

**Laboratory** Test Line Services, 283, Second Floor, Vardhman Grand Plaza,  
Plot No. 7, Distt. Centre, Mangalam Place, Sector-3, Rohini, Delhi

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** CC-2694 (in lieu of C-0281) **Page** 1 of 2

**Validity** 22.05.2018 to 21.05.2020 **Last Amended on** -

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.	TTM, CTM / Universal Testing Machines*	25 N to 50 kN 0.2 kN to 1000 kN 1000 kN to 2000 kN (Class 1 only)	0.51 % 0.51 % 0.60 %	Using Proving Rings & Load Cell As per IS:1828(1)2015 and Identical Standards
<b>II. IMPACT TESTING MACHINE</b>				
1.	Impact Testing Machines* (Direct Verification)	Izod Scale 0 to 168 J Charpy Scale 0 to 300 J	0.50 % 0.50 %	Using Clinometer, Tape, Load Cell & Standard Gauges As per ISO 148:2-2016 ASTM E23 & Identical Standards
<b>III. HARDNESS TESTING MACHINES</b>				
1.	Hardness Rockwell* Scale C Scale B Scale A	HRC HRBW HRA	1.43 HRC 1.42 HRBW 1.53 HRA	Using Standardized Test Blocks As per IS:1586(Part-2)2012 (Indirect Method)
2.	Hardness Vickers* Range HV-5 Range HV-10 Range HV-30	HV5 HV10 HV30	3.80 % 2.00 % 2.73 %	Using Standardized Test Blocks As per IS:1501(2)2013 ISO 6507-2:2012 (Indirect Method)

**Dheeraj Chawla**  
Convenor

**Avijit Das**  
Program Manager

**Laboratory** Test Line Services, 283, Second Floor, Vardhman Grand Plaza,  
 Plot No. 7, Distt. Centre, Mangalam Place, Sector-3, Rohini, Delhi  
**Accreditation Standard** ISO/IEC 17025: 2005  
**Certificate Number** CC-2694 (in lieu of C-0281) **Page** 2 of 2  
**Validity** 22.05.2018 to 21.05.2020 **Last Amended on** -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
3.	Hardness Brinell* Range 2.5/187.5 HBW	2.5/187.5 HBW	2.84 %	Using Standardized Test Blocks As per IS:1500(2) 2013 ISO 6506-2:2005 (Indirect Method)
	Range 5/750 HBW	5/750 HBW	2.24 %	
	Range 10/3000 HBW	10/3000 HBW	2.03 %	

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

\*Only for Site Calibration

---

Dheeraj Chawla  
Convenor

---

Avijit Das  
Program Manager