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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
	·	MECHANICA		
Ι.	DIMENSION (BASIC M	EASURING INSTRUME	ENT, GAUGE ETC.)	
1.	Caliper ^{\$} (Vernier / Dial / Digimatic) L.C.: 0.01 mm	0 to 300 mm	11.80 µm	Using Caliper Checker as
	L.C.: 0.01 mm	0 to 600 mm	15.70 μm	per IS 3651 by Comparison Method
2.	External Micrometer ^{\$} L.C.: 0.001 mm	0 to 25 mm >25 mm to 100 mm	1.30 μm 1.18 μm	Using Slip Gauges Set as per IS 2967 by Comparison Method
3.	Height Gauge ^{\$} (Vernier / Dial / Digimatic) L.C.: 0.01 mm	0 to 600 mm	12.0 µm	Using Caliper Checker as per IS 2921 by Comparison Method
4.	Feeler Gauge ^{\$}	Up to 1 mm	5.0 μm	Using Digital External Micrometer as per IS 3179 by Comparison Method
5.	Flakiness Gauge ^{\$}	Up to 100 mm	15 μm	Using Caliper Checker as per IS 2386 by Comparison Method

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
6.	Elongation Gauge ^{\$}	Up to 81 mm	14.70 μm	Using Caliper Checker as per IS 2386 by Comparison Method
7.	Test Sieve Aperture Size ^{\$}	4.50mm to 40mm	35 μm	Using Caliper Checker as per IS 460 by Comparison Method
8.	Cube Mould ^{\$}	Up to 150mm	50 µm	Using Caliper Checker as per IS 10086 by Comparison Method
9.	Snap Gauge/Gap Gauge ^{\$}	1mm to 100mm	5.2 µm	Using Slip Gauge Set as per IS 3477 by Comparison Method
11.	PRESSURE INDICATIN	NG DEVICES		
1.	Hydraulic Pressure Digital / Analogue Pressure Gauges #	0 to 70 bar 70 bar to 700 bar	0.15 bar 1.10 bar	Using Digital Pressure Gauge and Hydraulic Comparator(Water Based) based on DKD R6-1.
2.	Digital/ Analogue Vacuum Gauges #	0 to (-) 0.9 bar	0.06 bar	Using Digital Vacuum Gauge and Mechanical Vacuum Pump based on DKD R6-1

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
III.	UTM, TENSION CREEP	AND TORSION TEST	NG MACHINE	
1.	Tensile / Universal Testing Machine, Load Testing Machine, Spring Testing Machine, Tensometer, Flexural Testing Machine ⁺ -Tension	10N to 100kN	0.72%	Using Force Proving Instrument based on IS 1828 Part I
2.	Compression / Universal Testing Machine, Load Testing Machine, Spring Testing Machine, Tensometer, Flexural Testing Machine [*] -Compression	20N to 2000kN	0.92%	Using Force Proving Instrument based on IS 1828 Part I
3.	Calibration /Verification of Crosshead / Actuator Displacement Measuring System Used in Material Testing Machine*	0 to 600mm	0.13mm	Using Digital Height Gauge per ASTM E 2309 by Comparison Method

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
IV.	HARDNESS TESTING	MACHINES		
1.	Rockwell Hardness Testing Machine *	HRA HRBW HRC	0.91HRA 0.86HRBW 0.90HRC	Using Standard Reference Test Blocks as per IS 1586- 2 (Indirect Method)
2.	Micro Vickers & Vickers Hardness Testing Machines*	HV1 HV5 HV10	2.86% 5%	Using Standard Reference Test Blocks as per IS-1501 (Part-2) (Indirect Method)
3.	Brinell Hardness Testing Machines*	HBW 5/750 HBW 10/1000	1.8% 1.4%	Using Standard Reference Test Blocks as per IS- 1500 (Part-2) (Indirect Method)

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
		THERMAI	_ CALIBRATION	
Ι.	TEMPERATURE			
1.	RTD/Thermocouple with or without Indicator ,Temperature Indicator With Sensor Probe ^{\$}	(-)40 °C to 25°C	1.25 °C	Using 4 Wire PT-100 RTD and Read Unit 6. DMM & Dry Alcohol bath
	RTD/Thermocouple with or without Indicator, Temperature Indicator With Sensor Probe [#]	50 °C to 300 °C	1.52 °C	Using 4 Wire PT-100 RTD and Read Unit 6. DMM & Dry Bath
2.	Thermocouple with or without Indicator Temperature Indicator With Sensor Probe #	300 °C to 600 °C	3.09 °C	Using R Type Thermocouple and Read Unit 6. DMM and Dry Block
3.	Temperature Indicator of Deep freezer ,Oven / Furnace*	(-)40 °C to 200°C > 200 °C to 300 °C	0.60 °C 1.31 °C	Using 4 wire PT-100 RTD and Read Unit 6. DMM a Single Specified Position calibration
		300 °C to 1200 °C	3.09 °C	Using R Type Thermocouple and Read Unit 6. DMM

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
4.		I5 %RH to 95 %RH @ 25℃	1.78 %RH	Using Digital Thermohygrometer with Probe at Single Point Specified Position Calibration

Measurement Capability is expressed as an uncertainty (\pm) at a confidence probability of 95% *Only for Site Calibration

* The laboratory is also capable for site calibration however, the uncertainty at site depends on the prevailing actual environmental conditions and master equipment used.