

Laboratory Sankalp Hi-Tech Corporation, 7/3, "Ramsetu", Ramkrishna Nagar,
Ambad- Satpur Link Road, Ambad, Nashik, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2875 **Page** 1 of 18

Validity 26.10.2018 to 25.10.2020 **Last Amended on** 19.11.2018

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>MECHANICAL CALIBRATION</u>				
I. DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)				
1.	Caliper ^s (Vernier, Dial, Digital) L. C. 0.01 mm	Upto 1000 mm	16.0 μ m	Using Caliper Checker, & Slip Gauge Set by Comparison Method
2.	Depth Gauge / Depth Micrometer ^s L.C. : 0.001 mm ^φ	Up to 300 mm	7.5 μ m	Using Slip Gauge Set, & Long Slip Gauge by Comparison Method
3.	Height Gauge ^s (Vernier, Dial, Digital) L. C. 0.01 mm	Upto 1000 mm	15.0 μ m	Using Caliper Checker, & Slip Gauge Set by Comparison Method
4.	External Micrometer ^s (Inclusive of Point, Blade, Ball, Flange, Groove, Disc, 'V' anvil type) L.C. : 0.001 mm L.C. : 0.01 mm	Upto 25 mm Upto 150 mm Upto 300 mm Upto 1000 mm	1.0 μ m 1.5 μ m 4.5 μ m 11.0 μ m	Using Slip Gauge Set, Mic Check Set & Length Bar Cylinder Master by Comparison Method
5.	Thread Pitch Micrometer ^s L.C.:0.001 mm	0.4mm to 5 mm	5.3 μ m	Using Standard WCP

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6.	Internal Micrometer ^s (2 Point) L.C. : 0.001 / 0.01mm (Extension not more than 400 mm)	Upto 1000 mm	12.0 μ m	Using Slip Gauge Set Caliper Checker & Accessories by Comparison Method
7.	Inside Dial Caliper ^s L.C. : 0.001 mm	Upto 1000 mm	12.0 μ m	Using Slip Gauge Set Caliper Checker & Accessories by Comparison Method
8.	Dial Gauge Plunger ^s L.C.: 0.0005mm ^φ L.C.: 0.001mm ^φ	Upto 25 mm Upto 50 mm	2.8 μ m 3.5 μ m	Using Slip Gauge Set & Dial Calibration Tester by Comparison Method
9.	Dial Gauge Lever ^s L.C.:0.001 mm ^φ	Upto 2 mm	2.8 μ m	Using Dial Calibration Tester by Comparison Method
10.	Bore Dial Gauge ^s (Transmission Accuracy Check Only) L.C. : 0.001 mm	Upto 2 mm	2.8 μ m	Using Dial Calibration Tester by Comparison Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
11.	Micrometer Setting Standard [§]	25mm to 100 mm 100mm to 300 mm 300mm to 975 mm	1.2 μ m 3.5 μ m 10.5 μ m	Using Slip Gauge Set & Electronic Comparator, Length Bar by Comparison Method
12.	V – Block [§] Symmetricity Parallelism Squareness	Upto 150 mm	5.1 μ m 5.1 μ m 6.5 μ m	Using Electronic Comparator, Master Cylinder & Master Square
13.	Dial Thickness Gauge / Dial Snap Gauge/ Pistol Caliper [§] L.C. : 0.001 mm L.C.: 0.01 mm L.C. : 0.1 mm	Upto 200 mm Upto 200 mm Upto 200 mm	1.6 μ m 3.3 μ m 58.0 μ m	Using Grade "0" Slip Gauges, by Comparison Method
14.	Steel Scale / Taper Scale [§] L.C. : 0.5 mm ^φ	Up to 2000 mm	150 μ m	Using Scale Calibrator by Comparison Method
15.	Measuring Tape / Pie Tape [§] L.C. : 0.1mm ^φ	Up to 50 meter	150 \sqrt{L} μ m L is in mm	Using Scale Calibrator by Comparison Method
16.	Comparator Stand [§] (Flatness of work Table)	Upto 100 mm Upto 300 mm	0.8 μ m 3.0 μ m	Using Optical Flat Using Surface Plate, Electronic Comparator

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
17.	Coating Thickness Gauge ^g L.C. : 0.01 μm ^h	Upto 2 mm	5.0 μm	Using Master Foils by Comparison Method
18.	Ultrasonic Thickness Gauge ^s L.C.:0.01mm ^h	Up to 200 mm	58 μm	Using Slip Gauge Set by Comparison Method
19.	Engineers Square / Angle Plate ^s	Upto 600 mm	11.0 μm	Using Master Square Electronic Comparator by Comparison Method
20.	Engineers Parallel ^s (For Parallelism)	0 to 300 mm	3.8 μm	Using Electronic Comparator by Comparison Method
21.	Straight Edge ^g	Upto 5000 mm	$3.0 \sqrt{L/150}$ μm L is in mm	Using Electronic Level & Electronic Comparator by Comparison Method
22.	C.D. / P.C.D. Gauge ^s	Upto 600 mm	6.5 μm	Using Single Axis M/c. Vertical by Comparison Method
23.	Plain Plug Gauge /Setting Plug/ Paddle Gauge / Precision Balls / Measuring Pins / Width Gauge ^s	Upto 100 mm Upto 300 mm Upto 600 mm Upto 1000 mm	1.2 μm 3.7 μm 6.8 μm 10.7 μm	Using Slip Gauge Set, Electronic Comparator & Length Bar by Comparison Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
24.	Snap Gauge / Setting Gauge / Gap Gauge ^s (C&I Type)	Upto 100 mm Upto 300 mm Upto 600 mm	1.0 μ m 3.3 μ m 5.5 μ m	Using Slip Gauge Set, Long Slip Gauge & Single Axis Measuring Machine vertical by Comparison Method
25.	Thread Plug Gauge ^s (W.C.P. /C.P./Setting Plug) Major Dia Effective Dia	Upto 100 mm Upto 200 mm	4.2 μ m 2.6 μ m	Using FCDM Cylindrical Setting Master/ Measuring Wires Single Axis Machine by Comparison Method
26.	Taper Thread Plug Gauge ^s (Effective diameter)	Upto 100 mm	6.0 μ m	Using FCDM Cylindrical Setting Master/ Measuring Wires by Comparison Method
27.	Plain Taper Plug Gauge ^s Taper Angle	Upto 100 mm Up to 60°	2.6 μ m 20 s	Using Single Axis M/c. (Horizontal) Slip Gauge, Sine Bar by Comparison Method
28.	Plain Ring Gauge / Setting Ring Gauge ^s	3 to 350 mm	2.5 μ m	Using Single Axis M/c (Horizontal) by Comparison Method
29.	Plain Taper Ring Gauge ^s Taper Angle	Upto 100 mm Up to 60°	2.6 μ m 20 s	Using Single Axis M/c (Horizontal) by Comparison Method

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30.	Thread Ring Gauge ^s (WCR/CR) Effective Dia	3 to 250 mm	3.0 μ m	Using Single Axis M/c (Horizontal) by Comparison Method
31.	Taper Thread Ring Gauge ^s (Effective Dia)	3 to 100 mm	3.0 μ m	Using Single Axis M/c (Horizontal) by Comparison Method
32.	Feeler Gauge / Master Foils ^s	Upto 1 mm	1.3 μ m	Using Electronic Comparator by Comparison Method
33.	Test Sives ^s	0.05mm to 50 mm 50mm to 125 mm	5.3 μ m 38.0 μ m	Using Vision Measuring Machine & Digital Caliper by Comparison Method
34.	Radius Gauge ^s	0 to 50 mm	5.3 μ m	Using Vision Measuring Machine by Comparison Method
35.	Standard Wire Gauge ^s	0 to 10 mm	5.5 μ m	Using Vision Measuring Machine by Comparison Method
36.	Thread Pitch Gauge ^s Pitch Flank Angle	0.3 mm to 8.0 mm Upto 90 degree	5.5 μ m 1.3 min	Using Vision Measuring Machine by Comparison Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
37.	Angle Protractor/ Combination Set / Digital Protractor / Clinometers [§] L.C. : 0.1 min. L.C. : 0.1 Deg. / 5 min. L.C. : 1 Deg	0 – 90 ⁰ - 0	3.5 min 35.0 min	Using Slip Gauge Set, Angle Gauge & Sine Bar by Comparison Method
38.	Spline Plug Gauge [§] (Diameter over Pin)	0 to 200 mm	4.0 μ m	Using Single Axis M/c (Horizontal) & Cyl. Setting master & Meas. Pins by Comparison Method
39.	Spline Ring Gauge [§] (Diameter over Pin)	0 to 200 mm	2.5 μ m	Using Slip Gauge Set, Long Slip Gauge & Meas. Pins by Comparison Method
40.	Surface Plate [§]	5000 X 5000 mm	1.5(L+W/125) μ m Where L is in mm	Using Electronic Level
41.	Bench Centre [§] (Center Alignment)	Upto 500 mm	8.5 μ m	Using Parallel Mandrel & Leaver Dial Gauge
42.	Thread Measuring Prism [§]	A B C D	1.0 μ m	Using Electronic Comparator by Comparison Method
43.	Thread Measuring Wires [§]	0.17 mm to 7 mm	0.7 μ m	Using Electronic Comparator by Comparison Method

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44.	Cylindrical Setting Master / Parallel Mandrel ^s (Variation in Diameter / Total Run Out)	Upto 100 mm	1.0 μ m	Using Slip Gauge Set & Electronic Comparator Sine center by Comparison Method
45.	Electronic Probe with DRO / Lever Type Probe ^s L.C.: 0.00001 mm L.C.:0.001 mm	Upto 25 mm Upto 25 mm	0.4 μ m 3.0 μ m	Using Slip Gauge Set by Comparison Method
46.	Caliper Checker / Check Master / Step Gauge / Depth Micro checker/ Internal Micro Checker ^s	0 to 1000 mm 0 to 600 mm	5.5 μ m 3.5 μ m	Using Slip Gauge Set, length Bar & Single Axis Machine by Comparison Method
47.	Floating Carriage Dia Measuring M/C ^s L.C. : 0.1 μ m, 0.2 μ m, 1 μ m	Upto 200 mm	1.7 μ m	Using Cylindrical Master, Electronic Comparator & Parallel Mandrels by Comparison Method
48.	Dial Calibration Tester / Micrometer Head ^s L.C. : 0.1 μ m, 0.2 μ m, 1 μ m	Upto 25 mm	0.8 μ m	Using Electronic Comparator by Comparison Method

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49.	Single Axis Measuring M/C / Length Measuring M/C , Universal Measuring M/C , Horizontal Metroscope ^{\$}	upto 400 mm	$0.3 + (3 \times L) \mu\text{m}$ L is in Meter	Using Slip Gauge Set, length Bar by Comparison Method
50.	Vertical Single Axis Measuring Machine / Electronic Height Gauge ^{\$} L.C. : 0.1 / 0.5 / 1 μm Linearity Squareness	0 to 1000 mm	$1.5 + (3 \times L) \mu\text{m}$ Where L is in Meter	Using Slip Gauge Set, length Bar by Comparison Method
51.	Tape & Scale Calibrator ^{\$}	0 to 1000 mm	$6.1 \mu\text{m}$	Using Slip Gauge Set, length Bar
52.	Video Measuring Machine ^{\$} (X , Y , Z Axis) L.C. : 0.1 / 1 / 5 / 10 μm	0 to 300 mm 0 to 300 mm 0 to 360 degree	$3.8 \mu\text{m}$ $1.3 \mu\text{m}$ 14.31 Sec	Using Glass scale Using Slip Gauge Set & Long Slips Using Angle Graticule
53.	Gauge Block Calibrator ^{\$} L.C. : 0.01 μm	0 to 100 mm	$0.07 \mu\text{m}$	Using Gauge Block 'Grade "K"

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54.	Linear Glass Scale ^{\$} (Graticule / Glass Grid)	Upto 300 mm	2.5 μ m	Using Length Measuring M/c Vision Measuring Machine by Comparison Method
55.	Spirit Level / Frame Level ^{\$} L.C. :0.01 mm / Meter	0 to 400 mm (Base Length)	2.5 μ m	Using Electronics Probe Level Calibrator by Comparison Method
56.	Electronic Level ^{\$} L.C. : 0.001 mm/Meter	0 to 400 mm (Base Length)	1.1 μ m	Using Electronics Probe Level Calibrator by Comparison Method
57.	Sine Bar / Sine Centre ^{\$}	0 to 300 mm 0 to 90 deg	5.5 μ m 18.7 sec	Using Electronic Comparator Slip Gauge Set, Angle Gauge & Single Axis Machine by Comparison Method
58.	Angle Gauges ^{\$}	Upto 90 deg	14.0 sec	Using Electronic Comp. Slip Gauge Set, Sine Bar by Comparison Method
59.	Angle Graticule ^{\$} (Scale)	0° to 360°	73.8 sec	Using Vision Measuring Machine by Comparison Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
60.	Cylinder Square / Granite Square ^s (Squareness)	Upto 600 mm	6.1 μ m	Using Master Granite L-Square & Electronic Comparator by Comparison Method
61.	Gauge Block ^s Central Length Deviation Parallelism	0.5 mm to 25 mm 25mm to 50 mm 50mm to 75 mm 75 mm to 100 mm	0.12 μ m 0.12 μ m 0.15 μ m 0.17 μ m	Using Slip Gauges & Slip Gauge Comparator by Comparison Method
62.	Long Slip Gauges/ Length Bars ^s	Upto 150 mm 150 mm to 300 mm 300 mm to 400 mm 400 mm to 700 mm 700 mm to 1000 mm	0.80 μ m 1.50 μ m 1.80 μ m 2.60 μ m 3.60 μ m	Using Electronic Comparator & Length Bar by Comparison Method
63.	Optical Flat – Type A ^s (Flatness)	Up to 100 mm	0.34 μ m	Using Master Flat & Monochromatic Light
64.	Optical Parallels – Type B ^s (Flatness, Parallelism)	Up to 100 mm	0.7 μ m	Using Master Flat & Monochromatic Light Source & Two Probe Comparator
65.	Surface Roughness Specimen ^s R _a Only	R _a	8.5 %	Using Roughness Tester
66.	Surface Roughness Tester ^s R _a Only	R _a	6.5 %	Using Surface Roughness Masters

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67.	Straight Edge*	Upto 5000 mm	$3.0 \sqrt{L/150} \mu\text{m}$ L is in mm	Using Electronic Level & Electronic Comparator by Comparison Method
68.	Single Axis Measuring M/C / Length Measuring M/C , Universal Measuring M/C , Horizontal Metroscope*	upto 400 mm	$0.3 + (3xL) \mu\text{m}$ L is in Meter	Using Slip Gauge Set, length Bar by Comparison Method
69.	Vertical Single Axis Measuring Machine / Electronic Height Gauge* L.C. : 0.1 / 0.5 / 1 μm Linearity Squareness	0 to 1000 mm	$1.5 + (3xL) \mu\text{m}$ Where L is in Meter	Using Slip Gauge Set, length Bar by Comparison Method
70.	Surface Plate*	5000 X 5000 mm	$1.5 (L+W/125) \mu\text{m}$ Where L is in mm	Using Electronic Level
71.	Tape & Scale Calibrator*	0 to 1000 mm	$6.1 \mu\text{m}$	Using Slip Gauge Set, length Bar by Comparison Method
72.	Video Measuring Machine* (X , Y , Z Axis) L.C. : 0.1 / 1 / 5 / 10 μm	0 to 300 mm 0 to 300 mm 0 to 360 degree	$3.8 \mu\text{m}$ $1.3 \mu\text{m}$ 14.31 Sec	Using Glass scale Using Slip Gauge Set & Long Slips Using Angle Graticule

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73.	Gauge Block Calibrator* L.C. : 0.01 μ m	0 to 100 mm	0.07 μ m	Using Gauge Block 'Grade "K"
74.	Bench Centre* (Center Alignment)	Upto 500 mm	8.5 μ m	Using Parallel Mandrel & Leaver Dial Gauge
II. DIMENSION (PRECISION INSTRUMENTS)				
1.	Profile Projector/ Tool Makers Microscope / Optical Microscope* L.C. 0.1 / 1 / 5 / 10 μ m L.C. 1 / 5 min.	Linear X,Y Axis 0 - 300 mm Angular 0 to 360 deg Magnification Upto 100 X	6.3 μ m 1.2 Min 0.2 %	Using Glass scale Using Angle Graticule Using Digital Caliper
2.	3-D Co Ordinate Measuring Machine * (Linear and Volumetric)	Up to 1000 mm	2.0 + (5xL) μ m L is in Meter	Using Slip Gauge Set, length Bar & Reference sphere by Comparison Method
<u>MOBILE FACILITY</u>				
1.	Caliper ^s (Vernier, Dial, Digital) L. C. 0.01 mm	Upto 600 mm	19.0 μ m	Using Caliper Checker, & Slip Gauge Set by Comparison Method

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2.	Depth Gauge / Depth Micrometer ^s L.C. : 0.01 / 0.001 mm	Up to 300 mm	9.0 μ m	Using Slip Gauge Set, & Long Slip Gauge by Comparison Method
3.	Height Gauge ^s (Vernier, Dial, Digital) L. C. 0.01 mm	Upto 600 mm	18.0 μ m	Using Caliper Checker, & Slip Gauge Set by Comparison Method
4.	External Micrometer ^s (Inclusive of Point, Blade, Ball, Flange, Groove, Disc) L.C. : 0.001 mm L.C.: 0.001 / 0.01 mm	Upto 150 mm Upto 600 mm	1.7 μ m 7.0 μ m	Using Slip Gauge Set, Mic Check Set & Long Slips by Comparison Method
5.	Internal Micrometer / Inside Dial Caliper ^s L.C. : 0.001 / 0.01 / 0.025 mm (Extension not more than 400 mm)	Upto 600 mm	15.0 μ m	Using Slip Gauge Set, & Long Slip Gauge & Electronic Comparator by Comparison Method
6.	Dial Gauge Plunger ^s L.C. : 0.001 / 0.01 mm	Upto 50 mm	3.5 μ m	Using Dial Calibration Tester by Comparison Method

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7.	Dial Gauge Lever [§] L.C. : 0.001 / 0.01 mm	Upto 2 mm	3.5 μ m	Using Dial Calibration Tester by Comparison Method
8.	Bore Dial Gauge [§] (Transmission Accuracy Check Only) L.C. : 0.001 / 0.01 mm	Upto 2 mm	3.5 μ m	Using Dial Calibration Tester by Comparison Method
9.	Plain Plug Gauge / Setting Plug Paddle Gauge / Precision Balls / Measuring Pins / Width Gauge [§]	0 to 100 mm 100 mm to 300 mm 300 mm to 600 mm	1.8 μ m 3.9 μ m 7.0 μ m	Using Slip Gauge Set, & Long Slip Gauge & Electronic Comparator by Comparison Method
10.	Snap Gauge / Setting Gauge / Gap Gauge (C&I Type) [§]	0 to 100 mm 100 mm to 300 mm 300 mm to 600 mm	1.3 μ m 3.6 μ m 7.4 μ m	Using Slip Gauge Set, & Long Slip Gauge by Comparison Method
11.	Micrometer Setting Standard [§]	25 mm to 100 mm 100 mm to 600 mm	1.8 μ m 7.0 μ m	Using Slip Gauge Set, & Long Slip Gauge & Electronic Comparator by Comparison Method
12.	Feeler Gauge [§]	Upto 2 mm	1.8 μ m	Using Digital Micrometer

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13.	Dial Thickness Gauge / Dial Snap Gauge ^{\$} L.C. : 0.001 mm	upto 200 mm	4.0 μ m	Using Slip Gauges by Comparison Method
14.	Angle Protractor / Combination Set ^{\$} L.C. : 5 minute L.C. : 1 Deg.	0 – 90 ⁰ - 0 0 – 90 ⁰ - 0	4.0 min of arc 35.0 min of arc	Using Angle Gauges by Comparison Method
II.	SPEED AND ACCELERATION			
1.	Tachometer / RPM Meter ^{\$} (Non Contact Type)	Upto 100000 RPM	0.5%	Using Indexing Table
III.	ACOUSTICS			
1.	Sound Level Meter ^{\$}	94 dB to 114 dB	0.41 dB	Using Sound Level Calibrator
IV.	PRESSURE INDICATING DEVICES			
1.	Pressure Gauges/ Indicator Switch/Transmitters/ Manometers/Transducer With Indicator/ Test Gauge ^{\$} (Pneumatic and Hydraulic)	0 to 10 bar 0 to 100 bar 0 to 700 bar 0 to 1000 bar	0.014 bar 0.32 bar 1.39 bar 6.14 bar	Using Digital gauge/ Pneumatic pump Using Digital Indicator with transducer Using Digital gauge/ water based Comparator

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2.	Vacuum Gauges / Indicator/Transmitter Switch -Analogue & Digital Type [§]	(-)0.80 to 0 bar	0.013 bar	Using Digital gauge/ Pneumatic pump
3.	Pressure Gauges/ Indicator Switch/Transmitters/ Manometers/ Transducer With Indicator* (Pneumatic and Hydraulic)	0 to 10 bar 0 to 25 kg/cm ² 0 to 100 kg/cm ² 0 to 700 bar 0 to 1000 bar	0.014 bar 0.07 kg/cm ² 0.14 kg/cm ² 0.22 bar 0.15 bar	Using Digital gauge/ Pneumatic pump Using Test Gauge/ water based Comparator Using Digital gauge/ water based Comparator
4.	Vacuum Gauges / Indicator/Transmitter Switch -Analogue & Digital Type*	(-)0.80 to 0 bar	0.013 bar	Using Digital gauge/ Pneumatic pump
V.	TORQUE MEASURING DEVICES			
1.	Torque Transducer/ Torque Sensor/ Torque Meter/ Torque Tester/Torque Measuring Devices/Rotary Torque Sensors [§]	1 Nm to 1000 Nm	0.29 %	Using Torque Calibration Rig and Newtonian Dead Weights:

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Validity 26.10.2018 to 25.10.2020 **Last Amended on** 19.11.2018

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
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2.	Torque Wrench / Torque Meter/ Digital Torque Wrench/Torque Screw Driver ^{\$} A. Torque Indicator Type I (A,B,C,D,E) B.Torque Setting Type II (A,B,C,D,E,F,G)	1 Nm to 1000 Nm	1.31 %	Using Digital Torque Tester:
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* Measurement Capability is expressed as an uncertainty (\pm) at a confidence probability of 95%

^{\$} Only in Permanent Laboratory

* Only for Site Calibration

The laboratory is also capable for site calibration however, the uncertainty at site depends on the prevailing actual environmental conditions and master equipment used.

^Φ Laboratory can also calibrate instruments/devices of coarser resolution / least count within the accredited range using same reference standard/ master equipment under the scope of accreditation.

Mohit Kaushik
Convenor

Avijit Das
Program Manager