Laboratory	**APT Kalibration, No. B-409, 4th Floor, B- Block, Pushp Ahuja Estate, Abids Road, Hyderabad, Telangana**			
Accreditation Standard	**ISO/IEC 17025: 2005**			
Certificate Number	**CC-2426**		**Page**	**1 of 4**
Validity	**30.10.2017 to 29.10.2019**		**Last Amended on**	**01.01.2019**

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
	MECHANICAL CALIBRATION			
I.	**UTM, TENSION CREEP AND TORSION TESTING MACHINE**			
1.	Verification of Static Uniaxial Testing Machines$ (Universal, Compression, Load, Spring Testing Machine, Force Measuring system)	1 kN to 2000 kN (Compression Mode Only)	0.62 %	Using Load Cell & Force Proving Rings As per IS1828 (Part -1)
II.	**HARDNESS TESTING MACHINE**			
1.	Verification of Rockwell Hardness Testing Machines$ (Indirect Verification)	HRA HRBW HRC	0.80 HRA 1.20 HRBW 0.85 HRC	Using Standard Hardness Test Blocks As per IS1586 (Part–II)
2.	Verification of Brinell Hardness Testing Machines$ (Indirect Verification)	HBW 2.5/187.5 HBW 5/750 HBW 10/3000	3.30 % 2.27 % 2.14 %	Using Standard Hardness Test Blocks As per IS1500 (Part – II)
3.	Verification of Vickers Hardness Testing Machines$ (Indirect Verification)	HV 1 HV 5 HV 10 HV 30	2.60 % 2.90 % 2.10 % 1.88 %	Using Standard Hardness Test Blocks As per IS1501 (Part – II)

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
III.	**DIMENSION (BASIC MEASURING INSTRUMENTS, GAUGE ETC.)**			
1.	Templates, Inspection JIG and Fixture/Cube Moulds$ (Height, Thickness)	Upto 300 mm	17.6 µm	Using Profile Projector, Digital Vernier Caliper, Micrometer By Comparison Method.
2.	Test Sieve$	45 µm to 4 mm 4 mm to 125 mm	10 µm 58 µm	Using Profile Projector, Digital Vernier Caliper By Comparison Method as per IS 460 (Part I, II, III)
3.	Thread Pitch Gauges$ (Pitch, Flank Angle)	Upto 10 mm Flank Angle@60 deg	7.7 µm 5 min of arc	Using Profile Projector By Comparison Method as per IS 460 (Part I, II, III)
4.	Radius gauges$ (concave and convex profiles)	0.6 mm to 25 mm	7.7 µm	Using Profile Projector By Comparison Method as per IS 5273
5.	Bevel Protractors, Combination Sets$ (Error of indication)	Upto 360 º	8.3 min of arc	Using Profile Projector By Comparison Method as per IS 4239
6.	Vernier Caliper$ L.C. 0.01 mm	Upto 600 mm	14 µm	Using Caliper Checker By Comparison Method as per IS 3651- I, II, III
7.	Height Gauge$ L.C. 0.01 mm	Upto 500 mm	10 µm	Using Caliper Checker By Comparison Method as per IS 2921

Dheeraj Chawla
Convenor

Battal Singh
Program Manager

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
8.	Angle Graticule[$]	Upto 360°	8.3 min of arc	Using Profile Projector By Comparison Method as per JIS B 7541
II.	**WEIGHING SCALE AND BALANCE**			
1.	Electronic Weighing Balance[♣] d ≥0.01 g d ≥1.00 g d ≥10.0 g	 1g to 4500g 20g to 30kg 200g to 100kg	 0.07g 3.0 g 20.0 g	Using F1 Class standard weights 1g to 20 kg As per OIMILR-76 Calibration of weighing balance of Class-II & coarser.

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
		THERMAL CALIBRATION		
I.	**TEMPERATURE**			
1.	Temperature Indicator of Environmental Chamber, Furnace, Oven $ (Single Point)	(-)35 °C to 250 °C	0.87 °C	Using 4 Wire RTD Sensor with Temperature Indicator By Comparison Method

*** Measurement Capability is expressed as an uncertainty (±) at a confidence probability of 95%**
$Only in Permanent Laboratory
***Only for Site Calibration**

Dheeraj Chawla
Convenor

Battal Singh
Program Manager