

**Laboratory**

**Industrial Radiographic Inspection Company, SP 111, Ambattur Industrial Estate, Chennai, Tamil Nadu**  
 Location 1: SP 111, Ambattur Industrial Estate, Chennai, Tamil Nadu  
 Location 2: Old No. 69, New No. 61, Natesan Nagar, Vivekananda Street, Athipet, Chennai, Tamil Nadu

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

**Certificate Number TC-7141 (in lieu of T-2211)**

**Page 1 of 4**

**Validity 09.05.2018 to 08.05.2020**

**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
-----	----------------------------	-------------------------	---	--

**NON-DESTRUCTIVE TESTING**

LOCATION 1 & LOCATION 2				
AT LAB & AT SITE				
<b>I.</b>	<b>METAL &amp; ALLOYS</b>			
<b>A.</b>	<b>Radiography Test</b>			
<b>1.</b>	<b>Weld Joints (Ferrous and Non Ferrous)</b>	Radiography (X-Ray & Gamma 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 ISO 17636-1:2013 BS EN ISO 17636-2:2013 BS 2910:2007 BS EN 12517:2008	Qualitative (X ray: 1mm to 40 mm  Iridium 192:5mm to 70mm  Cobalt 60: 40mm to 200mm / max 2% sensitivity)
<b>2.</b>	<b>Casting (Ferrous and Non Ferrous)</b>		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	Qualitative (X ray: 2mm to 40 mm  Iridium 192:5mm to 70mm  Cobalt 60: 40mm to 200mm / max 2% sensitivity)

**Birendra Prasad Murmu**  
Convenor

**N. Venkateswaran**  
Program Director

Laboratory

Industrial Radiographic Inspection Company, SP 111, Ambattur Industrial Estate, Chennai, Tamil Nadu  
Location 1: SP 111, Ambattur Industrial Estate, Chennai, Tamil Nadu  
Location 2: Old No. 69, New No. 61, Natesan Nagar, Vivekananda Street, Athipet, Chennai, Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7141 (in lieu of T-2211)

Page 2 of 4

Validity 09.05.2018 to 08.05.2020

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
B.	Ultrasonic Testing			
1.	Weld Joints	Ultrasonic	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	Qualitative (Thickness 4mm to 150mm $\lambda/2$ detection sensitivity)
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	Qualitative (Thickness 5mm to 500mm $\lambda/2$ detection sensitivity)
3.	Steel plates		ASME Sec-V Article 23:2017 ASTM A 435/ A 435M 90 : 2012 ASTM A 578/ A 578M-07 : 2012	Qualitative (Thickness 5mm to 150mm $\lambda/2$ detection sensitivity)
4.	Forging		ASME Sec-V Article 23:2017 ASTM A 388/A 388M-16A ASTM A 745/A 745M-94	Qualitative (Thickness 5mm to 800mm $\lambda/2$ detection sensitivity)

Laboratory

Industrial Radiographic Inspection Company, SP 111, Ambattur Industrial Estate, Chennai, Tamil Nadu  
Location 1: SP 111, Ambattur Industrial Estate, Chennai, Tamil Nadu  
Location 2: Old No. 69, New No. 61, Natesan Nagar, Vivekananda Street, Athipet, Chennai, Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7141 (in lieu of T-2211)

Page 3 of 4

Validity 09.05.2018 to 08.05.2020

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
<b>C.</b>	<b>Magnetic Particle Testing</b>			
1.	<b>Weld Joints (Ferrous)</b>	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	Qualitative [Surface and Sub-Surface Indications (Up to 3 mm Depth)]
2.	<b>Casting (Ferrous)</b>		ASME Sec-V Article 7, 25:2017 ASME B 16.34:2017 ASTM E 709-08	
3.	<b>Forging (Ferrous)</b>		ASME Sec-V Article 7, 25:2017 ASTM E 709-08	
<b>D.</b>	<b>Penetrant Testing</b>			
1.	<b>Weld Joints (Non Porous)</b>	Liquid Penetrant (Solvent Removable / Fluorescent And Visible)	ASME Sec-V Article 6, 24:2017 ASTM E 165-12 AWS D1.1/D1.1M:2015 BS EN ISO 23277 : 2015	Qualitative (Open to Surface)
2.	<b>Casting (Non Porous)</b>		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	

**Laboratory**

**Industrial Radiographic Inspection Company, SP 111, Ambattur Industrial Estate, Chennai, Tamil Nadu**  
Location 1: SP 111, Ambattur Industrial Estate, Chennai, Tamil Nadu  
Location 2: Old No. 69, New No. 61, Natesan Nagar, Vivekananda Street, Athipet, Chennai, Tamil Nadu

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

**Certificate Number TC-7141 (in lieu of T-2211)**

**Page 4 of 4**

**Validity 09.05.2018 to 08.05.2020**

**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
3.	Forging (Non Porous)		ASME Sec-V Article 6, 24:2017 ASTM E 165-12 AWS D1.1/D1.1M:2015	
E.	<b>Ferrous and Non Ferrous</b>			
1.	<b>Ferrous And Non Ferrous</b>	Thickness Measurement	ASTM E797-2015 IS 15468 : 2011	Flat Surface up to 200mm / Diameter more than 40mm