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104	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time (Timer, Stop Watch)	Using Digital Timer by Comparison Method	3600 s to 43200 s	0.419 s to 5 s
105	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time (Timer, Stop Watch)	Using Digital Timer by Comparison Method	43200 s to 86400 s	5 s to 23.25 s
106	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time (Timer, Stop Watch)	Using Digital Timer by Comparison Method	60 s to 900 s	0.035 s to 0.104 s
107	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time (Timer, Stop Watch)	Using Digital Timer by Comparison Method	900 s to 1800 s	0.104 s to 0.210 s
108	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi-Product Calibrator by Direct Method	1 Hz to 2 MHz	0.011 % to 0.014 %
109	MECHANICAL-ACCELERATION AND SPEED	Centrifuge / RPM Measurement	Using Master Tachometer by Direct method	10 rpm to 1000 rpm	0.57 rpm

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110	MECHANICAL-ACCELERATION AND SPEED	Centrifuge / RPM Measurement	Using Master Tachometer by Direct method	1000 rpm to 12000 rpm	3.5 rpm
111	MECHANICAL-ACCELERATION AND SPEED	Centrifuge / Stroboscope / RPM Measurement	Using Master Tachometer by Direct method	1000 rpm to 10000 rpm	3.07 rpm
112	MECHANICAL-ACCELERATION AND SPEED	Centrifuge / Stroboscope / RPM Measurement	Using Master Tachometer by Direct method	10000 rpm to 30000 rpm	10.02 rpm
113	MECHANICAL-ACCELERATION AND SPEED	Centrifuge / Stroboscope / RPM Measurement	Using Master Tachometer by Direct method	6 rpm to 1000 rpm	0.57 rpm
114	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
115	MECHANICAL-ACCELERATION AND SPEED	RPM Meter / Tachometer (Contact)	Using Master Tachometer and RPM Source by Comparison method	500 rpm to 8000 rpm	2.10 rpm
116	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
117	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

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118	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
119	MECHANICAL-ACCELERATION AND SPEED	RPM Meter / Tachometer (Non-contact)	Using Master Tachometer and RPM Source by Comparison method	10000 rpm to 40000 rpm	7.49 rpm
120	MECHANICAL-ACCELERATION AND SPEED	RPM Meter / Tachometer (Non-contact)	Using Master Tachometer and RPM Source by Comparison method	40000 rpm to 75000 rpm	10.35 rpm
121	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
122	MECHANICAL-ACCELERATION AND SPEED	RPM Meter / Tachometer (Non-contact)	Using Master Tachometer and RPM Source by Comparison method	6 rpm to 1000 rpm	0.57 rpm
123	MECHANICAL-ACCELERATION AND SPEED	RPM Meter / Tachometer (Non-contact)	Using Master Tachometer and RPM Source by Comparison method	75000 rpm to 99999 rpm	23.15 rpm
124	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Acoustic Calibrator as per IS 15575 (Part 1 & 2)	114 dB @ 1 kHz	0.5 dB

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125	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Acoustic Calibrator as per IS 15575 (Part 1 & 2)	94 dB @ 1 kHz	0.55 dB
126	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	0.001 g/ml
127	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 %
128	MECHANICAL-DENSITY AND VISCOSITY	Flow Cups	Using standard viscosity Oil as per IS 3944 and ASTM D1200	7 cSt to 180 cSt	0.35 %
129	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 %

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130	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 Sp.Gr. to 2 Sp.Gr.	0.002 g/ml
131	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	34.06 cP (mPa.s) to 348600 cP (mPa.s)	1.37 %
132	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	99.62 mm^2/s to 316.1 mm^2/s	0.62 %

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133	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	99.62 mm^2/s to 749.0 mm^2/s	0.81 %
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Protractor (L.C: 0.1°)	Using Profile Projector by Comparison method	0° to 180°	24.13 minute of arc
135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Stips	Using Profile Projector by Comparison method	0° to 360°	1.7 minute of arc
136	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

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137	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	6.0 µm
138	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
139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector / Inclinometer (L.C: 1 minute)	Using Profile Projector by Comparison method	0°-90°-0°	34 minute of arc
140	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
141	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

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142	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 (Caliper Checker) by Comparison method	0 to 150 mm	1.4 µm
143	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 & Accessories by Comparison method	0 to 1000 mm	13.1 µm
144	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 (Caliper Checker) by Comparison method	0 to 300 mm	7.93 µm
145	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 & Accessories by Comparison method	0 to 600 mm	9.5 µm

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146	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	133xSQRT(L) µm where L in m
147	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
148	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
149	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
150	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

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151	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
152	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set (L.C: 5')	Using Profile Projector by Comparison method	0° to 180°	34 minute of arc
153	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	3.7 µm
154	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cross Hach Cutter (Linear measurement)	Using Profile Projector by Comparison method	0 to 3 mm	7 µm
155	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	9.22 µm

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156	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
157	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
158	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
159	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
160	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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161	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
162	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator - Plunger (L.C: 0.001 mm)	Using Length Measuring Machine by Comparison method	0 to 50 mm	1.62 µm
163	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator - Plunger (L.C: 0.01 mm)	Using Length Measuring Machine by Comparison method	0 to 50 mm	1.62 µm
164	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
165	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Extensometer (L.C.: 0.001 mm)	Using Dial Calibration Tester by Comparison method	0 to 2 mm	6.54 µm

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166	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Extensometer (L.C.: 0.001 mm)	Using Electronic Caliper by Comparison method	0 to 25 mm	25.8 µm
167	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Extensometer (L.C.: 0.001 mm)	Using Electronic probe with DRO and fixture by Comparison Method	0 to 25 mm	6.54 µm
168	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Extensometer (L.C.: 0.001 mm) (Gauge Length)	Using Electronic Caliper by Comparison method	0 to 50 mm	25.8 µm
169	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Extensometer (L.C.: 0.001 mm) (Gauge length)	Using Electronic Caliper by Comparison Method	0 to 600 mm	30.13 µm
170	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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171	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
172	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
173	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
174	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

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175	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
176	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
177	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
178	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
179	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

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180	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
181	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
182	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
183	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
184	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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185	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flakiness & Elongation Gauge	Using Profile Projector by Comparison Method	0 to 110 mm	16 µm
186	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hegman Gauge	Using Electronic probe with DRO by Comparison method	0 to 100 µm	1.6 µm
187	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
188	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
189	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hole Test (2 pt and 3 pt) Micrometer	Using Master Setting Ring Gauge by Comparison method	3.0 mm to 125 mm	2.43 µm

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190	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
191	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
192	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
193	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
194	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

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195	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
196	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
197	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	10.15 µm
198	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
199	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

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200	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin	Using Length Measuring Machine by Comparison method	0.5 mm to 20 mm	1.32 µm
201	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
202	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
203	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	134xSQRT(L) µm where L in m
204	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape (L.C: 0.1 mm)	Using Tape & Scale Calibrator by Comparison method	0.1 m to 50 m	134xSQRT(L) µm where L in m

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205	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
206	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
207	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Mould / Cube Mould	Using Electronic Caliper by Comparison method	0 to 150 mm	20 µm
208	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	9.36 µm
209	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	6.2 µm

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210	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Penetrometer	Using Slip Gauge Set by Comparison Method	0 to 40 mm	60 µm
211	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pin Gauge	Using Length Measuring Machine by Comparison method	0.17 mm to 20 mm	1.32 µm
212	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pin Gauge	Using Length Measuring Machine by Comparison method	0.5 mm to 20 mm	1.32 µm
213	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper (L.C: 0.05 mm)	Using Slip Gauge by Comparison method	0 to 80 mm	61 µm
214	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 Profile Projector, Angle Gauge Blocks & Slip Gauge Set by Comparison method	0° to 90°	8.1 minute of arc

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215	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pit Gauge / Welding Gauge / Weld Hi-Lo Gauge / Bridge Cam Gauge / Weld Gauge - Linear	Using Profile Projector / Tape & Scale Calibrator by Comparison method	0 to 60 mm	6.7 µm
216	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
217	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
218	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
219	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

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220	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Profile Projector by Comparison method	0.5 mm to 50 mm	7.6 µm
221	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
222	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
223	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	0 to 300 mm	1.63 µm
224	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

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225	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
226	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Standard Foils	Using Length Measuring Machine by Comparison method	1 µm to 5000 µm	0.72 µm
227	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Standard Foils	Using Length Measuring Machine by Comparison method	5 mm to 10 mm	0.74 µm
228	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Standard Wire Gauge	Using Profile Projector by Comparison method	0.19 mm to 8 mm	4.21 µm
229	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

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230	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
231	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
232	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
233	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
234	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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235	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
236	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
237	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate - Flatness	Using Electronic Level & Spirit Level by Comparison method	0 to 3000 mm	0.99xSQRT((L+W)/100) µm where L & W in mm
238	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

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239	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plug Gauge (Major Diameter)	Using Length Measuring Machine & Master Setting Disc by Comparison method	100 mm to 200 mm	2.6 µm
240	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
241	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
242	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

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243	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge - Effective Diameter	Using Length Measuring Machine & Master Setting Disc by Comparison Method	100 mm to 200 mm	3.7 µm
244	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge - Effective Diameter	Using Length Measuring Machine & Master Setting Disc by Comparison method	5 mm to 100 mm	2.1 µm
245	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
246	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Template, Width Gauge, Fixture, Paddle Gauge (Linear measurement)	Using Profile Projector & Slip Gauge Set by Comparison method	0 to 150 mm	22.7 µm
247	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Profile Projector by Comparison Method	25 µm to 5 mm	6.6 µm

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248	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Electronic Caliper by Comparison method	5 mm to 125 mm	42 µm
249	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Gauge (0.001 mm)	Using Slip Gauge Set & Standard Foil by Comparison Method	0 to 12.7 mm	1.4 µm
250	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
251	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
252	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

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253	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Pin	Using Length Measuring Machine by Comparison method	0.5 mm to 20 mm	1.32 µm
254	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Linear measurement)	Using Profile Projector by Comparison method	0.25 mm to 7 mm	6.6 µm
255	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
256	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
257	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

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258	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
259	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	7.8 µm
260	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
261	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

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262	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Welding Fillet Gauge	Using Profile Projector by Comparison method	0.5 mm to 25 mm	7.2 µm
263	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wet Film Thickness (WFT) Gauge	Using Profile Projector by Comparison method	0 to 3000 µm	6.75 µm
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	9.35 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	3.31 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

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267	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Height Gauge (L.C.: 0.0001 mm)	Using Surface Plate, Slip Gauge Set, Granite Square & Length Bars by Comparison method	0 to 600 mm	8.4 µm
268	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope - Linear Measurement	Using Slip Gauge Set & Glass Scale by Comparison method	0 to 10 mm	0.74 %
269	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope - Magnification	Using Glass Scale by Comparison method	10X to 1000X	0.4 %
270	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope - Magnification	Using Glass Scale by Comparison method	2X to 10X	0.6 %
271	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
272	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
273	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Magnification	Using Glass Scale & Electronic Caliper by Comparison method	10X to 100X	0.41 %

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274	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
275	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
276	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
277	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
278	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
279	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 %

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280	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 %
281	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 %
282	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 %
283	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Dial / Digital) & Recorder / Pressure Transducer / Safety Valve / 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	0.13 bar

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284	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Dial / Digital) & Recorder / Pressure Transducer / Transmitter / Safety Valve / Pressure Switch - Hydraulic Pressure	Using Master Digital Pressure Gauge, 6½ Digit Multimeter & Pressure Comparator as per DKD R-6-1	0 to 1400 bar	0.20 bar
285	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge (Dial / Digital) & Recorder / Pressure Transducer / Transmitter / Manometer	Using Master Vacuum Gauge, 6½ Digit Multimeter, Multifunction calibrator & Vacuum Comparator as per DKD R-6-2	(-)0.93 bar to 0 bar	0.00034 bar
286	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench / Torque Meter (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 16906	1 Nm to 5 Nm	3.09 % rdg
287	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench / Torque Meter (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 16906	10 Nm to 100 Nm	1.12 % rdg
288	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench / Torque Meter (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 16906	100 Nm to 500 Nm	1.50 % rdg

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289	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench / Torque Meter (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 16906	5 Nm to 20 Nm	2.63 % rdg
290	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench / Torque Meter (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 16906	500 Nm to 2000 Nm	2.79 % rdg
291	MECHANICAL-VOLUME	Glassware - Pipette, Burette, Measuring Cylinder, Volumetric Flask, Beaker, Bottle Top Dispenser etc.	Using Digital Precision Balance (readability : 0.00001 g) & Distilled Water of Known Density as per ISO 4787	0.1 ml to 5 ml	1.78 µl
292	MECHANICAL-VOLUME	Glassware - Pipette, Burette, Measuring Cylinder, Volumetric Flask, Beaker, Bottle Top Dispenser etc.	Using Digital Precision Balance (readability : 0.00001 g) & Distilled Water of Known Density as per ISO 4787	10 ml to 100 ml	10 µl
293	MECHANICAL-VOLUME	Glassware - Pipette, Burette, Measuring Cylinder, Volumetric Flask, Beaker, Bottle Top Dispenser etc.	Using Digital Precision Balance (readability : 0.00001 g) & Distilled Water of Known Density as per ISO 4787	10 ml to 25 ml	6.5 µl

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294	MECHANICAL-VOLUME	Glassware - Pipette, Burette, Measuring Cylinder, Volumetric Flask, Beaker, Bottle Top Dispenser etc.	Using Digital Precision Balance (readability : 0.0001 g) & Distilled Water of Known Density as per ISO 4787	100 ml to 1000 ml	143 µl
295	MECHANICAL-VOLUME	Glassware - Pipette, Burette, Measuring Cylinder, Volumetric Flask, Beaker, Bottle Top Dispenser etc.	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	1000 ml to 4000 ml	0.42 ml
296	MECHANICAL-VOLUME	Glassware - Pipette, Burette, Measuring Cylinder, Volumetric Flask, Beaker, Bottle Top Dispenser etc.	Using Digital Precision Balance (readability : 0.005 g) & Distilled Water of Known Density as per ISO 4787	4000 ml to 5000 ml	0.45 ml
297	MECHANICAL-VOLUME	Glassware - Pipette, Burette, Measuring Cylinder, Volumetric Flask, Beaker, Bottle Top Dispenser etc.	Using Digital Precision Balance (readability : 0.00001 g) & Distilled Water of Known Density as per ISO 4787	5 ml to 10 ml	5 µl

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298	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	1 µl to 10 µl	0.1 µl
299	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	10 µl to 100 µl	0.1 µl
300	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	100 µl to 1000 µl	1.3 µl
301	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	1000 µl to 5000 µl	1.3 µl

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302	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	5000 µl to 10000 µl	5 µl
303	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
304	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
305	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
306	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	0.061 mg

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307	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
308	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	6 mg
309	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	26 mg
310	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
311	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Accuracy Class III & coarser (readability: 10 g)	Using Standard Weights (F1 & M1 Class) as per OIML R-76-1	50 kg to 300 kg	10 g
312	MECHANICAL-WEIGHTS	Weight / Mass (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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313	MECHANICAL-WEIGHTS	Weight / Mass (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
314	MECHANICAL-WEIGHTS	Weight / Mass (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	10 g	0.007 mg
315	MECHANICAL-WEIGHTS	Weight / Mass (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

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316	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	100 g	0.02 mg
317	MECHANICAL-WEIGHTS	Weight / Mass (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
318	MECHANICAL-WEIGHTS	Weight / Mass (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

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319	MECHANICAL-WEIGHTS	Weight / Mass (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
320	MECHANICAL-WEIGHTS	Weight / Mass (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
321	MECHANICAL-WEIGHTS	Weight / Mass (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

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322	MECHANICAL-WEIGHTS	Weight / Mass (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
323	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	200 g	0.06 mg
324	MECHANICAL-WEIGHTS	Weight / Mass (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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325	MECHANICAL-WEIGHTS	Weight / Mass (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
326	MECHANICAL-WEIGHTS	Weight / Mass (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
327	MECHANICAL-WEIGHTS	Weight / Mass (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

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328	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	50 g	0.02 mg
329	MECHANICAL-WEIGHTS	Weight / Mass (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
330	MECHANICAL-WEIGHTS	Weight / Mass (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

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331	MECHANICAL-WEIGHTS	Weight / Mass (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
332	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	10 kg	7 mg
333	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	20 kg	15.3 mg

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334	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	5 kg	5.8 mg
335	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	50 kg	27 mg
336	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
337	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature/Humidity Indicator with sensor of Temperature & Humidity Chamber / Environmental Chamber	Using Temperature & Humidity Indicator with Sensor by Comparison method	20 %rh to 95 %rh @ 25°C	1.85 %rh

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109	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi-Product Calibrator by Direct Method	1 Hz to 2 MHz	0.011 % to 0.014 %
110	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 %
111	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	1.5 %
112	MECHANICAL-ACCELERATION AND SPEED	Centrifuge / RPM Measurement	Using Master Tachometer by Direct method	10 rpm to 1000 rpm	0.57 rpm
113	MECHANICAL-ACCELERATION AND SPEED	Centrifuge / RPM Measurement	Using Master Tachometer by Direct method	1000 rpm to 12000 rpm	3.5 rpm
114	MECHANICAL-ACCELERATION AND SPEED	Centrifuge / Stroboscope / RPM Measurement	Using Master Tachometer by Direct method	1000 rpm to 10000 rpm	3.07 rpm
115	MECHANICAL-ACCELERATION AND SPEED	Centrifuge / Stroboscope / RPM Measurement	Using Master Tachometer by Direct method	10000 rpm to 30000 rpm	10.02 rpm

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116	MECHANICAL-ACCELERATION AND SPEED	Centrifuge / Stroboscope / RPM Measurement	Using Master Tachometer by Direct method	6 rpm to 1000 rpm	0.57 rpm
117	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
118	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	6.0 µm
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Extensometer (L.C.: 0.001 mm)	Using Electronic probe with DRO and fixture by Comparison Method	0 to 25 mm	6.54 µm
120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Extensometer (L.C.: 0.001 mm) (Gauge length)	Using Electronic Caliper by Comparison Method	0 to 600 mm	30.13 µm

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121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate - Flatness	Using Electronic Level & Spirit Level by Comparison method	0 to 3000 mm	0.99xSQRT((L+W)/100) µm where L & W in mm
122	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
123	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope - Linear Measurement	Using Slip Gauge Set & Glass Scale by Comparison method	0 to 10 mm	0.74 %
124	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope - Magnification	Using Glass Scale by Comparison method	10X to 1000X	0.4 %
125	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope - Magnification	Using Glass Scale by Comparison method	2X to 10X	0.6 %
126	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
127	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

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128	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Magnification	Using Glass Scale & Electronic Caliper by Comparison method	10X to 100X	0.41 %
129	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
130	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 %
131	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 %
132	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Dial / Digital) & Recorder / Pressure Transducer / Safety Valve / 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	0.13 bar

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133	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Dial / Digital) & Recorder / Pressure Transducer / Transmitter / Safety Valve / Pressure Switch - Hydraulic Pressure	Using Master Digital Pressure Gauge, 6½ Digit Multimeter & Pressure Comparator as per DKD R-6-1	0 to 1400 bar	0.20 bar
134	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge (Dial / Digital) & Recorder / Pressure Transducer / Transmitter / Manometer	Using Master Vacuum Gauge, 6½ Digit Multimeter, Multifunction calibrator & Vacuum Comparator as per DKD R-6-2	(-)0.93 bar to 0 bar	0.00034 bar
135	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 %
136	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	0.77 %

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137	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 %
138	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) : 2022	0.5 kN to 100 kN	0.35 %
139	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
140	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
141	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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142	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	0.061 mg
143	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
144	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	6 mg
145	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	26 mg
146	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
147	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Accuracy Class III & coarser (readability: 10 g)	Using Standard Weights (F1 & M1 Class) as per OIML R-76-1	50 kg to 300 kg	10 g