04/08/2026 to 03/08/2030 **Last Amended on** -

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)(±)
Permanent Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ball Indenter - Diameter	Using Electronic probe with comparator stand (L.C.: 0.00001 mm) by Comparison Method as per IS 1586-2:2025, ISO 6508-2:2023, ASTM E-18:2025, IS 1500-2:2021, ISO 6506-2:2017, ASTM E-10:2023	1 mm to 25 mm	3.19 µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 0.1 µm)	Using Master Foils by Comparison Method	10 µm to 100 µm	1.5 µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 1 µm)	Using Master Foils by Comparison Method	0.1 mm to 4.76 mm	1.5 µm

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : RAYS CALIBRATION SERVICES PRIVATE LIMITED, FIRST FLOOR, OFFICE NO. 02, PLOT NO. 12 - 16, 16A, 16B, 17, 18/10, EPI SYSTEMS BUILDING, SECTOR NO. 7, BHOSARI, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number NABLC0826MH04888 **Page No** 2 of 26

Validity 04/08/2026 to 03/08/2030 **Last Amended on** -

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4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer, COD gauges	Using Extensometer Calibrator with Electronic Probe & DRO by Comparison Method as per IS 12872:2021, ISO 9513:2012, ASTM E-83:2025	0 to 25 mm	2 µm
5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Foils	Using Electronic Probe & DRO with Comparator Stand by Comparison Method	0.01 mm to 5 mm	1.3 µm
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Indent or of Shore Hardness Tester - Angular	Using Vision Measuring Machine by Comparison Method	0 ° to 90 °	3 min of arc
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Indentor of Shore Hardness Tester - Linear	Using Vision Measuring Machine by Comparison Method	0 to 5 mm	4.2 µm

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number NABLC0826MH04888 **Page No** 3 of 26

Validity 04/08/2026 to 03/08/2030 **Last Amended on** -

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8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Notch Profile Template (Linear)	Using Vision Measuring Machine by Direct Method	0 to 128 mm	3 µm
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Notch Profile Template (Radius)	Using Vision Measuring Machine by Direct Method	0 to 27 mm	3 µm
10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Notch Profile Template - Angular	Using Vision Measuring Machine by Direct Method	0 ° to 48 °	3 min of arc
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Rockwell Diamond Cone Indenter - Angle	Using Vision Measuring Machine by Comparison Method as Per IS 1586-2:2025, ISO 6508-2:2023, ASTM E-18:2025	0 ° to 121 °	3 min of arc

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : RAYS CALIBRATION SERVICES PRIVATE LIMITED, FIRST FLOOR, OFFICE NO. 02, PLOT NO. 12 - 16, 16A, 16B, 17, 18/10, EPI SYSTEMS BUILDING, SECTOR NO. 7, BHOSARI, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number NABLC0826MH04888 **Validity** 04/08/2026 to 03/08/2030 **Page No** 4 of 26 **Last Amended on** -

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12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Rockwell Diamond Cone Indenter - Radius	Using Vision Measuring Machine by Comparison Method IS 1586-2:2025, ISO 6508-2:2023, ASTM E-18:2025	0 to 0.202 mm	4.24 µm
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Striker of Charpy Metal Impact Testing Machine -Angle	Using Vision Measuring Machine by Comparison Method as per IS 1757-2:2020, ISO 148-2: 2016, ASTME-23:2025	0 ° to 32 °	3 min of arc
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Striker of Charpy Metal Impact Testing Machine -Linear	Using Vision Measuring Machine by Comparison Method as per IS 1757-2:2020, ISO 148-2:2016, ASTME-23:2025	0.05 mm to 18 mm	4.53 µm
15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Striker of Charpy Metal Impact Testing Machine -Radius	Using Vision Measuring Machine by Comparison Method as per IS 1757-2:2020, ISO 148-2:2016, ASTME-23:2025	0.05 mm to 8.05 mm	4.44 µm

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SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number NABLC0826MH04888 **Page No** 5 of 26

Validity 04/08/2026 to 03/08/2030 **Last Amended on** -

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16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Support of Self Centering Tong - Angle	Using Vision Measuring Machine by Comparison Method as per IS 1757-2:2020, ISO 148-2:2016, ASTME-23:2025	0 ° to 46 °	3 min of arc
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Support of Self Centering Tong - Linear	Using Vision Measuring Machine by Comparison Method as per IS 1757-2:2020, ISO 148-2:2016, ASTME-23:2025	0 to 41 mm	4.67 µm
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Supports & Anvils of a Pendulum Impact Testing Machine - Angle	Using Vision Measuring Machine by Comparison Method as per IS 1757-2:2020, ISO 148-2:2016, ASTME-23:2025	0 ° to 82 °	3 min of arc
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Supports & Anvils of a Pendulum Impact Testing Machine - Linear	Using Vision Measuring Machine by Comparison Method as per IS 1757-2:2020, ISO 148-2:2016, ASTME-23:2025	0.05 mm to 40.2 mm	4.87 µm

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : RAYS CALIBRATION SERVICES PRIVATE LIMITED, FIRST FLOOR, OFFICE NO. 02, PLOT NO. 12 - 16, 16A, 16B, 17, 18/10, EPI SYSTEMS BUILDING, SECTOR NO. 7, BHOSARI, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number NABLC0826MH04888 **Page No** 6 of 26

Validity 04/08/2026 to 03/08/2030 **Last Amended on** -

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20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Supports & Anvils of a Pendulum Impact Testing Machine - Radius	Using Vision Measuring Machine by Comparison Method as per IS 1757-2:2020, ISO 148-2:2016, ASTME-23:2025	0.05 mm to 1.5 mm	4.36 µm
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Roughness Specimen (Ra)	Using Surface Roughness Tester by Comparison Method	0.8 to 6 Ra	8.6 %
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Roughness Specimen (Rmax)	Using Surface Roughness Tester by Comparison Method	3.5 µm to 23.5 µm	7.5 %
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Roughness Specimen (Rz)	Using Surface Roughness Tester by Comparison Method	3.5 µm to 23.5 µm	7.5 %
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Roughness Tester (Portable) - Roughness Ra	Using Surface Roughness Master Specimens - 3 different values by Direct Method	1.524 µm to 6.478 µm	7.5 %

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National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : RAYS CALIBRATION SERVICES PRIVATE LIMITED, FIRST FLOOR, OFFICE NO. 02, PLOT NO. 12 - 16, 16A, 16B, 17, 18/10, EPI SYSTEMS BUILDING, SECTOR NO. 7, BHOSARI, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number NABLC0826MH04888 **Page No** 7 of 26

Validity 04/08/2026 to 03/08/2030 **Last Amended on** -

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25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Roughness Tester (Portable) - Roughness Rmax	Using Surface Roughness Master Specimens - 3 different values by Direct Method	6.363 µm to 26 µm	7.5 %
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Roughness Tester (Portable) - Roughness Rz	Using Surface Roughness Master Specimens - 3 different values by Direct Method	6 µm to 26 µm	7.5 %
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vickers Indenter - Angle	Using Vision Measuring Machine by Comparison Method as per 1501-2:2020, ISO 6507-2:2018, ASTM E-92:2023 & ASTM E-384:2022	0 ° to 136 °	3 min of arc
28	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge / 2D Electronic Height Gauge (L.C. 0.0001mm & coarser) - Squareness	Using Squareness Checking master, Comparison Method	0 to 600 mm	6 µm

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : RAYS CALIBRATION SERVICES PRIVATE LIMITED, FIRST FLOOR, OFFICE NO. 02, PLOT NO. 12 - 16, 16A, 16B, 17, 18/10, EPI SYSTEMS BUILDING, SECTOR NO. 7, BHOSARI, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number NABLC0826MH04888 **Page No** 8 of 26

Validity 04/08/2026 to 03/08/2030 **Last Amended on** -

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29	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge / 2D Electronic Height Gauge (L.C.. 0.0001 mm & Coarser) - Instrumental Error	Using Slip Gauge by Comparison Method	0 to 600 mm	8.19 µm
30	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Magnification	Using Measuring Pins & Digital Vernier Caliper by Comparison Method	10 X to 100 X	0.5 %
31	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Vision Measuring Machine - Angular (L.C.: 1")	Using Angular Glass Scale by Comparison Method	0 ° to 360 °	6 min of arc
32	MECHANICAL-DUROMETER	Shore Hardness Tester	Using Load Cell with Fixture by Comparison Method as Per ISO 48-9 & ASTM D-2240	0 to 100 Shore D	0.59 %.
33	MECHANICAL-HARDNESS TESTING MACHINES	Leeb Hardness Testing Machine	Using Standard Hardness Testing Blocks by Indirect Method as per ASTM A-956:2022	HLD	10 HLD
34	MECHANICAL-HARDNESS TESTING MACHINES	Ultrasonic Hardness Testing Machine - Portable UCI (Ultrasonic Contact Impedance Method)	Using Standard Hardness Testing Blocks by Comparison Method as per ASTM A 1038	10/3000 HBW	2 %

SCOPE OF ACCREDITATION

Laboratory Name : RAYS CALIBRATION SERVICES PRIVATE LIMITED, FIRST FLOOR, OFFICE NO. 02, PLOT NO. 12 - 16, 16A, 16B, 17, 18/10, EPI SYSTEMS BUILDING, SECTOR NO. 7, BHOSARI, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number NABLC0826MH04888 **Page No** 9 of 26

Validity 04/08/2026 to 03/08/2030 **Last Amended on** -

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)(±)
35	MECHANICAL-HARDNESS TESTING MACHINES	Ultrasonic Hardness Testing Machine - Portable UCI (Ultrasonic Contact Impedance Method)	Using Standard Hardness Testing Blocks by Comparison Method as per ASTM A 1038	HRC	0.52 HRC
36	MECHANICAL-HARDNESS TESTING MACHINES	Ultrasonic Hardness Testing Machine - Portable UCI (Ultrasonic Contact Impedance Method)	Using Standard Hardness Testing Blocks by Comparison Method as per ASTM A 1038	HV 1	25 %
37	MECHANICAL-HARDNESS TESTING MACHINES	Ultrasonic Hardness Testing Machine - Portable UCI (Ultrasonic Contact Impedance Method)	Using Standard Hardness Test Blocks by Comparison Method as per ASTM A 1038	HV 10	2.5 %
38	MECHANICAL-HARDNESS TESTING MACHINES	Ultrasonic Hardness Testing Machine - Portable UCI (Ultrasonic Contact Impedance Method)	Using Standard Hardness Test Blocks by Comparison Method as per ASTM A 1038	HV 5	2.5 %
39	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	PushPull Gauge	Using Newtonian Dead Weights & Hangers by Comparison Method as per VDI :2624 Part 2,1	10 N to 950 N	0.5 %

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : RAYS CALIBRATION SERVICES PRIVATE LIMITED, FIRST FLOOR, OFFICE NO. 02, PLOT NO. 12 - 16, 16A, 16B, 17, 18/10, EPI SYSTEMS BUILDING, SECTOR NO. 7, BHOSARI, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number NABLC0826MH04888 **Page No** 10 of 26

Validity 04/08/2026 to 03/08/2030 **Last Amended on** -

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Site Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calibration of Long Travel Extensometer (Resolution: 0.001 mm and coarser)	Using Digital Vernier Calliper and Electronic Height Gauge by Comparison Method as per 12872:2021, ISO 9513:2012 & ASTM E-83:2025	0 to 600 mm	0.015 mm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 0.1 µm)	Using Master Foils by Comparison Method	10 µm to 100 µm	1.5 µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 1 µm)	Using Master Foils by Comparison Method	0.1 mm to 4.76 mm	1.5 µm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cross Head of Uniaxial Testing Machine / Displacement of testing machine	Using Displacement calibrator by Comparison Method as per ASTM E-2309:2020	0 to 1000 mm	0.2 mm

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SCOPE OF ACCREDITATION

Laboratory Name : RAYS CALIBRATION SERVICES PRIVATE LIMITED, FIRST FLOOR, OFFICE NO. 02, PLOT NO. 12 - 16, 16A, 16B, 17, 18/10, EPI SYSTEMS BUILDING, SECTOR NO. 7, BHOSARI, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number NABLC0826MH04888 **Page No** 11 of 26

Validity 04/08/2026 to 03/08/2030 **Last Amended on** -

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5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cross Head of Uniaxial Testing Machine / Displacement of testing machine	Using Electronic Hight Gauge by Comparison Method as per ASTM E-2309:2020	0 to 600 mm	0.2 mm
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Measuring System of Rockwell Hardness Tester	Using Depth Measuring Calibrator by Comparison Method as per IS 1586-2:2025, ISO 6508-2:2023, ASTM E-18:2025	0 to 0.25 mm	1.2 µm
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Erichsen Cupping Testing Machine - Travel of Punch (Resolution: 0.01 mm and coarser)	Using Magnetic Stand with Plunger Dial gauge Fixture & Digital vernier calliper by Comparison Method as per IS 10175: 2018, ISO 20482:2013 R:2023	0 to 20 mm	0.02 mm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer, COD gauges	Using Extensometer Calibrator with Electronic Probe & DRO by Comparison Method as per IS 12872:2021, ISO 9513:2012, ASTM E-83:2025	0 to 25 mm	2 µm

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Laboratory Name : RAYS CALIBRATION SERVICES PRIVATE LIMITED, FIRST FLOOR, OFFICE NO. 02, PLOT NO. 12 - 16, 16A, 16B, 17, 18/10, EPI SYSTEMS BUILDING, SECTOR NO. 7, BHOSARI, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number NABLC0826MH04888 **Page No** 12 of 26

Validity 04/08/2026 to 03/08/2030 **Last Amended on** -

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9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Speed of Cross Head of Uniaxial Testing Machine	Using Special Digital Hight Gauge and Stopwatch by Comparison Method as per ASTM E-2658:2023	0 to 500 mm/min	0.2 mm
10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Roughness Tester (Portable) - Roughness Ra	Using Surface Roughness Master Specimens - 3 different values by Direct Method	1.524 µm to 6.478 µm	7.5 %
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Roughness Tester (Portable) - Roughness Rmax	Using Surface Roughness Master Specimens - 3 different values by Direct Method	6.363 µm to 26 µm	7.5 %
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Roughness Tester (Portable) - Roughness Rz	Using Surface Roughness Master Specimens - 3 different values by Direct Method	6 µm to 26 µm	7.5 %
13	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Contour Profiles - Angle	Using Master Contour Profiles Gauge Blocks (Profile Template) by Comparison Method	0 ° to 90 °	2 min of arc

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number NABLC0826MH04888 **Page No** 13 of 26

Validity 04/08/2026 to 03/08/2030 **Last Amended on** -

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14	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Contour Profiles - Linear (L.C.: 0.0001 mm and coarser)	Using Master Contour Profiles Gauge Blocks (Profile Template) by Comparison Method	0 to 82.5 mm	5 µm
15	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Contour Profiles - Straightness (L.C.: 0.0001 mm and coarser)	Using Optical Flat by Comparison Method	0 to 100 mm	0.5 µm
16	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Contour Profiles - Radius (L.C.: 0.0001 mm and coarser)	Using Master Contour Profiles Gauge Blocks (Profile template) by Comparison Method	0 to 10 mm	5 µm
17	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge / 2D Electronic Height Gauge (L.C. 0.0001mm & coarser) - Squareness	Using Squareness Checking master, Comparison Method	0 to 600 mm	6 µm
18	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge / 2D Electronic Height Gauge (L.C.. 0.0001 mm & Coarser) - Instrumental Error	Using Slip Gauge by Comparison Method	0 to 600 mm	8.19 µm

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Laboratory Name : RAYS CALIBRATION SERVICES PRIVATE LIMITED, FIRST FLOOR, OFFICE NO. 02, PLOT NO. 12 - 16, 16A, 16B, 17, 18/10, EPI SYSTEMS BUILDING, SECTOR NO. 7, BHOSARI, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number NABLC0826MH04888 **Page No** 14 of 26

Validity 04/08/2026 to 03/08/2030 **Last Amended on** -

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)(±)
19	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Metallurgical Microscope / Stereo zoom Microscope - Magnification	Using Measuring Glass scale by Comparison Method as per ASTM E-1951	0 to 1000 X	0.59 %
20	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Magnification	Using Measuring Pins & Digital Vernier Caliper by Comparison Method	10 X to 100 X	0.5 %
21	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Vision Measuring Machine - Angular (L.C.: 1")	Using Angular Glass Scale by Comparison Method	0 ° to 360 °	6 min of arc
22	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Vision measuring machine - Linear X-Y Axis (L.C.: 0.0001 mm)	Using Linear Glass Scale by Comparison Method	0 to 300 mm	5 µm
23	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using standard Hardness Testing Blocks by Indirect Method as per IS 1500-2:2021, ISO 6506-2:2017 & ASTM E-10:2023	10/1000 HBW	2 %

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number NABLC0826MH04888 **Page No** 15 of 26

Validity 04/08/2026 to 03/08/2030 **Last Amended on** -

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)(±)
24	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using standard Hardness Testing Blocks by Indirect Method as per IS 1500-2:2021, ISO 6506-2:2017 & ASTM E-10:2023	10/3000 HBW	2 %
25	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using standard Hardness Testing Blocks by Indirect Method as per IS 1500-2:2021, ISO 6506-2:2017 & ASTM E-10:2023	10/500 HBW	2 %
26	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using standard Hardness Testing Blocks by Indirect Method as per IS 1500-2:2021, ISO 6506-2:2017 & ASTM E-10:2023	2.5/15.625 HBW	2 %
27	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using standard Hardness Testing Blocks by Indirect Method as per IS 1500-2:2021, ISO 6506-2:2017 & ASTM E-10:2023	2.5/187.5 HBW	2 %

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number NABLC0826MH04888 **Page No** 16 of 26

Validity 04/08/2026 to 03/08/2030 **Last Amended on** -

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28	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using standard Hardness Testing Blocks by Indirect Method as per IS 1500-2:2021, ISO 6506-2:2017 & ASTM E-10:2023	2.5/31.25 HBW	2.41 %
29	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using standard Hardness Testing Blocks by Indirect Method as per IS 1500-2:2021, ISO 6506-2:2017 & ASTM E-10:2023	2.5/62.5 HBW	2 %
30	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using standard Hardness Testing Blocks by Indirect Method as per IS 1500-2:2021, ISO 6506-2:2017 & ASTM E-10:2023	5/250 HBW	2.97 %
31	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using standard Hardness Testing Blocks by Indirect Method as per IS 1500-2:2021, ISO 6506-2:2017 & ASTM E-10:2023	5/750 HBW	2 %

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SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number NABLC0826MH04888 **Page No** 17 of 26

Validity 04/08/2026 to 03/08/2030 **Last Amended on** -

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32	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine - Test Force	Using Load cells by Direct Method as per IS 1500-2:2021, ISO 6506-2:2017 & ASTM E-10:2023	150 N to 29500 N	0.85 %
33	MECHANICAL-HARDNESS TESTING MACHINES	Hysteresis (Recovery) of Rockwell Hardness Testing Machine	Using blunt indenter by Direct Method as per IS 1586-2:2025, ISO 6508-2:2023, ASTM E-18:2025	0 to 130 HR	0.5 HR
34	MECHANICAL-HARDNESS TESTING MACHINES	Indentation Measuring System of Brinell & Vickers Hardness Testing Machine (L.C.: 0.001 mm)	Using Glass Scale as Per IS 1501-2:2020, ISO 6507-2:2018, ASTM E-92:2023, IS 1500-2:2021, ISO 6506-2:2017 & ASTM E-10:2023	0 to 7 mm	0.5 %
35	MECHANICAL-HARDNESS TESTING MACHINES	knoop Hardness Testing Machine	Using Standard Hardness Testing Blocks by Indirect Method as per IS 6885-2:2020, ISO 4545-2:2017 & ASTM E-92:2023 & ASTM E-384:2022	HK 0.2	6.68 %

National Accreditation Board for Testing and Calibration Laboratories

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number NABLC0826MH04888 **Page No** 18 of 26

Validity 04/08/2026 to 03/08/2030 **Last Amended on** -

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36	MECHANICAL-HARDNESS TESTING MACHINES	knoop Hardness Testing Machine	Using Standard Hardness Testing Blocks by Indirect Method as per IS 6885-2:2020, ISO 4545-2:2017 & ASTM E-92:2023 & ASTM E-384:2022	HK 0.5	5.17 %
37	MECHANICAL-HARDNESS TESTING MACHINES	Leeb Hardness Testing Machine	Using Standard Hardness Testing Blocks by Indirect Method as per ASTM A-956:2022	HLD	10 HLD
38	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Testing Machine	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1501-2:2020, ISO 6507-2:2018, ASTM E-92:2023 & ASTM E-384:2022	HV 0.025	4 %
39	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Testing Machine	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1501-2:2020, ISO 6507-2:2018, ASTM E-92:2023 & ASTM E-384:2022	HV 0.05	7.08 %

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number NABLC0826MH04888 **Page No** 19 of 26

Validity 04/08/2026 to 03/08/2030 **Last Amended on** -

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40	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Testing Machine	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1501-2:2020, ISO 6507-2:2018, ASTM E-92:2023 & ASTM E-384:2022	HV 0.1	5.6 %
41	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Testing Machine	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1501-2:2020, ISO 6507-2:2018, ASTM E-92:2023 & ASTM E-384:2022	HV 0.2	2.82 %
42	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Testing Machine	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1501-2:2020, ISO 6507-2:2018, ASTM E-92:2023 & ASTM E-384:2022	HV 0.3	2.64 %

National Accreditation Board for Testing and Calibration Laboratories

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number NABLC0826MH04888 **Page No** 20 of 26

Validity 04/08/2026 to 03/08/2030 **Last Amended on** -

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43	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Testing Machine	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1501-2:2020, ISO 6507-2:2018, ASTM E-92:2023 & ASTM E-384:2022	HV 0.5	2.75 %
44	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Testing Machine	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1501-2:2020, ISO 6507-2:2018, ASTM E-92:2023 & ASTM E-384:2022	HV 1	3 %
45	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine - Test Force	Using Load cells by Direct Method as per IS 1586-2:2025, ISO 6508-2:2023 & ASTM E-18:2025	29 N to 1471 N	1.55 %
46	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine / Portable Rockwell Hardness Testing Machine	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1586-2:2025, ISO 6508-2:2023 & ASTM E-18:2025	HR15N	0.8 HR15N

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number NABLC0826MH04888 **Page No** 21 of 26

Validity 04/08/2026 to 03/08/2030 **Last Amended on** -

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47	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine / Portable Rockwell Hardness Testing Machine	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1586-2:2025, ISO 6508-2:2023 & ASTM E-18:2025	HR15TW	1.1 HR15TW
48	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine / Portable Rockwell Hardness Testing Machine	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1586-2:2025, ISO 6508-2:2023 & ASTM E-18:2025	HR30N	0.81 HR30N
49	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine / Portable Rockwell Hardness Testing Machine	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1586-2:2025, ISO 6508-2:2023 & ASTM E-18:2025	HR30TW	1.1 HR30TW
50	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine / Portable Rockwell Hardness Testing Machine	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1586-2:2025, ISO 6508-2:2023 & ASTM E-18:2025	HR45N	0.83 HR45N

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number NABLC0826MH04888 **Page No** 22 of 26

Validity 04/08/2026 to 03/08/2030 **Last Amended on** -

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51	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine / Portable Rockwell Hardness Testing Machine	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1586-2:2025, ISO 6508-2:2023 & ASTM E-18:2025	HR45TW	1.1 HR45TW
52	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine / Portable Rockwell Hardness Testing Machine	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1586-2:2025, ISO 6508-2:2023 & ASTM E-18:2025	HRA	0.6 HRA
53	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine / Portable Rockwell Hardness Testing Machine	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1586-2:2025, ISO 6508-2:2023 & ASTM E-18:2025	HRBW	0.8 HRBW
54	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine / Portable Rockwell Hardness Testing Machine	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1586-2:2025, ISO 6508-2:2023 & ASTM E-18:2025	HRC	0.6 HRC

National Accreditation Board for Testing and Calibration Laboratories

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number NABLC0826MH04888 **Page No** 23 of 26

Validity 04/08/2026 to 03/08/2030 **Last Amended on** -

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55	MECHANICAL-HARDNESS TESTING MACHINES	Testing Cycle	Using stopwatch by Direct Method	Upto to 60 s	1.5 s
56	MECHANICAL-HARDNESS TESTING MACHINES	Ultrasonic Hardness Testing Machine - Portable UCI (Ultrasonic Contact Impedance Method)	Using Standard Hardness Testing Blocks by Comparison Method as per ASTM A 1038	10/3000 HBW	2 %
57	MECHANICAL-HARDNESS TESTING MACHINES	Ultrasonic Hardness Testing Machine - Portable UCI (Ultrasonic Contact Impedance Method)	Using Standard Hardness Testing Blocks by Comparison Method as per ASTM A 1038	HRC	0.52 HRC
58	MECHANICAL-HARDNESS TESTING MACHINES	Ultrasonic Hardness Testing Machine - Portable UCI (Ultrasonic Contact Impedance Method)	Using Standard Hardness Testing Blocks by Comparison Method as per ASTM A 1038	HV 1	25 %
59	MECHANICAL-HARDNESS TESTING MACHINES	Ultrasonic Hardness Testing Machine - Portable UCI (Ultrasonic Contact Impedance Method)	Using Standard Hardness Test Blocks by Comparison Method as per ASTM A 1038	HV 10	2.5 %
60	MECHANICAL-HARDNESS TESTING MACHINES	Ultrasonic Hardness Testing Machine - Portable UCI (Ultrasonic Contact Impedance Method)	Using Standard Hardness Test Blocks by Comparison Method as per ASTM A 1038	HV 5	2.5 %

National Accreditation Board for Testing and Calibration Laboratories

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number NABLC0826MH04888 **Page No** 24 of 26

Validity 04/08/2026 to 03/08/2030 **Last Amended on** -

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61	MECHANICAL-HARDNESS TESTING MACHINES	Vickers / Micro Vickers hardness Testing Machine - Test Force	Using Load cells by Direct Method as per IS 1501-2:2020, ISO 6507-2:2018, ASTM E-92:2023 & ASTM E-384:2022	1 N to 1177 N	0.81 %
62	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1501-2:2020, ISO 6507-2:2018 & ASTM E-92:2023	HV 10	2 %
63	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1501-2:2020, ISO 6507-2:2018 & ASTM E-92:2023	HV 20	2 %
64	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1501-2:2020, ISO 6507-2:2018 & ASTM E-92:2023	HV 3	2.5 %

National Accreditation Board for Testing and Calibration Laboratories

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number NABLC0826MH04888 **Page No** 25 of 26

Validity 04/08/2026 to 03/08/2030 **Last Amended on** -

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65	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1501-2:2020, ISO 6507-2:2018 & ASTM E-92:2023	HV 30	2 %
66	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1501-2:2020, ISO 6507-2:2018 & ASTM E-92:2023	HV 5	2.5 %
67	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1501-2:2020, ISO 6507-2:2018 & ASTM E-92:2023	HV 50	2 %
68	MECHANICAL-IMPACT TESTING MACHINE	Calibration of Charpy Impact Testing Machine (Direct / Indirect Verification)	Using Impact Testing kit as per IS 1757-2:2020, ISO 148-2:2016, ASTME-23:2025	0 to 500 J	0.6 %
69	MECHANICAL-IMPACT TESTING MACHINE	Calibration Of Charpy Plastic Impact Testing Machine	Using Impact Testing Kit as per ISO 13802:2025, ASTM D 6110:2018	0 to 25 J	0.6 %

National Accreditation Board for Testing and Calibration Laboratories

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number NABLC0826MH04888 **Page No** 26 of 26

Validity 04/08/2026 to 03/08/2030 **Last Amended on** -

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70	MECHANICAL-IMPACT TESTING MACHINE	Calibration of IZOD Impact Testing Machine	Using Impact Testing kit as per BS 131-4:2020	0 to 170 J	0.61 %
71	MECHANICAL-IMPACT TESTING MACHINE	Calibration Of Izod Plastic Impact Testing Machine	Using Impact Testing Kit as per ISO 13802:2025, ASTM D 256:2024	0 to 25 J	0.6 %
72	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	UTM, CTM, Spring Testing Machine - Compression Mode	Using Load Cells with Indicator by Comparison Method as per IS 1828 (Part 1):2022, ISO 7500-1:2018 & ASTM E4:2024	1 N to 3000 kN	0.62 %
73	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	UTM, Spring Testing Machine, Creep Testing Machine - Tension Mode	Using Load Cells with Indicator by Comparison Method as per IS 1828 (Part 1):2022, ISO 7500-1:2018 & ASTM E4:2024	1 N to 1000 kN	0.6 %

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

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RAYS CALIBRATION SERVICES PVT. LTD.

NABLC0826MH04888

ABOUT US

Precision in Measurement. Confidence in Quality.

Rays Calibration Services Pvt. Ltd. (RCSPL) is a Pune based technical organization specializing in Calibration, Metrology, Metallography, Inspection Solutions and supplies of Material Testing Machines. Our laboratory is accredited to **ISO/IEC 17025:2017** with a comprehensive Mechanical Calibration scope covering Hardness, Force, Impact, Dimension and related testing-machine parameters.



OUR KEY CAPABILITIES IN CALIBRATION UNDER ACCREDITATION

HARDNESS CALIBRATION

• Rockwell • Brinell • Vickers • Micro-Vickers • Knoop • Leeb • UCI • Shore

FORCE & TESTING MACHINES

• UTM • CTM • Spring & Creep Testing Machines • Force Measuring Systems

IMPACT TESTING

• Charpy • Izod • Plastic Impact Testing Machines

DIMENSION & METROLOGY

• Vision Measuring • Profile Projectors • Contour Measurement • Height Gauges
• Extensometers • COD Gauges • Surface Roughness • Metallurgical Microscopes

COMPLETE TECHNICAL SUPPORT

Along with calibration, we provide equipment supply, application support, installation & commissioning, operator training, preventive maintenance, AMC, repair and after-sales technical support.
Our solutions serve the Automotive, Aerospace, Steel, Foundry, Manufacturing, Engineering, Research, Education and Quality Assurance sectors.

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