

Laboratory M. M. Engineers, A1/1, Jai Bhawani Marg, Mulund Colony, Mulund West, Mumbai, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2175 **Page** 1 of 2

Validity 22.06.2018 to 21.06.2020 **Last Amended on** 14.03.2019

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
MECHANICAL CALIBRATION				
I. DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)				
1.	Verification of Extensometers used in Uniaxial Testing Machines*	0 to 2 mm	10 μ m	Using Calibration Appartus with Digital Dial Gauge
II. UTM, TENSION CREEP AND TORSION TESTING MACHINE				
1.	Verification of Uniaxial Testing Machine in Compression Mode*	0.3 kN to 1000 kN	0.54 %	Using Class 1 Dynamometers & Load Cell as per IS 1828 : 2015 (Part-1)
III. HARDNESS TESTING MACHINES				
1.	Verification of Rockwell Hardness Testing Machine*	HRA HRBW HRC HR15N HR30 N HR15T HR30T	0.77 HRA 1.18 HRBW 0.83 HRC 0.87 HR15N 0.91 HR30N 1.04 HR15T 1.1 HR30T	Using Standard Hardness Test Blocks by Indirect Method as per IS 1586: 2012 (Part – II)
2.	Verification of Brinell Hardness Testing Machine*	HBW 2.5/187.5 HBW 5/750 HBW 10/3000	3.26 % 2.14 % 1.62 %	Using Standard Hardness Test Blocks by Indirect Method as per IS 1500: 2013 (Part – II)

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3.	Verification of Vickers Hardness Testing Machine*	HV1 HV5 HV10 HV30 HV0.5/ 7225 HV	2.50 % 2.81 % 2.05 % 1.55 % 4 %	Using Standard Hardness Test Blocks by Indirect Method as per IS 1501 : 2013 (Part-II)
IV.	IMPACT TESTING MACHINE			
1.	Verification of Impact Testing Machines* (Charpy & Izod)	0 to 300 J	0.40 %	Using Load Cell, Clinometers and Height Master by Direct Verification for Metallic Materials as per ISO148-2, IS 3766 & ASTM E23

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

*Only for Site Calibration

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