Laboratory	SV Enviro Labs & Consultants (Laboratory Services Division), Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam, Andhra Pradesh		
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SI.	Product / Material	Specific Test Performed	Test Method Specification	Range of Testing /
	of Test		against which tests are	Limits of Detection
			performed	

BIOLOGICAL TESTING

1.	WATER			
1.	Ground Water, Surface Water,	Escherichia coli	IS 15185:2016	Qualitative (Present/Absent/ 250 ml)
	Drinking Water, Domestic Water,	Coliform	IS 15185:2016	Qualitative (Present/Absent/ 250 ml)
	Potable Water & Industrial Water	Faecal streptococci	IS 15186:2002 R 2014	Qualitative (Present/Absent/ 250 ml)
		Staphylococcus aureus	IS 5887 Part 2:1976 (Reaff 2013)	Qualitative (Present/Absent/ 250 ml)
		Sulphite reducing anaerobes	IS 13428Annex C:2005 R 2009	Qualitative (Present/Absent/ 50ml)
		Pseudomonas aeruginosa	IS 13428 Annex D:2005 R 2009	Qualitative (Present/Absent/ 250 ml)
	-	Aerobic Microbial count at 22 °C and 37 °C	IS 5402:2012	1 cfu/ml & above
	-	Yeast & Mould count	IS 5403:1999 (RA 2013)	Qualitative (Present/Absent/ml)
		Salmonella	IS 15187:2016	Qualitative (Present/Absent/ 250 ml)
	-	Shigella	IS 5887 (Part 7): 1999 (RA 2013)	Qualitative (Present/Absent/ 250 ml)
	-	Vibrio cholera	IS 5887 (Part 5): 1976 (RA 2013)	Qualitative (Present/Absent/ 250 ml)
	-	V. parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2013)	Qualitative (Present/Absent/ 250 ml)

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SI.	Product / Material	Specific Test Performed	Test Method Specification	Range of Testing /
	of Test	-	against which tests are	Limits of Detection
			performed	

CHEMICAL TESTING

1.	WATER		<u> </u>	
1.	Ground Water, Surface Water,	Colour	APHA, 2120-C, 23 rd Edition	1.0 Hazen to 50 Hazen
	Drinking Water, Domestic Water,	Odour	APHA, 2150, 23 rd Edition	Qualitative (Agreeable/Disagreeable)
	Potable Water & Industrial Water	Taste	APHA, 2160 B, 23 rd Edition	Qualitative (Agreeable/Disagreeable)
		Turbidity	APHA, 2130-B, 23 rd Edition	0.1 NTU to 1000 NTU
		рН	APHA, 4500-H+B, 23 rd Edition	1 to 14
		Conductivity	APHA, 2510-B, 23 rd Edition	1 μmhos/cm to 20000 μmhos/cm
		Total Solids	APHA, 2540-B, 23 rd Edition	5.0 mg/l to 100 mg/l 100.0 mg/l to 5000 mg/l
		Total Dissolved Solids (TDS)	APHA, 2540-C, 23 rd Edition	50.0 mg/l to 20000 mg/l
		Total Suspended Solids (TSS)	APHA, 2540-D, 23 rd Edition	5.0 mg/l to 1000 mg/l
		Dissolved Oxygen (DO)	APHA, 4500-DC, 23 rd Edition	0.2 mg/l to 8 mg/l
		Anionic Surface Active Agents (as MBAS)	IS 13428:2005Annex-K&L (RA 2009)	0.1 mg/l to 5 mg/l
		Phenolic Compounds (as C ₆ H ₅ OH)	APHA, 5530-C, 23 rd Edition	0.005 mg/l to 10 mg/l
		Residual Free Chlorine	IS 3025 P:26:1986 (RA:2003)	0.1 mg/l to 10 mg/l
		Acidity (as CaCO₃)	APHA, 2310-B, 23 rd Edition	2.0 mg/l to 500 mg/l

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Total Alkalinity (as CaCO ₃)	APHA, 2320-B, 23 rd Edition	2.0 mg/l to 500 mg/l
		Total Hardness (as CaCO ₃)	APHA, 2340-C, 23 rd Edition	2.0 mg/l to 1500 mg/l
		Chlorides (as Cl)	APHA, 4500-CI B, 23 rd Edition	5.0 mg/l to 10000 mg/l
		Sulfates (as SO ₄)	APHA, 4500-SO ₄ ²⁻ E, 23 rd Edition	2.0 mg/l to 200 mg/l
		Sulphide (as S)	APHA, 4500S ² D, 23 rd Edition	2.0 mg/l to 30 mg/l
		Cyanides (as CN)	APHA, 4500-CN ⁻ E, 23 rd Edition	0.05 mg/l to 15 mg/l
		Fluoride (as F)	APHA, 4500-FD, 23 rd Edition	0.1 mg/l to 5 mg/l
		Nitrate Nitrogen (as NO ₃)	APHA, 4500 NO ³⁻ B & C, 23 rd Edition	1.0 mg/l to 40 mg/l
		Nitrite (as NO ₂)	APHA, 4500-NO ²⁻ B, 23 rd Edition	0.01 mg/l to 10 mg/l
		Calcium (as Ca)	APHA, 3500-Ca B, 23 rd Edition	5.0 mg/l to 1500 mg/l
		Magnesium (as Mg)	APHA, 3500-Mg B, 23 rd Edition	5.0 mg/l to 1500 mg/l
		Sodium (as Na)	APHA, 3500-Na B, 23 rd Edition	1.0 mg/l to 1000 mg/l
		Potassium (as K)	APHA, 3500-KB, 23 rd Edition	1.0 mg/l to 300 mg/l
		Borate (as B)	APHA, 3120-B, 23 rd Edition	0.1 mg/l to 10 mg/l
		Aluminium (as Al)	APHA, 3120-B, 23 rd Edition	0.01 mg/l to 10 mg/l
		Antimony (as Sb)	APHA, 3120-B, 23 rd Edition	0.01 mg/l to 2 mg/l

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Arsenic (as As)	APHA, 3120-B, 23 rd Edition	0.01 mg/l to 2 mg/l
		Barium (as Ba)	APHA, 3120-B, 23 rd Edition	0.1 mg/l to 10 mg/l
		Cadmium (as Cd)	APHA, 3120-B, 23 rd Edition	0.01 mg/l to 10 mg/l
		Chromium (as Cr)	APHA, 3120-B, 23 rd Edition	0.01 mg/l to 10 mg/l
		Copper (as Cu)	APHA, 3120-B, 23 rd Edition	0.01 mg/l to 10 mg/l
		Iron (as Fe)	APHA, 3120-B, 23 rd Edition	0.01 mg/l to 10 mg/l
		Lead (as Pb)	APHA, 3120-B, 23 rd Edition	0.01 mg/l to 10 mg/l
		Manganese (as Mn)	APHA, 3120-B, 23 rd Edition	0.01 mg/l to 10 mg/l
		Mercury (as Hg)	APHA, 3120-B, 23 rd Edition	0.01 mg/l to 2.0 mg/l
		Nickel (as Ni)	APHA, 3120-B, 23 rd Edition	0.01 mg/l to 10 mg/l
		Selenium (as Se)	APHA, 3120-B, 23 rd Edition	0.01 mg/l to 2 mg/l
		Silver (as Ag)	APHA, 3120-B, 23 rd Edition	0.01 mg/l to 10 mg/l
		Zinc (as Zn)	APHA, 3120-B, 23 rd Edition	0.01 mg/l to 10 mg/l
II.	RESIDUES IN WAT	WATER		
1.	Pesticides	Alpha-HCH	SVELC/LAB/WAT/034 GC-ECD/Issue No. 1 Issue Dated 01.02.2017	0.02 μg/l to 1 μg/l
		Beta-HCH	SVELC/LAB/WAT/034 GC-ECD/Issue No. 1 Issue Dated 01.02.2017	0.02 μg/l to 1 μg/l

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Gama-HCH	SVELC/LAB/WAT/034 GC-ECD/Issue No. 1 Issue Dated 01.02.2017	0.02 μg/l to 1 μg/l
		Delta-HCH	SVELC/LAB/WAT/034 GC-ECD/Issue No. 1 Issue Dated 01.02.2017	0.02 μg/l to 1 μg/l
		<i>p,p</i> '-DDT	SVELC/LAB/WAT/034 GC-ECD/Issue No. 1 Issue Dated 01.02.2017	0.02 μg/l to 1 μg/l
		Endosulpan	SVELC/LAB/WAT/034 GC-ECD/Issue No. 1 Issue Dated 01.02.2017	0.02 μg/l to 1 μg/l
		Aldrin	SVELC/LAB/WAT/034 GC-ECD/Issue No. 1 Issue Dated 01.02.2017	0.02 μg/l to 1 μg/l
		Dieldrin	SVELC/LAB/WAT/034 GC-ECD/Issue No. 1 Issue Dated 01.02.2017	0.02 μg/l to 1 μg/l
		Isoproturon	SVELC/LAB/WAT/034 HPLC-UV/Issue No. 1 Issue Dated 01.02.2017	0.02 μg/l to 1 μg/l
111.	POLLUTION & ENV	IRONMENT		
1.	Waste Water (Effluents/	рН	APHA, 4500-H <u>+</u> B, 23 rd Edition	1 to 14
	Sewage)	Total Solids	APHA, 2540-B, 23 rd Edition	5.0 mg/l to 20000 mg/l
		Total Dissolved Solids (TDS)	APHA, 2540-C, 23 rd Edition	5.0 mg/l to 20000 mg/l
		Total Suspended Solids (TSS)	APHA, 2540-D, 23 rd Edition	5.0 mg/l to 1000 mg/l

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection		
		Oil & Grease	APHA, 5520-D, 5-38, 23 rd Edition	5.0 mg/l to 200 mg/l		
IV.	ATMOSPHERIC POLLUTION					
1.	Ambient Air	Respirable Suspended Particulate Matter (PM10)	IS 5182 (Part 23): 2006	5.0 μg/m ³ to 1000 μg/m ³		
		Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001 (RA 2006)	4.0 μg/m ³ to 1050 μg/m ³		
		Oxides of Nitrogen (NOx)	IS 5182 (Part 6): 2006	5.0 μg/m ³ to 1000 μg/m ³		
2.	Stack Emission	Particulate Matter (PM)	IS 11255 (Part 1): 1985	5.0 mg/Nm ³ to 5000 mg/Nm ³		
		Sulphur Dioxide (SO ₂)	IS 11255 (Part 2): 2009	5.0 mg/Nm ³ to 1000 mg/Nm ³		
		Oxides of Nitrogen (NOx)	IS 11255 (Part 7): 1985	5.0 mg/Nm ³ to 1000 mg/nm ³		