Laboratory			Trans Thane Creek Waste Management Association, Plot No. P-128, TTC MIDC Industrial Area, Shil Mahape Road, Mahape, Navi Mumbai, Maharashtra				
Acc	reditation Standa	ard ISO/IEC 17025: 20	05				
Disc	ipline	Chemical Testing		Issue Date	08.12.2016		
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I.	WATER						
1.	Drinking Water/ Bore well Water/ Surface Water/ Swimming Pool Water/ Processed Water For Food Industry/ Construction Water	рН	IS 3025 (Part 11): 1983 (RA 2012)) 1 to 13 LOD: 1			
		Total Suspended Solids	IS 3025 (Part 17): 1984 (RA 2012) 1 mg/l to LOD: 1 m	20000 mg/l ng/l		
		Total Dissolved Solid	IS 3025 (Part 16): 1984 (RA 2012) 3 mg/l to LOD: 3 m	25000 mg/l ng/l		
		Total Solid	IS 3025 (Part 15): 1984 (RA 2014) 3 mg/l to LOD: 3 m	100000 mg/l ng/l		
		Dissolved Oxygen	IS 3025 (Part 38): 1989 (RA 2009)	Range: 0. LOD: 1.0 Titration	: 0 mg/l to 10.0mg/l		
		Chloride (as Cl)	IS 3025 (Part 32): 1988 (RA 2003)) Range: 1 LOD: 0.5	mg/l to 2,000 mg/l mg/l		
		Fluoride (as F)	APHA (22 nd Edition) 4500 FD: 20	12 Range: 0. LOD: 0.0	1 mg/l to 100 mg/l 5 mg/l		
		Nitrate (as NO ₃)	IS 3025 (Part 34): 1988 (RA 2009) Chromotropic Acid method) Range: 0. LOD: 0.1	l mg/l to 100 mg/l mg/l		
		Sulphate (as SO ₄)	IS 3025 (Part 24): 1986 (RA 2014) Range: 5 LOD: 0.3	mg/l to 100 mg/l mg/l		

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	Drinking Water/ Bore well Water/ Surface Water/ Swimming Pool Water/ Processed Water For Food	Cyanide (as CN)	APHA (22 nd Edition) 4500 CN D: 2012	Range: LOD: 1 Colorir Range:	1.0 mg/l to100 mg/l .0 mg/l		
	Industry/ Construction Water	Cyanide (as CN)	APHA (22 nd Edition) 4500 CN E: 2012	Range: LOD:0	0.1 mg/l to 1000 mg/l .1mg/l		
		Phosphorus (as P)	IS 3025 (Part 31): 1988 (RA 2009	0) Range: LOD:0	0.1 mg/l to 100 mg/l .1 mg/l		
		Phenols/ Phenolic compounds	IS 3025 (Part 43): 1992 (RA 2009		0.5 mg/l to 1000 mg/l).1 mg/l		
		Silica (as SiO ₂)	IS 3025 (Part 35): 1988 (RA 2009 Molybdosilicate Method		5 mg/l to 100 mg/l 0.3 mg/l		
		Ammonia (as NH ₃ -N)	IS 3025 (Part 34): 1988 (RA 2009	0) Range: LOD:0	0.5 mg/l to 500 mg/l .5 mg/l		
		Electrical Conductivity	APHA (22 nd Edition) 2520 B: 201	0	1 μs/cm to 20000 μs/cm .1 μs/cm		
		Turbidity	IS 3025 (Part 10): 1984 (RA 2012	2) Range: LOD: 1	1 NTU to 100 NTU NTU		
		Total Hardness (as CaCO ₃)	IS 3025 (Part 21): 2009	Range: LOD:1	1.0 mg/l to10000 mg/l mg/l		
		m -Alkalinity & p- Alkalinity (as CaCO ₃)	IS 3025 (Part 23): 1986 (RA 200	9) Range: LOD:0	0.5 mg/l to 5000 mg/l .5mg/l		

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		Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection			
	Drinking Water/ Bore well Water/ Surface Water/	Alkalinity (as CaCO ₃)	IS 3025 (Part 23): 1986 (RA 2009)) Range: 0. LOD: 0.5	5 mg/l to 5000 mg/l mg/l		
	Surface Water/ Swimming Pool Water/ Processed Water	Calcium (as Ca)	IS 3025 (Part 40): 1991 (RA 2014)) Range: 1. LOD:1 m	0 mg/l to1000 mg/l g/l		
	For Food Industry/ Construction	Magnesium (as Mg)	IS 3025 (Part 46): 1994 (RA 2009)) Range: 1. LOD:1 m	0 mg/l to1000 mg/l g/l		
	Water	Aluminum (as Al)	APHA (22 nd Edition) 3120, 3111 & 3030 E: 2012	MDL: 0.0 ICP-OES	: /l to 120 mg/l		
		Arsenic (as As)	APHA (22 nd Edition) 3120, 3114 & 3030 E: 2012	MDL: 0.0 ICP-OES	: /l to 10 mg/l		
		Barium (as Ba)	APHA (22 nd Edition) 3120, 3111 & 3030 E: 2012	MDL: 0.0 ICP-OES	: /l to 100 mg/l		
		Mercury (as Hg)	APHA (22 nd Edition) 3120, 3111 & 3030 E: 2012	MDL: 0.0 ICP-OES	: g/l to 1 mg/l		

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	Drinking water/ Borewell water/ Surface water/ Swimming Pool water/	Lead (as Pb)	APHA (22 nd Edition) 3120, 3111 & 3030 E: 2012	MDL: 0.0	:0.004 mg/l to 10 mg/l
	water/ Processed Water For Food Industry/ Construction Water	Cadmium (as Cd)	APHA (22 nd Edition) 3120, 3111 & 3030 E: 2012	MDL: 0.0 ICP-OES	: g/l to 5 mg/l
		Chromium (as Cr)	APHA (22 nd Edition) 3120, 3111 & 3030 E: 2012	MDL: 0.0 ICP-OES	: /l to 5 mg/l
		Copper (as Cu)	APHA (22 nd Edition) 3120, 3111 & 3030 E: 2012	MDL: 0.0 ICP-OES	: /l to 5 mg/l
		Zinc (as Zn)	APHA (22 nd Edition) 3120, 3111 & 3030 E: 2012	MDL: 0.0 ICP-OES	: /l to 5 mg/l
		Selenium (as Se)	APHA (22 nd Edition) 3120, 3114 & 3030 E: 2012	MDL: 0.0 ICP-OES	: /l to 5 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 / f Detection		
	Drinking Water/ Bore well Water/ Surface Water/ Swimming Pool Water/ Processed Water	Nickel (as Ni)	APHA (22 nd Edition) 3120, 3111 & 3030 E: 2012	MDL: 0.0 ICP-OES	: to 10 mg/l		
	For Food Industry/ Construction Water	Iron (as Fe)	APHA (22 nd Edition) 3120, 3111 & 3030 E: 2012	MDL: 0.1	: 0.006 mg/l to g/l		
		Vanadium (as V)	APHA (22 nd Edition) 3120, 3111 & 3030 E: 2012	MDL: 0.2 ICP-OES	: /l to 100 mg/l		
II.	POLLUTION & E	NVIRONMENT					
1.	Liquid Effluents (Effluent/ Waste Water)	Chemical Oxygen Demand (COD)	IS 3025 (Part 58): 2006 (RA 2012) Range: 1 LOD:10	0 mg/l to 15000 mg/l mg/l		
	water)	Biochemical Oxygen Demand (BOD)	IS 3025 (Part 44): 1993 (RA 2014) Range: 1 LOD: 1 r	mg/l to 20000 mg/l ng/l		
		рН	IS 3025 (Part 11): 1983 (RA 2012) Range: 1 LOD: 1	to 13		
		Total Suspended Solids	IS 3025 (Part 17): 1984 (RA 2012) Range: 1 LOD: 1 r	mg/l to 20000 mg/l ng/l		
		Total Dissolved Solid	IS 3025 (Part 16): 1984 (RA 2006) Range: 3 LOD: 3m	mg/l to 25000 mg/l g/l		

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	Liquid Effluents (Effluent/Waste Water)	Total Solid	IS 3025 (Part 15): 1984 (RA 2009)		mg/l to 100000 mg/l ng/l
	Water)	Oil & Grease	IS 3025 (Part 39): 1991 (RA 2014) Range: 1 LOD: 0.5	mg/l to 100mg/l mg/l
		Dissolved Oxygen	IS 3025 (Part 38): 1989 (RA2009)	Range:0.0 LOD: 1.0 Titration	0 mg/l to 10.0 mg/l
		Chloride (as Cl)	IS 3025 (Part 32): 1988 (RA 2014) Range: 1 LOD: 0.5	mg/l to 2000 mg/l mg/l
		Fluoride (as F)	APHA (22 nd Edition) 4500 FD: 2012	Range: 0. LOD:0.0	1 mg/l to 100 mg/l 5 mg/l
		Nitrate (as NO ₃)	IS 3025 (Part 34): 1988 (RA 2014 Chromotropic Acid method) Range: 0. LOD:0.1	1 mg/l to 1000 mg/l mg/l
		Sulphate (as SO ₄)	IS 3025 (Part 24): 1986 (RA 2014) Range: 5 LOD:0.3	mg/l to 5000 mg/l mg/l
		Cyanide (as CN)	APHA (22 nd Edition) 4500 CN D: 2012	Range: 1 LOD: 1.0 Colorime	tric 02 mg/l to 10 mg/l
		Phosphorus (as P)	IS 3025 (Part 31): 1988 (RA 2014) Range: 0. LOD:0.1	1 mg/l to 100 mg/l mg/l

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	Liquid Effluents (Effluent/Waste Water)	Phenols/Phenolic compounds	IS 3025 (Part 43): 1992 (RA 2014) Range: 0. LOD:0.1	5 mg/l to 100 mg/l mg/l		
		Silica (as SiO ₂)	IS 3025 (Part 35): 1988 (RA 2014 Molybdosilicate Method) Range: 1 LOD:0.5	mg/l to 2000 mg/l mg/l		
		Ammonia as NH3-N	IS 3025 (Part 34): 1988 (RA 2009) Range:0.: LOD:0.5	5 mg/l to 5000 mg/l mg/l		
		Total Kjeldahl Nitrogen	IS 3025 (Part 34): 1988 (RA 2014) Range: 5 LOD:0.5	mg/l to 5000 mg/l mg/l		
		Electrical Conductivity	APHA (22 nd Edition) 2520 B: 201	2 Range: 11 20000 ms LOD:0.1	s/cm		
		Sulphide (as S)	IS 3025 (Part 29): 1986 (RA 2014) Range: 1 LOD:0.04	mg/l to 1000 mg/l 4 mg/l		
		Alkalinity (as CaCO ₃)	IS 3025 (Part 23): 1986 (RA 2009) Range: 0. LOD:0.5	5 mg/l to 500 mg/l mg/l		
		Calcium (as Ca)	IS 3025 (Part 40): 1991 (RA 2009) Range: 1. LOD: 1 n	.0 mg/l to 1000 mg/l ng/l		
		Magnesium (as Mg)	IS 3025 (Part 46): 1994 (RA 2014) Range: 1. LOD: 1 n	0 mg/l to1000 mg/l ng/l		
		Aluminum (as Al)	APHA (22 nd Edition) 3120, 3111 & 3030 E: 2012	MDL: 0.0 ICP-OES	: /l to 120 mg/l		

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Liquid Effluents (Effluent/Waste Water)	Arsenic (as As)	APHA (22 nd Edition) 3120, 3114 & 3030 E: 2012	MDL: 0.0 ICP-OES	: /l to 10 mg/l		
	Barium (as Ba)	APHA (22 nd Edition) 3120, 3111 & 3030 E: 2012	MDL: 0.0 ICP-OES	: /l to 100 mg/l		
	Mercury (as Hg)	APHA (22 nd Edition) 3120, 3111 & 3030 E: 2012	MDL: 0.0 ICP-OES	g/l to 1 mg/l		
	Lead (as Pb)	APHA (22 nd Edition) 3120, 3111 & 3030 E: 2012	MDL: 0.0 ICP-OES	: /l to 10 mg/l		
	Cadmium (as Cd)	APHA (22 nd Edition) 3120, 3111 & 3030 E: 2012	MDL: 0.0 ICP-OES	: g/l to 5 mg/l		
	Chromium (as Cr)	APHA (22 nd Edition) 3120, 3111 & 3030 E: 2012	MDL: 0.0 ICP-OES	: /l to 5 mg/l		

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	Liquid Effluents (Effluent/Waste Water)	Copper (as Cu)	APHA (22 nd Edition) 3120, 3111 a 3030 E: 2012	MDL: 0 ICP-OE 0.006 m	01 mg/l to 5 mg/l .001 mg/l S: g/l to 5 mg/l 002 mg/l		
		Zinc (as Zn)	APHA (22 nd Edition) 3120, 3111 a 3030 E: 2012	MDL: 0 ICP-OE 0.003 m	01 mg/l to 5 mg/l .01 mg/l S: g/l to 5 mg/l 001 mg/l		
		Selenium (as Se)	APHA (22 nd Edition) 3120, 3114 a 3030 E: 2012	MDL: 0 ICP-OE 0.008 m	01 mg/l to 10 mg/l .01 mg/l S: g/l to 5 mg/l 008 mg/l		
		Nickel (as Ni)	APHA (22 nd Edition) 3120, 3111 a 3030 E: 2012	MDL: 0 ICP-OE	05 mg/l to 10 mg/l .01 mg/l S: 0.01 mg/l to 10 mg/l 0049 mg/l		
		Iron (as Fe)	APHA (22 nd Edition) 3120, 3111 a 3030 E: 2012	MDL: 0 ICP-OE 0.006 m			
		Vanadium (as V)	APHA (22 nd Edition) 3120, 3111 a 3030 E: 2012	MDL: 0 ICP-OE 0.003 m			

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2.	Solid Waste	Physical State	TTCWMA/IHM-01	Qualitativ	/e
		Colour	TTCWMA/IHM-02	Qualitativ	/e
		Texture	TTCWMA/IHM-03	Qualitativ	/e
		Specific Gravity/ Density	ASTM D 5057	Range: 0. LOD: 0.2	2 gm/cc to 2 gm/cc gm/cc
		Calorific Value	IS 1350 (Part 2): 1970 (RA 2015)	Range: 50 15000 ca LOD: 500	
		LOD @ 105°C	APHA (22 nd Edition) 2540 G: 201	2 Range: 0. LOD: 0.0	02 % to 100 % 2%
		LOI @ 550°C	APHA (22 nd Edition) 2540 G: 201	2 Range: 0. LOD: 0.0	02 % to 100% 2%
		PFLT	SW 846, USEPA 9095 B: 2004	Qualitativ	/e
		рН	SW 846, USEPA 9045 D: 2004	Range: 1 LOD: 1	to 13
		Chlorides (as Cl)	SW 846, USEPA 9253 & 5050: 1	994 Range: 20 30000 mg LOD:10 n	
		Sulphates (as SO ₄₎	SW 846, USEPA 9038: 1986	Range: 1 20000mg LOD: 1m	/kg
		Cyanide (as CN) Titrimetry	SW 846, USEPA 9014: 2014 & 9010C:2004	Titration 1 0 mg/kg LOD: 5 n	g to 2000 mg/kg

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Solid Waste	Cyanide (as CN) Colorimetry	APHA (22 nd Edition) 4500 CN E: 2012 & SW 846, USEPA 9010C:2004		tric Titration 02 mg/l to 0.2 mg/l 05 mg/l		
	Sulphide (as H ₂ S)	SW 846, USEPA 9034: 1996	Range: 4 10000 mg LOD: 4 m	/kg		
	Ammonia (as NH ₃ – N)	IS 3025 (Part 34): 1988 (RA 2009)	Range:2 r LOD: 1.4	ng/kg to 5000 mg/kg mg/kg		
	Phosphate (as PO ₄ - P)	APHA (22 nd Edition) 4500 PD: 201	2 Range: 0. 2000 mg/ LOD:0.5			
	Phenol/Phenolic Compounds	SW 846, USEPA 9065: 1986	Range: 5 LOD: 5 m	mg/kg to 2000 mg/kg ng/kg		
	Hexane Ext. Matter	SW 846, USEPA 9071 B: 1998	Range: 0. LOD: 0.0	01 % to 50% 1%		
	Sulphur (Elemental)	IS 3383: 1982 (RA 2014)	Range: 13 20000 mg LOD: 13			
	Flash Point	ASTM D 93 & SW846:1010	Range: 10 LOD: 10) °C to110 °C °C		
	Cadmium (as Cd)	SW 846, USEPA 7000 B: 2007 USEPA 1311: 1992	MDL: 1.5 (Leachate MDL: 0.0 ICP-OES 0.18 mg/k LOD: 0.0	3 mg/l) 3 g to 75 mg/kg		

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Solid Waste	Chromium (as Cr) Copper (as Cu)	SW 846, USEPA 7000 B: 2007 USEPA 1311: 1992 SW 846, USEPA 7000 B: 2007	MDL: 1.5 (Leachate MDL: 0.0 ICP-OES	e 03 mg/l) : g to 5000 mg/kg g mg/ kg e 002 mg/l)		
		USEPA 1311: 1992	5000 mg/ MDL: 10 (Leachate MDL: 0.2 ICP-OES	/kg mg/ kg 2 mg/l) : g to 5000 mg/kg mg/ kg		
	Lead (as Pb)	SW 846, USEPA 7000 B: 2007 USEPA 1311: 1992	AAS: 15 5000 mg/ MDL: 15 (Leachate MDL: 0.3 ICP-OES 1.2 mg/kg LOD: 0.4 (Leachate LOD: 0.0	/kg mg/kg 3 mg/l) : g to 5000 mg/kg mg/kg		

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Solid	Solid Waste	Aluminum (as Al)	SW 846, USEPA 7000 B: 2007 USEPA 1311: 1992	AAS: 2.5 mg/kg to 10000 mg/kg MDL: 2.5 mg/kg (Leachate MDL: 5.0 mg/l) ICP-OES: 0.54 mg/kg to 10000 mg/kg LOD: 0.18 mg/kg (Leachate LOD: 0.002 mg/l)			
		Iron (as Fe)	SW 846, USEPA 7000 B: 2007 USEPA 1311: 1992	AAS:10 r 50000 mg MDL: 10 (Leachate MDL: 0.2 ICP-OES 0.6 mg/kg LOD: 0.2 (Leachate LOD: 0.0	g/kg mg/kg 2 mg/l) ; g to 50000 mg/kg mg/ kg		
		Arsenic (as As)	SW 846, USEPA 7062: 1994, USEPA-1311:1992	MDL: 1 r (Leachate MDL: 0.0 ICP-OES	01 mg/l) : g to 50 mg/kg mg/kg		

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	Solid Waste	Cobalt (as Co)	SW 846, USEPA 7000 B: 2007 USEPA 1311: 1992	AAS: 10 100000 m MDL: 10 (Leachate MDL: 0.2 ICP-OES 0.6 mg/kg LOD: 0.2 (Leachate LOD: 0.0	ng/kg mg/kg 2 mg/l) : g to 100000 mg/kg mg/kg		
		Nickel (as Ni)	SW 846, USEPA 7000 B: 2007 USEPA 1311: 1992	AAS: 15 mg/kg to 250 mg/l MDL: 15 mg/kg (Leachate MDL: 0.3 mg/l) ICP-OES: 0.146 mg/kg to 250 mg/kg LOD: 0.05 mg/kg (Leachate LOD: 0.0049 mg/l)			
		Zinc (as Zn)	SW 846, USEPA 7000 B: 2007 USEPA 1311: 1992	100000 m MDL: 2.5 (Leachate MDL: 0.0 ICP-OES	5 mg/kg 5 mg/l) : g to 100000 mg/kg mg/kg		

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Solid Waste	Selenium (as Se)	SW 846, USEPA 7742: 1994 USEPA 1311: 1992	MDL: 1 r (Leachate MDL: 0.2 ICP-OES	2 mg/l) : g to 5 mg/kg mg/ kg		
	Vanadium (as V)	SW 846, USEPA 7000 B: 2007 USEPA 1311: 1992	AAS: 75 mg/kg to 1200 mg/ MDL: 25 mg/kg (Leachate MDL: 5.0 mg/l) ICP-OES: 0.3 mg/kg to 10000 mg/kg LOD: 0.1 mg/ kg (Leachate LOD: 0.001 mg/l)			
	Silver (as Ag)	SW 846, USEPA 7000 B: 2007 USEPA 1311: 1992	MDL: 1 r (Leachate ICP-OES 0.34 mg/k	MDL: 0.2 mg/l) ; gg to 125 mg/kg 11 mg/ kg		
	Barium (as Ba)	SW 846, USEPA 7000 B: 2007 USEPA 1311: 1992	MDL: 5 r (Leachate ICP-OES 0.309mg/ LOD: 0.1	MDL: 2 mg/l) : kg to 2500 mg/kg		

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Discipline		Chemical Testing	Chemical Testing		08.12.2016		
Certificate Number		T-2361		Valid Until	07.12.2018		
Last Amended on		09.12.2016	09.12.2016		16 of 16		
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection			
	Solid Waste	Mercury (as Hg)	SW 846, USEPA 7000 B: 2007 USEPA 1311: 1992	AAS: 1 mg/kg to 5 mg/kg MDL: 1 mg/kg (Leachate MDL: 0.005 mg/l) ICP-OES: 0.27 mg/kg to 5 mg/kg LOD: 0.09 mg/kg (Leachate LOD: 0.0009 mg/l)			