Laboratory		Ircon Infrastructure & Services Limited, Environment Management Planning Laboratory, Subordinate Complex, Northern Railway, Jammu, Jammu & Kashmir				
Accreditation Standard		ISO/IEC 17025: 2005				
Discipline		Chemical Testing		Issue Date 11.09.20 ⁴		11.09.2015
Certificate Number		T-3587		Valid Until		10.09.2017
Last Amended on		-		Page	age 1 of 4	
S. No.	Product / Material of Test	Specific Test Performed	Test Method Specificatior against which tests are performed	ו		of Testing / of Detection
<u>AT LA</u>	BORATORY					
I.	WATER					
1.	Drinking Water Surface Water/ Ground Water	Color	IS 3025 (Part 4): 1983 (RA 1996) 1 to 100 Visual Comparison			
		Odour	IS 3025 (Part 6): 1983 (RA 20 Threshold Water Test	02)	Qualitative	
		Temperature	IS 3025 (Part 9): 1984 (RA 20 Threshold Water Test	02)	10 °C to 110 °C	
		рН	IS 3025 (Part 11): 1983 (RA 2 Electrometric Method	.002)	1 to 14	
		Electrical Conductivity	IS 3025 (Part 14): 1985 (RA 1 Electrometric Method	996)	2 μS/cm	to 1999 µS/cm
		Total Suspended Solid	IS 3025 (Part 15): 1984 (RA 2 Filterable Residue Method	003)	10 mg/L	to 10000 mg/L
		Total Hardness	IS 3025 (Part 21): 2009 (RA 1 EDTA Titrimetric Method	996)	10 mg/L to 1000 mg/L	

ChlorideIS 3025 (Part 32): 1988 (RA 2007)5 mg/L to 500 mg/LArgentometric MethodArgentometric Method0.1 mg/L to 100 mg/LResidual Free ChlorineIS 3025 (Part 26): 1986 (RA 2003)0.1 mg/L to 100 mg/LIdometric MethodIS 3025 (Part 16): 1984 (RA 2003)10 mg/L to 5000 mg/LTotal Dissolved SolidIS 3025 (Part 16): 1984 (RA 2003)10 mg/L to 5000 mg/L

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		of Testing / of Detection	
	Drinking Water Surface Water/ Ground Water	Calcium	IS 3025 (Part 40): 1991 (RA 200 EDTA Titrimetric Method	03) 5 mg/L t	o 10000 mg/L	
		Sulphate	IS 3025 (Part 24): 1986 (RA 200 Titrimetric Method	03) 10 mg/L	to 5000 mg/L	
		Nitrate	IS 3025 (Part 34): 1988 (RA 200 Devarda's alloy reduction metho		o 1000 mg/L	
		Magnesium	IS 3025 (Part 46): 1994 (RA 200 EDTA Titrimetric Method	03) 5 mg/L t	o 500 mg/L	
		Alkalinity	IS 3025 (Part 23): 1986 (RA 200 Titrimetric Method	03) 10 mg/L	to 1000 mg/L	
2.	Waste Water	Odour	IS 3025 (Part 6): 1983 (RA 2002 Threshold Water Test	2) Qualitati	ve	
		рН	IS 3025 (Part 11): 1983 (RA 200 Electrometric Method	02) 1 to 14		
		Temperature	IS 3025 (Part 9): 1984 (RA 2002 Threshold Water Test	2) 10 °C to	110 °C	
		Total Suspended Solid	IS 3025 (Part 15): 1984 (RA 200 Filterable Residue Method	09) 10 mg/L	to 10000 mg/L	
		Biochemical Oxygen Demand (BOD)	IS 3025 (Part 44): 1993 (RA 200 Bio Assay Method	09) 5 mg/L t	o 10000 mg/L	
		Chemical Oxygen Demand (COD)	IS 3025 (Part 58): 2006 Open Reflux Method	8 mg/L t	o 10000 mg/L	

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Certi	ficate Number	T-3587	١	/alid Until	10.09.2017	
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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	
	Waste Water	Dissolve Oxygen	IS 3025 (Part 38): 1989 (RA 200 Azide Modification Method	03) 1 mg/L	to 10 mg/L	
		Oil & Grease	IS 3025 (Part 39): 1991 (RA 200 Partition – gravimetric Method	03) 1.0 mg/	L to 250 mg/L	
II.	AIR, GASES AND AT	ſMOSPHERE				
1.	Ambient Air Monitoring	Fine Particulate Matter (FPM) PM _{2.5}	Lab SOP No. SP-03 Based on CPCB Guidelines 201 Issue No.: 1 Issue Date: 12/05/2014		10 $\mu g/m^3$ to 1000 $\mu g/m^3$	
		Respirable Particulate Matter (RPM) PM ₁₀	IS 5182 (Part 23): 2006	10 µg/m	μ^3 to 2000 $\mu g/m^3$	
		Sulphur Dioxide as (SO _x)	IS 5182 (Part 2): 2001	6.5 μg/r	n^3 to 150 $\mu g/m^3$	
		Nitrogen Dioxide as (SO _x)	IS 5182 (Part 6): 2006	$5 \ \mu g/m^3$	to 150 μ g/m ³	
2.	Stack Emission	Particulate Matter as (PM)	IS 11255 (Part 1): 1985 (RA 200	03) 5 mg/N	m ³ to 400 mg/Nm ³	
		Sulphur Dioxide as (SO _x)	IS 11255 (Part 2): 1985 (RA 200	03) 5 μg/N	m ³ to 400 mg/Nm ³	
		Nitrogen Dioxide as (NO _x)	IS 11255 (Part 7): 2005	5 μg/m	³ to 400 µg/Nm ³	
		Carbon Dioxide as (CO ₂)	IS 13270: 1992 (RA 2003)	1 % to 2	20 %	
		Oxygen as (O ₂)	IS 13270: 1992 (RA 2003)	1 % to 1	5 %	

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		of Testing / of Detection
<u>AT SI</u>	<u>TE</u>				
I.	NOISE				
1.	Ambient Noise	Noise Level Leq	IS 9989: 1981	30 dB (.	A) to 130 dB (A)
			-X-X-X-X-X-X-		