

Quality And Accreditation Institute Centre for Laboratory Accreditation

Scope of Accreditation

S.V. INDIA CALIBRATION SERVICES

Shop N.- 8 & 29, Shri Ram Market, Near Voltas Ltd. Shimla Bahadur,
Rudrapur- 263153, Uttarakhand, India

QAI/CLA/CL/2023/0001

Valid from : 04 January 2023

Valid until : 03 January 2025

Accreditation Standard: ISO/IEC 17025:2017

Mechanical-Dimension

Sl. No.	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) (\pm)
Permanent Facility				
1.	Digital/ Dial/ Vernier Caliper L.C. 0.01 mm & Coarser	Comparison Method IS 3651/IS 16491 Part-1 By Using Caliper Checker (0-600 mm) & (0-1000 mm) WI/01	0-300 mm 0-1000 mm	7.2 μ m 12.6 μ m
2.	Digital/ Dial/ Vernier Height Gauge L.C. 0.01 mm & Coarser	Comparison Method IS 2921/ By Using Caliper Checker (0-600 mm) & (0-1000 mm) WI/02	0-300 mm 0-1000 mm	7.2 μ m 9.5 μ m
3.	Digital / Dial/ Vernier Depth Caliper L.C. 0.01 mm & Coarser	Comparison Method IS 4213/IS 16491 Part-1 By Using Caliper Checker WI/26	Upto 300 mm	10.7 μ m
4.	External Micrometer (O.D / Blade / Flange Type)	Comparison Method IS 2967-1983	0-25 mm	1.0 μ m



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	L.C. 0.001 mm & Coarser	Slip Gauge Set WI/03	0-250 mm	2.6 μ m
5.	Plunger Type Dial Gauge L.C. 0.001 mm L.C. 0.01 mm	Comparison Method IS 2092, By Using Dial Calibration Tester (0 - 25 mm) WI/05	0-1 mm 0 - 25 mm	1.4 μ m 1.5 μ m
6.	Lever Type Dial Gauge L.C. 0.001 mm & Coarser	Comparison Method IS 11498, Dial Calibration Tester (0 -25 mm) WI/06	0 -1 mm	1.3 μ m
7.	Dial Bore Gauge (Travel Only) L.C. 0.001 mm & Coarser	Comparison Method JIS 7515, Dial Calibration Tester (0 -25 mm) WI/07	Upto 1.0 mm	2.3 μ m
8.	Dial Thickness Gauge L.C. 0.01mm	Comparison Method IS 2092, By Using Slip Gauge Block, M112,	0-10 mm	5.7 μ m



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		WI/08		
9.	Thread Plug Gauge (PCD Only)	Comparison Method IS 4218, IS 2334, By Using Floating Carriage & Thread Measuring Wires WI/09	2- 100 mm	2.8 μ m
10.	Plain Plug Gauge/ Air Plug Gauge	Comparison Method IS 11103, By Using Comp. Stand & Electronic Probe, WI/04	0-50 mm 50 mm to 250 mm	2.2 μ m 3.5 μ m
11.	Plain Ring gauge	Comparison Method IS 3485, By Using Length Measuring Machine L-100 WI/11	5- 100 mm	2.0 μ m
12.	Plain Ring Gauge	Comparison Method IS 3485, By Using CMM WI/12	100 - 250 mm	5.2 μ m
13.	Width Gauge	Comparison Method IS 9529, By Using Digimatic External Micrometer,	Upto 50 mm	2.0 μ m



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		WI/15		
14.	Flush Pin Gauge	Comparison Method IS 9529, By Using Slip Gauge Block M112, WI/16	Upto 50 mm	2.0 μ m
15.	Wear Check Plug Gauge (PCD Only)	Comparison Method IS 2334, By Using Thread Measuring Wire, WI/17	Upto 50 mm Dia	2.8 μ m
16.	Wear Check Ring Gauge (PCD Only)	Comparison Method IS 3234, IS 4218, By Using Length Measuring Machine - LMM 100, WI/18	5- 100 mm	2.0 μ m
17.	Thread Ring Gauge (PCD Only)	Comparison Method IS 3234, IS 4218, By Using Length Measuring Machine - LMM 100, WI/19	5- 100 mm	2.0 μ m
18.	Depth Gauge	Comparison Method IS 3234, IS 4218, By Using	Up-to 300 mm	4.30 μ m



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		Digital Dial Gauge & Comparator Stand, WI/54		
19.	Snap Gauge	Comparison Method IS 3455, IS 6244, By Using Slip Gauge Blocks M112, WI/20	2 - 250 mm	3.9 μ m
20.	Spline Plug Gauge (DOP Only)	Comparison Method By Using Digimatic External Micrometer & Measuring Pin, WI/21	5 to 50 mm	3.5 μ m
21.	Spline Ring Gauge (DOP Only)	Comparison Method By Using Slip Gauge Blocks M112 & Measuring Pin, WI/22	10 to 50 mm	2.5 μ m
22.	Dial Snap Gauge	Comparison Method IS 14271, By Using Slip Gauge Blocks M 112, WI/23	Upto 250 mm	2.1 μ m



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23.	V - Block Upto 300 mm	Comparison Method IS 2949, IS 4960, By Using CMM, WI/24	Flatness Squareness V-Angle	16.7 μ m 18.5 μ m 210 Sec
24.	Measuring Tap/ Steel Scale	Comparison Method IS 1269, By Using Profile Projector, WI/25	Upto-300 mm	58.2 μ m
25.	Coating Thickness Gauge (Fe Type)	Comparison Method By Using Standard Coating Foils, WI/27	Upto 650 μ m	4.1 μ m
26.	Bevel Protector L.C.-5'	Comparison Method IS 5812, IS 4239 By Using Angle Gauge, Surface Plate, WI/28	0° - 90° - 0°	3.6 minute
27.	Radius Gauge/ Form Gauge	Comparison Method IS 5273, By Using Profile Projector, WI/29	0.5 - 50 mm	10.3 μ m
28.	Sprit Level L.C. — 0.02 mm	Comparison Method IS 5706, By Using	Upto 200 mm	11.2 μ m/ meter



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		Electronic Level Meter, WI/30		
29.	Comparator Stand	Comparison Method IS 12937, By Using Electronic Level Meter, WI/31	Upto 300 x 300 mm	1.1 μ m
30.	Filler Gauge	Comparison Method IS 3179, By Using Digimatic External Micrometer, WI/32	Upto 2.0 mm	1.8 μ m
31.	Depth Micrometer L.C. - 0.001 mm & Coarser	Comparison Method IS 4213, By Using Slip Gauge Block & Surface Plate, WI/33	0 - 50 mm	2.9 μ m
32.	Pitch Gauge	Comparison Method IS 4218, By Using Profile Projector, WI/34	Upto 10 mm	6.7 μ m
33.	Tapper Ring Gauge	Comparison Method IS 6231, By Using CMM WI/13	2 - 100 mm	3.9 Sec



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Dr. Bhupendra Kumar Rana
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34.	Tapper Plug Gauge	Comparison Method IS 6244, By Using CMM WI/14	1- 50 mm Upto 90 ⁰	3.6 Sec
35.	Angle/ Chamfer Gauge	Comparison Method IS 6244, By Using Profile Projector, WI/35	Upto 90 ⁰	232.4 Sec
36.	Length Gauge	Comparison Method IS 2103, By Comparator Stand with Dial, WI/36	Upto 100 mm	3.6 μ m
37.	Engineer's Square, Upto 300 mm	Comparison Method IS 2554, By Using CMM WI/37	Flatness Right Angle	5.9 μ m 212.2 Sec
38.	Angle Plate (Grades: 1 & 2) Upto 400 x 400 mm	Comparison Method IS 6232, By Using CMM WI/38	Flatness Angle	7.1 μ m 222.8 Sec
39.	Box Angle Plate (Grades: 1 & 2) 600 x 600 mm	Comparison Method IS 2063, By Using CMM WI/39	Flatness Parallelism Angle	9.9 μ m 7.1 μ m 241.3 sec



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40.	Test Mandrels (Straight) Length 300 mm Dia Upto 50 mm	Comparison Method IS 3455, By Bench Centre & Micrometer, WI/40	Runout Diameter	8.9 μ m 5.0 μ m
41.	Reference Discs	Comparison Method IS 5339, By Electronic Probe, Comparator Stand & Slip Gauge, WI/41	Upto 500 mm	5.0 μ m
42.	Sine Bar, Upto 500 mm	Comparison Method, By CMM, Angle Gauge & Slip Gauge, WI/42	Flatness, Parallelism Angle	10 μ m 5.4 μ m 222.5 Sec
43.	Length Gauge	Comparison Method By CMM, WI/52	100-600 mm	9.0 μ m
44.	PCD Gauge (PCD Position)	Comparison Method By CMM, WI/51	Upto 500 mm	8.5 μ m



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45.	Plain Snap Gauge	Comparison Method By CMM, WI/53	250 mm to 600 mm	9.3 μ m
46.	Measuring Pin	Comparison Method IS 1103-1984, By Using Electronic Probe, WI/10	0.1 - 25.0 mm	2.0 μ m
Site Facility				
1.	Surface Plate	Comparison Method IS 12937, IS 2285 IS 7327, By Using Electronic Level, WI/43	3000 x 2000 mm	2.4 (L+W/150) μ m L & W in mm
2.	Profile Projector Liner Scale Angular Scale	Comparison Method By Using Angle Gauge/ Glass Scale, WI/45	Length - Upto 200 mm Angle — Upto 360° Magnification -10 X	6.2 μ m 2.5 Minute 0.03 %



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3.	Bench Centre Parallelism Co-Axiality	Comparison Method IS 5980, By Test Mandrel with Plunger Dial Gauge, WI/44	Upto 500 mm	7.2 μ m



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Mechanical-Pressure

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1.	Hydraulic Pressure- Industrial Pressure Gauge	Comparison with Digital Pressure Gauge Water Based Pump Comparator Based on DKD-R6-1	0 to 700 bar	0.4 bar
2.	Pneumatic Pressure- Industrial Pressure Gauge	Comparison with Digital Pressure Gauge using Pneumatic (Air) Pump Comparator Based on DKD-R6-1	0 to 30 bar	0.1 bar
3.	Industrial Vacuum Gauge	Comparison with Digital Vacuum Gauge using Vacuum Pump Comparator Based on DKD-R6-1	0 to 0.88 bar	0.01 bar



A handwritten signature in black ink, appearing to read 'Dr. Bhupendra Kumar Rana', is written over a horizontal line.