

Laboratory Krutam Technosolutions Pvt. Ltd., 64 B, GIDC, Makarpura, Vadodara, Gujarat
Accreditation Standard ISO/IEC 17025: 2005
Certificate Number CC-2671 **Page** 1 of 2
Validity 18.05.2018 to 17.05.2020 **Last Amended on** -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>MECHANICAL CALIBRATION</u>				
I. UTM, TENSION CREEP AND TORSION TESTING MACHINE				
1.	Uniaxial Testing Machine (Compression) *	1 kN to 1000 kN	0.53 %	Using Force Proving Instrument of Class 1 or better as per IS 1828 (Part 1) : 2015
2.	Uniaxial Testing Machine (Tension) *	20 kN to 1000 kN	0.53 %	Using Force Proving Instrument of Class 1 or better as per ASTM E4-16
		0.5 kN to 50 kN	0.80 %	Using Force Proving Instrument of Class 1 or better as per IS 1828 (Part 1) : 2015
II. HARDNESS TESTING MACHINES				
1.	Rockwell Hardness Testing Machine *	Total Force at 588.4 N to 1471 N (60 kgf to 150 kgf)	0.61 %	Using Force Proving Instruments of Class 1/ Class A or better (Load Cells with Indicator) as per Based on IS 1586-2:2012
2.	Brinell Hardness Testing Machine *	612.9 N to 30 kN (62.5 kgf to 3000 kgf)	0.50 %	Using Force Proving Instruments of Class 1/ Class A or better (Load Cells with Indicator) as per Based on IS 1500-2:2013

Ashish Kakran
Convenor

Avijit Das
Program Director

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3.	Rockwell Hardness Testing Machine (Indirect Verification) *	HRA HRBW HRC	1.56 HRA 2.49 HRBW 2.05 HRC	Using Standard Hardness Block as per IS 1586-2:2012
4.	Superficial Rockwell Hardness Testing Machine (Indirect Verification) *	HR15N HR30N HR45N HR15TW HR30TW HR45TW	1.52 HR15N 1.43 HR30N 1.47 HR45N 1.85 HR15TW 1.72 HR30TW 2.41 HR45TW	Using Standard Hardness Block as per IS 1586-2:2012
5.	Brinell Hardness Testing Machine*	HBW 2.5 / 62.5 HBW 2.5 / 187.5 HRW 5/750 HBW 10/3000	9.04 % 6.27 % 2.86 % 2.08 %	Using Standard Hardness Block as per IS 1500-2:2013
6.	Vickers Hardness Testing Machine (Indirect Verification) *	HV 5 HV 10 HV 30	2.40 % 2.40 % 2.40 %	Using Standard Hardness Block as per IS 1501-2:2013

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

*Only for Site Calibration

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