National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS PRIVATE LIMITED, NO.216, 1ST CROSS, RAJIV GANDHI NAGAR, NANDINI LAYOUT POST, BANGALORE, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
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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	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with DMM & HV Source by Comparison method	1 kV to 28 kV	5.69 % to 6.32 %
2	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM & HV Source by Comparison method	1 kV to 40 kV	3.62 % to 3.46 %
3	FLUID FLOW-FLOW MEASURING DEVICES	Velocity – Anemometer / Hot wire anemometer / Vane Anemometer / Pitot Tube	Using Wind tunnel control unit Thermal anemometer by Comparison method	1 m/s to 5 m/s	0.24 m/s
4	FLUID FLOW-FLOW MEASURING DEVICES	Velocity – Anemometer / Hot wire anemometer / Vane Anemometer / Pitot Tube	Using Wind tunnel control unit Thermal anemometer by Comparison method	5 m/s to 28 m/s	1 m/s
5	MECHANICAL-DENSITY AND VISCOSITY	Density Hydrometer, Brix Hydrometer, Baume Hydrometer, Twaddle Hydrometer, Specific Gravity Hydrometer, Lactometer, Alcoholmeter	Using Digital Weighing balance and distilled water by Cuckow's method and ASTM E126	0.6 g/ml to 2.0 g/ml	0.00011 g/ml

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6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Graticule L.C: 1°	Using Video Measuring System by Comparison method	0° to 180°	1.8 minute
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor L.C: 5 minute	Using Video Measuring System by comparison method	0° to 90°	3.4 minute of arc
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge LC: 0.001mm	Using Electronic Dial gauge calibration Tester by comparison method	0 to 2 mm Transmission	2.1 µm
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Analog / Dial / Digital) LC: 0.01 mm	Using Caliper Checker & Gauge Block by Comparison method	0 to 1000 mm	9.7 µm
10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge LC: 0.1 µm	Using Standard Thickness Foils by Comparison method	9 µm to 2000 µm	2.0 µm

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11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set Resolution: 1°	Using Video Measuring System by Comparison method	0° to 180°	17.5 minute of arc
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Dial Stand (Flatness)	Using Lever dial & Height Gauge by Comparison method	0 to 300 mm	5.0 µm
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer, LC: 0.01 mm	Using Gauge Block Set by Comparison method	0 to 300 mm	7.3 µm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Vernier (Analog / Dial / Digital) LC: 0.01 mm	Using Gauge Block Set by Comparison method	0 to 300 mm	8.1 µm
15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge- Plunger type (Analog / Digital) LC: 0.001 mm	Using Electronic Dial gauge calibration Tester by Comparison method	0 to 25 mm	2.3 µm

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16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge LC: 0.001 mm	Using Gauge Block Set by Comparison method	0 to 10 mm	1.5 µm
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog / Digital / Flange / Point / V Anvil / Pitch) LC: 0.001 mm	Using Gauge Block Set by Comparison method	0 to 300 mm	3.0 µm
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog / Digital / Flange / Point / V Anvil / Pitch) LC: 0.001 mm	Using Gauge Block Set by Comparison method	300 to 600 mm	3.2 µm
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Groove Dial / Leg Caliper (OD & ID)Gauge LC: 0.01 mm	Using Gauge Block Set by Comparison method	0 to 150 mm	7.0 µm
20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Dial / Digital & Analog) LC: 0.01 mm	Using Caliper Checker, Surface Table by Comparison method	0 to 1000 mm	10 µm

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21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge L.C: 0.001 mm	Using Electronic Dial gauge calibration Tester by Comparison method	0 to 0.14 mm	1.9 µm
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge L.C: 0.002 mm	Using Electronic Dial gauge calibration Tester by Comparison method	0 to 0.2 mm	1.7 µm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge L.C: 0.01 mm	Using Electronic Dial gauge calibration Tester by Comparison method	0 to 1 mm	6.1 µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauges	Using Video Measuring System by Comparison method	0.5 mm to 25.0 mm	6.3 µm
25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Setting Rods & Extensions Rods	Using Gauge Block Set by Comparison method	0 to 600 mm	10.0 µm

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26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Stage Micrometer L.C: 0.01 mm	Using Video Measuring System by Direct method	0 to 7 mm	28 µm
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Templates (Angular)	Using Video Measuring System by Direct method	0° to 180°	3 minute of arc
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Templates (Linear)	Using Video Measuring System by Direct method	0 to 100 mm	6.4 µm
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Video Measuring System by Direct method	0.032 mm to 1 mm	6.4 µm
30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Video Measuring System by Direct method	1 mm to 100 mm	6.4 µm

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31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge, (Pitch Angle)	Using Video Measuring System by Comparison method	55° to 60°	3.6 minute of arc
32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge, (Pitch Length)	Using Video Measuring System by Comparison method	0.3 mm to 6.0 mm	6.3 µm
33	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Specimens (Ra & Rz)	Using Surface Roughness Master Specimen & Surface Roughness Tester (Stand Alone Unit) by comparison Method	Up to 12.5 µm	7.3 %
34	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Tester (Portable) Ra, Rz, Rmax	Using Master Roughness Specimens by Comparison method	Up to 12.5 µm	6.23%
35	MECHANICAL-DUROMETER	Shore Hardness Tester, Durometer (Type A, B, C, D, E, M, O, OO, OOO, OOO-S, AM, AO, DO, C1L): Spring Force Measurement Method	Using Shore Hardness Testing Machine by Load Cell with Indicator by Direct Method	0 to 100 Shore A	0.82 Shore A

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36	MECHANICAL-DUROMETER	Shore Hardness Tester, Durometer (Type A, B, C, D, E, M, O, OO, OOO, OOO-S, AM, AO, DO, C1L): Spring Force Measurement Method	Using Shore Hardness Testing Machine by Load Cell with Indicator by Direct Method	0 to 100 Shore D	0.15 Shore D
37	MECHANICAL-FORCE PROVING INSTRUMENTS	Load cell / Force Proving Instrument	Using Dead weight force calibration machine with Stainless steel newton weights as per IS 4169: 2014 by Comparison Method	100 N to 10 kN	0.05%
38	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Gauge, Force Gauge	Using Stainless Steel Weights as per VDI/VDE 2624 Part 2.1 (2008)	3 N to 500 N	0.7 N
39	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Gauge, Force Gauge	Using Stainless Steel Weights as per VDI/VDE 2624 Part 2.1 (2008)	500 N to 2000 N	1.0 N
40	MECHANICAL-TORQUE GENERATING DEVICES	Rotary Torque Tool / Nut Runner / Impact Torque Tool (Pneumatic, Electrical, Battery operated, Hydraulic and Oil Tool)	Using Torque Calibration System and Torque Sensor by Comparison Method as per ISO 5393:2017	10 Nm to 20 Nm	0.75 %

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41	MECHANICAL-TORQUE GENERATING DEVICES	Rotary Torque Tool / Nut Runner / Impact Torque Tool (Pneumatic, Electrical, Battery operated, Hydraulic and Oil Tool)	Using Torque Calibration System and Torque Sensor by Comparison Method as per ISO 5393:2017	20 Nm to 50 Nm	0.8 %
42	MECHANICAL-TORQUE GENERATING DEVICES	Rotary Torque Tool / Nut Runner / Impact Torque Tool (Pneumatic, Electrical, Battery operated, Hydraulic and Oil Tool)	Using Torque Calibration System and Torque Sensor by Comparison Method as per ISO 5393:2017	50 Nm to 200 Nm	0.81 %
43	MECHANICAL-TORQUE GENERATING DEVICES	Rotary Torque Tool / Nut Runner / Impact Torque Tool(Pneumatic, Electrical, Battery operated, Hydraulic and Oil Tool)	Using Torque Calibration System and Torque Sensor by Comparison Method as per ISO 5393:2017	1 Nm to 10 Nm	2.38 %
44	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrenches / Screw Drivers, Pneumatic / Electrical Screw Drivers Type I Class A, B, C, D, E & Torque setting Type II, Class A, B, C, D, E, F, G	Using Torque Wrench Calibration System with Torque Sensor and Digital Torque Indicator by Direct Method as per ISO 6789-1:2017 and ISO 6789-2:2017	0.2 Nm to 2.0 Nm	0.74 %

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45	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrenches / Screw Drivers, Pneumatic / Electrical Screw Drivers Type I Class A,B,C,D,E & Torque setting Type II, Class A, B, C, D, E, F, G	Using Torque Wrench Calibration System with Torque Sensor and Digital Torque Indicator by Direct Method as per ISO 6789-1:2017 and ISO 6789-2:2017	2 Nm to 20 Nm	0.74 %
46	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrenches Type I Class A, B, C, D, E & Torque setting Type II, Class A, B, C, D, E, F, G	Using Torque Wrench Calibration System with Torque Sensor and Digital Torque Indicator by Direct Method as per ISO 6789-1:2017 and ISO 6789-2:2017	300 Nm to 3000 Nm	0.76 %
47	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrenches Type I Class A, B, C, D, E & Torque Setting Type II, Class A, B, C, D, E, F, G	Using Torque Wrench Calibration System with Torque Sensor and Digital Torque Indicator by Direct Method as per ISO 6789-1:2017 and ISO 6789-2:2017	20 Nm to 200 Nm	0.37 %

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48	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrenches Type I Class A, B, C, D, E & Torque setting Type II, Class A, B, C, D, E, F, G	Using Torque Wrench Calibration System with Torque Sensor and Digital Torque Indicator by Direct Method per as ISO 6789-1:2017 and ISO 6789-2:2017	200 Nm to 2000 Nm	0.26 %
49	MECHANICAL-TORQUE MEASURING DEVICES	Torque Calibrator, Torque Transducers and Torque Sensors with Indicator, Torque Meters ,Torque Tester	Using Dead Weight Torque Calibration System Consisting of Lever Arm and Stainless Steel / Aluminum Dead Weights as per BS:7882:2017	0.2 Nm to 2 Nm	0.03 %
50	MECHANICAL-TORQUE MEASURING DEVICES	Torque Calibrator, Torque Transducers and Torque Sensors with Indicator, Torque Meters, Torque Tester	Using Dead Weight Torque Calibration System Consisting of Lever Arm and Stainless Steel / Aluminum Dead Weights, as per BS:7882:2017	2 Nm to 20 Nm	0.03 %

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51	MECHANICAL-TORQUE MEASURING DEVICES	Torque Calibrator, Torque Transducers and Torque Sensors with Indicator, Torque Meters,Torque Tester	Using Dead Weight Torque Calibration System Consisting of Pulley and Aluminum Dead Weights as per BS:7882:2017	20 Nm to 200 Nm	0.03 %
52	MECHANICAL-TORQUE MEASURING DEVICES	Torque Calibrator, Torque Transducers and Torque Sensors with Indicator, Torque Meters,Torque Tester	Using Dead Weight Torque Calibration System Consisting of Lever Arm and Stain Less / Aluminum Dead Weights as per BS: 7882:2017	200 Nm to 2000 Nm	0.02 %
53	OPTICAL-OPTICAL	Lux Meter / Light Meter / Illuminance Meter	Using Standard Lux meter by Comparison method	10 lux to 19000 lux	3.6 % rdg

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Site Facility					
1	FLUID FLOW-FLOW MEASURING DEVICES	Volume flow rate (Media : Water), Analog and Digital Flow meters, Volume Flow rate measuring devices	Using Ultrasonic hand held flow meter with multiple clamp on sensors by Comparison method	18 lpm to 13500 lpm	2.8 %

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