Plot No. E-3 Uttar Prade Accreditation Standard ISO/IEC 170			NTPC Energy Technology Research Alliance (NETRA), NTPC Ltd., Plot No. E-3, Ecotech-II, Greater Noida, Gautam Budh Nagar, Uttar Pradesh ISO/IEC 17025: 2005				
		rd ISO/IEC 17025: 2009					
		Non-Destructive Te	Non-Destructive Testing T-0302		09.12.2016 08.12.2018		
		T-0302					
Last Amended on		-	-		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			
I.	METALS & ALLO	OYS					
1.	Ferrous & Non- Ferrous Metals & Alloys	Ultrasonic Testing (Contact Pulse-Echo Type)	ASME BPVC, Sec V Articles 4,5 & 23: 2015	Welds- 5 mm to 1. Forging-	5 mm to 150 mm		
			ASME SA-388: 2015	Diameter 2	Diameter 25 mm to 500 mm Plates-Thickness		
			ASME SA-435: 2015	5 mm to 3	00 mm		
			ASME SA-577: 2015	Casting-Tl	nickness		
			ASME SA-578: 2015	10 mm to 2 Pipes & tu			
			ASME SA-609: 2015	Diameter a Thickness	above 25.4 mm,		
			ASME SA-213: 2015 ASME SA-273: 2015	5 mm to 20 Qualitative			
		Dye-Penetrant Test	ASME BPVC, Sec V: 2015,	Qualitative			
		(Fluorescent & Visible)	Article 6, 24, SE 165-12		of flaws open to		
		Ultrasonic Thickness Measurement	ASME BPVC, Sec V Articles 23: 2015 SE 797-10	1 mm to 2	00 mm		
		In-Situ Metallography	ASTME 1351-01(reprint 2012	Monitoring degradation morpholog	e g of material n based on gical changes of I void formation		
2.	Ferromagnetic Materials	Magnetic Particle Inspection Yoke Type (Fluorescent & Visible)	ASME BPVC, Sec V: 2015 SE 709-08		e d subsurface epth less than		

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Discipline Non-Destructive Testing Issue Date 09.12.2016

Certificate Number T-0302 Valid Until 08.12.2018

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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
3.	Non- Ferromagnetic Heat Exchanger Tubing	Eddy Current Testing	ASME BPVC, Sec V Article VIII,2015, Mandatory Appendix VIII	Qualitative Heat exchanger tubes of ID 16 mm to 30 mm
4.	Metallic Materials	Rebound Hardness Testing Method	ASTM A 956: (2012)	Qualitative Leeb Hardness: 150 HL to 1000 HL Converted hardness: Vickers hardness range-75 HV to 1000 HV Rockwell: Hardness range: 20.0 HRC to 70 HRC Rockwell: Hardness range 35 HRB to 100 HRB

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