

Laboratory **RIS Engineers Pvt. Ltd., 265 A, B.T. Road, Manashi Apartment,  
Kolkata, West Bengal**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-7382 (in lieu of T-1776)**

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Validity **28.06.2018 to 27.06.2020**

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.	METALS AND ALLOYS			
1.	<b>Weldments of Ferrous and Nonferrous Metal and Metallic Pipe</b>	Radiography	ASTM E-94:2017 ASTM E-1032:2012 ASTM E-1416-2009 ASME Sec. V Art 2:2017 IS 1182:2000/IS 4853:2003 IS 2825:1969 API 1104:2001 AWS D.1.1:2015	Qualitative (03 mm to 70 mm in Steel)
2.	<b>Metallic Casting</b>	Radiography	ASTM E-1030:2017	Qualitative (03 mm to 70 mm in Steel)
3.	<b>Steel Forging</b>	Ultrasonic	ASTM A-388/388M:2017 ASTM E-114:2001 IS 3664:2003 IS 8791:2003	Qualitative (Maximum 2000 mm in Steel)
4.	<b>Steel Casting</b>	Ultrasonic	ASTM A-609/609M:2017 IS 7666:2000	Qualitative (Maximum Upto 500 mm)
5.	<b>Steel Plates</b>	Ultrasonic	ASTM A-435/435M:2017 ASTM A-578/578M :2017 IS 4225:2004 IS 11630:2005	500 mm in Steel
6.	<b>Welded Pipe and Plate</b>	Ultrasonic	ASME Sec. V:2017 Art 4 & Art 5 IS 4260:2004 ASTM E 164:2013	Qualitative (100 mm in Steel)
7.	<b>Structural Steel</b>	Ultrasonic	AWS.D.I.I :2015	Qualitative (120 mm in Steel)
8.	<b>Ferrous and Non-Ferrous Metal</b>	Ultrasonic Thickness	ASTM E 797:2017 IS 15435:2003	0.5 mm to 100 mm (> 44 mm Diameter)

**K. Siribabu**  
Convenor

**N. Venkateswaran**  
Program Director

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9.	<b>Ferromagnetic Material</b>	Magnetic Particle -Non-Fluorescent (Yoke and Prod Method)	ASTM E 709:2017 ASTM E 1444 E 1444M:2017 IS 5334:2003 IS 3703:2004 IS 10724:2000 IS 10543:1983 ASME Sec. V Art 7:2017	Qualitative (Surface & Sub-Surface Upto 3 mm)
10.	<b>Ferrous and Non-Ferrous Metals</b>	Liquid Penetrant -Non-Fluorescent	ASTM E 1417/ E 1417M: 2016 IS 3658:2000 ASME Sec. V Art 6:2017 ASTM E 165:2017 ASTM E 1220:2010	Qualitative (Open to surface)

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