

Laboratory	Jyothi Spectro Analysis Pvt. Ltd., Plot No. A-30, APIE, Balanagar, Hyderabad, Telangana		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Non-Destructive Testing	Issue Date	21.07.2015
Certificate Number	T-3518	Valid Until	20.07.2017
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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
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AT LAB & AT SITE

I. METALS AND ALLOYS

1.	Ferrous & Non Ferrous Metals (Welds, Pipes Forgings, Castings)	Liquid Penetrant Examination	ASME (Sec V): 2013 Article 6 ASTM E165: 2009 ASTM- E 1219: 1999 ASTM- E 1417: 1999 IS 3658: 1999 (RA 2000) IS 11732: 1995 (RA 2000) ASTM E 1418: 2004 ASTM E 1220: 1999 AWS D1.1-D1.1M: 2008 ASME (Sec VIII) (Div 1) Appendix-8:2010 ASTM E 433 ASTM A 903: 1999 (RA 2003) BS EN 571-1: 1997	Qualitative (Defects Open to Surface)
2.	Ferro-Magenetic Materials	Magnetic Particle Examination (Yoke) (Fluorescent & Visible Method)	ASME (Sec V) Article 7: 2013 ASTM E 709: 2008 ASTM E-1444: 2005 IS 3703: 2004 BS EN 1290: 2002	Surface and Subsurface defects Upto 3 mm depth
	General Requirements for Magnetic Particle			
	Steel Forging		ASTM A275: 2008 IS 7743: 2006 ASTM E 125	
	Steel Castings		ASTM A 903: 1999 (RA 2003) IS10724: 1990 (RA 2000)	
	Tube & Pipe		IS 6752: 1991 (RA 2000)	

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	Welds		IS 5334: 2003, AWS D1.1-D1.1M: 2008 ASME (Sec VIII) Division-1 Appendix 6: 2010	Surface and Subsurface defects Upto 3 mm depth
3.	Ferrous & Non Ferrous metals & alloys	Ultrasonic Testing		
	General Requirements for Ultrasonic Examinations		ASME (Sec V) Article 4, Article 5 (2013) IS 3664: 1981 (RA 2003) AMS 2632A: 1995 AMS 2630B: 1995 (RA 2010) ASME 114: 2010 IS 15452: 2004	Maximum 2500 mm
	Steel Plates		ASTM A 435: 1990 (RA 2007) ASTM A 577: 1990 (RA 2007) ASTM A 578: 2007 IS 4225: 2004 (RA 2010) BS EN 10160: 1999	
	Steel Casting		ASTM A 609/ ASTM A 609M: 199 (RA 2007) IS 7666: 1988 (RA 2010) IS 9565: 1995 (RA 2010)	
	Steel Forging		ASTM A 388/388M: 2011 IS 4904: 2006 IS 8791: 1978 (RA 2008) BS EN 10228-3: 1998	
	Metal Pipe and Tubing		ASTM E 213: 2009 IS 6394: 2006 AMS 2630 B: 1995 (RA 2010)	Max Upto 200 mm

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	Welded Plate, Weld Zone of welded pipe & Tubing's		ASTM E 273: 2001	3 mm to 100 mm
			ASTM E 164: 2003 IS 4260: 2004 ASME (Sec V): 2013 Article 4 & 5 ASME (Sec VIII) Appendix-12, UW-53 (Div 1): 2010 AWS D1.1/D1.1M: 2008	6 mm to 200 mm
	Aluminium Alloy plates for pressure vessels		ASTM B 548: 2009	6 mm to 300 mm
	Aluminium-Alloy Wrought Products		ASTM B 594: 2002	6 mm to 300 mm
	Wrought Products		ASTM E 2375: 2008 AMS 2631	6 mm to 300 mm
4.	Ferrous and Non-Ferrous Metal	Ultrasonic Thickness Testing (THK)	ASTM E 797/E 797 M: 2010 IS 15435: 2003	3 mm to 15 mm 16 mm to 50 mm 51 mm to 100 mm

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