Laboratory	Technical Center, Sterling Tools Limited, 49 km, Mathura Road, Vill. Prithla, Distt. Palwal, Haryana		
Accreditation Standard	ISO/IEC 17025: 2005		
Certificate Number	TC-7604	Page 1 of 1	
Validity	25.07.2018 to 24.07.2020	Last Amended on	

SI.	Product / Material	Specific Test	Test Method Specification	Range of Testing /
	of Test	Performed	against which tests are	Limits of Detection
			performed	

MECHANICAL TESTING

I.	MECHANICAL PRO	PERTIES OF METALS		
1.	Bolt, Screw, Stud and Nuts of the Ferrous Alloys	Rockwell Hardness B–Scale C–Scale	IS 1586 (Part 1)	20 HRC to 65 HRC 65 HRBW to100 HRBW
		Microvicker Hardness	IS 1501 (Part 1)	300 HV _{0.3} to 700 HV _{0.3} 300 HV ₁ to 700 HV ₁
		Tensile Strength	IS 1367 (Part 3)	12 kN to 600 kN
		Proof Load - (Bolt)	IS 1367 (Part 3)	Upto 0.1 mm
		% Elongation	IS 1367 (Part 3)	2 % to 25 %
		% Reduction Area	IS 1367 (Part 3)	2 % to 75 %
		Fatigue	DIN 969	25 kN to 225 kN / 0.47 N
		Torque Tension	ISO 16047	10 Nm to 1000 Nm 0 to 300 kN
II.	METALLOGRAPHY	TEST		
1.	Bolt, Screw, Stud and Nuts of the	Microstructure	ASM Handbook (Volume 9)	Qualitative (100X to 1000X)
	Ferrous Alloys	Decarburisation Depth	IS 6396 (by Microscopic Method)	0.01 mm to 1 mm (at 100X Magnification)
		Laps on Thread	IS 1367 (Part 9) (by Microscopic Method)	Qualitative (100X Magnification) (M5 to M24 Bolts)