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Validity 

SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
		MECHANIC	AL CALIBRATION	
I.	DIMENSION (BASIC I	MEASURING INSTRUM	ENT, GAUGE ETC.)	
1.	Calipers <sup>\$</sup> (Vernier/Dial/Digital) L.C:0.01mm	0 to 300 mm 0 to 600 mm 0 to 1000 mm	7.2 μm 8.6 μm 14.7μm	Using Slip Gauge Set Grade '0', Caliper Checker, Length Bar & Slip Gauge Accessories by Comparison Method
2.	Depth Micrometer <sup>\$</sup> (Vernier/Dial/Digital) L.C:0.01mm	0 to 150 mm	6.3 µm	Using Slip Gauge Set Grade '0', & Gauge Block Accessories by Comparison Method
3.	External Micrometer <sup>\$</sup> (Analog/Digital) L.C.:0.001mm	0 to 150mm 150 mm to 300mm 300 mm to 600mm 600 mm to 1000mm	1.7 µm 4.1 µm 5.6 µm 9.5 µm	Using Slip Gauge Set Grade '0', length bar by Comparison Method
4.	Internal Micrometer/ Stick Micrometer\$ L.C:0.01mm	0 to 600mm 0 to 1000mm	9.3 μm 12.2 μm	Using Slip Gauge Set Grade '0', Gauge Block Accessories Set & Length bar by Comparison Method

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
5.	Plunger Type (Dial/Digital) Indicator <sup>\$</sup> L.C:0.001mm	0 to 25mm	6.7µm	Using Dial Calibration Tester by Comparison Method
6.	Lever Type (Dial/Digital) Indicators <sup>\$</sup> L.C:0.001mm L.C:0.01mm	0 to 0.2 mm 0 to 2 mm	1.6 µm 6.7 µm	Using Dial Calibration Tester by Comparison Method
7.	Plain Plug Gauge <sup>\$</sup>	1mm to 100mm	2.8 µm	Using Gauge Block, Dial Gauge By Comparison Method
8.	Width Gauge <sup>\$</sup>	1mm to 100mm	3.6 µm	Using Gauge Block, Dial Gauge By Comparison Method
9.	Radius Gauge <sup>\$</sup>	Up to 25 mm	4.1 μm	Using Profile Projector By Direct Method
10.	Pitch Gauge <sup>\$</sup>	Up to 25 mm Angle: Up to 75°	4.0 μm 2.8 min	Using Profile Projector By Direct Method
11.	Test Sieves <sup>\$</sup>	0.03 mm to 10 mm 10 mm to 30 mm	3.7 µm 4.3 µm	Using Profile Projector By Direct method

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
12.	Bevel Protractor\$ (Vernier/Digital)	0 to 360° (0° - 90° - 0°)	3.6 min	Using Profile Projector By Direct method
13.	Snap Gauge/Adjustable Snap Gauge <sup>\$</sup>	1 mm to 200mm	3.6 µm	Using Slip gauge Set Grade '0' by Comparison Method
14.	Dial Depth Gauge <sup>\$</sup> L.C:0.01mm	0 to 10 mm	5.8 µm	Using Slip Gauge Set Grade '0' by Comparison Method
15.	Feeler Gauge <sup>\$</sup>	0.05 to 1.0mm	2.8 µm	Using Digital Micrometer by Direct Method
16.	Bore Gauge <sup>\$</sup> (Dial/Digital) (Only Transmission)	Up to 2.0 mm	4.0 μm	Using Dial Calibration Tester by Comparison Method
17.	Thickness Gauge <sup>\$</sup> (Dial/Digital) L.C:0.01mm	0 to 50mm	5.8 µm	Using Slip Gauge Set Grade '0' by Comparison Method
18.	Height Gauge <sup>\$</sup> (Vernier/Digital/Dial) L.C: 0.01mm	0 to 600mm	6.9 µm	Using Caliper Checker by Comparison Method

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
19.	Pistol Caliper <sup>\$</sup> L.C:0.1mm	0 to 100mm	57.8 μm	Using Slip Gauge Set Grade '0' by Comparison Method
20.	Depth Caliper \$ (Vernier/Dial/Digital) L.C:0.01mm	0 to 300 mm	6.8 µm	Using Slip Gauge Set Grade '0', Gauge Block Accessories & Caliper Checker by Comparison Method
21.	Dial Caliper Gauge/Groove Dial/ Inside Caliper Gauge <sup>\$</sup> L.C:0.01mm	10 mm to 150mm	5.9 μm	Using Slip Gauge Set Grade '0', & Slip gauge Accessories by Comparison Method
22.	Coating Thickness Gauge <sup>\$</sup>	0 to 2mm	1.8 μm	Using Standard Foils by Comparison Method
23.	Foils <sup>\$</sup>	5 to 250 μm 250μm to 5mm	2.2 μm 2.2 μm	Using Digital Micrometer by Direct Method IS:7814
24.	Setting Rod \$	25 mm to 200mm 200 mm to 1000mm	3.1 μm 8.1 μm	Using Slip Gauge Set Grade '0', Length bar & comparator Stand by Comparison Method

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
25.	Dial Snap Gauge <sup>\$</sup>	0 to 100mm	1.6 μm	Using Slip Gauge Set Grade ' 0' by Comparison Method
26.	Spirit Level <sup>\$</sup>	Sensitivity 0.01 mm/meter	13.4 µm/meter	Using Electronic Level & Tilting Table by Direct Method
27.	Height Measuring System* (Electronic) L.C:0.001 mm	0 to 1000 mm	9.8 μm	Using Length bar by Comparison Method
28.	Surface plate*	3000 mm X 3000 mm	$1.0\sqrt{\frac{L+W}{100}}$ µm L & W in mm L – Length W – Width	Using Electronic Level And Steel Bridge By Direct Method
29.	Measuring Scale L.C.:0.5 mm	0 to 300 mm	290μm	Using Profile projector by Direct Method
II.	DIMENSION (PRECIS	SION INSTRUMENTS)		
1.	Profile projector * Linear L.C:0.001mm Angle L.C:14" Magnification	0 to 250 mm 0 to 360 ° 5X to 100X	17 μm 0.3 min 0.22%	Using Graticules scale, '0' Grade Slip gauge set by Comparison Method

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
III.	PRESSURE INDICAT	ING DEVICES		
1.	Pressure Gauges/Switch Pressure Transducers with indicator#	0 to 40 bar 0 to 700 bar	0.021 % rdg 0.018 % rdg	Using Pressure & Vacuum Calibrator by Comparison Method
2.	Vacuum Gauges/ Switch Vacuum Transducers with indicator#	(-) 0.1 to (-) 0.8 bar	0.34 % rdg	Using Pressure & Vacuum Calibrator by Comparison Method
IV.	UTM, TENSION CREE	P AND TORSION TES	TING MACHINE	
1.	Force Measuring System*  UTM/CTM Compression  Tension	10kN to 1000 kN 10kN to 200 kN	0.25 % 0.41%	Using Load cell with Indicator based By Comparison Method

<sup>\*</sup> Measurement Capability is expressed as an uncertainty (±) at a confidence probability of 95%

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<sup>&</sup>lt;sup>\$</sup>Only in Permanent Laboratory

<sup>\*</sup>Only for Site Calibration

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