



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

NATIONAL CENTRE FOR QUALITY CALIBRATION, 4, ABHISHREE CORPORATE PARK, ISCKON-AMBLI ROAD, AMBLI, AHMEDABAD, AHMEDABAD, GUJARAT, 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 /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
88	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time (Timer, Stop Watch)	Using Digital Timer by Comparison Method	43200 s to 86400 s	5 s to 24.16 s
89	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time (Timer, Stop Watch)	Using Digital Timer by Comparison Method	60 s to 900 s	0.06 s to 0.60 s
90	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time (Timer, Stop Watch)	Using Digital Timer by Comparison Method	900 s to 1800 s	0.60 s to 0.63 s
91	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Fluke Multi-product Calibrator (5522A) by Direct Method	1 Hz to 2 MHz	0.014%
92	MECHANICAL-ACCELERATION AND SPEED	Centrifuge / RPM Measurement	Using Master Tachometer	10 RPM to 12000 RPM	3.5RPM
93	MECHANICAL-ACCELERATION AND SPEED	RPM Meter / Tachometer (Contact)	Using Master Tachometer and RPM Source	10 RPM to 500 RPM	1RPM
94	MECHANICAL-ACCELERATION AND SPEED	RPM Meter / Tachometer (Contact)	Using Master Tachometer and RPM Source	500 RPM to 12000 RPM	3.5RPM
95	MECHANICAL-ACCELERATION AND SPEED	RPM Meter / Tachometer (Non Contact)	Using Master Tachometer and RPM Source	10 RPM to 30 RPM	1RPM



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96	MECHANICAL-ACCELERATION AND SPEED	RPM Meter / Tachometer (Non Contact)	Using Master Tachometer and RPM Source	1000 RPM to 10000 RPM	3.1
97	MECHANICAL-ACCELERATION AND SPEED	RPM Meter / Tachometer (Non Contact)	Using Master Tachometer and RPM Source	10000 RPM to 50000 RPM	6.1
98	MECHANICAL-ACCELERATION AND SPEED	RPM Meter / Tachometer (Non Contact)	Using Master Tachometer and RPM Source	30 RPM to 1000 RPM	3.1
99	MECHANICAL-ACCELERATION AND SPEED	RPM Meter / Tachometer (Non Contact)	Using Master Tachometer and RPM Source	50000 RPM to 99999 RPM	6.5
100	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Acoustic Calibrator as per IS 15575 (Part 1 & 2)	114 dB @ 1 kHz	0.5dB
101	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Acoustic Calibrator as per IS 15575 (Part 1 & 2)	94 dB @ 1 kHz	0.5dB
102	MECHANICAL-DENSITY AND VISCOSITY	Baume Hydrometer	Using Standard Weight of Accuracy Class E1 & E2 with Digital Weighing Balance (readability: 0.0001 g / 0.001 g) by Gravimetric (Cuckow's) Method	0 °Be to 70 °Be	0.001g/ml



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103	MECHANICAL-DENSITY AND VISCOSITY	Density Hydrometer	Using Standard Weight of Accuracy Class E1 & E2 with Digital Weighing Balance (readability: 0.0001 g / 0.001 g) by Gravimetric (Cuckow's) Method	0.6 g/ml to 2 g/ml	0.15%
104	MECHANICAL-DENSITY AND VISCOSITY	Flow Cups	Using standard viscosity Oil as per IS 3944 and ASTM 1200D	7 cSt to 180 cSt	0.35%
105	MECHANICAL-DENSITY AND VISCOSITY	Specific Gravity Hydrometer	Using Standard Weight of Accuracy Class E1 & E2 with Digital Weighing Balance (readability: 0.0001 g / 0.001 g) by Gravimetric (Cuckow's) Method	0.6 Sp.Gr. to 2 Sp.Gr.	0.001g/ml
106	MECHANICAL-DENSITY AND VISCOSITY	Viscometer (Capillary Glass) Constant	Using Certified Newtonion Viscosity Standard & Temperature Controlled Liquid Bath as per ASTM 445, 446 and ISO 3104	99.62 mm ² /s to 316.1 mm ² /s	0.62%



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107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Protractor (L.C.: 0.1°)	Using Profile Projector	0 ° to 180 °	24.13minute of arc
108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Stips	Using Profile Projector	0 ° to 360 °	1.25minute of arc
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center (Co-axiality of Center)	Using Plunger Dial Indicator, Cylindrical Test Mandrel & Taper Mandrel as per IS 5980	0 to 500 mm	6.2µm
110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center (Parallelism)	Using Plunger Dial Indicator, Cylindrical Test Mandrel & Taper Mandrel as per IS 5980	0 to 500 mm	5.5µm
111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector / Inclinator (L.C.: 1 minute)	Using Slip Gauge, Angle Gauges & Surface Plate as per IS 4239	0° - 90° - 0°	0.6minute of arc



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112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector / Inclinator (L.C.: 1 minute)	Using Profile Projector as per IS 4239	0° - 90° - 0°	34minute of arc
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (L.C.: 0.01 mm)	Using Dial Calibration Tester / Length Measuring Machine	0 to 2 mm	2.1µm
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Electronics (L.C.: 0.001 mm)	Using Slip Gauge Set, Slip Gauge Accessories Set, Digital External Micrometer & Internal Micro-checker as per IS 3651	0 to 150 mm	1.4µm
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Electronics (L.C.: 0.01 mm)	Using Slip Gauge Set, Digital External Micrometer & Length Bars as per IS 3651	0 to 1000 mm	13.1µm
116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Electronics (L.C.: 0.01 mm)	Using Slip Gauge Set, Slip Gauge Set Accessories, Digital External Micrometer And Internal Microchecker based on IS 3651	0 to 300 mm	7.93µm



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117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Electronics (L.C.: 0.01 mm)	Using Slip Gauge Set, Digital External Micrometer & Length Bars as per IS 3651	0 to 600 mm	9.5µm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Circumference / Pi Tape	Using tape and scale calibrator	0 to 50 m	133 vLµm, L in meter
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 1 µm)	Using Standard Foils	10 µm to 2000 µm	5.9µm
120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 1 µm)	Using Standard Foils	2001 µm to 5000 µm	5.9µm
121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set	Using Slip Gauge, Angle Gauges & Surface Plate as per IS 4239	0 ° to 180 °	17.32minute of arc



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122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set	Using Profile Projector as per IS 4239	0 ° to 180 °	34minute of arc
123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cross Hach Cutter	Using Profile Projector	0 to 3 mm	7µm
124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge - Vernier / Dial / Electronics (L.C.: 0.01 mm)	Using Depth Micro-checker, Surface Plate & Slip Gauge Set as per IS 4213	0 to 300 mm	9.22µm
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C.: 0.001 mm)	Using Depth Micro-checker, Surface Plate & Slip Gauge Set as per BS 6468	0 to 300 mm	4.92µm
126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C.: 0.01 mm)	Using Depth Micro-checker, Surface Plate & Slip Gauge Set as per BS 6468	0 to 300 mm	9.07µm



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127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Calibration Tester (L.C.: 0.1 µm)	Using Slip Gauge Set & Electronic Probe	0 to 25 mm	1.21µm
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator - Lever (L.C.: 0.001 mm)	Using Dial Calibration Tester / Length Measuring Machine as per IS 11498	0 to 2 mm	1.6µm
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator - Lever (L.C.: 0.01 mm)	Using Length Measuring Machine	0 to 2 mm	1.62µm
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator - Lever (L.C.: 0.5 µm)	Using Dial Calibration Tester / Length Measuring Machine as per IS 11498	0 to 50 µm	1.3µm
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator - Plunger (L.C.: 0.001 mm)	Using Dial Calibration Tester / Length Measuring Machine as per IS 2092	0 to 25 mm	1.6µm



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132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator - Plunger (L.C.: 0.01 mm)	Using Length Measuring Machine	0 to 50 mm	1.62µm
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator - Plunger (L.C.: 0.5 µm)	Using Dial Calibration Tester / Length Measuring Machine as per IS 2092	0 to 50 µm	1.3µm
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Extensometer (L.C.: 0.001 mm)	Using Dial Calibration Tester as per IS 12872	0 to 2 mm	6.54µm
135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Extensometer (L.C.: 0.001 mm)	Using Electronic Caliper as per IS 12872	0 to 25 mm	25.8µm
136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Extensometer (L.C.: 0.001 mm)	Using Electronic Caliper as per IS 12872	0 to 50 mm	25.8µm



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137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Spirit Level - Flatness (L.C.: 0.01 mm/m & coarser)	Using Electronic Level, Slip Gauge Set, Master Cylinder, Electronic Probe, Tilting Table & Surface Plate as per IS 5706	0 to 300 mm	7.58µm
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Spirit Level - Sensitivity (L.C.: 0.01 mm/m & coarser)	Using Electronic Level, Slip Gauge Set, Master Cylinder, Electronic Probe, Tilting Table & Surface Plate as per IS 5706	0 to 300 mm	16.04µm/m
139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Spirit Level - Squareness & Parallelism (L.C.: 0.01 mm/m & coarser)	Using Electronic Level, Slip Gauge Set, Master Cylinder, Electronic Probe, Tilting Table & Surface Plate as per IS 5706	0 to 300 mm	9.04µm
140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Square - Flatness	Using Master Cylinder, Slip Gauge Set & Surface Plate as per IS 2103	0 to 300 mm	7µm
141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Square - Parallelism	Using Master Cylinder, Slip Gauge Set & Surface Plate as per IS 2103	0 to 300 mm	9µm



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142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Square - Perpendicularity	Using Master Cylinder, Slip Gauge Set & Surface Plate as per IS 2103	0 to 300 mm	8.8µm
143	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Slip Gauge Set, Length Bars, Optical Parallel & Optical Flat as per IS 2967	0 to 150 mm	1.52µm
144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Slip Gauge Set, Optical Parallel & Optical Flat as per IS 2967	0 to 25 mm	0.7µm
145	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Slip Gauge Set, Optical Parallel & Optical Flat as per IS 2967	25 mm to 50 mm	0.83µm
146	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Slip Gauge Set, Length Bars, Optical Parallel & Optical Flat as per IS 2967	75 mm to 100 mm	1µm



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147	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.01 mm)	Using Slip Gauge Set, Length Bars, Optical Parallel & Optical Flat as per IS 2967	150 mm to 600 mm	9.5µm
148	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (LC. 0.001 mm)	Using Slip Gauge Get, Optical Parallel & Optical Flat as per IS 2967	50 mm to 75 mm	0.91µm
149	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using LMM as per IS 3179	0.01 mm to 5 mm	1.3µm
150	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flakiness & Elongation Gauge	Using Electronic Caliper	0 to 100 mm	16µm
151	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hegman Gauge	Using electronic probe with DRO	0 to 100 µm	1.6µm



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152	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (L.C.: 0.0001 mm)	Using Surface Plate, Slip Gauge Set & Length Bars as per IS 2921	0 to 600 mm	8.4µm
153	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (L.C.: 0.01 mm)	Using Surface Plate, Slip Gauge Set & Length Bars as per IS 2921	0 to 600 mm	10.8µm
154	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (L.C.: 0.02 mm)	Using Surface Plate, Slip Gauge Set & Length Bars as per IS 2921	0 to 1000 mm	16.9µm
155	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Dial Caliper Gauge (L.C.: 0.01 mm)	Using Slip Gauge Set & Slip Gauge Accessories Set	0.01 mm to 100 mm	6.8µm
156	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer - Stick Type (L.C.: 0.01 mm)	Using LMM based Internal Micro-checker & Length Bar as per IS 2966	0.01 mm to 1000 mm	9.8µm



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157	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Linear Probe / LVDT (L.C.: 0.1 µm)	Using Slip Gauge Set	0 to 2 mm	0.23µm
158	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Linear Probe / LVDT (L.C.: 0.1 µm)	Using Length Measuring Machine	0 to 25 mm	0.4µm
159	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Master Block for Ultrasonic Thickness Gauge / Step Gauge	Using External Micrometer / Slip Gauge / Comparator / Probe by Comparison Method	0 to 10 mm	4.7µm
160	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale / Taper Scale (L.C.: 0.1 mm)	Using Tape & Scale Calibrator as per IS 1481	0 to 150 mm	117µm
161	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale / Taper Scale (L.C.: 0.5 mm)	Using Tape & Scale Calibrator as per IS 1481	0 to 1000 mm	117µm



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162	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale / Taper Scale (L.C.: 0.5 mm)	Using Tape & Scale Calibrator as per IS 1481	0 to 2000 mm	176.6µm
163	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale / Taper Scale (L.C.: 0.5 mm)	Using Tape & Scale Calibrator as per IS 1481	0 to 300 mm	117µm
164	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale / Taper Scale (L.C.: 0.5 mm)	Using Tape & Scale Calibrator as per IS 1481	0 to 600 mm	117µm
165	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape (L.C.: 0.1 mm)	Using Tape & Scale Calibrator as per IS 1269	0.1 meter to 50 meter	134 vLµm, L in meter
166	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head (L.C.: 0.001 mm)	Using LMM as per IS 9483	0.001 mm to 100 mm	1.3µm



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167	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod (Flat Ended / Round Ended)	Using Slip Gauge Set, Electronic Probe with DRO & Granite Comparator	1 mm to 600 mm	6.4µm
168	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Microscope - Linear Measurement	Using Slip Gauge Set, Glass Scale & Micrometer Eye Piece as per ISO 10936 (Part-1)	0 to 10 mm	0.74%
169	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Microscope - Magnification	Using Slip Gauge Set, Glass Scale & Micrometer Eye Piece as per ISO 10936 (Part-1)	10 X to 1000 X	0.4%
170	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Mould / Cube Mould	Using Electronic Caliper	0 to 150 mm	20µm
171	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Penetrometer	Using Slip Gauge Set	0 to 40 mm	60µm



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172	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pin Gauge / Measuring Pin / Thread Measuring Pin	Using LMM as per IS 11103	0.5 mm to 20 mm	1.32µm
173	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper (L.C.: 0.05 mm)	Using Slip Gauge	0 to 80 mm	61µm
174	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pit Gauge / Welding Gauge / Weld Hi-Lo Gauge / Bridge cam Gauge / Weld Gauge - Angle	Using Profile Projector, Angle Gauge Blocks & Slip Gauge Set	0 ° to 90 °	8.1minute of arc
175	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pit Gauge / Welding Gauge / Weld Hi-Lo Gauge / Bridge Cam Gauge / Weld Gauge - Linear	Using Angle Gauge Blocks & Slip Gauge Set	0 to 60 mm	288.7µm
176	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pit Gauge / Welding Gauge / Weld Hi-Lo Gauge / Bridge Cam Gauge / Weld Gauge - Linear	Using Profile Projector	0 to 60 mm	6.7µm



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177	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using LMM & Setting Disc as per IS 3455, IS 6137, IS 6244 & IS 6246	100 mm to 200 mm	3µm
178	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using LMM & Setting Disc as per IS 3455, IS 6137, IS 6244 & IS 6246	2 mm to 100 mm	1.2µm
179	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using LMM & Master Setting Ring Gauge as per IS 3455	3 mm to 200 mm	2.6µm
180	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector - Angle Measurement (L.C.: 0.001°)	Using Angle Graticules	0 ° to 360 °	5.86minute of arc
181	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector - Linear: X-Y Axis (L.C.: 1 µm)	Using Glass Scale	0 to 200 mm	4.9µm



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182	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector - Magnification	Using Glass Scale & Electronic Caliper	10 X to 100 X	0.41%
183	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Profile Projector as per IS 5273	0.5 mm to 50 mm	7.3µm
184	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar - Angular Measurement	Using Angle Gauge Set & Surface Plate as per IS 5359	0 to 300 mm	19.6second
185	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar - Parallelism	Using Surface Plate, Electronic Probe & Slip Gauge Set as per IS 5359	0 to 300 mm	4.4µm
186	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge / Gap Gauge	Using Slip Gauges as per IS 7876, IS 3477, IS 8023 & IS 3455	200 mm to 300 mm	5.6µm



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187	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge / Gap Gauge	Using LMM as per IS 7876, IS 3477, IS 8023 & IS 3455	5 mm to 200 mm	2.7µm
188	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Standard Foils	Using LMM	1 µm to 5000 µm	0.72µm
189	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Standard Foils	Using LMM	5 mm to 10 mm	0.72µm
190	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Standard Wire Gauge	Using Profile Projector	0.19 mm to 8 mm	4.21µm
191	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge - Parallelism	Using Slip Gauge Set & Surface Plate as per IS 2220 & IS 12937	0 to 1000 mm	10.6µm



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192	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge - Parallelism	Using Electronic Probe / Slip Gauge Set & Surface Plate as per IS 2220 & IS 12937	0 to 300 mm	4µm
193	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge - Straightness	Using Slip Gauge Set & Surface Plate as per IS 2220 & IS 12937	0 to 1000 mm	8.1µm
194	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge - Straightness	Using Electronic Probe / Slip Gauge Set & Surface Plate as per IS 2220 & IS 12937	0 to 300 mm	4µm
195	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate - Flatness	Using Electronic Level & Spirit Level as per IS 2285 & IS 7327	0 mm to 3000 mm	0.99 $\sqrt{\{(L+W)/100\}}$ µm, L & W in mm
196	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tape & Scale Calibrator (L.C.: 1 µm)	Using Slip Gauge Set & Length Bar	0 to 1000 mm	15.3µm



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197	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plug Gauge (Major Diameter & Angle)	Using LMM & Master Setting Disc as per IS 9529, IS 2251 & IS 9475	100 mm to 200 mm	2.6µm
198	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plug Gauge (Major Diameter & Angle)	Using LMM & Master Setting Disc as per IS 9529, IS 2251 & IS 9475	Up to 100 mm	2.4µm
199	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Ring Gauge (Angle)	Using LMM & Master Setting Ring Gauge as per IS 9529, IS 2251 & IS 9475	1 ° to 15 °	10second of arc
200	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Ring Gauge (Major Diameter)	Using LMM & Master Setting Ring Gauge as per IS 9529, IS 2251 & IS 9475	3 mm to 100 mm	1.6µm
201	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge - Effective Diameter	Using LMM & Master Setting Disc as per IS 6311 & IS 10685	5 mm to 100 mm	2.1µm



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202	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge - Major & Effective Diameter	Using LMM & Master Setting Disc as per IS 6311 & IS 10685	100 mm to 200 mm	3.7µm
203	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge - Effective Diameter	Using LMM & Master Setting Ring Gauge as per IS 2334	4 mm to 100 mm	2µm
204	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Template, Width Gauge, Paddle Gauge	Using Profile Projector & Slip Gauge Set	0 to 150 mm	22.7µm
205	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Profile Projector as per IS 460 (Part-1, 2 & 3)	25 µm to 5 mm	6.6µm
206	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Electronic Caliper as per IS 460 (Part-1, 2 & 3)	5 mm to 125 mm	42µm



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207	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Gauge (L.C.: 0.001 mm)	Using Slip Gauge Set	0 to 5 mm	1.4µm
208	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Gauge (L.C.: 0.01 mm)	Using Slip Gauge Set	0 to 50 mm	7µm
209	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge	Using Profile Projector as per IS 4211	0.25 mm to 7 mm	6.6µm
210	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge - Major & Effective Diameter	Using 3-Wire Pin Set & Length Measuring Machine as per IS 6311 & IS 10685	3 mm to 200 mm	2.8µm
211	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge - Effective Diameter	Using LMM & Master Setting Ring Gauge as per IS 2334	4 mm to 100 mm	5.5µm



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212	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge	Using Slip Gauge Set	0 to 300 mm	105µm
213	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block: Matching Tolerance	Using Surface Plate, Cylindrical Mandrel, Electronic Probe with DRO, Master Cylinder & Slip Gauge Set as per IS 2949	0 to 150 mm	8.6µm
214	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block: Parallelism	Using Surface Plate, Cylindrical Mandrel, Electronic Probe with DRO, Master Cylinder & Slip Gauge Set as per IS 2949	0 to 150 mm	7.8µm
215	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block: Squareness	Surface plate, cylindrical mandrel, electronic probe with DRO, Master cylinder and slip gauge set based on IS 2949	0 to 150 mm	8.6µm



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216	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block: Symmetricity	Using Surface Plate, Cylindrical Mandrel, Electronic Probe with DRO, Master Cylinder & Slip Gauge Set as per IS 2949	0 to 150 mm	8.6µm
217	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Welding Fillet Gauge	Using Profile Projector	0.5 mm to 25 mm	7.2µm
218	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wet Film Thickness (WFT) Gauge	Using Profile Projector	0 to 3000 µm	6.75µm
219	MECHANICAL-DUROMETER	Rubber Hardness Tester (Spring Force & Indentation Depth)	Using Digital Weighing Balance & LLM as per ASTM D 2240	0 Shore D to 100 Shore D	0.42Shore D
220	MECHANICAL-DUROMETER	Rubber Hardness Tester (Spring Force & Indentation Depth)	Using Digital Weighing Balance & LLM as per ASTM D 2240	0 Shore A to 100 Shore A	0.42Shore A
221	MECHANICAL-PRESSURE INDICATING DEVICES	Magnahilic Gauge / Manometer / Differential Pressure Gauge / Transmitter (Positive Pressure) - Pneumatic Pressure	Using Master Digital Pressure Gauge & Pressure Comparator as per DKD R-6-1	0 mbar to 200 mbar	0.08%



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222	MECHANICAL-PRESSURE INDICATING DEVICES	Magnahilic Gauge / Manometer / Differential Pressure Gauge / Transmitter (Positive Pressure) - Pneumatic Pressure	Using Master Digital Pressure Gauge & Pressure Comparator as per DKD R-6-1	200 mbar to 2000 mbar	0.08%
223	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Dial / Digital) & Recorder / Pressure Transducer - Hydraulic Pressure	Using Dead Weight Tester with 2 Piston-Cylinder Assemblies by Comparison Method as per DKD R-6-1	4 bar to 50 bar	0.046%
224	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Dial / Digital) & Recorder / Pressure Transducer - Hydraulic Pressure	Using Dead Weight Tester with 2 Piston-Cylinder Assemblies by Comparison Method as per DKD R-6-1	50 bar to 1000 bar	0.042%
225	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Dial / Digital) & Recorder / Pressure Transducer / Safety Valve / Transmitter (Positive Pressure) - Pneumatic Pressure	Using Master Digital Pressure Gauge & Pressure Comparator as per DKD R-6-1	2 bar to 140 bar	0.08%
226	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Dial / Digital) & Recorder / Pressure Transducer / Transmitter / Safety Valve / Pressure Switch - Hydraulic Pressure	Using Master Digital Pressure Gauge & Pressure Comparator as per DKD R-6-1	0 bar to 1400 bar	0.07%



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227	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge (Dial / Digital) & Recorder / Pressure Transducer / Transmitter / Manometer	Using Master Vacuum Gauge & Vacuum Comparator as per DKD R-6-2	(-) 700 mmHg to 0 mmHg	0.13mmHg
228	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench / Torque Meter (Type I - Class B, C, D, E / Type II - Class A, B, D, E)	Using Torque Transducers with Indicators as per IS/ISO 6789: 2003 (RA 2013)	1 Nm to 5 Nm	3.09% rdg
229	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench / Torque Meter (Type I - Class B, C, D, E / Type II - Class A, B, D, E)	Using Torque Transducers with Indicators as per IS/ISO 6789: 2003 (RA 2013)	10 Nm to 100 Nm	2.58% rdg
230	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench / Torque Meter (Type I - Class B, C, D, E / Type II - Class A, B, D, E)	Using Torque Transducers with Indicators as per IS/ISO 6789: 2003 (RA 2013)	100 Nm to 500 Nm	2.42% rdg
231	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench / Torque Meter (Type I - Class B, C, D, E / Type II - Class A, B, D, E)	Using Torque Transducers with Indicators as per IS/ISO 6789: 2003 (RA 2013)	5 Nm to 20 Nm	2.63% rdg
232	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench / Torque Meter (Type I - Class B, C, D, E / Type II - Class A, B, D, E)	Using Torque Transducers with Indicators as per IS/ISO 6789: 2003 (RA 2013)	500 Nm to 2000 Nm	2.79% rdg



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233	MECHANICAL-VOLUME	Glassware - Pipette, Burette, Measuring Cylinder, Volumetric Flask, Bottle Top Dispenser	Using Digital Precision Balance & Distilled Water of Known Density as per ISO 4787	0.1 ml to 5 ml	1.78µl
234	MECHANICAL-VOLUME	Glassware - Pipette, Burette, Measuring Cylinder, Volumetric Flask, Bottle Top Dispenser	Using Digital Precision Balance & Distilled Water of Known Density as per ISO 4787	10 ml to 100 ml	10µl
235	MECHANICAL-VOLUME	Glassware - Pipette, Burette, Measuring Cylinder, Volumetric Flask, Bottle Top Dispenser	Using Digital Precision Balance & Distilled Water of Known Density as per ISO 4787	10 ml to 25 ml	6.5µl
236	MECHANICAL-VOLUME	Glassware - Pipette, Burette, Measuring Cylinder, Volumetric Flask, Bottle Top Dispenser	Using Digital Precision Balance & Distilled Water of Known Density as per ISO 4787	100 ml to 1000 ml	143µl
237	MECHANICAL-VOLUME	Glassware - Pipette, Burette, Measuring Cylinder, Volumetric Flask, Bottle Top Dispenser	Using Digital Precision Balance & Distilled Water of Known Density as per ISO 4787	1000 ml to 4000 ml	0.42ml
238	MECHANICAL-VOLUME	Glassware - Pipette, Burette, Measuring Cylinder, Volumetric Flask, Bottle Top Dispenser	Using Digital Precision Balance & Distilled Water of Known Density as per ISO 4787	5 ml to 10 ml	5µl



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239	MECHANICAL-VOLUME	Micro-pipette (Multi Channel)	Using Digital Precision Balance & Distilled Water of Known Density as per ISO 8655-6	1 µl to 10 µl	0.1µl
240	MECHANICAL-VOLUME	Micro-pipette (Multi Channel)	Using Digital Precision Balance & Distilled Water of Known Density as per ISO 8655-6	10 µl to 100 µl	0.1µl
241	MECHANICAL-VOLUME	Micro-pipette (Multi Channel)	Using Digital Precision Balance & Distilled Water of Known Density as per ISO 8655-6	100 µl to 1000 µl	1.3µl
242	MECHANICAL-VOLUME	Micro-pipette (Multi Channel)	Using Digital Precision Balance & Distilled Water of Known Density as per ISO 8655-6	1000 µl to 5000 µl	1.3µl
243	MECHANICAL-VOLUME	Micro-pipette (Multi Channel)	Using Digital Precision Balance & Distilled Water of Known Density as per ISO 8655-6	5000 µl to 10000 µl	5µl
244	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (readability: 1 g)	Using Standard Weights (F1 & M1 Class)	0 to 100 kg	1g



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245	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Accuracy Class I & coarser (readability: 0.0001 mg)	Using Standard Weights (E1 Class) as per OIML R-76-1	1 mg to 6.1 g	0.005mg
246	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Accuracy Class I & coarser (readability: 0.001 mg)	Using Standard Weights (E1 Class) as per OIML R-76-1	1 mg to 20 g	0.008mg
247	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Accuracy Class I & coarser (readability: 0.01 mg)	Standard weights (E1 Class) Calibration of Electronic weighing balance of Class I and coarser as per OIML R-76-1 and NABL-129	1 mg to 200 g	0.03mg
248	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Accuracy Class I & coarser (readability: 0.1 mg)	Using Standard Weights (E1 Class) as per OIML R-76-1	200 g to 2 kg	0.33mg
249	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Accuracy Class I & coarser (readability: 1 mg)	Using Standard Weights (E2 Class) as per OIML R-76-1	2 kg to 10 kg	6mg
250	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Accuracy Class I & coarser (readability: 5 mg)	Using Standard Weights (E2 Class) as per OIML R-76-1	5 kg to 64 kg	26mg
251	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Accuracy Class III & coarser (readability: 1 g)	Using Standard Weights (E2 & F1 Class) as per OIML R-76-1	5 kg to 150 kg	1g



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252	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Accuracy Class III & coarser (readability: 10 g)	Using Standard Weights (M1 Class) as per OIML R-76-1	50 kg to 300 kg	10g
253	MECHANICAL-WEIGHTS	Weight / Mass (E2 & coarser)	Using E1 Class Standard Weight & Precision Balance (readability: 0.001 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1: 2004	1 g	0.004mg
254	MECHANICAL-WEIGHTS	Weight / Mass (E2 & coarser)	Using E1 Class Standard Weight & Precision Balance (readability: 0.001 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1: 2004	1 mg	0.0014mg
255	MECHANICAL-WEIGHTS	Weight / Mass (E2 & coarser)	Using E1 Class Standard Weight & Precision Balance (readability: 0.001 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111: 2004	10 g	0.007mg



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256	MECHANICAL-WEIGHTS	Weight / Mass (E2 & coarser)	Using E1 Class Standard Weight & Precision Balance (readability: 0.001 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1: 2004	10 mg	0.0014mg
257	MECHANICAL-WEIGHTS	Weight / Mass (E2 & coarser)	Using E1 Class Standard Weight & Precision Balance (readability: 0.01 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1: 2004	100 g	0.02mg
258	MECHANICAL-WEIGHTS	Weight / Mass (E2 & coarser)	Using E1 Class Standard Weight & Precision Balance (readability: 0.001 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1: 2004	100 mg	0.002mg



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259	MECHANICAL-WEIGHTS	Weight / Mass (E2 & coarser)	Using E1 Class Standard Weight & Precision Balance (readability: 0.1 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1: 2004	1000 g	0.3mg
260	MECHANICAL-WEIGHTS	Weight / Mass (E2 & coarser)	Using E1 Class Standard Weight & Precision Balance (readability: 0.001 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1: 2004	2 g	0.0041mg
261	MECHANICAL-WEIGHTS	Weight / Mass (E2 & coarser)	Using E1 Class Standard Weight & Precision Balance (readability: 0.001 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1: 2004	2 mg	0.0014mg



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262	MECHANICAL-WEIGHTS	Weight / Mass (E2 & coarser)	Using E1 Class Standard Weight & Precision Balance (readability: 0.001 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1: 2004	20 g	0.009mg
263	MECHANICAL-WEIGHTS	Weight / Mass (E2 & coarser)	Using E1 Class Standard Weight & Precision Balance (readability: 0.001 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1: 2004	20 mg	0.0017mg
264	MECHANICAL-WEIGHTS	Weight / Mass (E2 & coarser)	Using E1 Class Standard Weight & Precision Balance (readability: 0.01 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1: 2004	200 g	0.06mg



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265	MECHANICAL-WEIGHTS	Weight / Mass (E2 & coarser)	Using E1 Class Standard Weight & Precision Balance (readability: 0.001 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1: 2004	200 mg	0.002mg
266	MECHANICAL-WEIGHTS	Weight / Mass (E2 & coarser)	Using E1 Class Standard Weight & Precision Balance (readability: 0.1 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1: 2004	2000 g	0.38mg
267	MECHANICAL-WEIGHTS	Weight / Mass (E2 & coarser)	Using E1 Class Standard Weight & Precision Balance (readability: 0.001 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1: 2004	5 g	0.006mg



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268	MECHANICAL-WEIGHTS	Weight / Mass (E2 & coarser)	Using E1 Class Standard Weight & Precision Balance (readability: 0.001 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1: 2004	5 mg	0.0014mg
269	MECHANICAL-WEIGHTS	Weight / Mass (E2 & coarser)	Using E1 Class Standard Weight & Precision Balance (readability: 0.01 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1: 2004	50 g	0.02mg
270	MECHANICAL-WEIGHTS	Weight / Mass (E2 & coarser)	Using E1 Class Standard Weight & Precision Balance (readability: 0.001 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1: 2004	50 mg	0.002mg



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271	MECHANICAL-WEIGHTS	Weight / Mass (E2 & coarser)	Using E1 Class Standard Weight & Precision Balance (readability: 0.1 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1: 2004	500 g	0.2mg
272	MECHANICAL-WEIGHTS	Weight / Mass (E2 & coarser)	Using E1 Class Standard Weight & Precision Balance (readability: 0.001 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1: 2004	500 mg	0.002mg
273	MECHANICAL-WEIGHTS	Weight / Mass (F1 & coarser)	Using E2 Class Standard Weight & Mass Comparator (readability: 5 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1: 2004	10 kg	7mg



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274	MECHANICAL-WEIGHTS	Weight / Mass (F1 & coarser)	Using E2 Class Standard Weight & Mass Comparator (readability: 5 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1: 2004	20 kg	15.3mg
275	MECHANICAL-WEIGHTS	Weight / Mass (F1 & coarser)	Using E2 Class Standard Weight & Mass Comparator (readability: 5 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1: 2004	5 kg	5.8mg
276	MECHANICAL-WEIGHTS	Weight / Mass (F1 & coarser)	Using E2 Class Standard Weight & Mass Comparator (readability: 5 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1: 2004	50 kg	27mg



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88	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time (Timer, Stop Watch)	Using Digital Timer by Comparison Method	900 s to 1800 s	0.60 s to 0.63 s
89	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Fluke Multi-product Calibrator (5522A) by Direct Method	1 Hz to 2 MHz	0.014%
90	FLUID FLOW-FLOW MEASURING DEVICES	Digital or Analog Liquid Flow Meter	Using Hand Hold Clamp on Type Ultra Sonic Flow Meter by Comparison Method	1.8 m ³ /hour to 100 m ³ /hour	2.2%
91	FLUID FLOW-FLOW MEASURING DEVICES	Digital or Analog Liquid Flow Meter	Using Hand Hold Clamp on Type Ultra Sonic Flow Meter by Comparison Method	100 m ³ /hour to 360 m ³ /hour	1.3%
92	MECHANICAL-ACCELERATION AND SPEED	Centrifuge / RPM Measurement	Using Master Tachometer	10 RPM to 12000 RPM	3.5RPM
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center (Co-axiality of Center)	Using Plunger Dial Indicator, Cylindrical Test Mandrel & Taper Mandrel as per IS 5980	0 to 500 mm	6.2µm



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94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center (Parallelism)	Using Plunger Dial Indicator, Cylindrical Test Mandrel & Taper Mandrel as per IS 5980	0 to 500 mm	5.5µm
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Calibration Tester (L.C.: 0.1 µm)	Using Slip Gauge Set & Electronic Probe	0 to 25 mm	1.21µm
96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Microscope - Linear Measurement	Using Slip Gauge Set, Glass Scale & Micrometer Eye Piece as per ISO 10936 (Part-1)	0 to 10 mm	0.74%
97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Microscope - Magnification	Using Slip Gauge Set, Glass Scale & Micrometer Eye Piece as per ISO 10936 (Part-1)	10 X to 1000 X	0.4%
98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector - Angle Measurement (L.C.: 0.001°)	Using Angle Graticules	0 ° to 360 °	5.86minute of arc



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99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector - Linear: X-Y Axis (L.C.: 1 µm)	Using Glass Scale	0 to 200 mm	4.9µm
100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector - Magnification	Using Glass Scale & Electronic Caliper	10 X to 100 X	0.41%
101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate - Flatness	Using Electronic Level & Spirit Level as per IS 2285 & IS 7327	0 mm to 3000 mm	0.99 $\sqrt{\{(L+W)/100\}}$ µm, L & W in mm
102	MECHANICAL-PRESSURE INDICATING DEVICES	Magnahilic Gauge / Manometer / Differential Pressure Gauge / Transmitter (Positive Pressure) - Pneumatic Pressure	Using Master Digital Pressure Gauge & Pressure Comparator as per DKD R-6-1	0 mbar to 200 mbar	0.08%
103	MECHANICAL-PRESSURE INDICATING DEVICES	Magnahilic Gauge / Manometer / Differential Pressure Gauge / Transmitter (Positive Pressure) - Pneumatic Pressure	Using Master Digital Pressure Gauge & Pressure Comparator as per DKD R-6-1	200 mbar to 2000 mbar	0.08%



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104	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Dial / Digital) & Recorder / Pressure Transducer / Safety Valve / Transmitter (Positive Pressure) - Pneumatic Pressure	Using Master Digital Pressure Gauge & Pressure Comparator as per DKD R-6-1	2 bar to 140 bar	0.08%
105	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Dial / Digital) & Recorder / Pressure Transducer / Transmitter / Safety Valve / Pressure Switch - Hydraulic Pressure	Using Master Digital Pressure Gauge & Pressure Comparator as per DKD R-6-1	0 bar to 1400 bar	0.07%
106	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge (Dial / Digital) & Recorder / Pressure Transducer / Transmitter / Manometer	Using Master Vacuum Gauge & Vacuum Comparator as per DKD R-6-2	(-) 700 mmHg to 0 mmHg	0.13mmHg
107	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Static Testing Machine - Compression	Using Force Proving Instruments (Class 0/0.5/1 - Load Cell with Indicator) as per IS 1828 (Part-1): 2015	100 kN to 3000 kN	0.5%
108	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Static Testing Machine - Compression	Using Force Proving Instruments (Class 0/0.5/1 - Load Cell with Indicator) as per IS 1828 (Part-1): 2015	50 N to 100 kN	0.99%



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109	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Static Testing Machine - Tension	Using Force Proving Instruments (Class 0.5 - Load Cell with Indicator) as per IS 1828 (Part-1): 2015	0.5 kN to 100 kN	0.47%
110	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Accuracy Class I & coarser (readability: 0.0001 mg)	Using Standard Weights (E1 Class) as per OIML R-76-1	1 mg to 6.1 g	0.005mg
111	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Accuracy Class I & coarser (readability: 0.001 mg)	Using Standard Weights (E1 Class) as per OIML R-76-1	1 mg to 20 g	0.008mg
112	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Accuracy Class I & coarser (readability: 0.01 mg)	Standard weights (E1 Class) Calibration of Electronic weighing balance of Class I and coarser as per OIML R-76-1 and NABL-129	1 mg to 200 g	0.03mg
113	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Accuracy Class I & coarser (readability: 0.1 mg)	Using Standard Weights (E1 Class) as per OIML R-76-1	200 g to 2 kg	0.33mg
114	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Accuracy Class I & coarser (readability: 1 mg)	Using Standard Weights (E2 Class) as per OIML R-76-1	2 kg to 10 kg	6mg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

NATIONAL CENTRE FOR QUALITY CALIBRATION, 4, ABHISHREE CORPORATE PARK, ISCKON-AMBLI ROAD, AMBLI, AHMEDABAD, AHMEDABAD, GUJARAT, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2128

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Validity

11/04/2020 to 10/04/2022

Last Amended on

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
115	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Accuracy Class I & coarser (readability: 5 mg)	Using Standard Weights (E2 Class) as per OIML R-76-1	5 kg to 64 kg	26mg
116	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Accuracy Class III & coarser (readability: 1 g)	Using Standard Weights (E2 & F1 Class) as per OIML R-76-1	5 kg to 150 kg	1g
117	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Accuracy Class III & coarser (readability: 10 g)	Using Standard Weights (M1 Class) as per OIML R-76-1	50 kg to 300 kg	10g
118	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator with Sensor of Chamber, Generator, Climate Chamber	Using Temperature & Humidity Meter with Sensor (Single Position Calibration)	20 % RH to 95 % RH @ 25 °C	3.2% RH
119	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity Chamber / Environmental Chamber	Using Temperature & Humidity Data Loggers (Minimum 9) Multi Position Calibration	20 % RH to 95 % RH	10.4% RH