Laboratory			NTPC Energy Technology Research Alliance (NETRA), NTPC Ltd., Plot No. E-3, Ecotech-II, Greater Noida, Gautam Budh Nagar, Uttar Pradesh			
Accreditation Standard		rd ISO/IEC 17025: 2005	ISO/IEC 17025: 2005			
Discipline		Mechanical Testing	Mechanical Testing		09.12.2016	
Certificate Number		T-0301		Valid Until 08.12.2018		
Last Amended on		-		Page	1 of 1	
S. No.	Product / Material of Test	Specific Test Performed	Test Method Specificatio against which tests are performed	n Range of Testing / Limits of Detection		
I.	MECHANICAL PROPERTIES OF METALS					
1.	Ferrous and Non- Ferrous Metals and Alloys	Accelerated stress rupture test	ASTM E 139-06		Temperature: 600 °C to 800 °C	
					Load on Pan: 250 g to 10 kg	
				Stress Rupture Time (test result): 1000 h to 10,000 h		
II.	METALLOGRAP	HY TEST				
1.	Ferrous and Non- Ferrous Metals and Alloys	Macro etch test	ASTM E 340-13	Qualitati	Qualitative	
		Micro structural characterisation	ASM Hand Book, Vol. 9, (9 <sup>th</sup> Edition): (1985)	Qualitati	Qualitative	
		Micro hardness test	ASTM E 384-16	100 HV	100 HV to 700 HV 0.5	
III.	PLASTICS AND POLYMERS					
1.	Strong & weak acid cation and strong & weak base anion exchange resins	Density	IS 7330: 1988 (Page. 8) (RA 2004)	0.4 g/ml to 0.9 g/ml		
		Particle size distribution	IS 7330: 1988 (Page 7) (RA 2004)	250 µ to 1.2 mm		
IV.	ACTIVATED CARBON					
1.	Activated Carbon (granular)	Particle size distribution	IS 877: 1989 (Page. 2): (1999 (Edition 3.1)	θ) 63 μ to 1	63 µ to 1.2 mm	

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