

Laboratory Fine Testing Machines Pvt. Ltd., B-7/12, MIDC Area, Miraj,  
Dist. Sangli, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2846 (in lieu of C-0851)

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Validity 06.09.2018 to 05.09.2020

Last Amended on 26.09.2018

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
<b><u>MECHANICAL CALIBRATION</u></b>				
<b>I. UTM, TENSION CREEP AND TORSION TESTING MACHINE</b>				
1.	Uniaxial Testing Machines* (Compression Only)	4 kN to 1000 kN	0.73 %	Using Proving Ring, Load cell as per IS 1828 (Part1)
2.	Verification of Rockwell Hardness Tester*	9.8 N 147.1 N to 1471 N	1.96 % 0.83 %	Using Load Cell as per IS 1586 (Part 2) and ISO 6508-2
3.	Verification of Vickers Hardness Tester*	9.8 N to 490.35 N	0.94 %	Using Load Cell as per IS1501(Part 2) & ISO 6507-2
<b>II. IMPACT TESTING MACHINE</b>				
1.	Charpy Impact Testing Machine*	0 to 300 J	0.50 %	Using Load Cell, Clinometer and other Instruments & Gauges by Direct Method as per BSEN ISO 148-2 :2016 & ASTM E23 : 2016
2.	Izod Impact Testing Machine*	0 to 170 J	0.77 %	Using Load Cell, Clinometer and other Instruments & Gauges by Direct Method as per BS 131-V:1972
<b>III. DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)</b>				
1.	Extensometer for Universal Testing Machines* L.C.: 0.05 $\mu$ m	Gauge Length: Upto 50 mm & Travel: 0.1 mm to 5 mm	0.020mm	Using Calibration Fixture with Electronic Probe and DRO as per IS 12872:2011/ ASTM E83-16

Sangeeta Kunwar  
Convenor

Avijit Das  
Program Manager

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<b>IV.</b>	<b>HARDNESS TESTING MACHINES</b>			
<b>1.</b>	Brinell Hardness Testing Machine*	HBW 2.5/62.5 HBW 2.5/187.5 HBW 5/ 250 HBW 5/750 HBW 10/ 500 HBW 10/ 1000 HBW 10/ 3000	2.41 % 2.26 % 2.20 % 1.65 % 1.49 % 1.41 % 1.27 %	Using Hardness Reference Blocks by Indirect Method as per IS 1500(Part 2)/ ISO 6506-2
<b>2.</b>	Vickers Hardness Testing Machine*	HV 1 HV 5 HV 10 HV 20 HV 30 HV 50	4.7 % 2.04 % 1.86 % 1.85 % 1.90 % 1.60 %	Using Hardness Reference Blocks by Indirect Method as per IS 501(Part 2) / ISO 6507-2
<b>3.</b>	Rockwell Hardness Testing Machine*	HR 15 N HR 30 N HR 45 N HR 15 TW HR 30 TW HR 45 TW HRA HRBW HRC	0.70 HR 15 N 0.75 HR 30 N 0.70 HR 45 N 0.82 HR 15 TW 0.80 HR 30 TW 1.1 HR 45 TW 0.68 HRA 0.76 HRBW 0.49 HRC	Using Hardness Standard Blocks as per IS 1586 (Part 2) / ISO 6508-2 & ASTM E18-17e1

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

\*Only for Site Calibration

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