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97	MECHANICAL-ACCELERATION AND SPEED	Centrifuge/ Stroboscope/ RPM of Indicating Device/ Karl Fischer Titrator/ Sieve Shaker/ Bitumen Extractor/ L.A. Abrasion Machine/ Mixer/ Stirrer/ Viscometer/ Incubator Shaker / Vibration Machine	Using Master Tachometer by Direct method	> 10000 RPM to 30000 RPM	17.02 RPM
98	MECHANICAL-ACCELERATION AND SPEED	Centrifuge/ Stroboscope/ RPM of Indicating Device/ Karl Fischer Titrator/ Sieve Shaker/ Bitumen Extractor/ L.A. Abrasion Machine/ Mixer/ Stirrer/ Viscometer/ Incubator Shaker / Vibration Machine	Using Master Tachometer by Direct method	6 RPM to 1000 RPM	2.1 RPM
99	MECHANICAL-ACCELERATION AND SPEED	Centrifuge/ Stroboscope/ RPM of Indicating Device/ Karl Fischer Titrator/ Sieve Shaker/ Bitumen Extractor/ L.A. Abrasion Machine/ Mixer/ Stirrer/ Viscometer/ Incubator Shaker) / Vibration Machine	Using Master Tachometer by Direct method	> 1000 RPM to 10000 RPM	3.07 RPM
100	MECHANICAL-ACCELERATION AND SPEED	RPM Meter / Tachometer (Contact)	Using Master Tachometer and RPM Source by Comparison method	> 10000 RPM to 12000 RPM	5.67 RPM

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101	MECHANICAL-ACCELERATION AND SPEED	RPM Meter / Tachometer (Contact)	Using Master Tachometer and RPM Source by Comparison method	> 500 RPM to 8000 RPM	3.01 RPM
102	MECHANICAL-ACCELERATION AND SPEED	RPM Meter / Tachometer (Contact)	Using Master Tachometer and RPM Source by Comparison method	> 8000 RPM to 10000 RPM	4.01 RPM
103	MECHANICAL-ACCELERATION AND SPEED	RPM Meter / Tachometer (Contact)	Using Master Tachometer and RPM Source by Comparison method	6 RPM to 500 RPM	0.57 RPM
104	MECHANICAL-ACCELERATION AND SPEED	RPM Meter / Tachometer (Non-contact)	Using Master Tachometer and RPM Source by Comparison method	> 1000 RPM to 5000 RPM	3.34 RPM
105	MECHANICAL-ACCELERATION AND SPEED	RPM Meter / Tachometer (Non-contact)	Using Master Tachometer and RPM Source by Comparison method	> 10000 RPM to 40000 RPM	17.01 RPM
106	MECHANICAL-ACCELERATION AND SPEED	RPM Meter / Tachometer (Non-contact)	Using Master Tachometer and RPM Source by Comparison method	> 40000 RPM to 75000 RPM	17.01 RPM
107	MECHANICAL-ACCELERATION AND SPEED	RPM Meter / Tachometer (Non-contact)	Using Master Tachometer and RPM Source by Comparison method	> 50 RPM to 500 RPM	1.03 RPM
108	MECHANICAL-ACCELERATION AND SPEED	RPM Meter / Tachometer (Non-contact)	Using Master Tachometer and RPM Source by Comparison method	> 500 RPM to 1000 RPM	2.02 RPM
109	MECHANICAL-ACCELERATION AND SPEED	RPM Meter / Tachometer (Non-contact)	Using Master Tachometer and RPM Source by Comparison method	> 5000 RPM to 10000 RPM	4.01 RPM

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110	MECHANICAL-ACCELERATION AND SPEED	RPM Meter / Tachometer (Non-contact)	Using Master Tachometer and RPM Source by Comparison method	6 RPM to 50 RPM	0.75 RPM
111	MECHANICAL-ACCELERATION AND SPEED	RPM Meter / Tachometer (Non–contact)	Using Master Tachometer and RPM Source by Comparison Method	75000 RPM to 99950 RPM	23.15 RPM
112	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Acoustic Calibrator by comparison method	114 dB @ 1 kHz	0.5 dB
113	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Acoustic Calibrator by comparison method	94 dB @ 1 kHz	0.55 dB
114	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 and IS 12255 & NIST SP 250- 78r1	0 °Be to 70 °Be	1.21 %
115	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 and IS 3104 (Part 2) & NIST SP 250- 78r1	0.6 g/ml to 2 g/ml	0.15 %

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116	MECHANICAL-DENSITY AND VISCOSITY	Flow Cups	Using standard viscosity Oil as per IS 3944 and ASTM D1200	7 cSt to 180 cSt	0.35 %
117	MECHANICAL-DENSITY AND VISCOSITY	Flow Cups	Using standard viscosity Oil as per IS 3944 and ASTM D1200	8.869 cSt to 850.7 cSt	1.62 %
118	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 and NIST SP 250-78r1	0.6 to 2	0.15 %
119	MECHANICAL-DENSITY AND VISCOSITY	Viscometer (Capillary Glass) Constant	Using Certified Newtonian Viscosity Standard & Temperature Controlled Liquid Bath as per ASTM D445, ASTM D446 and ISO 3104	0.1 cSt/s to 1.5 cSt/s	0.81 %
120	MECHANICAL-DENSITY AND VISCOSITY	Viscometer (Capillary Glass) Constant	Using Certified Newtonian Viscosity Standard & Temperature Controlled Liquid Bath as per ASTM 445, ASTM D446 and ISO 3104	0.6 poise/s to 80 80 poise/s (0.06 to 8 Pa.s)	1.63 %

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121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Protractor (L.C: 0.1°)	Using Vision Measuring Machine by Direct method	0° to 180°	24.13 minute of arc
122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Strips	Using Vision Measuring Machine by Direct method	0° to 360°	3.1 minute of arc
123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center (Co-axiality of Center)	Using Dial Indicator, Cylindrical Test Mandrel & Taper Mandrel by Comparison method	0 to 500 mm	7.7 µm
124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center (Parallelism)	Using Dial Indicator, Cylindrical Test Mandrel & Taper Mandrel by Comparison method	0 to 500 mm	7.7 µm
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector / Inclinometer (L.C: 1 minute)	Using Slip Gauge, Angle Gauges & Surface Plate by Comparison method	0°-90°- 0°	0.72 minute of arc
126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector / Inclinometer (L.C: 1 minute)	Using Vision Measuring Machine by Direct method	0°-90°-0°	34 minute of arc

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127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (L.C.: 0.01 mm)	Using Dial Calibration Tester, Length Measuring Machine & Electronic Probe With DRO by Comparison method	0 to 2 mm	2.1 µm
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (L.C: 0.0001 mm)	Using Length Measuring Machine & Electronic Probe With DRO by Comparison method	0 to 2 mm	2.1 µm
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using Slip Gauge Set, Digital External Micrometer, Length Bars & Accessories by Comparison method	0 to 1500 mm	17.22 µm
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Digital (L.C: 0.001 mm)	Using Slip Gauge Set, Slip Gauge Accessories Set, Digital External Micrometer & Internal Micro-checker (Caliper Checker) by Comparison method	0 to 150 mm	1.4 µm
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Digital (L.C: 0.01 mm)	Using Slip Gauge Set, Digital External Micrometer, Length Bars & Accessories by Comparison method	0 to 1000 mm	13.1 µm

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132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Digital (L.C: 0.01 mm)	Using Slip Gauge Set, Slip Gauge Accessories set, Digital External Micrometer and Internal Microchecker (Caliper Checker) by Comparison method	0 to 300 mm	7.93 µm
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Digital (L.C: 0.01 mm)	Using Slip Gauge Set, Digital External Micrometer, Length Bars & Accessories by Comparison method	0 to 600 mm	9.5 µm
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Circumference / Pi Tape (L.C: 0.01 mm)	Using Tape and Scale calibrator by Comparison method	0 to 50 m	133 x SQRT (L) µm where L in m
135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C: 0.1 µm)	Using Standard Foils by Comparison method	12 µm to 53 µm	0.73 µm
136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C: 0.1 µm)	Using Standard Foils by Comparison method	53 µm to 2000 µm	5.9 µm

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137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C: 1 µm)	Using Standard Foils by Comparison method	2001 µm to 5000 µm	5.9 µm
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C: 10 µm)	Using Standard Foils by Comparison method	5001 µm to 9663 µm	12.9 µm
139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set (L.C: 5')	Using Slip Gauge, Angle Gauges & Surface Plate by Comparison method	0° to 180°	17.32 minute of arc
140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set (L.C: 5')	Using Vision Measuring Machine by Direct Method	0° to 180°	34.8 minute of arc
141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand-Flatness	Using surface Plate (Flatness Checking gauge) and Electronic Probe with DRO by Comparison method	0 to 200 mm	4.1 µm
142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cross Hach Cutter (Linear measurement)	Using Vision Measuring Machine by Direct method	0 to 3 mm	7 µm

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143	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 by Comparison method	0 to 300 mm	11.0 µm
144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C: 0.001 mm)	Using Depth Micro-checker, Surface Plate & Slip Gauge Set by Comparison method	0 to 300 mm	4.92 µm
145	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C: 0.01 mm)	Using Depth Micro-checker, Surface Plate & Slip Gauge Set by Comparison method	0 to 300 mm	9.07 µm
146	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator - Lever (L.C: 0.001 mm)	Using Dial Calibration Tester / Length Measuring Machine by Comparison method	0 to 2 mm	1.6 µm
147	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator - Lever (L.C: 0.01 mm)	Using Length Measuring Machine by Comparison method	0 to 2 mm	1.62 µm
148	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator - Lever (L.C: 0.5 µm)	Using Length Measuring Machine by Comparison method	0 to 50 µm	1.3 µm

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149	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator - Plunger (L.C: 0.001 mm)	Using Dial Calibration Tester / Length Measuring Machine by Comparison method	0 to 25 mm	1.6 µm
150	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator - Plunger (L.C: 0.001 mm)	Using Length Measuring Machine / Slip Slip Gauge Set and Surface Plate by Comparison Method	0 to 50 mm	1.62 µm
151	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator - Plunger (L.C: 0.01 mm)	Using Length Measuring Machine / Slip Slip Gauge Set and Surface Plate by Comparison Method	0 to 50 mm	2.9 µm
152	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator - Plunger (L.C: 0.5 µm)	Using Length Measuring Machine by Comparison method	0 to 50 µm	1.3 µm
153	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Extensometer (L.C.: 0.001 mm)	Using Dial Calibration Tester / Electronic Probe with DRO and Extensometer Fixture by Comparison method	0 to 2 mm	6.54 µm
154	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Extensometer (L.C.: 0.001 mm)	Using Electronic Probe with DRO and Extensometer Fixture by Comparison method	0 to 25 mm	6.54 µm

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155	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Extensometer - Gauge Length (L.C.: 0.001 mm)	Using Electronic Caliper / Digital Height Gauge by Comparison method	0 to 25 mm	25.8 µm
156	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Extensometer - Gauge Length (L.C.: 0.001 mm)	Using Electronic Caliper / Digital Height Gauge by Comparison method	0 to 50 mm	25.8 µm
157	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Extensometer - Gauge length (L.C.: 0.001 mm)	Using Electronic Caliper / Digital Height Gauge by Comparison Method	0 to 600 mm	30.13 µm
158	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Micrometer (L.C.: 0.0001 mm)	Using Slip Gauge Set by Comparison method	0 to 25 mm	0.41 µm
159	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Thickness Gauge (L.C.: 0.001 mm)	Using Slip Gauge Set by Comparison method	0 to 25 mm	1.40 µm
160	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, Granite Square, Electronic Probe, Tilting Table & Surface Plate by Comparison method	0 to 300 mm	7.58 µm

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161	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Spirit Level - Parallelism (L.C: 0.01 mm/m & coarser)	Using Electronic Level, Slip Gauge Set, Granite Square, Electronic Probe, Tilting Table & Surface Plate by Comparison method	0 to 300 mm	9.04 µm
162	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, Granite Square, Electronic Probe, Tilting Table & Surface Plate by Comparison method	0 to 300 mm	16.04 µm
163	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Spirit Level - Squareness (L.C: 0.01 mm/m & coarser)	Using Electronic Level, Slip Gauge Set, Granite Square, Electronic Probe, Tilting Table & Surface Plate by Comparison method	0 to 300 mm	9.04 µm
164	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Square - Flatness	Using Granite Square, Slip Gauge Set & Surface Plate by Comparison Method	0 to 300 mm	7 µm
165	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Square - Flatness	Using Granite Square, Slip Gauge Set and Surface Plate by Comparison method	300 mm to 600 mm	6 µm

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166	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Square - Parallelism	Using Granite Square, Slip Gauge Set & Surface Plate by Comparison Method	0 to 300 mm	9 µm
167	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Square - Parallelism	Using Granite Square, Slip Gauge Set and Surface Plate by Comparison method	300 mm to 600 mm	7.2 µm
168	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Square - Perpendicularity	Using Granite Square, Slip Gauge Set & Surface Plate by Comparison method	0 to 300 mm	9.8 µm
169	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Square - Perpendicularity	Using Granite Square, Slip Gauge Set and Surface Plate by Comparison method	300 mm to 600 mm	11.0 µm
170	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Slip Gauge Set, Length Bars, Optical Parallel & Optical Flat by Comparison Method	150 mm to 400 mm	5 µm
171	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.01 mm)	Using Slip Gauge Set, Length Bars, Optical Parallel & Optical Flat by Comparison Method	150 mm to 600 mm	9.5 µm

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172	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C: 0.001 mm)	Using Slip Gauge Set, Length Bars, Optical Parallel & Optical Flat by Comparison method	0 to 150 mm	1.52 µm
173	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C: 0.001 mm)	Using Slip Gauge Set, Optical Parallel & Optical Flat by Comparison method	0 to 25 mm	0.7 µm
174	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C: 0.001 mm)	Using Slip Gauge Set, Optical Parallel & Optical Flat by Comparison method	25 mm to 50 mm	0.83 µm
175	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C: 0.001 mm)	Using Slip Gauge Get, Optical Parallel & Optical Flat by Comparison method	50 mm to 75 mm	0.91 µm
176	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C: 0.001 mm)	Using Slip Gauge Set, Length Bars, Optical Parallel & Optical Flat by Comparison method	75 mm to 100 mm	1 µm
177	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Length Measuring Machine by Comparison Method	0.01 mm to 5 mm	1.3 µm

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178	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flakiness & Elongation Gauge	Using Vision Measuring Machine by Direct method	0 to 110 mm	16 µm
179	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hegman Gauge	Using Electronic probe with DRO by Comparison method	0 to 100 µm	1.6 µm
180	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (L.C.: 0.01 mm)	Using Surface Plate, Slip Gauge Set & Length Bars by Comparison Method	0 to 600 mm	10.8 µm
181	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (L.C.: 0.02 mm)	Using Surface Plate, Slip Gauge Set & Length Bars by Comparison Method	0 to 1000 mm	16.9 µm
182	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hole Test (2 point and 3 point) Micrometer	Using Master Setting Ring Gauge by Comparison method	3.0 mm to 125 mm	2.43 µm
183	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Impact V Notch Gauge	Using Vision Measuring machine by Direct method	0 to 360 °	3.1 minute of arc

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184	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Dial Caliper Gauge (L.C: 0.01 mm)	Using Slip Gauge Set & Slip Gauge Accessories Set by Comparison method	0.01 mm to 100 mm	6.8 µm
185	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Micrometer - (L.C.: 0.001 mm)	Using LMM based Internal Micro-checker / Slip Gauge set & Gauge block accessories by Comparison Method	5.0 mm to 30 mm	2 µm
186	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer - Stick Type (L.C.: 0.001 mm)	Using LMM based Internal Micro-checker & Length Bar by Comparison Method	0 to 1000 mm	7.70 µm
187	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer - Stick Type (L.C.: 0.01 mm)	Using LMM based Internal Micro-checker & Length Bar by Comparison Method	0 to 1000 mm	9.8 µm
188	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Laser Distance Meter	Using Slip Gauge Set and Length Bar Block by Comparison Method	0 to 1500 mm	611.1 µm
189	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Linear Probe / LVDT (L.C.: 0.01 mm)	Using Slip Gauge set by Comparison Method	0 to 100 mm	7.95 µm

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190	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Linear Probe / LVDT (L.C.: 0.01 mm)	Using Slip Gauge Set by Comparison method	0 to 200 mm	8.20 µm
191	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Linear Probe / LVDT (L.C: 0.1 µm)	Using Slip Gauge Set by Comparison method	0 to 2 mm	0.23 µm
192	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Linear Probe / LVDT (L.C: 0.1 µm)	Using Length Measuring Machine by Comparison method	0 to 25 mm	0.51 µm
193	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	4.7 µm
194	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Master Cylinder - Squareness	Using Slip Gauge Set, Surface Plate, Electronic Probe with DRO and Granite Square by Comparison method	0 to 300 mm	11.0 µm
195	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Master Cylinder - Straightness	Using Slip Gauge Set, Surface Plate, Electronic Probe with DRO and Granite Square by Comparison method	0 to 300 mm	3.1 µm

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196	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin	Using Length Measuring Machine by Comparison method	0.17 mm to 20 mm	1.32 µm
197	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale / Taper Scale (L.C.: 0.5 mm)	Using Tape & Scale Calibrator by Comparison Method	0 to 2000 mm	130xSQRT(L) µm where L in m
198	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale / Taper Scale (L.C: 0.5 mm)	Using Tape & Scale Calibrator by Comparison method	0 to 1000 mm	130xSQRT(L) µm where L in m
199	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape (L.C.: 0.1 mm)	Using Tape & Scale Calibrator by Comparison method	0.02 m to 50 m	134 x SQRT (L) µm where L in m
200	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head (L.C.: 0.001 mm)	Using Length Measuring Machine by Comparison Method	0.001 mm to 100 mm	1.3 µm
201	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod (Flat Ended / Round Ended)	Using Slip Gauge Set, Length Bar set, Electronic Probe with DRO & Granite Comparator by Comparison method	1 mm to 600 mm	6.5 µm

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202	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Mould / Cube Mould	Using Electronic Caliper by Comparison method	0 to 150 mm	20 µm
203	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Parallel Mandrel - Run out	Using Surface Plate, Electronic Probe with DRO and Bench Centre by Comparison Method	0 to 500 mm	10.4 µm
204	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Parallel Mandrel - Variation in diameter	Using Surface Plate, Electronic Probe with DRO and Bench Centre by Comparison method	0 to 500 mm	7.2 µm
205	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Penetrometer	Using Slip Gauge Set by Comparison Method	0 to 40 mm	60 µm
206	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper (L.C: 0.05 mm)	Using Slip Gauge Set by Comparison method	0 to 80 mm	61 µm
207	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pit Gauge / Welding Gauge / Weld Hi-Lo Gauge / Bridge cam Gauge / Weld Gauge - Angle (L.C: 0.5°)	Using Angle Gauge Blocks and Slip Gauge Set by Comparison method / Vision Measuring Machine by Direct method	0° to 90°	8.1 minute of arc

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208	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pit Gauge / Welding Gauge / Weld Hi-Lo Gauge / Bridge Cam Gauge / Weld Gauge - Linear (L.C: 0.01 mm)	Using Angle Gauge Blocks & Slip Gauge Set by Comparison method	0 to 60 mm	288.7 µm
209	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pit Gauge / Welding Gauge / Weld Hi-Lo Gauge / Bridge Cam Gauge / Weld Gauge - Linear (L.C: 0.01 mm)	Using Vision Measuring Machine by Direct method / Tape & Scale Calibrator by Comparison method	0 to 60 mm	6.7 µm
210	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Length Measuring Machine & Setting Disc by Comparison Method	100 mm to 200 mm	3 µm
211	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Length Measuring Machine & Setting Disc by Comparison method	2 mm to 100 mm	1.2 µm
212	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using Length Measuring Machine & Master Setting Ring Gauge by Comparison Method	3 mm to 200 mm	2.6 µm
213	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge / Radius Template	Using Vision Measuring Machine by Direct method	0.5 mm to 50 mm	7.6 µm

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214	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar - Angular Measurement	Using Angle Gauge Set, Slip Gauge Set & Surface Plate by Comparison method	0 to 300 mm	19.6 s
215	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar - Parallelism	Using Surface Plate, Electronic Probe & Slip Gauge Set by Comparison method	0 to 300 mm	4.4 µm
216	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar – Centre distance between rollers	Using Surface Plate, Slip Gauge Set Length Measuring Machine and Dial Indicator by Comparison method / Vision Measuring Machine by Direct method	0 to 300 mm	7.2 µm
217	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge / Gap Gauge	Using Slip Gauges and Gauge block accessories by Comparison method	200 mm to 300 mm	5.6 µm
218	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge / Gap Gauge	Using Length Measuring Machine and Master Setting Ring by Comparison Method	5 mm to 200 mm	2.7 µm

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219	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Plug Gauge (Major Diameter, Minor Diameter, Over Pin Diameter)	Using Length measuring machine and Measuring Pins by Comparison method	5 mm to 100 mm	2.12 µm
220	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Ring Gauge (Major Diameter, Minor Diameter, Over Ball Diameter)	Using Length measuring machine and Precision Spherical Stylus by comparison method	5 mm to 100 mm	2.2 µm
221	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Standard Foils	Using Length Measuring Machine by Comparison method	1 µm to 5000 µm	0.72 µm
222	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Standard Foils	Using Length Measuring Machine by Comparison Method	10 mm to 20 mm	0.90 µm
223	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Standard Foils	Using Length Measuring Machine by Comparison method	5 mm to 10 mm	0.74 µm
224	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Standard Wire Gauge	Using Vision Measuring Machine by Direct method	0.19 mm to 8 mm	6.13 µm

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225	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Parallel - Parallelism	Using Surface Plate and Electronic Probe with DRO by Comparison method	0 to 200 mm	4.42 µm
226	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Parallel – Equality of Pairs	Using Surface Plate and Electronic Probe with DRO & Slip Gauge Set by Comparison method	0 to 200 mm	4.30 µm
227	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Parallel – Thickness and width	Using Surface Plate and Electronic Probe with DRO & Slip Gauge Set by Comparison method	0 to 200 mm	4.30 µm
228	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Parallel – Variation in Thickness	Using Surface Plate and Electronic Probe with DRO & Slip Gauge Set by Comparison method	0 to 200 mm	4.30 µm
229	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge - Parallelism	Using Electronic Probe with DRO / Slip Gauge Set & Surface Plate by Comparison Method	0 to 1000 mm	10.6 µm
230	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge - Parallelism	Using Electronic Probe with DRO / Slip Gauge Set & Surface Plate by Comparison method	0 to 300 mm	4 µm

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231	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge - Straightness	Using Slip Gauge Set & Surface Plate by Comparison method	0 to 1000 mm	10.0 µm
232	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge - Straightness	Using Slip Gauge Set & Surface Plate by Comparison method	0 to 300 mm	4 µm
233	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate - Flatness	Using Electronic Level & Spirit Level by Comparison method	0 to 3000 mm	0.99 x SQRT ((L+W)/100) µm where L & W in mm
234	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plug Gauge (Angle)	Using Length Measuring Machine, Master Setting Ring Gauge, Sine bar, Measuring Pin, Accessories and Fixtures by Comparison method	1° to 15°	12 s of arc
235	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plug Gauge (Major Diameter)	Using Length Measuring Machine, Master Setting Disc, Sine bar, Measuring Pin, Accessories and Fixtures by Comparison method	100 mm to 200 mm	2.6 µm

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236	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plug Gauge (Major Diameter)	Using Length Measuring Machine, Master Setting Ring Gauge, Sine bar, Measuring Pin, Accessories and Fixtures by Comparison method	Up to 100 mm	2.4 µm
237	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Ring Gauge (Angle)	Using Length Measuring Machine, Master Setting Ring Gauge, Sine bar, Accessories and fixtures by Comparison method	1° to 15°	10 s of arc
238	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Ring Gauge (Major Diameter)	Using Length Measuring Machine, Master Setting Ring Gauge, Sine bar, Accessories and fixtures by Comparison method	3 mm to 100 mm	1.6 µm
239	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale (L.C: 0.1 mm)	Using Vision Measuring Machine by Direct method	1 mm to 15 mm	30.2 µm
240	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge - Effective Diameter	Using Length Measuring Machine, 3-Wire Pin Set and Master Setting Disc by Comparison method	100 mm to 200 mm	3.7 µm

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241	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge - Effective Diameter	Using Length Measuring Machine, 3-Wire Pin Set and Master Setting Disc by Comparison method	5 mm to 100 mm	2.1 µm
242	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge - Effective Diameter	Using Length Measuring Machine & Master Setting Ring Gauge by Comparison Method	4 mm to 100 mm	2 µm
243	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Template, Width Gauge, Fixture, Paddle Gauge (Linear measurement)	Using Vision Measuring Machine by Direct method / Slip Gauge Set by Comparison Method	0 to 150 mm	22.7 µm
244	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Vision Measuring Machine by Direct method	25 µm to 5 mm	6.6 µm
245	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Electronic Caliper by Comparison method	5 mm to 125 mm	42 µm
246	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Gauge (L.C.: 0.001 mm)	Using Slip Gauge Set & Standard Foil by Comparison Method	0 to 12.7 mm	1.4 µm

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247	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Gauge (L.C: 0.001 mm)	Using Slip Gauge Set & Standard Foil by Comparison method	0 to 5 mm	1.4 µm
248	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Gauge (L.C: 0.01 mm)	Using Slip Gauge Set by Comparison method	0 to 50 mm	7 µm
249	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Pin	Using Length Measuring Machine by Comparison method	0.17 mm to 20 mm	1.32 µm
250	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Angle)	Using Vision Measuring Machine by Direct method	0 ° to 60 °	4.3 minute of arc
251	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Linear measurement)	Using Vision Measuring Machine by Direct method	0.25 mm to 7 mm	6.6 µm
252	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge - Major & Effective Diameter	Using 3-Wire Pin Set, Master Setting Disc & Length Measuring Machine by Comparison method	3 mm to 200 mm	2.8 µm

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253	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge - Effective Diameter	Using Length Measuring Machine & Master Setting Ring Gauge by Comparison method	4 mm to 100 mm	5.5 µm
254	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge	Using Slip Gauge Set & Length Bar Set, Long Gauge Block by Comparison method	0 to 300 mm	105 µm
255	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 by Comparison method	0 to 150 mm	8.6 µm
256	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block: Parallelism	Using Surface Plate, Cylindrical Mandrel, Electronic Probe with DRO, Master Cylinder & Slip Gauge Set by Comparison method	0 to 150 mm	8.2 µm
257	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block: Squareness	Using Surface plate, Cylindrical mandrel, Electronic probe with DRO, Master cylinder and Slip gauge set by Comparison method	0 to 150 mm	8.6 µm

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258	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block: Symmetricity	Using Surface Plate, Cylindrical Mandrel, Electronic Probe with DRO, Master Cylinder & Slip Gauge Set by Comparison method	0 to 150 mm	8.6 µm
259	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Welding Fillet Gauge / Form Gauge	Using Vision Measuring Machine by Direct method	0.5 mm to 25 mm	7.2 µm
260	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Welding Fillet Gauge, Templates, Vickers/Knoop/ Rockwell Diamond Cone Indenter/ Weld/ Hi-Lo gauge, bridge cam gauge /Traverse of cupping machine /Limit Gauges/CD Gauge/PCD Gauge / Cube mould	Using Vision Measuring Machine by Direct method	0 to 200 mm	6.68 µm
261	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Welding Gauge/Width gauge/ paddle gauge/Weld fillet gauge/ Flakiness gauge/ Elongation gauge/ Receiver Gauge/ Plain work piece/ lever arm/ Master connecting rod/ Inspection JIG and Fixture/Moulds	Using Vision Measuring Machine by Direct method	0 to 200 mm	7.0 µm

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262	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wet Film Thickness (WFT) Gauge	Using Vision Measuring Machine by Direct method	0 to 3000 µm	6.75 µm
263	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Angular Glass Scale	Using Vision Measuring Machine by Direct method	0 to 360 °	3.1 minute of arc
264	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Cylindrical Setting Master - Run out	Using Surface Plate, Electronic Probe with DRO and Bench Centre by Comparison method	0 to 70 mm	9.40 µm
265	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Cylindrical Setting Master - Variation in diameter	Using Surface Plate, Electronic Probe with DRO and Bench Centre by Comparison method	0 to 70 mm	4.1 µm
266	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester (L.C.: 0.1 µm)	Using Slip Gauge Set & Electronic Probe with DRO by Comparison method	0 to 25 mm	1.21 µm
267	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Height Gauge - Linearity (L.C.: 0.0001 mm)	Using Surface Plate, Slip Gauge Set & Length Bars by Comparison method	0 to 600 mm	8.4 µm
268	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Height Gauge - Squareness (L.C.: 0.0001 mm)	Using Granite Square & lever dial gauge by comparison method	0 to 600 mm	10.81 µm
269	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope - Linear Measurement	Using Slip Gauge Set & Glass Scale by Comparison method	0 to 10 mm	1.0 %

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270	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope - Magnification	Using Glass Scale by Comparison method	10X to 1000X	0.4 %
271	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope - Magnification	Using Glass Scale by Comparison method	2X to 10X	0.6 %
272	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Angle Measurement (L.C.: 0.001°)	Using Angle Graticules by Comparison method	0° to 360°	5.86 minute of arc
273	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Linear: X-Y Axis (L.C: 1 µm)	Using Glass Scale by Comparison method	0 to 200 mm	4.9 µm
274	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Magnification	Using Glass Scale & Electronic Caliper by Comparison method	10X to 100X	0.41 %
275	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Tape & Scale Calibrator (L.C.: 1 µm)	Using Slip Gauge Set & Length Bar by Comparison method	0 to 1000 mm	15.3 µm
276	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Vision Measuring Machine / Profile Projector - Angle Measurement (L.C.: 0.001°)	Using Angle Graticules by Comparison method	0 to 360 °	0.581 minute of arc
277	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Vision Measuring Machine / Profile Projector - Linear : X-Y Axis (L.C.: 0.1 µm)	Using Glass Scale by Comparison method	0 to 200 mm	2.22 µm

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278	MECHANICAL-DUROMETER	Rubber Hardness Tester (Indentation Depth)	Using Length Measuring Machine as per ASTM D 2240:2015	0 to 100 Shore A	0.42 Shore A
279	MECHANICAL-DUROMETER	Rubber Hardness Tester (Indentation Depth)	Using Length Measuring Machine as per ASTM D 2240:2015	0 to 100 Shore D	0.42 Shore D
280	MECHANICAL-DUROMETER	Rubber Hardness Tester (Spring Force)	Using Digital Weighing Balance as per ASTM D 2240:2015	0 to 100 Shore D	0.42 Shore D
281	MECHANICAL-DUROMETER	Rubber Hardness Tester (Spring Force)	Using Digital Weighing Balance as per ASTM D 2240:2015	0 to 100 Shore A	0.42 Shore A
282	MECHANICAL-PRESSURE INDICATING DEVICES	Magnehelic Gauge / Manometer / Differential Pressure Gauge / Transmitter (Positive Pressure) - Pneumatic Pressure	Using Master Digital Pressure Gauge, 6½ Digit Multimeter, Multifunction calibrator & Pressure Comparator as per DKD R-6-1	0 to 200 mbar	0.08 %
283	MECHANICAL-PRESSURE INDICATING DEVICES	Magnehelic Gauge / Manometer / Differential Pressure Gauge / Transmitter (Positive Pressure) - Pneumatic Pressure	Using Master Digital Pressure Gauge, 6½ Digit Multimeter, Multifunction calibrator & Pressure Comparator as per DKD R-6-1	0 to 2000 mbar	0.08 %

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284	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Dial / Digital) & Recorder / Pressure Transducer - Hydraulic Pressure	Using Dead Weight Tester with 2 Piston-Cylinder Assemblies,6½ Digit Multimeter, Multifunction Calibrator by Comparison Method as per DKD R-6-1	4 bar to 50 bar	0.046 %
285	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Dial / Digital) & Recorder / Pressure Transducer - Hydraulic Pressure	Using Dead Weight Tester with 2 Piston-Cylinder Assemblies, 6½ Digit Multimeter, Multifunction Calibrator by Comparison Method as per DKDR-6-1	50 bar to 1000 bar	0.042 %
286	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Dial / Digital) & Recorder / Pressure Transducer / Transmitter (Positive Pressure) - Pneumatic Pressure	Using Master Digital Pressure Gauge, 6½ Digit Multimeter, Multifunction calibrator & Pressure Comparator as per DKD R-6-1	0 to 140 bar	0.10 bar
287	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Dial / Digital) & Recorder / Pressure Transducer / Transmitter / Pressure Switch - Hydraulic Pressure	Using Master Digital Pressure Gauge, 6½ Digit Multimeter & Pressure Comparator as per DKD R-6-1	0 to 1400 bar	0.70 bar
288	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Dial / Digital) & Recorder / Pressure transducer / transmitter / Pressure Switch – Hydraulic Pressure	Using Master Digital Pressure Gauge, 6½ Digit Multimeter and Pressure Comparator as per DKD–R-6-1	0 to 1000 bar	0.15 bar

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289	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Dial / Digital) & Recorder / Pressure transducer / transmitter / Pressure Switch – Hydraulic Pressure	Using Master Digital Pressure Gauge, 6½ Digit Multimeter and Pressure Comparator as per DKD–R-6-1	0 to 2 bar	0.0007 bar
290	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Dial / Digital) & Recorder / Pressure transducer / transmitter / Pressure Switch – Hydraulic Pressure	Using Master Digital Pressure Gauge, 6½ Digit Multimeter and Pressure Comparator as per DKD–R-6-1	0 to 400 bar	0.086 bar
291	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Dial / Digital) & Recorder / Pressure transducer / transmitter / Pressure Switch – Hydraulic Pressure	Using Master Digital Pressure Gauge, 6½ Digit Multimeter and Pressure Comparator as per DKD–R-6-1	0 to 70 bar	0.012 bar
292	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge (Dial / Digital) & Recorder / Pressure Transducer / Transmitter / Manometer	Using Master Vacuum Gauge, 6½ Digit Multimeter, Multifunction calibrator & Vacuum Comparator (Pneumatic Comparison) as per DKD R-6-1	(-) 0.93 bar to 0 bar	0.00068 bar
293	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench / Screw Driver (Type I - Class A, B, C, D, E / Type II - Class A, B, C, D, E, F, G)	Using Torque Transducers with Indicators as per IS/ ISO 6789 (Part 1): 2017	1 Nm to 5 Nm	3.09 %

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294	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench / Screw Driver (Type I - Class A, B, C, D, E / Type II - Class A, B, C, D, E, F, G)	Using Torque Transducers with Indicators as per IS/ISO 6789 (Part 1): 2017	5 Nm to 20 Nm	2.63 %
295	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type I - Class A, B, C, D, E / Type II - Class A, B, C, D, E, F, G)	Using Torque Transducers with Indicators as per IS/ISO 6789 (Part 1): 2017	10 Nm to 100 Nm	1.12 %
296	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type I - Class A, B, C, D, E / Type II - Class A, B, C, D, E, F, G)	Using Torque Transducers with Indicators as per IS/ISO 6789 (Part 1): 2017	100 Nm to 500 Nm	1.50 %
297	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type I - Class A, B, C, D, E / Type II - Class A, B, C, D, E, F, G)	Using Torque Transducers with Indicators as per IS/ISO 6789 (Part 1): 2017	500 Nm to 2000 Nm	2.79 %
298	MECHANICAL-VOLUME	Glassware - Measuring Cylinder	Using Digital Precision Balance (readability : 0.00001 g) & Distilled Water of Known Density as per ISO 4787:2021	1 ml to 5 ml	1.81 µl
299	MECHANICAL-VOLUME	Glassware - Pipette, Burette, Volumetric Flask, Bottle Top Dispenser	Using Digital Precision Balance (readability : 0.00001 g) & Distilled Water of Known Density as per ISO 4787:2021	0.1 ml to 5 ml	1.81 µl

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300	MECHANICAL-VOLUME	Glassware - Pipette, Burette, Measuring Cylinder, Volumetric Flask, Beaker, Bottle Top Dispenser	Using Digital Precision Balance (readability : 0.00001 g) & Distilled Water of Known Density as per ISO 4787: 2021	> 10 ml to 100 ml	10 µl
301	MECHANICAL-VOLUME	Glassware - Pipette, Burette, Measuring Cylinder, Volumetric Flask, Beaker, Bottle Top Dispenser	Using Digital Precision Balance (readability : 0.00001 g) & Distilled Water of Known Density as per ISO 4787: 2021	> 10 ml to 25 ml	6.5 µl
302	MECHANICAL-VOLUME	Glassware - Pipette, Burette, Measuring Cylinder, Volumetric Flask, Beaker, Bottle Top Dispenser	Using Digital Precision Balance (readability : 0.0001 g) & Distilled Water of Known Density as per ISO 4787: 2021	> 100 ml to 1000 ml	143 µl
303	MECHANICAL-VOLUME	Glassware - Pipette, Burette, Measuring Cylinder, Volumetric Flask, Beaker, Bottle Top Dispenser	Using Digital Precision Balance (readability : 0.0001 g (up to 2000 ml) / 0.005 g above 2000 ml) & Distilled Water of Known Density as per ISO 4787: 2021	> 1000 ml to 4000 ml	0.42 ml
304	MECHANICAL-VOLUME	Glassware - Pipette, Burette, Measuring Cylinder, Volumetric Flask, Beaker, Bottle Top Dispenser	Using Digital Precision Balance (readability : 0.005 g) & Distilled Water of Known Density as per ISO 4787: 2021	> 4000 ml to 5000 ml	0.45 ml

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305	MECHANICAL-VOLUME	Glassware - Pipette, Burette, Measuring Cylinder, Volumetric Flask, Beaker, Bottle Top Dispenser	Using Digital Precision Balance (readability : 0.00001 g) & Distilled Water of Known Density as per ISO 4787: 2021	> 5 ml to 10 ml	5 µl
306	MECHANICAL-VOLUME	Micro-pipette (Single-channel / Multi-channel)	Using Digital Precision Balance (readability : 0.000001 g) & Distilled Water of Known Density as per ISO 8655-6: 2022	> 10 µl to 100 µl	0.1 µl
307	MECHANICAL-VOLUME	Micro-pipette (Single-channel / Multi-channel)	Using Digital Precision Balance (readability : 0.000001 g) & Distilled Water of Known Density as per ISO 8655-6: 2022	> 100 µl to 1000 µl	1.3 µl
308	MECHANICAL-VOLUME	Micro-pipette (Single-channel / Multi-channel)	Using Digital Precision Balance (readability : 0.000001 g) & Distilled Water of Known Density as per ISO 8655-6: 2022	> 1000 µl to 5000 µl	1.3 µl

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309	MECHANICAL-VOLUME	Micro-pipette (Single-channel / Multi-channel)	Using Digital Precision Balance (readability : 0.000001 g) & Distilled Water of Known Density as per ISO 8655-6: 2022	> 5000 µl to 10000 µl	5 µl
310	MECHANICAL-VOLUME	Micro-pipette (Single-channel / Multi-channel)	Using Digital Precision Balance (readability : 0.000001 g) & Distilled Water of Known Density as per ISO 8655-6: 2022	1 µl to 10 µl	0.1 µl
311	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (readability: 1 g)	Using Standard Weights (F1 & M1 Class) by Direct method	0 to 100 kg	3.34 g
312	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	0.005 mg
313	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	0.008 mg
314	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	1 mg to 200 g	0.03 mg

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315	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.	1 mg to 600 g	0.063 mg
316	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	0.33 mg
317	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Accuracy Class II & coarser (readability: 1 mg)	Using Standard Weights (E2 Class) as per OIML R-76-1	2 kg to 10 kg	6 mg
318	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Accuracy Class II & coarser (readability: 5 mg)	Using Standard Weights (E2 Class) as per OIML R-76-1	5 kg to 64 kg	26 mg
319	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	1 g
320	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Accuracy Class IV & coarser (readability: 10 g)	Using Standard Weights (F1 & M1 Class) as per OIML R-76-1	50 kg to 300 kg	10 g
321	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weight & Mass Comparator (readability: 0.001 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1	1 g	0.004 mg

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322	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weight & Mass Comparator (readability: 0.001 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1	1 mg	0.0014 mg
323	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weight & Mass Comparator (readability: 0.001 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1	10 g	0.007 mg
324	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weight & Mass Comparator (readability: 0.001 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1	10 mg	0.0014 mg
325	MECHANICAL-WEIGHTS	Accuracy class 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	100 g	0.02 mg

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326	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weight & Mass Comparator (readability: 0.001 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1	100 mg	0.002 mg
327	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weight & Mass Comparator (readability: 0.1 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1	1000 g	0.3 mg
328	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weight & Mass Comparator (readability: 0.001 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1	2 g	0.0041 mg
329	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weight & Mass Comparator (readability: 0.001 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1	2 mg	0.0014 mg

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330	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weight & Mass Comparator (readability: 0.001 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1	20 g	0.009 mg
331	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weight & Mass Comparator (readability: 0.001 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1	20 mg	0.0017 mg
332	MECHANICAL-WEIGHTS	Accuracy class 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	200 g	0.06 mg
333	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weight & Mass Comparator (readability: 0.001 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1	200 mg	0.002 mg

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334	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weight & Mass Comparator (readability: 0.1 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1	2000 g	0.38 mg
335	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weight & Mass Comparator (readability: 0.001 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1	5 g	0.006 mg
336	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weight & Mass Comparator (readability: 0.001 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1	5 mg	0.0014 mg
337	MECHANICAL-WEIGHTS	Accuracy class 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	50 g	0.02 mg

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338	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weight & Mass Comparator (readability: 0.001 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1	50 mg	0.002 mg
339	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weight & Mass Comparator (readability: 0.1 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1	500 g	0.2 mg
340	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Standard Weight & Mass Comparator (readability: 0.001 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1	500 mg	0.003 mg
341	MECHANICAL-WEIGHTS	Accuracy class 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	10 kg	7 mg

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342	MECHANICAL-WEIGHTS	Accuracy class 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	20 kg	15.3 mg
343	MECHANICAL-WEIGHTS	Accuracy class 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	5 kg	5.8 mg
344	MECHANICAL-WEIGHTS	Accuracy class 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	50 kg	27 mg
345	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature/Humidity Indicator with sensor of Humidity Chamber / Environmental Chamber (Single Position)	Using Temperature & Humidity Indicator with Sensor by Comparison method	5 °C to 50 °C @ 50%RH	0.60 °C

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98	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi-Product Calibrator by Direct Method	1 Hz to 2 MHz	0.011 % to 0.014 %
99	FLUID FLOW-FLOW MEASURING DEVICES	Digital or Analog Liquid Flow Meter	Using Hand Held Clamp on Type Ultrasonic Flow Meter by Comparison method	1.8 m^3/hr to 100 m^3/hr	2.2 %
100	FLUID FLOW-FLOW MEASURING DEVICES	Digital or Analog Liquid Flow Meter	Using Hand Held Clamp on Type Ultrasonic Flow Meter by Comparison method	100 m^3/hr to 349 m^3/hr	1.9 %
101	MECHANICAL-ACCELERATION AND SPEED	Centrifuge/ Stroboscope/ RPM of Indicating Device/ Karl Fischer Titrator/ Sieve Shaker/ Bitumen Extractor/ L.A. Abrasion Machine/ Mixer/ Stirrer/ Viscometer/ Incubator Shaker / Vibration Machine	Using Master Tachometer by Direct method	> 10000 RPM to 30000 RPM	17.02 RPM
102	MECHANICAL-ACCELERATION AND SPEED	Centrifuge/ Stroboscope/ RPM of Indicating Device/ Karl Fischer Titrator/ Sieve Shaker/ Bitumen Extractor/ L.A. Abrasion Machine/ Mixer/ Stirrer/ Viscometer/ Incubator Shaker / Vibration Machine	Using Master Tachometer by Direct method	6 RPM to 1000 RPM	2.1 RPM

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103	MECHANICAL-ACCELERATION AND SPEED	Centrifuge/ Stroboscope/ RPM of Indicating Device/ Karl Fischer Titrator/ Sieve Shaker/ Bitumen Extractor/ L.A. Abrasion Machine/ Mixer/ Stirrer/ Viscometer/ Incubator Shaker) / Vibration Machine	Using Master Tachometer by Direct method	> 1000 RPM to 10000 RPM	3.07 RPM
104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center (Co-axiality of Center)	Using Dial Indicator, Cylindrical Test Mandrel & Taper Mandrel by Comparison method	0 to 500 mm	7.7 µm
105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center (Parallelism)	Using Dial Indicator, Cylindrical Test Mandrel & Taper Mandrel by Comparison method	0 to 500 mm	7.7 µm
106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Extensometer (L.C.: 0.001 mm)	Using Dial Calibration Tester / Electronic Probe with DRO and Extensometer Fixture by Comparison method	0 to 2 mm	6.54 µm
107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Extensometer (L.C.: 0.001 mm)	Using Electronic Probe with DRO and Extensometer Fixture by Comparison method	0 to 25 mm	6.54 µm

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108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Extensometer - Gauge Length (L.C.: 0.001 mm)	Using Electronic Caliper / Digital Height Gauge by Comparison method	0 to 25 mm	25.8 µm
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Extensometer - Gauge Length (L.C.: 0.001 mm)	Using Electronic Caliper / Digital Height Gauge by Comparison method	0 to 50 mm	25.8 µm
110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Extensometer - Gauge length (L.C.: 0.001 mm)	Using Electronic Caliper / Digital Height Gauge by Comparison Method	0 to 600 mm	30.13 µm
111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate - Flatness	Using Electronic Level & Spirit Level by Comparison method	0 to 3000 mm	0.99 x SQRT ((L+W)/100) µm where L & W in mm
112	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester (L.C.: 0.1 µm)	Using Slip Gauge Set & Electronic Probe with DRO by Comparison method	0 to 25 mm	1.21 µm
113	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Height Gauge - Linearity (L.C.: 0.0001 mm)	Using Surface Plate, Slip Gauge Set & Length Bars by Comparison method	0 to 600 mm	8.4 µm
114	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Height Gauge - Squareness (L.C.: 0.0001 mm)	Using Granite Square & lever dial gauge by comparison method	0 to 600 mm	10.81 µm

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115	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope - Linear Measurement	Using Slip Gauge Set & Glass Scale by Comparison method	0 to 10 mm	1.0 %
116	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope - Magnification	Using Glass Scale by Comparison method	10X to 1000X	0.4 %
117	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope - Magnification	Using Glass Scale by Comparison method	2X to 10X	0.6 %
118	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Angle Measurement (L.C.: 0.001°)	Using Angle Graticules by Comparison method	0° to 360°	5.86 minute of arc
119	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Linear: X-Y Axis (L.C: 1 µm)	Using Glass Scale by Comparison method	0 to 200 mm	4.9 µm
120	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Magnification	Using Glass Scale & Electronic Caliper by Comparison method	10X to 100X	0.41 %
121	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Tape & Scale Calibrator (L.C.: 1 µm)	Using Slip Gauge Set & Length Bar by Comparison method	0 to 1000 mm	15.3 µm
122	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Vision Measuring Machine / Profile Projector - Angle Measurement (L.C.: 0.001°)	Using Angle Graticules by Comparison method	0 to 360 °	0.581 minute of arc

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123	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Vision Measuring Machine / Profile Projector - Linear : X-Y Axis (L.C.: 0.1 µm)	Using Glass Scale by Comparison method	0 to 200 mm	2.22 µm
124	MECHANICAL-HARDNESS TESTING MACHINES	Verification Of Brinell Hardness Testing Machine	Using Standard Hardness Testing Blocks as Per IS 1500 (Part-2): 2021	10/3000 HBW	1.65 %
125	MECHANICAL-HARDNESS TESTING MACHINES	Verification Of Brinell Hardness Testing Machine	Using Standard Hardness Testing Blocks as Per IS 1500 (Part-2): 2021	2.5/187.5 HBW	1.80 %
126	MECHANICAL-HARDNESS TESTING MACHINES	Verification Of Brinell Hardness Testing Machine	Using Standard Hardness Testing Blocks as Per IS 1500 (Part-2): 2021	5/ 750 HBW	1.75 %
127	MECHANICAL-HARDNESS TESTING MACHINES	Verification Of Indentation Measuring System Of Brinell & Vickers Hardness Testing Machine	Using Glass Scale as Per IS 1500 (Part-2): 2021, IS 1501 (Part-2) : 2020, ASTM E10: 2023, ASTM E92: 2023 & ASTM E384: 2022	0 to 7 mm	0.40 %
128	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Rockwell Hardness Testing Machine	Using Standard Hardness Testing Blocks as Per IS 1586 (Part-2): 2018	HRA	0.70 HRA
129	MECHANICAL-HARDNESS TESTING MACHINES	Verification Of Rockwell Hardness Testing Machine	Using Standard Hardness Testing Blocks as Per IS 1586 (Part-2): 2018	HRBW	0.87 HRBW
130	MECHANICAL-HARDNESS TESTING MACHINES	Verification Of Rockwell Hardness Testing Machine	Using Standard Hardness Testing Blocks as Per IS 1586 (Part-2): 2018	HRC	0.60 HRC

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131	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Test Force for Rockwell & Rockwell Superficial, Brinell, Vickers & Microvickers Hardness Testser	Using Class 1 Force Proving Instruments / Load Cells as per IS 1586 (Part-2): 2018, ISO 6508- 2: 2023, IS 1500 (Part-2): 2021, ISO 6506-2: 2017 & IS 1501 (Part-2): 2020, ISO 6507- 2: 2018	50 N to 29421 N	0.65 %
132	MECHANICAL-PRESSURE INDICATING DEVICES	Magnehelic Gauge / Manometer / Differential Pressure Gauge / Transmitter (Positive Pressure) - Pneumatic Pressure	Using Master Digital Pressure Gauge, 6½ Digit Multimeter, Multifunction calibrator & Pressure Comparator as per DKD R-6-1	0 to 200 mbar	0.08 %
133	MECHANICAL-PRESSURE INDICATING DEVICES	Magnehelic Gauge / Manometer / Differential Pressure Gauge / Transmitter (Positive Pressure) - Pneumatic Pressure	Using Master Digital Pressure Gauge, 6½ Digit Multimeter, Multifunction calibrator & Pressure Comparator as per DKD R-6-1	0 to 2000 mbar	0.08 %
134	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Dial / Digital) & Recorder / Pressure Transducer / Transmitter (Positive Pressure) - Pneumatic Pressure	Using Master Digital Pressure Gauge, 6½ Digit Multimeter, Multifunction calibrator & Pressure Comparator as per DKD R-6-1	0 to 140 bar	0.10 bar
135	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Dial / Digital) & Recorder / Pressure Transducer / Transmitter / Pressure Switch - Hydraulic Pressure	Using Master Digital Pressure Gauge, 6½ Digit Multimeter & Pressure Comparator as per DKD R-6-1	0 to 1400 bar	0.70 bar

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136	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Dial / Digital) & Recorder / Pressure transducer / transmitter / Pressure Switch – Hydraulic Pressure	Using Master Digital Pressure Gauge, 6½ Digit Multimeter and Pressure Comparator as per DKD–R-6-1	0 to 1000 bar	0.15 bar
137	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Dial / Digital) & Recorder / Pressure transducer / transmitter / Pressure Switch – Hydraulic Pressure	Using Master Digital Pressure Gauge, 6½ Digit Multimeter and Pressure Comparator as per DKD–R-6-1	0 to 2 bar	0.0007 bar
138	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Dial / Digital) & Recorder / Pressure transducer / transmitter / Pressure Switch – Hydraulic Pressure	Using Master Digital Pressure Gauge, 6½ Digit Multimeter and Pressure Comparator as per DKD–R-6-1	0 to 400 bar	0.086 bar
139	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Dial / Digital) & Recorder / Pressure transducer / transmitter / Pressure Switch – Hydraulic Pressure	Using Master Digital Pressure Gauge, 6½ Digit Multimeter and Pressure Comparator as per DKD–R-6-1	0 to 70 bar	0.012 bar
140	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge (Dial / Digital) & Recorder / Pressure Transducer / Transmitter / Manometer	Using Master Vacuum Gauge, 6½ Digit Multimeter, Multifunction calibrator & Vacuum Comparator (Pneumatic Comparison) as per DKD R-6-1	(-) 0.93 bar to 0 bar	0.00068 bar

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141	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) : 2022	100 kN to 3000 kN	0.35 %
142	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) : 2022	50 N to 500 N	0.50 %
143	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) : 2022	500 N to 100 kN	0.35 %
144	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Static Testing Machine - Tension	Using Force Proving Instruments (Class 0/0.5/1 - Load Cell with Indicator) as per IS 1828 (Part-1) : 2022	0.5 kN to 100 kN	1 %
145	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Static Testing Machine - Tension	Using Force Proving Instruments (Class 0/0.5/1 - Load Cell with Indicator) as per IS 1828 (Part-1) : 2022	50 N to 500 N	0.50 %
146	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	0.005 mg

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147	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	0.008 mg
148	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	1 mg to 200 g	0.03 mg
149	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.	1 mg to 600 g	0.063 mg
150	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	0.33 mg
151	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Accuracy Class II & coarser (readability: 1 mg)	Using Standard Weights (E2 Class) as per OIML R-76-1	2 kg to 10 kg	6 mg
152	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Accuracy Class II & coarser (readability: 5 mg)	Using Standard Weights (E2 Class) as per OIML R-76-1	5 kg to 64 kg	26 mg
153	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	1 g

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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)(±)
154	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Accuracy Class IV & coarser (readability: 10 g)	Using Standard Weights (F1 & M1 Class) as per OIML R-76-1	50 kg to 300 kg	10 g
155	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator with Sensor of Chamber, Generator, Climate Chamber, Humidity Chamber (Single Position)	Using Temperature & Humidity Meter with Sensor by Comparison method	20 %RH to 95 %RH @ 25°C	1.85 %RH
156	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity Chamber / Environmental Chamber, Humidity Chamber (Multi Position)	Using Temperature & Humidity Data Loggers (Minimum 9) by Comparison method	20 %RH to 95 %RH @ 25°C	10.4 %RH
157	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature Indicator with Sensor of Chamber, Generator, Climate Chamber, Humidity Chamber (Single Position)	Using Temperature & Humidity Meter with Sensor by Comparison method	5 °C to 50 °C @ 50%RH	0.60 °C
158	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature/Humidity Indicator with sensor of Humidity Chamber / Environmental Chamber (Single Position)	Using Temperature & Humidity Indicator with Sensor by Comparison method	5 °C to 50 °C @ 50%RH	0.60 °C