

Laboratory	Sneha Test House, No.8, 28 4th Cross Maruthinagar, Chandra Layout, Bangalore, Karnataka		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	04.07.2014
Certificate Number	T-3037	Valid Until	03.07.2016
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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
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I. AIR, GASES & ATMOSPHERE

1. Ambient Air Quality Monitoring	Respirable Suspended Particulate Matter Less than 10µm or PM10	IS:5182 (Part 23):2006	5 - 1000 µg/m ³
	Respirable Suspended Particulate Matter (less than 2.5µm or PM 2.5)	STH/SOP/5.4/1.5 (Issue Date 04-01-2013)	5 - 500 µg/m ³
	Sulphur Dioxide	IS: 5182 (Part 2):2001 (RA:2012)	5 - 400 µg/m ³
	Nitrogen Dioxide	IS: 5182 (Part 6):2006 (RA: 2012)	5 - 100 µg/m ³
2. Stack Emission Monitoring	Velocity & Volume of Gas discharge	IS: 11255 (Part 3):2008	1.5 – 60 m/s
	Particulate Matter	IS: 11255 (Part 1):1985 (RA:2012)	5- 1000 mg/Nm ³
	Sulphur Dioxide	IS: 11255 (Part 2):1985(RA: 2003)	5- 100 mg/Nm ³
	Nitrogen Dioxide	IS: 11255 (Part 7):2005(RA: 2012)	5- 100 mg/Nm ³
3. Noise Level Monitoring	Noise Level	IS: 9989: 1981	35-130 dB (A)

II. WATER

1. Potable and Domestic Water	Color	IS: 3025(part 4)-1983 RA 2002 Clause 2.0	2 to 500 hazen units
	Temperature	IS: 3025 (part9)-1984 RA 2002	Ambient to 60°C
	Turbidity, NTU	IS: 3025 (part10)-1984 RA 2002	0.5 to 1000NTU
	pH value	IS: 3025 (part11)-1983 RA 2002	1 to 10
	Electrical conductivity	IS: 3025 (part14)-1984 RA 2002	0.1 us/cm to 20mS/cm

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	Potable and Domestic Water	Total dissolved solids	IS: 3025 (part16)-1984 RA 2003 Edition 2.1 (2000 01)	10 to 5000mg/L
		Sulphate	APHA, 4500 SO4-F, 22 nd edition	1 to 500 mg/L
		Phosphorous	IS: 3025 (part31)-1988 RA 2003 clause 4.0	0.2 to 10 mg/L
		Residual free chlorine	IS: 3025 (part26)-1988 RA 2003 Edition 2.1 (2000-02) clause 3.0	1 to 50 mg/L
		Alkalinity as CaCO ₃	IS: 3025(Part22)-1986 RA 2003	2 to 500 mg/L
		Acidity	IS: 3025(Part23)-1986 RA 2003	1 to 500 mg/L
		Chloride	IS: 3025 (part32)-1984 RA 2003 clause 2.0	2 to 500 mg/L
		Ammonical nitrogen	IS: 3025 (part34)-1988 RA 2003 clause 2.5	0.4 to 100 mg/L
		Silica	IS: 3025 (part35)-1988 RA 2003 clause 3.0	0.2 to 1.3 mg/L
		Free ammonia	IS: 3025 (part34)-1988 RA 2003	0.5 to 10 mg/L
		Oxygen dissolved	IS: 3025 (part38)-1989 RA 2003 clause 4.0	1 to 500 mg/L
		Calcium (as Ca)	IS: 3025 (part40)-1991 RA 2003 clause 5.0 Edition 2.1 (2004-02)	1 to 100 mg/L
		Cadmium as Cd	IS: 3025 (part41)-1992 RA 2003 clause 5.0 AAS	0.05 to 0.1 mg/L
	Potassium as K	IS: 3025 (part41)-1992 RA 2003 Edition 2.1 Flame photometer	0.1 to 10mg/l	

John Varughese
Program Manager

Sumit Sundriyal

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	Potable and Domestic Water	Sodium (as Na)	IS: 3025 (part45)-1993 RA 2003 Edition 2.1 (2003-04) Flam photo meter	0.1 to 100 mg/L
		Magnesium (as Mg)	IS: 3025 (part46)-1994 RA 2003 Edition 2.1 (2003-04)	1 to 100 mg/L
		Lead (as Pb)	IS: 3025 (part47)-1994 RA 2003 clause 7.0 Edition 2.1 (2003-04)	1 to 2 mg/L
		Zinc (as Zn)	IS: 3025 (part49)-1994 RA 2003 clause 6.0 Edition 2.1 (2009-10)	0.1 to 0.3 mg/L
		Carbonates and bicarbonates (as CaCO ₃)	IS: 3025 (part51)-2001 clause 8.2 (a) by colour change	5 to 1000 mg/L
		Hexavalent chromium	APHA, 3500 Cr, B, 22 nd edition	0.01 to 100 mg/L
		Total chromium	IS: 3025 (part52)-2003 clause 7.0 AAS	2 to 10 mg/L
		Iron (as Fe)	IS: 3025 p(53) 2003 clause 6.0 UV method	0.01 to 10 mg/L
		Nickel (as Ni)	IS: 3025 (part 54)-2003	0.2 to 0.4 mg/L
		Aluminium (as Al)	IS: 3025 (part 55)-2003 clause 5.0 eriochrome cyanine - UV method	0.01 to 10 mg/L
		Total Hardness (as CaCO ₃)	IS: 3025 (part 21)-1983 RA 2002 Edition 2.1(20001)	1 to 500 mg/L
		Copper (as Cu)	IS: 3025 (part 42)-1992 RA 2003 clause 6.0 Edition 2.1 (2004-05) AAS	0.05 to 100 mg/l

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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
	Potable and Domestic Water	Manganese (as Mn)	APHA, 3500 Mn, B, 22 nd edition	0.1 to 1.5 mg/L
		Fluoride (as F)	APHA, 4500-F, 22 nd edition Spadns method	0.02 to 10 mg/L
2.	Waste Water	Color,	IS: 3025(part 4)-1983 RA 2002 Clause 2.0	2 to 500 hazen units
		Temperature	IS: 3025 (part9)-1984RA 2002	Ambient to 60°C
		Turbidity, NTU	IS: 3025 (part10)-1984 RA 2002	0.5 to 1000NTU
		pH value	IS: 3025 (part11)-1983 RA 2002	1 to 10
		Electrical conductivity	IS: 3025 (part14)-1984 RA 2002	0.1 us/cm to 20mS/cm
		Alkalinity as CaCO ₃	IS: 3025(Part22)-1986 RA 2003	2 to 500 mg/L
		Acidity	IS: 3025(Part23)-1986 RA 2003	1 to 500 mg/L
		Total dissolved solids	IS: 3025 (part16)-1984 RA 2003 Edition 2.1 (2000 01)	10 to 5000mg/L
		Total solids	IS: 3025 (part 15)-1984 RA 2003 Edition 2.1	1 to 500 mg/L
		Total suspended solids	IS: 3025(p-17)-1984 RA 2003 Edition 2.1(2000 01)	1-500mg/l
		Total volatile solids	IS: 3025 (part 18) 1984	1 to 500 mg/L
		Sulphate	APHA, 4500 SO4-F, 22 nd edition	1 to 500 mg/L
		Residual free chlorine	IS: 3025 (part26)-1986 RA 2003 Clause 3.0 Edition 2.1 (2000-02)	Under process
		Phosphorous	IS: 3025 (part31)-1988 RA 2003 Clause 4.0	0.2 to 10 mg/L

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	Waste Water	Chloride	IS: 3025 (part32)-1984 RA 2003	2 to 500 mg/L
		Ammonical nitrogen	IS: 3025 (part34)-1988 RA 2003 Clause 2.5	0.4 to 100 mg/L
		Free ammonia	IS: 3025 (part34)-1988 RA 2003	0.5 to 10 mg/L
		Calcium (as Ca)	IS: 3025 (part40)-1991 RA 2003 Clause 5.0 Edition 2.1 (2004-02)	1 to 100 mg/L
		Cadmium as Cd	IS: 3025 (part41)-1992 RA 2003 Clause 5.0 AAS	0.05 to 0.1 mg/L
		Copper (as Cu)	IS: 3025 (part42)-1992 RA 2003 Clause 6.0 Edition 2.1 (2004-05) AAS	0.01 to 0.2 mg/L
		Potassium as K	IS: 3025 (part45)-1993 RA 2003 Edition 2.1 Flame photo meter	1 to 10 mg/L
		Sodium (as Na)	IS: 3025 (part45)-1993 RA 2003 Edition 2.1 (2003-04) Flame photo meter	0.1 to 100 mg/L
		Magnesium (as Mg)	IS: 3025 (part46)-1994 RA 2003 Edition 2.1 (2003-04)	1 to 100 mg/L
		Lead (as Pb)	IS: 3025 (part47)-1994 RA 2003 Clause 7.0 Edition 2.1 (2003-04)	1 to 2 mg/L
		Zinc (as Zn)	IS 3025 (part49)-1994 RA 2003 Clause 6.0 Edition 2.1 (2009-10)	0.1 to 0.3 mg/L

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	Waste Water	Carbonates and bicarbonates (as CaCO ₃)	IS: 3025 (part51)-2001 Clause 8.2 (a) by colour change	5 to 1000 mg/L
		Hexavalent chromium	APHA, 3500 Cr, B, 22 nd edition	0.01 to 100 mg/L
		Total chromium ,	IS: 3025 (part52)-2003 Clause 7.0 AAS	2 to 10 mg/L
		Iron (as Fe)	IS: 3025/ p(53) 2003 Clause 6.0 UV method	0.01 to 10 mg/L
		Nickel (as Ni)	IS: 3025 (part 54)-2003	0.2 to 0.4 mg/L
		Aluminium (as Al)	IS: 3025 (part 55)-2003 Clause 5.0 Eriochrome cyanine UV method	0.01 to 10 mg/L
		Manganese (as Mn)	APHA, 3500 Mn, B, 22 nd edition	0.1 to 1.5mg/L
		Fluoride (as F)	APHA, 4500-F, 22 nd edition Spandns method	0.02 to 10 mg/L
		Biochemical oxygen demand	APHA, 5210, B, 22 nd edition	1 to 500 mg/L
		Chemical oxygen demand	APHA, 5220, B, 22 nd edition	1 to 500 mg/L
		Oil & Grease	IS: 3025 (part 39)-1991 RA 2003 Edition 2.1 (2004-05)	1 to 100 mg/L

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