

Laboratory Material Testing Department, Vehicle Factory, Jabalpur, Madhya Pradesh
Accreditation Standard ISO/IEC 17025: 2005
Discipline Mechanical Testing **Issue Date** 26.11.2014
Certificate Number T-0469 **Valid Until** 25.11.2016
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I. MECHANICAL PROPERTIES OF MATERIALS				
1.	Parts/ Components of Automotive Vehicle (Ferrous & Non-Ferrous)	TENSILE TEST Tensile Strength Yield stress Elongation %	IS 1608: 2005	Upto 400 kN
		Rockwell Hardness Test	IS 1586: 2012	30 HRC to 70 HRC
		Brinell Hardness Test	IS 1500: 2013	Upto 400 HBW, 2.5/187.5 kg Upto 400 HBW, 10/3000 kg
		Vickers Hardness Test	IS 1501: 2013	Upto 600 HV/5 400 HV to 600 HV/30 Upto 600 HV/0.5, 1
		SPRING TEST Compression	IS 7906 (Part 8): 2009	Upto 250 kg
		Tension	IS 7907 (Part 6): 2008	Upto 250 kg
II. METALLOGRAPHY TEST				
1.	Ferrous Metals	Microstructure Analysis	ASM Hand Book Vol. 9	Qualitative (50X to 2000X)
		Estimation of Grain size by Comparison Method	IS 4748: 2009	1 to 10
		Inclusion in Steel	IS 4163: 2004	ABCD (Thin & Thick Series) (1 to 4 Level)
		Determination of Case Depth by Microscopic Method	IS 6416:2007	0.1 mm to 2.0 mm

