



# NABL

## SCOPE OF ACCREDITATION

Laboratory	Precision Metals, Atkargaon, Khopoli, Tal. Khalapur, Raigad, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	14.10.2015
Certificate Number	T-2688	Valid Until	13.10.2017
Last Amended on	26.10.2015	Page	1 of 2

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
<b>I. MECHANICAL PROPERTIES OF MATERIALS</b>				
1.	Ferrous Metal & Alloys	Tensile Strength	ASTM A 370: 2014 IS 1608: 2005	13 kg/mm <sup>2</sup> to 307 kg/mm <sup>2</sup>
		Ultimate Tensile Strength	ISO 6892: 2009	44 kg/mm <sup>2</sup> to 155 kg/mm <sup>2</sup>
		YS (0.2 %)		15 kg/mm <sup>2</sup> to 125 kg/mm <sup>2</sup>
		YS (1.0 %)		15 kg/mm <sup>2</sup> to 125 kg/mm <sup>2</sup>
		% Elongation		8 % to 80 %
		% Reduction of Area		10 % to 70 %
		Charpy 'V' Notch	ISO 148 (Part 1): 2009	2 J to 300 J At RT, (-) 60 °C
		Izod 'V' Notch	BS 131 (Part 1): 1961	2 J to 168 J
		Hardness HBW	ASTM E 10: 2014	110 HBW to 500 HBW (2.5/187.5 HBW)
				110 HBW to 500 HBW (10/3000 HBW)
	Hardness HRC	ASTM E 18: 2014	20 HRC to 70 HRC	
	Hardness HRB	ASTM E 18: 2014	20 HRBW to 100 HRBW	

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Sachin Tomar  
Convenor

*N. Venkateswaran*

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<b>II. METALLOGRAPHY TEST</b>				
1.	Ferrous Metal & Alloys	IGC Test	ASTM A262: 2014 Practice A	Qualitative 250 X to 500 X (Visual Inspection)
			Practice E	Qualitative (Visual Inspection)
		Grain Size	ASTM E 112: 2013 Comparison Method	Qualitative (1 to 8)
		Microstructure (Delta Ferrite/Ferrite)	ASTM E 562: 11	0.10 % to 70 %

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