



NABL

SCOPE OF ACCREDITATION

Laboratory	Ramkrishna Forgings Limited, Plot M6, Phase - VI, Gamahria, Jamshedpur (East Singhbhum), Jharkhand		
	Location 1: Plot M6, Phase - VI, Gamahria, Jamshedpur (East Singhbhum), Jharkhand		
	Location 2: Plant V, Baliguma, Jamshedpur, Jharkhand		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	21.12.2015
Certificate Number	T-2102	Valid Until	20.12.2017
Last Amended on	12.08.2016	Page	1 of 3

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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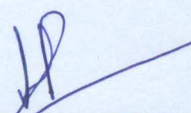
LOCATION 1

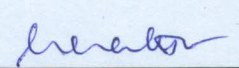
I. MECHANICAL PROPERTIES OF METALS

1.	Metal and Alloys	Hardness (Steel)		
		Brinell Hardness	IS 1500: 2013	101 HBW to 600 HBW
		Rockwell Hardness	IS 1586: 2012	20 HRC to 70 HRC/ 20 HRB to 100 HRB
		Tensile (Steel)		
		UTS	IS 1608: 2005	Upto 600 kN
		Yield Strength		Upto 540 kN
		% Elongation		Upto 80 %
		% Reduction in Area		Upto 95 %

II. METALLOGRAPHY TEST

1.	Metallography (Steel)	Microstructural Examination	ASTM E3: 2011 ASM HANDBOOK, Vol. 9	Upto 1000 x Magnification
		Grain Size	IS 4748: 2009 ASTM E112: 2013 (Intercept & Area Planimetric Method)	ASTM No. 1 to 8
		Inclusion Rating	IS 4163: 2004 ASTM E45: 2013	A, B, C, D in Thin & Thick Series (Upto 5) Magnification 100 x
		Macro Structure Examination	IS 7739 (Part 5): 1976 ASTM E381: 2001 (RA 2006)	10 x Magnification
2.	Steel	Jominy Hardenability Test	IS 3848: 1981	Dia. 25mm


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