Laboratory	Standard Calibration Laboratory, 207-A, Mahadeo Totla Nagar, Scheme No. 94, Sector-C, Indore, Madhya Pradesh		
Accreditation Standard	ISO/IEC 17025: 2005		
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Validity	22.02.2018 to 21.02.2020	Last Ame	nded on -

SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks			
	ELECTRO-TECHNICAL CALIBRATION						
[ ].	SOURCE						
1. Temperature Simulation <sup>#</sup> (Indicator, Controller, Recorder)							
	J-Type Thermocouple	50 °C to 750 °C	1 °C	Using Digital Temperature Calibrator			
	K-Type Thermocouple	200 °C to 1200 °C	1.45 °C	By Simulation Method			
	R-Type Thermocouple	400 °C to 1600 °C	2 °C				
	RTD (pt-100)	(-) 50 °C to 400 °C	1.1 °C				
II.	MEASURE						
1.	Time Interval <sup>#</sup> Timer/Stop Watch	10 sec to 12 hrs	0.36 sec to 0.7 sec	Using Digital Stop Watch By Comparison Method			

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks		
	MECHANICAL CALIBRATION					
I.	MASS		////			
1.	Weights <sup>≸</sup> Calibration of Weights of M1 Class and Coarser	1 mg 2 mg 5 mg 10 mg 20 mg 50 mg	0.10 mg 0.10 mg 0.10 mg 0.10 mg 0.10 mg 0.10 mg 0.10 mg	Using E2 Class Standard Weights and Mass Comparator (Readability 0.1mg) as per OIML R-111		
	Calibration of Weights of F2 Class and Coarser	100 mg 200 mg 500 mg 1 g 2g	0.10 mg 0.10 mg 0.10 mg 0.10 mg 0.10 mg 0.10 mg			
	Calibration of Weights of F1 Class and Coarser	5 g 10 g 20 g 50 g 100 g 200 g	0.10 mg 0.10 mg 0.11 mg 0.11 mg 0.14 mg 0.3 mg			
	Calibration of Weights of M1 Class and Coarser	500 g 1 kg 2 kg 5 kg	10 mg 10 mg 20 mg 20 mg	Using F1 Class Standard Weights and Mass Comparator (Readability 0.01g) as per OIML R-111		
	Calibration of Weights of M3 Class and Coarser	10 kg	1.3 g	Using F1 Class Standard Weights and Mass Comparator (Readability 0.5g) as per OIML R-111		

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
II.	WEIGHING SCALE AN	ND BALANCE		
1.	Weighing Balance <sup>#</sup> Readability 0.1mg	Up to 200 g	0.27 mg	Using E2 Class weights for 1 mg to 200 g as per OIML R-76-1
	Weighing balance Readability 10 mg	Up to 10 kg	11 mg	Using F1 class weights for 500g to 10kg as per OIML R-76-1
	Weighing balance Readability 0.5 mg	Up to 10 kg	0.85 g	Using F1 class weights for 500g to 10kg as per OIML R-76-1
III.	VOLUME			
1.	Volumetric Glassware <sup>\$</sup>			
	Pipette, Burette, Measuring Cylinder, Flask, Beaker	1 ml to 25 ml 25 ml to 100 ml	0.007 ml 0.03 ml	Using E2 class weights with digital precision balance and Distilled water of known density as per ISO 4787:2010
	Pipette, Burette, Measuring Cylinder, Flask, Beaker	>100 ml to 1000 ml	0.5 ml	Using F1 class weights with digital precision balance and Distilled water of known density as per ISO 4787:2010
IV.	DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)			
1.	External Micrometer <sup>*</sup> L.C.: 0.01 mm L.C.: 0.001 mm	0 to 125 mm 0 to 25 mm	7.3 μm 1.6 μm	Using Set Of Slip Gauge As per IS 2967

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
2.	Calipers <sup>\$</sup> L.C.: 0.01 mm	0 to 300 mm	15.2 µm	Using Caliper Checker As per IS 3651
3.	Dial Gauge <sup>\$</sup> L.C.: 0.001 mm	0.01 mm to 50 mm	3.5 μm	Using set of slip gauge As per IS 2092
V.	ACCELERATION & SP	PEED		
1.	Tachometer <sup>#</sup>	500 RPM to 20000 RPM	1.2% of reading	Using Standard Tachometer by Comparison Method
VI.	PRESSURE INDICATING DEVICES			
1.	Pneumatic Pressure: Analog/Digital Pressure Gauge <sup>#</sup>	0 to 20 bar	0.17 bar	Using Digital Pressure Gauge as per DKD-R-6-1 By Comparison Method
2.	Hydraulic Pressure : Analog/Digital Pressure Gauge <sup>#</sup>	>6 bar to 70 bar >70 bar to 750 bar	0.21 bar 3.75 bar	Using Dead Weight Tester as per DKD-R-6-1 By Comparison Method

\* Measurement Capability is expressed as an uncertainty (±) at a confidence probability of 95% <sup>\$</sup>Only in Permanent Laboratory <sup>#</sup>The laboratory is also capable for site calibration however, the uncertainty at site depends on the

prevailing actual environmental conditions and master equipment used.