

Laboratory Industrial Radiographic Inspection Company, No. 75, SIDCO
Industrial Estate, Kuruchi, Coimbatore, Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6749 (in lieu of T-3767)

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Validity 29.01.2018 to 28.01.2020

Last Amended on --

Sl.	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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NON-DESTRUCTIVE TESTING

I. METAL & ALLOYS				
a.	Radiography test			
1.	Weld joints	Radiography (Detection Of Flaws With Radio Isotopes Detection Of Flaws With X-Rays.)	ASME Sec-V Article 2,22:2017 BS EN ISO 5579 : 2013 ASME B 31.1:2016 ASME B 31.3:2016 AWS D1.1/D1.1 M:2015 BS 2600:1983 BS EN 1435:1997 + A1 : 2002 BS 2910:2007 BS EN 12517:2008	X ray: 1mm to 30 mm Gamma ray- Iridium 192:5mm to 70mm Cobalt 60: 40mm to 200mm / max 2% sensitivity
2.	Casting		ASME Sec-V Article 2,22:2017 ASME B 16.34:2017 ASME E 1030-05 :2011 BS EN 4080-1 : 1989 BS EN 4080-2 : 1989 BS EN 12681:2003	X ray: 2mm to 30 mm Gamma ray- Iridium 192:5mm to 70mm Cobalt 60: 40mm to 200mm / max 2% sensitivity
b.	Ultrasonic testing			
1.	Weld joints	Ultrasonic (Contact Method)	ASME Sec-V Article 4,5:2017 ASME B 31.1:2016 ASME B 31.3:2016 ASTM E 273:10 BS EN ISO 17640:2010 BS EN ISO 23279:2017 BS EN ISO 11666:2010 BS EN ISO 16828:2014 BS EN ISO 16810:2014	Thickness 4mm to 150mm/ λ/2 detection sensitivity

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			BS EN ISO 11666:2010	
2.	Casting		ASME Sec-V Article 23:2017 ASTM A 609/A 609M 91:2012 ASME B 16.34:2013 BS EN 12680-1 : 2003 BS EN 12680-2 : 2003 BS EN 12680-3 : 2011	Thickness 5mm to 500mm/ $\lambda/2$ detection sensitivity
3.	Steel plates		ASME Sec-V Article 23:2015 ASTM A 435/A 435M 90 : 2012 ASTM A 578/A 578M-07 : 2012	Thickness 5mm to 150mm/ $\lambda/2$ detection sensitivity
4.	Forging		ASME Sec-V Article 23:2015 ASTM A 388/A 388M-16A ASTM A 745/A 745M-94	Thickness 5mm to 800mm/ $\lambda/2$ detection sensitivity
c.	Magnetic particle testing			
1.	Weld joints	Magnetic Particle (Prod & Yoke/ Florescent and Visible)	ASME Sec-V Article 7,25:2017 ASTM E-709-08 BS EN ISO 23278 : 2015 BS EN ISO 17638 : 2016 AWS D1.1/D1.1M:2015	Surface and Sub- Surface Indications (Upto 3 mm Depth)
2.	Casting		ASME Sec-V Article 7,25:2017 ASME B 16.34:2017 ASTM E 709-08	
3.	Forging		ASME Sec-V Article 7,25:2017 ASTM E 709-08	

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d.	Penetrant testing			
1.	Weld joints	Liquid Penetrant (Solvent Removable / Florescent And Visible)	ASME Sec-V Article 6,24:2017 ASTM E 165-12 AWS D1.1/D1.1M:2015 BS EN ISO 23277 : 2015	Open to Surface
2.	Forging		ASME Sec-V Article 6,24:2017 ASTM E 165-12 AWS D1.1/D1.1M:2015	
3.	Casting		ASME Sec-V Article 6,24:2017 ASME B 16.34:2015 BS EN ISO 3452-1:2013 BS EN ISO 3452-2:2013 BS EN ISO 3452-3:2013 BS EN ISO 3452-4:1998 BS EN ISO 3452-5:2008 BS EN ISO 3452-6:2008	

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