Laboratory	Tamil Nadu Waste Management Limited Laboratory, Plot No. 5-15, 28- 33, SIPCOT Industrial Complex, Gummidipoondi, Thiruvallur Dist., Tamil Nadu			
Accreditation Standard	ISO/IEC 17025: 2005			
Discipline	Chemical Testing	Is	sue Date	21.07.2014
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I. POLLUTION AND ENVIRONMENT

1.	Waste water/ Effluent	рН	APHA 22 nd Edition, 2012; 4500 H ⁺ B	3 to 12
		Temperature	APHA 22 nd Edition, 2012; 2550 – A, B	Ambient to 50°C
		Color (Hue)	APHA 22 nd Edition, 2012; 2120 D	400 nm to 700 nm
		Conductivity	APHA 22 nd Edition, 2012; 2510 B	$2\ \mu S$ to 100 mS/Cm
		Acidity as CaCO ₃	APHA 22 nd Edition, 2012; 2310 B	5 mg/L to 10000 mg/L
		Alkalinity as CaCO ₃	APHA 22 nd Edition, 2012; 2320 B	5 mg/L to 30000 mg/L
		Total Solids	APHA 22 nd Edition, 2012; 2540 B	10 mg/L to 500000 mg/L
		Total Dissolved Solids	APHA 22 nd Edition, 2012; 2540 C	10 mg/L to 500000 mg/L
		Total Suspended Solids	APHA 22 nd Edition, 2012; 2540 D	10 mg/L to 10000 mg/L
		Fixed Solids	APHA 22 nd Edition, 2012; 2540 E	10 mg/L to 500000 mg/L

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Waste water/ Effluent	Volatile Solids	APHA 22 nd Edition, 2012; 2540 E	10 mg/l	L to 10000 mg/L	
	Chlorides as Cl	APHA 22 nd Edition, 2012; 4500 Cl ⁻ B	5 mg/L	to 50000 mg/L	
	Sulphates as SO ₄ ⁻²	APHA 22 nd Edition, 2012; 4500 SO ₄ ⁻² D	5 mg/L	to 30000 mg/L	
	Sulphide as S ⁻²	APHA 22 nd Edition, 2012; 4500 S ² F	5 mg/L	to 10000 mg/L	
	Sulphite as SO_3^{-2}	APHA 22 nd Edition, 2012; 4500 SO ₃ ⁻² , B	5 mg/L	to 1000 mg/L	
	Nitrate (Nitrogen) as N	IS: 3025 (Part 34) – 1988; (Re affirmed 2009);	1 mg/L	to 1000 mg/L	
	Nitrite (Nitrogen) as N	APHA 22 nd Edition, 2012; 4500 NO ₂ – B	1 mg/L	to 1000 mg/L	
	Nitrogen (Ammonia) as N	APHA 22 nd Edition, 2012; 4500 NH ₃ B, C	1 mg/L	to 10000 mg/L	
	Nitrogen (Organic) as N	APHA 22 nd Edition, 2012; 4500 N (org) B	1 mg/L	to 10000 mg/L	
	Fluorides as F ⁻	APHA 22 nd Edition, 2012; 4500 F ⁻ D	1 mg/L	to 1000 mg/L	

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Waste water/ Effluent	Residual Chlorine as Cl	APHA 22 nd Edition, 2012; 4500 Cl B	1 mg/L	to 100 mg/L	
	Total Cyanides as CN ⁻	APHA 22 nd Edition, 2012; 4500 CN ⁻ C, E	0.2 mg/	L to 1000 mg/L	
	Total Hardness as CaCO ₃	APHA 22 nd Edition, 2012; 2340 C	5 mg/L	to 10000 mg/L	
	Total Phosphorus as P	APHA 22 nd Edition, 2012; 4500 P B,C	1 mg/L	to 1000 mg/L	
	Dissolved Oxygen	APHA 22 nd Edition, 2012; 4500 O C	1 mg/L	to 12 mg/L	
	Oil & Grease	APHA 22 nd Edition, 2012; 5520 B	5 mg/L	to 1000 mg/L	
	Chemical Oxygen Demand	APHA 22 nd Edition, 2012; 5220 B	10 mg/I	to 100000 mg/L	
	Bio Chemical Oxygen Demand (3 Days @ at 27°C)	IS : 3025 (part 44): 1993, (Re affirmed 2009)	4 mg/L	to 10000 mg/L	
	Phenolic Compounds as C ₆ H ₅ OH	APHA 22 nd Edition, 2012; 5530 B & D	1 mg/L	to 1000 mg/L	
	Calcium as Ca	APHA 22 nd Edition, 2012; 3500 Ca B	5 mg/L	to 10000 mg/L	
	Magnesium as Mg	APHA 22 nd Edition, 2012; 3500-Mg B	5 mg/L	to 1000 mg/L	

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Waste water/ Effluent	Sodium as Na	APHA 22 nd Edition, 2012; 3500 Na B	1 mg/L	to 10000 mg/L
	Potassium as K	APHA 22 nd Edition, 2012; 3500 K B	1 mg/L	to 1000 mg/L
	Cadmium Cd	APHA 22 nd Edition, 2012; 3111B	0.1 mg	/L to 1000 mg/L
	Total Chromium as Cr	APHA 22 nd Edition, 2012; 3111 B	0.5 mg/	'L to 1000 mg/L
	Hexavalent Chromium as Cr ⁺⁶	APHA 22 nd Edition, 2012; 3500 Cr B	0.1 mg/	'L to 1000 mg/L
	Iron as Fe	APHA 22 nd Edition, 2012; 3500 Fe B	0.1 mg/	'L to 1000 mg/L
	Lead as Pb	APHA 22 nd Edition, 2012; 3111 B	0.1 mg/	'L to 1000 mg/L
	Zinc as Zn	APHA 22 nd Edition, 2012; 3111 B	0.1 mg/	L to 1000 mg/L
	Copper as Cu	APHA 22 nd Edition, 2012; 3111 B	0.5 mg/	'L to 1000 mg/L
	Nickel as Ni	APHA 22 nd Edition, 2012; 3111 B	0.5 mg/	'L to 1000 mg/L
	Reactive Silica as SiO ₂	APHA 22 nd Edition, 2012; 4500 SiO ₂ C	0.5 mg/	'L to 1000 mg/L

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	Waste water/ Effluent	Arsenic as As	APHA 22 nd Edition, 2012; 3500 As B	;	0.2 mg/	/L to 1000 mg/L
		Vanadium as V	APHA 22 nd Edition, 2012; 3500 V B	,	0.1 mg	/L to 1000 mg/L
		Manganese as Mn	APHA 22 nd Edition, 2012; 3111 B	;	0.5 mg/	L to 1000 mg/L
		Cobalt as Co	APHA 22 nd Edition, 2012; 3111 B	,	0.5 mg/	L to 1000 mg/L
2.	Hazardous Solid Waste	рН	USEPA 2009 SW- 846; 9045 D		1to 14	
		Bulk Density	APHA 22^{nd} Edition, 2012; 4500 H ⁺ B;		0.2gm/c	cc to 5 gm/cc
		Calorific Value	ASTM D 5468- 02 (2007)		200cal/	gm to15000 cal/gm
		Flash Point	USEPA 2009, SW- 846; 1020 B		Ambier	nt to 300°C
		Moisture content	IS 326 (Part 21) :2001 APHA 22 nd Edition 2012, 2540 G		0.1%to	90%
		Loss on drying at 105°C	APHA 22 nd Edition, 2012; 2540 G	;	1%to 9	0%

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	Hazardous Solid Waste	Loss on ignition at 550°C	APHA 22 nd Edition, 2012; 2540 G	1%to 9	9.9%
		Paint Filter Liquid Test	USEPA 2009, SW - 846; 9095 A,B	Pass/ Fa	hil
		Total & Amenable Cyanide as HCN	USEPA 2009, SW- 846; 9010B,C, 9014	1 mg/K	g to 10000 mg/Kg
		Acid Soluble & Insoluble Sulfide as H ₂ S	USEPA 2009, SW- 846; 9030 B, 9034	1 mg/K	g to 10000 mg/Kg
		Extractable Organics (using n- Hexane)	USEPA 2009, SW- 846; 3540 C & 9071 B (Soxlet Extraction)	1%to 90)%
		Water Soluble Organics	TNWML/SOP/LA -110, 01/00, Dt. 01.12.2010 (Based on Hazardous Waste Management Series: HAZWAMS/2009-20 APHA 22 nd Edition, 2012; 2540 E)	0.1%to	99%
		Water soluble inorganics	TNWML/SOP/LA- 110, 01/00, Dt. 01.12.2010 (Based on Hazardous Waste Management Series: HAZWAMS/2009-20 APHA 22 nd Edition, 2012; 2540 E)	0.1%to	99%

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	Hazardous Solid Waste	Cadmium as Cd	USEPA 2009, SW- 846; 3050B,7000B	5 mg/K	g to 10000 mg/Kg
		Total Chromium as Cr	USEPA 2009, SW- 846; 3050 B,7000 B	10 mg/	Kg to10000mg/Kg
		Hexavalent Chromium as Cr ⁺⁶	USEPA 1998, SW- 846; 3060 A,7196A	5 mg/K	g to 100 00mg/Kg
		Lead as Pb	USEPA 2009, SW- 846; 3050 B,7000 B	5 mg/K	g to 10000 mg/Kg
		Nickel as Ni	USEPA 2009, SW- 846; 3050 B,7000 B	5 mg/K	g to 10000 mg/Kg
		Zinc as Zn	USEPA 2009, SW - 846; 3050 B,7000 B	5 mg/K	g to 10000 mg/Kg
		Copper as Cu	USEPA 2009, SW- 846; 3050 B, 7000 B	5 mg/K	g to 10000 mg/Kg
		Manganese as Mn	USEPA 2009, SW- 846; 3050 B, 7000 B	5 mg/K	g to 10000 mg/Kg
		Cobalt as Co	USEPA 2009, SW - 846; 3050 B, 7000 B	5 mg/K	g to 10000 mg/Kg
		Total Chlorides	USEPA 2009, SW- 846; 5050, 9253	0.01%	to 90%

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Hazardous Solid Waste		ASTM D5233- 92 (Reapproved 2009), USEPA 2009, SW- 846; 13 Hazardous Waste Management Series: HAZWAMS/2009-		
	Cadmium as Cd (TCLP/WLT)	ASTM D5233to 92 (Reapproved 2009), USEPA 2009, SW - 846; 7000 B	0.1 mg/	/L to 1000mg/L
	Total Chromium as Cr (TCLP/WLT)	ASTM D5233to 92 (Reapproved 2009), USEPA 2009, SW- 846; 7000 B	0.5 mg/	/L to 1000mg/L
	Hexavalent Chromium as Cr ⁺⁶ (TCLP/WLT)	ASTM D5233to 92 (Reapproved 2009), USEPA 2009, SW- 846; 7196 A	0.1 mg/	/L to 1000mg/L
	Iron as Fe (TCLP/WLT)	TNWML/SOP/LAB- 156,01/00, Dt.01.12.2010 (Based on ASTM D5233- (Reapproved 2009, APHA 22 nd Edition, 2012; 3500 Fe B)	C	/L to 1000mg/L

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Hazardous Solid Waste	Lead as Pb (TCLP/WLT)	ASTM D5233- 92 (Reapproved 2009), USEPA 2009, SW-846; 7000 B	0.1 mg/	/L to 1000mg/L
	Nickel as Ni (TCLP/WLT)	ASTM D5233- 92 (Reapproved 2009), USEPA 2009, SW- 846; 7000 B	0.5 mg/	/L to 1000mg/L
	Zinc as Zn (TCLP/WLT)	ASTM D5233- 92 (Reapproved 2009), USEPA 2009, SW- 846; 7000 B	0.1 mg/	L to 1000mg/L
	Copper as Cu (TCLP/WLT)	ASTM D5233- 92 (Reapproved 2009), USEPA 2009, SW- 846; 7000 B	0.5 mg/	L to 1000mg/L
	Arsenic as As (TCLP/WLT)	TNWML/SOP/LAB - 318,01/00, Dt.03.09.2012 (Based on ASTM D5233- (Reapproved 2009), APHA 22 nd Edition, 2012; 3500 As B)	C	L to 1000mg/L
	Vanadium as V (TCLP/WLT)	TNWML/SOP/LAB- 319,01/00, Dt.03.09.2012 (Based On ASTM D5233- (Reapproved 2009), APHA 22 nd Edition, 2012; 3500 V B)	C	L to 1000mg/L

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Hazardous Solid Waste	Manganese as Mn (TCLP/WLT)	ASTM D5233-92 (Reapproved 2009), USEPA 2009, SW- 846; 303 B, 7000 B	Ū	[/] L to 1000mg/L		
	Cobalt as Co (TCLP/WLT)	ASTM D5233-92 (Reapproved 2009), USEPA 2009, SW- 846; 3050 B,7000 B	0.5 mg/	' L to 1000mg/L		
	Ammonias as N (TCLP/WLT)	TNWML/SOP/LAB -120, 01/00, Dt. 01.12.2010 (Based on ASTM D5233 - 9 (Reapproved 2009), APHA 22 nd Edition, 2012; 4500 NH ₃ B,C)	C C	/to 10000 mg/L		
	Nitrate as N (TCLP/WLT)	TNWML/SOP/LAB -122, 01/00, Dt. 01.12.2010 (Based on ASTM D5233 - 9 (Reapproved 2009), IS: 3025 (Part 34) – 1988; (RA 2009))	U	L to 1000 mg/L		
	Fluorides as F ⁻ (TCLP/WLT)	TNWML/SOP/LAB- 113, 01/00, Dt. 01.12.2010 (Based On ASTM D5233- 9 (Reapproved 2009), APHA 22 nd Edition, 2012; 4500 F - D)	C C	L to 1000 mg/L		

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	Hazardous Solid Waste	Phenolic Compounds as C ₆ H ₅ OH (TCLP/WLT)	TNWML/SOP/LAB - 127, 01/00, Dt. 01.12.2010 (Based On ASTM D5233- (Reapproved 2009), APHA 22 nd Edition, 2012; 5530 B,D)		mg/ L	to 1000 mg/L
		Cyanide as CN ⁻ (TCLP/WLT)	TNWML/SOP/LAB - 115, 01/00, Dt. 01.12.2010 (Based on ASTM D5233- 9 (Reapproved 2009), APHA 22 nd Edition, 2012; 4500 CN ⁻ C,E))		2 mg/ 1	L to 1000 mg/L
II.	WATER					
1.	Water, Bore well water and surface Water	рН	APHA 22 nd Edition, 2012; 4500 H ⁺ B	31	to 12	
	Water	Temperature	APHA 22 nd Edition, 2012; 2550 – B	A	mbient	-50°C
		Color	APHA 21 st Edition, 2005; 2120 C			o Units to Co Units
		Conductivity	APHA 22 nd Edition, 2012; 2510 B	2	µS/Cn	n to 10000µS/Cm
		Acidity as CaCO ₃	APHA 22 nd Edition, 2012; 2310 B	2	mg/ L	to 1000 mg/L

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Water, Bore well water and surfac		APHA 22 nd Edition, 2012; 2320 B	2 mg/L	to 1000 mg/L	
Water	Total Solids	APHA 22 nd Edition, 2012; 2540 B	10 mg/	L to 10000 mg/L	
	Total Dissolved Solids	APHA 22 nd Edition, 2012; 2540 C	10 mg/	L to 10000 mg/L	
	Total Suspended Solids	APHA 22 nd Edition, 2012; 2540 D	10 mg/	L to 1000 mg/L	
	Fixed Solids	APHA 22 nd Edition, 2012; 2540 E	10 mg/	to 100000 mg/L	
	Volatile Solids	APHA 22 nd Edition, 2012; 2540 E	10 mg/	L to 100000 mg/L	
	Chlorides as Cl ⁻	APHA 22 nd Edition, 2012; 4500 Cl-B	5 mg/ I	L to 5000 mg/L	
	Sulphates as SO_4^{-2}	APHA 22 nd Edition, 2012; 4500 SO ₄ - ² D	5 mg/ I	L to 5000 mg/L	
	Sulphide as S^{-2}	APHA 22 nd Edition, 2012; 4500 S ² F	5 mg/ I	L to 1000 mg/L	
	Sulphite as SO_3^{-2}	APHA 22 nd Edition, 2012; 4500 SO ₃ ⁻² , B	5 mg/ I	L to 1000 mg/L	
	Nitrate Nitrogen as N	IS: 3025 (Part 34) – 1988; (RA 2009);	0.1 mg	/ L to 100 mg/L	

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Water, Bore well water and surface Water	Nitrite (Nitrogen) as N	APHA 22 nd Edition, 2012; 4500 NH ₃ B, C	1 mg/L	to 500 mg/L
Water	Nitrogen (Ammonia) as N	APHA 22 nd Edition, 2012; 4500 N (org) B	1 mg/L	to 1000 mg/L
	Nitrogen (Organic) as N	APHA 22 nd Edition, 2012; 4500 F ⁻ D	1 mg/L	to 100 mg/L
	Fluorides as F	APHA 22 nd Edition, 2012; 4500 Cl ⁻ B	; 1 mg/L	to 50 mg/L
	Residual Chlorine as Cl	APHA 22 nd Edition, 2012; 4500 Cl ⁻ B	0.2 mg/	L to 100 mg/L
	Total Cyanides as CN ⁻	APHA 22 nd Edition, 2012; 4500 CN ⁻ C, E	0.2 mg/	L to 10 mg/L
	Total Hardness as CaCO ₃	APHA 22 nd Edition, 2012; 2340 C	5 mg/L	to 10000 mg/L
	Dissolved Phosphorus as P	APHA 22 nd Edition, 2012; 4500 P C	0.5 mg/	L to 100 mg/L
	Dissolved Oxygen	APHA 22 nd Edition, 2012; 4500 O C	; 1 mg/L	to 12 mg/L
	Oil & Grease	APHA 22 nd Edition, 2012; 5520 B	C	to 100 mg/L
	Chemical Oxygen Demand	APHA 22 nd Edition, 2012; 5220 B	; 10 mg/1	L to 1000 mg/L

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Water, Bore well water and surface Water	Biological Oxygen Demand 3 Days At 27°c	IS : 3025 (part 44): 1993, (RA 2009)	4 mg/L	to 100 mg/L
water	Phenolic Compounds as C ₆ H ₅ OH	APHA 22 nd Edition, 2012 5530 C,D	; 0.1 mg/	/L to 100 mg/L
	Calcium as Ca	APHA 22 nd Edition, 2012 3500 Ca B	; 5 mg/L	to 1000 mg/L
	Magnesium as Mg	APHA 22 nd Edition, 2012 3500to Mg B	; 5 mg/L	to 1000 mg/L
	Sodium as Na	APHA 22 nd Edition, 2012 3500 Na B	; 1 mg/L	to 1000 mg/L
	Potassium as K	APHA 22 nd Edition, 2012 3500 K B	; 1 mg/L	to 1000 mg/L
	Cadmium Cd	APHA 22 nd Edition, 2012 3111 B	; 0.1 mg/	/L to 100 mg/L
	Total Chromium as Cr	APHA 22 nd Edition, 2012 3111 B	; 0.5 mg/	/L to 100 mg/L
	Hexavalent Chromium as Cr ⁺⁶	APHA 22 nd Edition, 2012 3500 Cr B	; 0.1 mg/	/L to 100 mg/L
	Iron as Fe	APHA 22 nd Edition, 2012 3500 Fe B	; 0.1 mg/	/L to 100 mg/L

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Water, Bore well water and surface	Lead as Pb	APHA 22 nd Edition, 2012; 3111 B	0.1 mg/	L to 50 mg/L
Water	Zinc as Zn	APHA 22 nd Edition, 2012; 3111 B	0.1 mg/	L to 100 mg/L
	Copper as Cu	APHA 22 nd Edition, 2012; 3111 B	0.5 mg/	L to 100 mg/L
	Nickel as Ni	APHA 22 nd Edition, 2012; 3111 B	0.5 mg/	L to 100 mg/L
	Reactive Silica as SiO ₂	APHA 22^{nd} Edition, 2012; 4500 SiO ₂ C & D	0.5 mg/	L to 100 mg/L
	Arsenic as As	APHA 22 nd Edition, 2012; 3500 As B	0.2 mg/	L to 50 mg/L
	Vanadium	APHA 22 nd Edition, 2012; 3500 V B	0.1 mg/	L to 50 mg/L
	Manganese as Mn	APHA 22 nd Edition, 2012; 3111 B	0.5 mg/	L to 100mg/L
	Cobalt as Co	APHA 22 nd Edition, 2012; 3111 B	0.5 mg/	L to 100mg/L

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III. A	AIR, GASES & ATM	OSPHERE			
1.	Ambient air monitoring	Sulphur Dioxide	IS 5182 (Part 2) : 2001 (RA 2006)	6 μ	g/m^3 to $1050\mu g/m^3$
		Oxides of Nitrogen	IS 5182 (Part 6) : 2006	б μ	g/m ³ to 750 μ g/m ³
		Respirable suspended particulate matter (PM 10)	IS 5182 (Part 23) : 2006	5 µ;	g/m ³ to 1000 µg/m ³
		Particulate Matter 2.5 (PM 2.5)	USEPA Quality Assurance Hand Book, Vol.II, Part II, Quality Assurance guide document 2.12		g/m ³ to 200 µg/m ³

Note: TCLP (Toxicity Characteristic Leaching Procedure)/WLT (Water Leachate)