

Laboratory Hitech India Equipments Pvt. Ltd., New No. 26, Old No. 91, Karpagam Avenue , 3rd Street, R.A. Puram, Chennai, Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2582 (In lieu of C-0264)

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Validity 14.02.2018 to 13.02.2020

Last Amended on 20.02.2018

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>MECHANICAL CALIBRATION</u>				
I. UTM, TENSION CREEP AND TORSION TESTING MACHINE				
1.	Force *	1 N to 50 kN(Tension)	0.57%	Using Poving Ring & Load Cell as per IS 1828
	Verification of UTM/CTM/TTM	1 kN to 1000 kN(Compression)	0.30%	
II. IMPACT TESTING MACHINE				
2.	Impact *			
	Charpy	0 to 300 J	1.0%	Using Clinometer, Spirit Level, Load Cell by direct method as per ISO 148
	Izod	0 to 170 J	1.3%	Using Clinometer, Spirit Level, Load Cell by direct method as per IS 3766
III. HARDNESS TESTING MACHINES				
1.	Verification of Rockwell Hardness Tester *	HRA HRB HRC	1.62 HRA 1.51 HRB 1.16 HRC	Using Standard Test Blocks by Indirect Method as per IS 1586
2.	Verification of Rockwell Superficial Hardness Tester *	HR 15N HR 30N HR 45N HR 15T HR 30T HR 45T	1 HR 15N 1.76 HR 30N 1.48 HR 45N 1.79 HR 15T 1 HR 30T 1 HR 45T	Using Standard Test Blocks by Indirect Method as per IS 1586

Dheeraj Chawla
Convenor

Avijit Das
Program Director

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3.	Verification of Vickers Hardness Tester *	HV 1 HV 5 HV 10 HV 30	2% 2.22% 2.00% 2.00%	Using Standard Test Blocks by Indirect Method as per IS 1501
4.	Verification of Brinell Hardness Tester *	HBW 2.5/187.5 HBW 5/250 HBW 5/750 HBW 10/3000	2% 1.8% 2.41% 2.00%	Using Standard Test Blocks by Indirect Method as per IS 1500

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

*Only for Site Calibration

Dheeraj Chawla
Convenor

Avijit Das
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