National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

HI-TECH CALIBRATION & TESTING LLP

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

GALA NO. 60, ROYAL INDUSTRIAL HUB, VILL. VALWADA, UMBERGAON, VALSAD, GUJARAT, INDIA

in the field of

CALIBRATION

Certificate Number: CC-2478

Issue Date: 04/01/2025 **Valid Until:** 03/01/2029

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of thislaboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: HI-TECH CALIBRATION & TESTING LLP

Signed for and on behalf of NABL

Anita Rani
Director

N. Venkateswaran
Chief Executive Officer

SCOPE OF ACCREDITATION

Laboratory Name : HI-TECH CALIBRATION & TESTING LLP, GALA NO. 60, ROYAL INDUSTRIAL HUB, VILL. VALWADA, UMBERGAON, VALSAD, GUJARAT, INDIA

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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)(±)
112	MECHANICAL-ACCELERATION AND SPEED	Acceleration Measure Vibration Meter, Vibration meter with Sensor	Using Vibration Meter with Shaker by Comparison method	0.5 m/s² (pk) to 30 m/s² (pk)	10.26 %
113	MECHANICAL-ACCELERATION AND SPEED	Displacement Vibration Meter, Vibration meter with Sensor	'Using Vibration meter with Shaker By Comparison Method	0 mm(pk) to 2.5 mm(pk)	10.26 %
114	MECHANICAL-ACCELERATION AND SPEED	Speed Indicator/ RPM Meter, RPM of Rotating Equipment (Contact Type)	Using Contact Type Tachometer By Direct Method	1000 RPM to 12000 RPM	0.31 %

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115	MECHANICAL-ACCELERATION AND SPEED	Speed Indicator/ RPM Meter, RPM of Rotating Equipment (Contact Type)	Using Contact type Tachometer by Direct method	6 rpm to 1000 rpm	10.2 %
116	MECHANICAL-ACCELERATION AND SPEED	Speed Indicator/ RPM Meter/ Centrifuge	Using Digital Tachometer for Measure RPM by Direct method	100 rpm to 10000 rpm	0.81 %
117	MECHANICAL-ACCELERATION AND SPEED	Speed Indicator/ RPM Meter/ Centrifuge	Using Digital Tachometer for Measure RPM by Direct method	10000 rpm to 99500 rpm	0.62 %
118	MECHANICAL-ACCELERATION AND SPEED	Speed Indicator/ RPM Meter/ Centrifuge	Using Digital Tachometer for Measure RPM by Direct method	6 rpm to 100 rpm	10.26 %
119	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type) RPM measure	Using Contact Type Tachometer with VFD Source by Comparison method	100 RPM to 500 RPM	10.1 %
120	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type) RPM measure	Using Contact Type Tachometer with VFD Source by Comparison method	500 RPM to 3000 RPM	0.6 %
121	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type) RPM Measure	Using Contact Type Tachometer with VFD Source by Comparison method	3000 RPM to 12000 RPM	0.1 %
122	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type) RPM measure	Using Contact Type Tachometer with VFD Source by Comparison method	6 RPM to 100 RPM	10.25 %
123	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Stroboscope (Non Contact Type) RPM Measure	Using Digital Tachometer with VFD Source by Comparison method	100 RPM to 1000 RPM	10.26 %

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124	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Stroboscope (Non Contact Type) RPM measure	Using Digital Tachometer with VFD Source by Comparison method	1000 RPM to 5000 RPM	0.12 %
125	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Stroboscope (Non Contact Type) RPM Measure	Using Digital Tachometer with VFD Source by Comparison method	10000 RPM to 99500 RPM	0.06 %
126	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Stroboscope (Non Contact Type) RPM measure	Using Digital Tachometer with VFD Source by Comparison method	5000 RPM to 10000 RPM	0.1 %
127	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Stroboscope (Non Contact Type) RPM measure	Using Digital Tachometer with VFD Source by Comparison method	6 RPM to 100 RPM	6.04 %
128	MECHANICAL-ACCELERATION AND SPEED	Velocity Measure - Vibration Meter, Vibration meter with Sensor	Using Vibration Meter with Shaker by Comparison method	0.5 mm/s (pk) to 30 mm/s (pk)	10.26 %
129	MECHANICAL-ACCELERATION AND SPEED	Verification Speed of Jaw, Speed of Force Machine Cross Heads	Using Digital Vernier Caliper and Stop watch or Time Interval meter By Direct Method	0 to 600 mm/min	0.25 mm/min
130	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Direct Method	114 dB	0.8 dB
131	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Direct Method	94 dB	0.9 dB
132	MECHANICAL-DENSITY AND VISCOSITY	Density of Liquid	Using Precision Weighing Balance as per OIML G14 Gravimetric method	600 kg/m^3 to 2000 kg/m^3	0.075 %

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133	MECHANICAL-DENSITY AND VISCOSITY	Density of Solid	Using Precision Weighing Balance as per OIML G14 Gravimetric method	500 kg/m³ to 15000 kg/m³	0.075 %
134	MECHANICAL-DENSITY AND VISCOSITY	Hydrometer (Density Hydrometer, Brix Hydrometer, Brume Hydrometer, Twaddle Hydrometer, Sp. gr. Hydrometer, Lactometer, Alcoholmeter)	Using Standard Hydrometer and Liquid of known densities by Comparison method	(0.600 g/ml to 2.000 g/ml) @ 20°C	0.0015 g/ml
135	MECHANICAL-DENSITY AND VISCOSITY	Viscosity Cup (Orifice Diameter: 1 mm to 6 mm)	Using Viscosity Standard Oil by Direct method	Up to 640 cst	0.89 %
136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Gauge	Using Sine bar and Slip gauge set by Direct method	0° arc to 90° arc to 0° arc	0.004° arc
137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ball Indenter (Angle)	Using Vision Measuring Machine By Direct Method	0° to 120° of arc	8 min. of arc
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ball Indenter (Linear)	Using Vision Measuring Machine By Direct Method	0 5 mm (penitration depth & concentric dia)	7 µm

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139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector, Digital Degree Protector Resolution: 1 minute and Coarser	Using Angle Gauge by Direct method	0°- 90°- 0°	5.6 minutes of arc
140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (For transmission accuracy check only)	Using Universal Length Measuring Machine by Direct method	Up to 1 mm	3.6 µm
141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier, Dial, Electronics) L.C.: 0.02 mm & Coarser	Using Long Slip and Slip gauges by Direct Method	0 to 2000 mm	0.041 mm
142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier,Dial,Electronics) L.C: 0.01 mm & Coarser	Using Slip Gauges by Direct method	0 to 1000 mm	16 µm
143	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier,Dial,Electronics) L.C: 0.01 mm & Coarser	Using Caliper Checker / Slip gauge set by Direct method	0 to 300 mm	0.006 mm
144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Clinometer, Inclinometer, Gunners Quadrant	Using Sine bar and Slip gauge set by Direct method	0° to 60°	0.004 ° of arc

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145	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 0.1 µm and coarser)	Using Master foil by Direct method	0.01 mm to 2 mm	2.5 µm
146	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set/ Set Degree Protector Resolution 1° and coarser	Using Angle gauges by Direct method	0°- 90°- 0°	45 minute of arc
147	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube or Beam or Cylindrical Mould (Angle)	Using Bevel Protector by Direct method	0°- 90°- 0°	8.4 min of arc
148	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube or Beam or Cylindrical Mould (Linear)	Used Digital Vernier Caliper by Direct method	0 to 750 mm	25 µm
149	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge (Vernier,Dial,Electronics) L.C: 0.01 mm & Coarser	Using Slip Gauge Set by Direct method	0 to 450 mm	23.1 µm
150	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer L.C: 0.01 mm	Using Caliper Checker and Holding Fixture by Direct method	0 to 300 mm	12 µm

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151	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Calibration Tester L.C: 0.0002 mm	Using Slip Gauge Set and Electronic Probe with DRO by Comparison Method	0 to 25 mm	1.3 µm
152	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge / Indicator (Plunger/Profile) L.C: 0.001 mm & Coarser	Using Universal Length Measuring Machine by Direct method	0 to 50 mm	1.8 µm
153	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge / Plane Snap Gauge	Using Slip Gauge set by Direct method	0 to 200 mm	3.9 µm
154	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge / Plane Snap Gauge	Using Slip Gauge set by Direct method	200 mm to 600 mm	6.0 µm
155	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge L.C: 0.001 mm	Using Standard foil by Direct method	0 to 0.5 mm	1.2 µm
156	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge L.C: 0.001 mm	Using Slip gauge set by Direct method	0.5 mm to 1 mm	1.2 µm

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157	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge L.C: 0.01 mm	Using Slip gauge set by Direct method	1 mm to 30 mm	7.1 µm
158	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Probe with DRO L.C: 0.0001 mm	Using Slip Gauge Set by Direct method	0 to 0.2 mm	1.1 µm
159	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Probe with DRO L.C: 0.001 mm	Using Slip Gauge Set by Direct method	0 to 2 mm	2.10 µm
160	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Gauge	Using Digital Vernier Caliper by Direct method	0 to 600 mm	0.011 mm
161	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer (L.C.: 0.0001 mm & Coarser)	Using Extensometer Calibrator By Direct Method	0 to 25 mm	1.7 µm
162	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C: 0.001 mm	Using Slip Gauge Set by Direct method	0 to 600 mm	12.6 µm

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163	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C: 0.01 mm & Coarser	Using Slip Gauge Set by Direct method	>150 mm to 300 mm	7 µm
164	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C: 0.01 mm & Coarser	Using Slip Gauge Set by Direct method	>300 mm to 600 mm	12 µm
165	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C: 0.01 mm & Coarser	Using Slip Gauge Set by Direct Method	0 to 150 mm	5 µm
166	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C: 0.01 mm & Coarser	Using Slip Gauge Set by Direct method	600 mm to 1000 mm	19 µm
167	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using ULM by Direct method	0 to 2 mm	2 µm
168	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flanking Gauge, Elongation Index Length Gauge	Using Vision Measuring Machine by Direct method	0 to 100 mm	0.003 mm

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169	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flanking Gauge, Elongation Index Length Gauge (Diameter)	Using Vision Measuring Machine by Direct method	0 to 6 mm	0.003 mm
170	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	GSM Cutter (Diameter)	Using Vision Measuring Machine By Direct Method	0 to 150 mm	9.63 µm
171	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier,Dial,Electronics) L.C: 0.01 mm & Coarser	Using Caliper Checker / Slip Gauges by Direct method	0 to 1000 mm	24 µm
172	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside/Out Side Dial Caliper Two Point L.C: 0.001 mm	Using Caliper Checker by Direct method	10 mm to 150 mm	7.0 µm
173	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer Two Point L.C: 0.01 mm & Coarse (with interchangeable Sticks)	Using Slip gauge set with Accessories & Electronic probe with DRO by Comparison method	5 mm to 2100 mm	0.65xSQRT(L) µm, where L in mm
174	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge, Digital/Dial Comparator L.C: 0.001 mm and Coarser	Using Universal Length Measuring Machine by Direct method	Up to 2 mm	1.2 µm

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175	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	LVDT Scale / Laser Sensor / Proximity Sensor with Indicator / Displacement Sensor L.C.=0.0001 mm & Coarser	Using Slip gauge Set by Direct method	0 to 300 mm	0.002 mm
176	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pins	Using Universal Length Measuring Machine by Direct method	0.17 mm to 20 mm	1.5 µm
177	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale L.C: 0.5 mm & Coarser	Using Scale and Tape calibrator by Direct method	Up to 1000 mm	289xSQRT(L) µm, where L in m
178	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape / Pie Tape L.C: 1 mm	Using Scale and Tape Calibrator by Direct method	0 to 50 m	289 x SQRT(L) µm, where L in m
179	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micro meter setting standard / Long Gauge Block	Using Slip gauge set Electronic Probe with DRO by Comparison method	25 mm to 600 mm	8.7 µm
180	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micro meter setting standard / Long Gauge Block	Using Slip gauge set & Electronic Probe with DRO by Comparison method	600 mm to 1000 mm	10 µm

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181	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper Gauge L.C: 0.01 mm	Using Slip Gauge Set by Direct method	0 to 150 mm	58 µm
182	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plane / Master Ring Gauge	Using Universal Length Measuring Machine, Master Plug gauge by Direct method	3.0 mm to 100 mm	2.7 µm
183	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plane Plug Gauge, Step Gauge	Using Universal Length Measuring Machine by Direct method	0 to 100 mm	2.6 µm
184	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plated Wire Gauges or Wet Film Thickness Gauge	Using Vision Measuring Machine by Direct method	0 to 8.0 mm	4.7 µm
185	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Vision Measuring Machine with Software by Direct method	0.6 mm to 25 mm	9.63 µm
186	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Vision Measuring Machine By Direct Method	25 mm to 40 mm	9.63 µm

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187	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Rockwell Diamond Cone Indentor (Angle)	Using Vision Measuring Machine by Direct method	0° to 120° of arc	8 min. of arc
188	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Rockwell Diamond Cone Indentor (Linear)	Using Vision Measuring Machine by Direct method	0 to 5 mm (penetration depth & concentric dia.)	7 µm
189	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Scale of Compass Resolution: 1 minute and Coarser	Using Vision measuring machine by Direct method	0°- 90°- 0°	5.6 min. of arc
190	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Seg Gauge, Hegman Gauge	Using Electronic Probe with DRO by Direct method	0 to 8.0 mm	4.7 µm
191	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Shims (Foils) of Coating Thickness Gauge	Using Universal Length Measuring Machine by Direct method	Up to 5 mm	2.4 µm
192	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit level, Frame Level, Electronic Level, Auto or Dumpy Level (L.C. 0.005 mm/m and Coarser)	Using Electronic Level, Tilting Setup by Comparison method	0 to 2 mm/m of Any Base Length	9 µm/m

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193	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate Granite / Cast Iron	Using Electronic Level by Direct method	Up to 1000 x 2000 mm	1.5x(SQRT(L+W)/125) µm where L & W in m
194	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale, V-Scale (L.C. 01 mm)	Using Vision Measuring Machine by Direct method	0 to 60 mm	58 µm
195	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Effective Diameter Only)	Using Universal Length measuring machine with Thread measuring Wire by Direct method	3 mm to 100 mm	3.7 µm
196	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Template, Hatch Gauge, PCD Gauge (Angle Measurement)	Using Vision Measuring machine By Direct Method	0°- 90°- 0°	8.1 min
197	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Template, Hatch Gauge, PCD Gauge (Linear, Diameter)	Using Vision Measuring Machine by Direct method	Up to 300 mm	7 µm
198	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Vision Measuring Machine by Direct method	1 mm to 4 mm	6.6 µm

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199	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Vision Measuring Machine by Direct method	20 µm to 1000 µm	1.54 µm
200	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Digital Caliper by Direct method	4 mm to 125 mm	34.4 µm
201	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wire	Using Universal Length Measuring Machine by Direct method	0.17 mm to 7.35 mm	1 µm
202	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge Major & Effective Diameter Only	Using Universal Length Measuring Machine with Thread measuring wire by Direct method	0 to 100 mm	4.0 µm
203	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge Minor & Effective Diameter Only	Using Universal Length Measuring Machine with Setting Ring Gauge by Direct method	Up to M100 mm (2.5 mm pitch only)	2.8 µm
204	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge L.C: 0.01 mm and Coarser	Using Slip gauge set by Direct method	5 mm to 100 mm	86.0 µm

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205	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Gauge, Hi-Lo Gauge (Angle)	Using Vision Measuring Machine By Direct Method	0° to 60°of arc Angle	8.01 min of arc Angle
206	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Gauge, Hi-Lo Gauge (Linear)	Using Vision Measuring Machine by Direct method	0 to 50 mm Depth	100.3 µm
207	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bar / Long Gauge Block	Using Slip Gauge set & Electronic probe with DRO by Comparison method	>600 mm to 1000 mm	10 µm
208	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bar / Long Gauge Block	Using Slip gauge set & Electronic probe with DRO by Comparison method	25 mm to 600 mm	8.7 µm
209	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector, Optical Microscope, Tool Maker Microscope, Magnification	Using Linier Glass Scale, Digital Vernier Caliper, Slip gauge set by Direct method	Magnification: Up to 1000 X	2.6 %
210	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector, Optical Microscope, Tool Maker Microscope, Vision Measuring Machine Linear (L.C: 0.0001 mm)	Using Glass Scale, Linear Glass Graticule by Direct method	Linear: 0 to 300 mm	linear: 5.7 µm

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211	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector, Optical Microscope, Vision Measuring Machine Angular (L.C: 1 minute and coarser)	Using Angle Gauge, Angular Graticule by Direct method	Angular: 0° to 360°	1.2 min of arc
212	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Scale and Tape Calibration Machine L.C: 0.0001 mm	Using Slip gauge set by Direct method	Up to 1000 mm	5.0 µm
213	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine L.C: 0.0001 mm	Using Slip gauge set by Direct method	Up to 100 mm	1.0 µm
214	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge (Digital / Dial) / Transmitters and Switch, Transducer	Using Digital Pressure Gauge & Hydraulic Pressure Pump, 6.5 digit DMM or Universal Calibrator by Comparison method as per DKD R-6-1	0 to 700 bar	0.65 bar
215	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge (Digital / Dial) / Pressure Transmitter and Switch, Transducer	'Using Digital Pressure Gauge & 6.5 digit DMM or Universal Calibrator Hydraulic Pressure Pump by Comparison Method (DKD R-6-1)	0 bar to 1000 bar	2.32 bar
216	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge (Digital / Dial) / Pressure Transmitters and Switch, Transducer	Using Digital Pressure Gauge & Hydraulic Pressure Pump, 6.5 digit DMM or Universal Calibrator by Comparison method as per DKD R-6-1	0 to 70 bar	0.11 bar

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217	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge (Digital/Dial) Transducer	Using Digital Pressure Gauge & Hydraulic Pressure Pump, 6.5 digit DMM or Universal Calibrator by Comparison method as per DKD R-6-1	0 to 7 bar	0.037 bar
218	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic absolute Pressure Gauge (Digital / Dial)/ Transmitters/ Switch Manometer/ Barometer	Using Digital Pressure Gauge, Pneumatic Pressure & Vacuum Pump by Comparison method (DKD-R6-01)	0.3 abs bar to 2 abs bar	0.0004 abs bar
219	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge (Digital / Dial)/ Transmitters/ Switch	Using Digital Pressure Gauge & Pneumatic Pressure Pump by Comparison method as per DKD R-6-1	0 to 7 bar	0.011 bar
220	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge (Digital / Dial)/ Transmitters/ Magnehelic/ Manometer	Using Digital Pressure Gauge, Pneumatic Pressure & Vacuum Pump by Comparison method (DKD-R-6-01)	0 to 19.51 mbar	0.209 mbar
221	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge(Digital / Dial) / Transmitters	Using Vacuum Pump With Digital Vacuum Gauge ,6.5 digit DMM or Universal Calibrator by Comparison method as per DKD R-6-1	-0.9 bar to 0	0.024 bar

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222	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench Type-I Class (A,B,C) Type-II Class (A,B,C,G)	Using Digital Torque Calibrator system with Torque Transducers based on ISO 6789 : 2017 (part I & II) by Direct method	1 Nm to 2000 Nm	3.39 %
223	MECHANICAL-VOLUME	Measuring & Volumetric Glass / Plastic Wear - Beaker, Cylinder, Flask, COD/BOD Botttel, Sp.Gr./Density Bucket, Bucket or Jar.	Using E2 and F1 Class weight and Digital Balance yp to 30 kg with d=0.1g	0 ml to 10000 ml	0.3 ml
224	MECHANICAL-VOLUME	Measuring & Volumetric Glass / Plastic Wear - Burette, Pipette, Beaker, Density/Sp.gr. Bottle, Cylinder, Flask, Pyknometer, COD/BOD Bottel, Volume of PV Controller or Dispanser	Using E1 and E2 Standard Weights & Digital Balance of Readability 1mg to 22 g d=0.001 mg and up to 105 g, d= 0.01 mg by Gravimetric method as per ISO 4787:2021 or IS 18236:2023	> 1 ml to 20 ml	0.2 µl

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225	MECHANICAL-VOLUME	Measuring & Volumetric Glass / Plastic Wear - Burette, Pipette, Beaker, Density/Sp.gr. Bottle, Cylinder, Flask, Pyknometer, COD/BOD Bottel, Volume of PV Controller or Dispanser	Using E1 and E2 Class Standard Weights & Digital Balance of Readability up to 200 g with d=0.01mg up to 2 kg with d=0.001g by Gravimetric method as per ISO 4787:2021 or IS 18236:2023	> 100 ml to 1000 ml	0.15 ml
226	MECHANICAL-VOLUME	Measuring & Volumetric Glass / Plastic Wear - Burette, Pipette, Beaker, Density/Sp.gr. Bottle, Cylinder, Flask, Pyknometer, COD/BOD Bottel, Volume of PV Controller or Dispanser	Using E2 Class Standard Weights and Digital Balance up to 2 kg with d=0.001g by Gravimetric method as per ISO 4787:2021 or IS 18236:2023	>1000 ml to 2000 ml	0.18 ml
227	MECHANICAL-VOLUME	Measuring & Volumetric Glass / Plastic Wear - Burette, Pipette, Beaker, Density/Sp.gr. Bottle, Cylinder, Flask, Pyknometer, COD/BOD Bottel, Volume of PV Controller or Dispanser	Using E1 or E2 Class Standard Weights & Digital Balance of Readability 1mg to 22 g with d=0.001 mg and up to 105 g, d= 0.01 mg by Gravimetric method as per ISO 4787 : 2021 or IS 18236:2023	>20 ml to 100 ml	0.010 ml

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228	MECHANICAL-VOLUME	Single/Multi Channel Piston Micro Pipettes, Micro Capillary	Using E1 Class standard mass & Electronic balance (d=0.001 mg) by Gravimetric method Based as per ISO 8655 Part 6:2022	>1 µl to 10 µl	0.2 µl
229	MECHANICAL-VOLUME	Single/Multi Channel Piston Micro Pipettes, Micro Capillary	Using E1 Class standard mass & Electronic balance (d=0.001 mg) by Gravimetric method as per ISO 8655 Part 6:2022	>10 µl to 1000 µl	3.7 µl
230	MECHANICAL-WEIGHING SCALE AND BALANCE	Non Automatic Comparator / Weighing Balance with Readability d=0.1 mg Class-I & Coarser	'Using E1 Class Standard mass Based on OIML R-76-1	1 mg to 5050 g	0.6 mg
231	MECHANICAL-WEIGHING SCALE AND BALANCE	Non Automatic Comparator / Weighing Balance with Readability d=10 mg Class-I & Coarser	'Using E1 & E2 Class Standard mass Based on OIML R-76-1	0.01 g to 25 kg	0.03 g
232	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance d=.20 g class 2 & Coarser	Using F1 class Standard Weights based on OIML R-76-1	> 30 kg to 150 kg	0.013 kg
233	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance d=10 mg Class I & Coarser	Using E2 Class Standard Weights based on OIML R-76-1	> 2 kg to 10 kg	0.03 g

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234	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance d=100 mg Class II & Coarser	Using E2 Class Standard Weights based on OIML R-76-1	> 10 kg to 30 kg	100 mg
235	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance with readability d=0.001 mg Class I & Coarser	Using E1 Class standard weights based on OIML R-76-1	1 mg to 22 g	0.008 mg
236	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance with Readability d=0.001g Class II & Coarser	Using E1 & E2 Class Standard mass based on OIML R-76-1	1 mg to 2000 g	0.001 g
237	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance with readability d=0.01 mg Class I & Coarser	Using E1 Class standard weights based on OIML R-76-1	> 22 g to 200 g	0.03 mg
238	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance with Readability d=10 g Class IIII	Using F1 class Standard Weights based on OIML R-76-1	150 kg to 300 kg	0.1 kg
239	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	'Using E1 Class Standard mass & mass Comparator of Readability up to 5.05 kg d=0.0001g Based On ABBA Method As per OIML R-111-1	1 kg	0.1 mg
240	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	'Using E1 Class Standard mass & mass Comparator of Readability up to 5.05 kg d=0.0001g Based On ABBA Method As per OIML R-111-1	2 kg	0.3 mg

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241	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	'Using E1 Class Standard mass & mass Comparator of Readability up to 5.05 kg d=0.0001g Based On ABBA Method As per OIML R-111-1	5 kg	0.8 mg
242	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	'Using E1 Class Standard mass & Digital Balance of Readability 1mg to 200g d=0.01 mg Based on ABBA Method As per OIML R-111-1	50 g	0.03 mg
243	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	'Using E1 Class Standard mass & mass Comparator of Readability up to 5.05 kg d=0.0001g Based On ABBA Method As per OIML R-111-1	500 g	0.13 mg
244	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	'Using E2 Class Standard mass & mass Comparator of Readability up to 25.5 kg d=0.01g Based On ABBA Method As per OIML R-111-1	10 kg	0.15 mg

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245	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	'Using E2 Class Standard mass & mass Comparator of Readability up to 25.5 kg d=0.01g Based On ABBA Method As per OIML R-111-1	20 kg	24 mg
246	MECHANICAL-WEIGHTS	Weights E2-Class and Coarser	Using E1 Class Standard mass & Digital Balance of Readability: 1 mg to 220 g, d=0.01 mg based on ABBA method as per OIML R-111-1:2004	100 g	0.05 mg
247	MECHANICAL-WEIGHTS	Weights E2-Class and Coarser	Using E1 Class Standard mass & Digital Balance of Readability: 1 mg to 220 g, d=0.01 mg based on ABBA method as per OIML R-111-1:2004	200 g	0.07 mg
248	MECHANICAL-WEIGHTS	Weights Of E2 -Class and Coarser	Using E1 Class Standard mass & Digital Balance of Readability: 1 mg to 22 g, d=0.001 mg based on ABBA method as per OIML R-111-1:2004	50 mg	0.002 mg

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249	MECHANICAL-WEIGHTS	Weights of E2 Class and Coarser	Using E1 Class Standard mass & Digital Balance of Readability: 1 mg to 22 g, d=0.001 mg based on ABBA method as per OIML R-111-1:2004	1 g	0.005 mg
250	MECHANICAL-WEIGHTS	Weights Of E2 Class and Coarser	Using E1 Class Standard mass & Digital Balance of Readability: 1 mg to 22 g, d=0.001 mg based on ABBA method as per OIML R-111-1:2004	10 mg	0.002 mg
251	MECHANICAL-WEIGHTS	Weights of E2 class and Coarser	Using E1 Class Standard mass & Digital Balance of Readability: 1mg to 22g, d=0.001 mg based on ABBA Method as per OIML R-111-1:2004	100 mg	0.002 mg
252	MECHANICAL-WEIGHTS	Weights of E2 class and Coarser	Using E1 Class Standard mass & Digital Balance of Readability: 1 mg to 22 g, d=0.001 mg based on ABBA method as per OIML R-111-1:2004	2 g	0.005 mg

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253	MECHANICAL-WEIGHTS	Weights of E2 Class and Coarser	Using E1 Class Standard mass & Digital Balance of Readability: 1 mg to 22 g, d=0.001 mg based on ABBA method as per OIML R-111-1:2004	2 mg	0.002 mg
254	MECHANICAL-WEIGHTS	Weights of E2 class and Coarser	Using E1 Class Standard mass & Digital Balance of Readability: 1 mg to 22 g, d=0.001 mg based on ABBA method as per OIML R-111-1:2004	500 mg	0.007 mg
255	MECHANICAL-WEIGHTS	Weights Of E2-Class and Coarser	Using E1 Class Standard mass & Digital Balance of Readability: 1 mg to 22 g, d=0.001 mg based on ABBA method as per OIML R-111-1:2004	1 mg	0.002 mg
256	MECHANICAL-WEIGHTS	Weights of E2-Class and Coarser	Using E1 Class Standard mass & Digital Balance of Readability: 1 mg to 22 g, d=0.001 mg based on ABBA method as per OIML R-111-1:2004	10 g	0.008 mg

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257	MECHANICAL-WEIGHTS	Weights of E2-Class and Coarser	Using E1 Class Standard mass & Digital Balance of Readability: 1 mg to 22 g, d=0.001 mg based on ABBA method as per OIML R-111-1:2004	20 g	0.02 mg
258	MECHANICAL-WEIGHTS	Weights of E2-Class and Coarser	Using E1 Class Standard mass & Digital Balance of Readability: 1 mg to 22 g, d=0.001 mg based on ABBA method as per OIML R-111-1:2004	20 mg	0.002 mg
259	MECHANICAL-WEIGHTS	Weights of E2-class and Coarser	Using E1 Class Standard mass & Digital Balance of Readability: 1 mg to 22 g, d=0.001 mg based on ABBA method as per OIML R-111-1:2004	200 mg	0.003 mg
260	MECHANICAL-WEIGHTS	Weights of E2-Class and Coarser	Using E1 Class Standard mass & Digital Balance of Readability: 1 mg to 22 g, d=0.001 mg based on ABBA method as per OIML R-111-1:2004	5 g	0.006 mg

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261	MECHANICAL-WEIGHTS	Weights Of E2-Class and Coarser	Using E1 Class Standard mass & Digital Balance of Readability: 1 mg to 22 g, d=0.001 mg based on ABBA method as per OIML R-111-1:2004	5 mg	0.002 mg

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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)(±)
56	MECHANICAL-ACCELERATION AND SPEED	Speed Indicator/ RPM Meter, RPM of Rotating Equipment (Contact Type)	Using Contact Type Tachometer By Direct Method	1000 RPM to 12000 RPM	0.31 %
57	MECHANICAL-ACCELERATION AND SPEED	Speed Indicator/ RPM Meter, RPM of Rotating Equipment (Contact Type)	Using Contact type Tachometer by Direct method	6 rpm to 1000 rpm	10.2 %
58	MECHANICAL-ACCELERATION AND SPEED	Speed Indicator/ RPM Meter/ Centrifuge	Using Digital Tachometer for Measure RPM by Direct method	100 rpm to 10000 rpm	0.81 %
59	MECHANICAL-ACCELERATION AND SPEED	Speed Indicator/ RPM Meter/ Centrifuge	Using Digital Tachometer for Measure RPM by Direct method	10000 rpm to 99500 rpm	0.62 %
60	MECHANICAL-ACCELERATION AND SPEED	Speed Indicator/ RPM Meter/ Centrifuge	Using Digital Tachometer for Measure RPM by Direct method	6 rpm to 100 rpm	10.26 %

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61	MECHANICAL-ACCELERATION AND SPEED	Verification Speed of Jaw, Speed of Force Machine Cross Heads	Using Digital Vernier Caliper and Stop watch or Time Interval meter By Direct Method	0 to 600 mm/min	0.25 mm/min
62	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Gauge	Using Digital Vernier Caliper by Direct method	0 to 600 mm	0.011 mm
63	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer (L.C.: 0.0001 mm & Coarser)	Using Extensometer Calibrator By Direct Method	0 to 25 mm	1.7 µm
64	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	LVDT Scale / Laser Sensor / Proximity Sensor with Indicator / Displacement Sensor L.C.=0.0001 mm & Coarser	Using Slip gauge Set by Direct method	0 to 300 mm	0.002 mm
65	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate Granite / Cast Iron	Using Electronic Level by Direct method	Up to 1000 x 2000 mm	1.5x(SQRT(L+W)/125) µm where L & W in m
66	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector, Optical Microscope, Tool Maker Microscope, Magnification	Using Linier Glass Scale, Digital Vernier Caliper, Slip gauge set by Direct method	Magnification: Up to 1000 X	2.6 %

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67	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector, Optical Microscope, Tool Maker Microscope, Vision Measuring Machine Linear (L.C: 0.0001 mm)	Using Glass Scale, Linear Glass Graticule by Direct method	Linear: 0 to 300 mm	linear: 5.7 µm
68	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector, Optical Microscope, Vision Measuring Machine Angular (L.C: 1 minute and coarser)	Using Angle Gauge, Angular Graticule by Direct method	Angular: 0° to 360°	1.2 min of arc
69	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Scale and Tape Calibration Machine L.C: 0.0001 mm	Using Slip gauge set by Direct method	Up to 1000 mm	5.0 µm
70	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine L.C: 0.0001 mm	Using Slip gauge set by Direct method	Up to 100 mm	1.0 µm
71	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Rockwell Hardness Tester	Using Standard Hardness Block as per IS 1586:2018 or ASTM-E18-15:2015 by Indirect Verification method	HR 15N	1.6 HR 15N
72	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Rockwell Hardness Tester	Using Standard Hardness Block as per IS 1586:2018 or ASTM-E18-15:2015 by Indirect Verification method	HRA	1.4 HRA

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73	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Rockwell Hardness Tester	Using Standard Hardness Block as per IS 1586:2018 or ASTM-E18-15:2015 by Indirect Verification method	HRC	0.75 HRC
74	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Rockwell Hardness Tester	Using Standard Hardness Block as per IS 1586:2018 or ASTM-E18-15:2015 by Indirect Verification method	HRBW	1.4 HRBW
75	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge (Digital / Dial) / Pressure Transmitter and Switch, Transducer	'Using Digital Pressure Gauge & 6.5 digit DMM or Universal Calibrator Hydraulic Pressure Pump by Comparison Method (DKD R-6-1)	0 bar to 1000 bar	2.32 bar
76	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge (Digital / Dial) / Pressure Transmitters and Switch, Transducer	Using Digital Pressure Gauge & Hydraulic Pressure Pump, 6.5 digit DMM or Universal Calibrator by Comparison method as per DKD R-6-1	0 to 70 bar	0.11 bar
77	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge (Digital/Dial) and Switch	Using Digital Pressure Gauge & Hydraulic Pressure Pump by Comparison method (DKD R-01)	0 to 7 bar	0.0058 bar

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78	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge (Digital/Dial) and Switch	Using Digital Pressure Gauge & Hydraulic Pressure Pump by Comparison method (DKD R6-01)	0 to 70 bar	0.10 bar
79	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge (Digital/Dial) and Switch	Using Digital Pressure Gauge & Hydraulic Pump by Comparison method (DKD R6-01)	0 to 700 bar	0.70 bar
80	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification Of Uniaxial Testing Machine (Universal Compression Testing Machine, Horizontal Tensile, Creep Testing, Crush Testing, Brittle Facture Testing Machine) Compression	Using S-type / Uniaxial Load cell with Indicator as per IS 1828-1:2022 by Direct method	100 N to 10 kN	0.9 %
81	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification Of Uniaxial Testing Machine (Universal Compression Testing Machine, Horizontal Tensile, Creep Testing, Crush Testing, Brittle Facture Testing Machine) Compression	Using Uniaxial Load Cell with Indicator as per IS 1828-1:2022 by Direct method	1000 kN to 2000 kN	0.9 %

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82	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification Of Uniaxial Testing Machine (Universal Compression Testing Machine, Horizontal Tensile, Creep Testing, Crush Testing, Brittle Facture Testing Machine) Compression	Using S-Type / Using Load Cell with Indicator as per IS 1828-1:2022 by Direct method	5 kN to 1000 kN	0.90 %
83	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification Of Uniaxial Testing Machine (Universal Tensile Testing Machine, Horizontal Tensile Machine) Tension	Using S-type / Uniaxial Load cell with Indicator as per IS 1828-1:2022 by Direct method	100 N to 50 kN	0.4 %
84	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification Of Uniaxial Testing Machine (Universal Tensile Testing Machine, Horizontal Tensile) Tension	Using S-type / Uniaxial Load cell with Indicator as per IS 1828-1:2022 by Direct method	50 kN to 100 kN	0.4 %
85	MECHANICAL-WEIGHING SCALE AND BALANCE	Non Automatic Comparator / Weighing Balance with Readability d=0.1 mg Class-I & Coarser	'Using E1 Class Standard mass Based on OIML R-76-1	1 mg to 5050 g	0.6 mg
86	MECHANICAL-WEIGHING SCALE AND BALANCE	Non Automatic Comparator / Weighing Balance with Readability d=10 mg Class-I & Coarser	'Using E1 & E2 Class Standard mass Based on OIML R-76-1	0.01 g to 25 kg	0.03 g

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87	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance d=.20 g class 2 & Coarser	Using F1 class Standard Weights based on OIML R-76-1	> 30 kg to 150 kg	0.013 kg
88	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance d=10 mg Class I & Coarser	Using E2 Class Standard Weights based on OIML R-76-1	> 2 kg to 10 kg	0.03 g
89	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance d=100 mg Class II & Coarser	Using E2 Class Standard Weights based on OIML R-76-1	> 10 kg to 30 kg	100 mg
90	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance with readability d=0.001 mg Class I & Coarser	Using E1 Class standard weights based on OIML R-76-1	1 mg to 22 g	0.008 mg
91	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance with Readability d=0.001g Class II & Coarser	Using E1 & E2 Class Standard mass based on OIML R-76-1	1 mg to 2000 g	0.001 g
92	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance with readability d=0.01 mg Class I & Coarser	Using E1 Class standard weights based on OIML R-76-1	> 22 g to 200 g	0.03 mg
93	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance with Readability d=10 g Class IIII	Using F1 class Standard Weights based on OIML R-76-1	150 kg to 300 kg	0.1 kg