

Laboratory	Laboratory Department, Envisafe Environment Consultants, 3rd Floor, Akash Ganga Complex, B/s. Suvidha Shopping Centre, Paldi, Ahmedabad, Gujarat		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	04.07.2014
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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
I.	WATER			
1.	Potable & Domestic Water Surface & Ground Water	Color	IS: 3025 (Part -4) : 1983 (1 st Revision) (Reaffirmed -1996) (Visual comparison Method) APHA & AWWA. 22 nd Ed. 2120 B. 2- 6, 7. (Visual comparison Method)	1-500 Pt. Co units 1-500 Hazen units
		Specific Conductance (Electrical Conductivity)	IS: 3025 (Part -14) : 1984 (1 st Revision) (Reaffirmed -1996) (Instrumental Method)	0.1- 1000 μ S/cm
		pH Value	IS: 3025 (Part – 11) : 1983 (1 st Revision) (Reaffirmed -1996) (Electrometric Method)	1-12
		Temperature	IS: 3025 (Part – 9) : 1984 (Reaffirmed -1996) (1st Revision) APHA & AWWA 22nd Ed., 2550 B. 2-69,70. (By Mercury filled Thermometer)	20– 60°C
		Turbidity	IS: 3025 (Part – 10) : 1984 (Reaffirmed -1996) APHA & AWWA. 22nd Ed., 2130 B. 2-13,14. (Nephelometric Method)	1- 100 NTU

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		Total Solids (Dissolved & Suspended)	IS: 3025 (Part – 15) : 1984 (1 st Revision) (Reaffirmed – 2003) APHA & AWWA. 22nd Ed. 2540 B. 2 -64. (Gravimetric Method)	5 –5000 mg/L
		Total Dissolved Solids	IS: 3025 (Part – 16) : 1984 (1 st Revision) (Reaffirmed – 2006) APHA & AWWA. 22nd Ed. 2540 C. 2 -65. (Gravimetric Method)	5 –5000 mg/L
		Total Suspended Solids	IS: 3025 (Part – 17) : 1984 (1 st Revision) (Reaffirmed – 1996) APHA & AWWA. 22nd Ed. 2540 D. 2 -66. (Gravimetric Method)	5 –5000 mg/L
		Inorganic Solids	IS: 3025 (Part -18) : 1984 (1 st Revision) (Reaffirmed – 2002) APHA & AWWA. 22nd Ed. 2540 E. 2 -67. (Gravimetric Method)	5 –5000 mg/L

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		Organic Solids	IS : 3025 (Part – 18) : 1984 (1 st Revision) (Reaffirmed – 2002) APHA & AWWA. 22nd Ed. 2540 E. 2 -67. (Gravimetric Method)	5 –5000 mg/L
		Total Hardness (as CaCO ₃)	IS-3025(Part-21) : 2009 (2 nd Revision) APHA & AWWA. 22nd Ed. 2340 C. 2 -44-46. (EDTA – Titrametric Method)	5 –5000 mg/L
		Calcium (as Ca)	IS: 3025 (Part – 40) : 1991 (1 st Revision/ 2.1) (2004-02) (Reaffirmed – 2003) APHA & AWWA. 22nd Ed. 3500 Ca – B. 3 – 67. (EDTA – Titrametric Method)	5 –5000 mg/L
		Magnesium (as Mg)	IS: 3025 (Part – 46) : 1994 (1 st Revision/ 2.2) (2003-03) (Reaffirmed – 1999) APHA & AWWA. 22nd Ed. 3500 – Mg – B. 3 – 84. (EDTA –Titrametric Method/ Calculation Method)	5 –5000 mg/L

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		Acidity (as CaCO ₃)	IS: 3025 (Part – 22) -1986 (1 st Revision) Indicator Method	5 –1000 mg/L
		Alkalinity (as CaCO ₃)	IS: 3025 (Part –23) -1986 (1 st Revision) (Reaffirmed – 2003) Indicator Method	5 –1000 mg/L
		Carbonate (as CO ₃) & Bicarbonate (as HCO ₃)	IS : 3025 (Part – 51) : 2001 (Calculation Method)	5 –500 mg/L
		Chemical Oxygen Demand	IS: 3025 (Part –58) : 2006 (1 st Revision) APHA &AWWA . 22nd Ed. 5220. B. 5- 17. (Open Reflux Method)	1 -1000 mg/L
		Biochemical Oxygen Demand	IS : 3025 (Part – 44) :1993 (1 st Revision) BOD 3- days at 27° C	1 –1000 mg/L
		Dissolved Oxygen	IS : 3025 (Part – 38) : 1989 APHA & AWWA. 22nd Ed. 4500 O – C, 4 – 139. (Iodometric Method –Azide Modification)	0.1 - 12 mg/L

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	Chloride		IS : 3025 (Part – 32) : 1988 (Reaffirmed – 2003) APHA & AWWA. 22nd Ed. 4500 Cl. B.4 –72. (Argentometric Method)	1 –5000 mg/L
	Sulphide		IS : 3025 (Part -29) 1986 (1 st Revision) (Reaffirmed – 1992/1998) APHA & AWWA. 22nd Ed. 4500 S ₂ F-4-178. (Iodometric Method)	0.1 -50 mg/L
	Sulphate		IS : 3025 (Part – 24) : 1986 (1 st Revision) (Reaffirmed–1992/1998) (Turbidity Method)	1 – 100 mg/L
	Phosphate		IS : 3025 (Part – 31) : 1988 (1 st Revision) (Reaffirmed – 2003) APHA & AWWA. 22nd Ed. 4500 P .D. 4 – 154. (Stannous Chloride Method)	0.3 –50 mg/L
	Nitrate Nitrogen		IS : 3025 (Part -34-3-B) : 1988 (Reaffirmed – 2003) (1 st Revision) (Chromotropic Acid Method) (Spectrophotometric Method)	0.1 –50 mg/L

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	Nitrite Nitrogen		IS : 3025 (Part -34-4-B) : 1988 (Reaffirmed – 2003) (1st Revision) (Spectrophotometric Method)	0.01 -50 mg/L
	Oil & Grease		IS : 3025 (Part – 39) : 1991 (1 st Revision) APHA & AWWA. 22nd Ed. 5520 – B. 5-40. (Partition Gravimetric Method)	1 –1000 mg/L
	Fluoride		IS : 3025 (Part – 60) : 2008 (1 st Revision) (Comparison Method)	0. 1 –10 mg/L
	Phenols		IS : 3025 (Part – 43) : 1992 (1 st Revision) (Spectro photo-metric Method)	0.001-10 mg/L
	Ammonical Nitrogen		IS : 3025 (Part -34 – 2- C) : 1988 (1 st Revision) (Reaffirmed 2003) APHA & AWWA. 22nd Ed. 4500 – NH ₃ , B & C.4 –110, 112 (Titrametric Method)	2-500 mg/L

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		Sodium	APHA & AWWA 3500 - Na 22nd Ed B. 3 -97. Flame Emission Photometric Method	2 - 5000 mg/L
		Potassium	APHA & AWWA 3500 – K 22nd Ed B. 3 -87. Flame Emission Photometric Method	2 - 5000 mg/L
2.	Waste Water	Specific Conductance (Electrical Conductivity)	IS : 3025 (Part -14) : 1984 (1 st Revision) (Reaffirmed -1996) (Instrumental Method)	0.1- 1000 µS/cm
		pH Value	IS : 3025 (Part - 11) : 1983 (1 st Revision) (Reaffirmed -1996) (Electrometric Method)	1-12
		Temperature	IS : 3025 (Part-9) : 1984 (Reaffirmed -1996) (1 st Revision) APHA & AWWA. 22nd Ed., 2550 B. 2 -69. (By Mercury filled Thermometer)	20°C – 60°C
		Turbidity	IS : 3025 (Part - 10) : 1984 (Reaffirmed -1996) APHA & AWWA. 22nd Ed., 2130 B. 2 -13,14. (Nephelometric Method)	1- 100 NTU

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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
		Total Solids (Dissolved & Suspended)	IS : 3025 (Part - 15) : 1984 (1 st Revision) (Reaffirmed - 2003) APHA & AWWA. 22nd Ed. 2540 B. 2 -65. (Gravimetric Method)	5 –5000 mg/L
		Total Dissolved Solids	IS : 3025 (Part - 16) : 1984 (1 st Revision) (Reaffirmed - 2006) APHA & AWWA. 22nd Ed. 2540 C. 2 -66.(Gravimetric Method)	5 –5000 mg/L
		Total Suspended Solids (Total Number filterable)	IS : 3025 (Part - 17) : 1984 (1 st Revision) (Reaffirmed - 1996) APHA & AWWA. 22nd Ed. 2540 D. 2 -67. (Gravimetric Method)	5 – 5000 mg/L
		Inorganic Solids	IS : 3025 (Part - 18) : 1984 (1 st Revision) (Reaffirmed - 2002) APHA & AWWA. 22nd Ed. 2540 E. 2 -67. (Gravimetric Method)	5 –5000 mg/L

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		Organic Solids	IS : 3025 (Part - 18) : 1984 (1 st Revision) (Reaffirmed - 2002) APHA & AWWA. 22nd Ed. 2540 E. 2 -67. (Gravimetric Method)	5 –5000 mg/L
		Calcium (as Ca)	IS: 3025 (Part – 40) : 1991 (1 st Revision/ 2.1) (2004-02) (Reaffirmed - 2003) APHA & AWWA. 22nd Ed. 3500 Ca – B. 3 – 67. (EDTA-Titrametric Method)	5 –5000 mg/L
		Total Hardness (as CaCO ₃)	IS: 3025(Part-21) : 2009 (2 nd Revision) APHA & AWWA. 22nd Ed. 2340 C. 2 -44. (EDTA - Titrametric Method)	5 –5000 mg/L
		Acidity (as CaCO ₃)	IS: 3025 (Part - 22) -1986 (1 st Revision) Indicator Method	5 –1000 mg/L
		Alkalinity (as CaCO ₃)	IS: 3025 (Part –23) -1986 (1st Revision) (Reaffirmed - 2003) Indicator Method	5 –1000 mg/L

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		Carbonate (as CO ₃) & Bicarbonate (as HCO ₃)	IS : 3025 (Part - 51) : 2001 (Calculation Method)	5 –500 mg/L
		Biochemical Oxygen Demand	IS : 3025 (Part - 44) : 1993 (1st Revision) BOD 3- days at 27° C	1 –1000 mg/L
		Magnesium (as Mg)	IS: 3025 (Part – 46) : 1994 (1 st Revision/ 2.2) (2003-03) (Reaffirmed - 1999) APHA & AWWA. 22nd Ed. 3500 – Mg - B. 3 – 84. (EDTA –Titrimetric Method/ Calculation Method)	5 –5000 mg/L
		Chemical Oxygen Demand	IS: 3025 (Part –58) : 2006 (1 st Revision) APHA & AWWA . 22nd Ed. 5220. B.5- 17. (Open Reflux Method)	1 -100000 mg/L
		Dissolved Oxygen	IS : 3025 (Part - 38) : 1989 APHA & AWWA. 22nd Ed. 4500 – C, 4– 139. (Iodometric Method -Azide Modification)	0.1 -12 mg/L

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	Chloride		IS : 3025 (Part - 32) : 1988 (Reaffirmed - 2003) APHA & AWWA. 22nd Ed. 4500 Cl. B.4 –72. (Argentometric Method)	1 –5000 mg/L
	Sulphide		IS : 3025 (Part - 29) 1986 (1 st Revision) (Reaffirmed – 1992/1998) APHA & AWWA. 22nd Ed. 4500 S ₂ F-4-178. (Iodometric Method)	0.1 -50 mg/L
	Sulphate		IS : 3025 (Part - 24) : 1986 (1 st Revision) (Reaffirmed – 1992/1998) (Turbidity Method)	1 – 100 mg/L
	Ammonical Nitrogen		IS : 3025 (Part -34 – 2- C) : 1988 (1 st Revision) (Reaffirmed 2003) APHA & AWWA. 22nd Ed. 4500 – NH ₃ , B & C.4 –110, 112 (Titrametric Method)	2-500 mg/L
	Phosphate		IS : 3025 (Part - 31) : 1988 (1 st Revision) (Reaffirmed - 2003) APHA & AWWA. 22nd Ed. 4500 P .D.4 - 154. (Stannous Chloride Method)	0.3 –50 mg/L

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	Nitrate Nitrogen		IS : 3025 (Part -34-3-B) : 1988 (Reaffirmed - 2003) (1 st Revision) (Chromotropic Acid Method) (Spectrophotometric Method)	0.1 –50 mg/L
	Fluoride		IS : 3025 (Part - 60) : 2008 (1 st Revision) (Comparision Method)	0. 1 –10 mg/L
	Phenols		IS : 3025 (Part - 43) : 1992 (1 st Revision) (Spectrophotometric Method)	0.001-10 mg/L
	Nitrite Nitrogen		IS : 3025 (Part -34-4-B) : 1988 (Reaffirmed - 2003) (1 st Revision) (Spectrophotometric Method)	0.01 -50 mg/L
	Oil & Grease		Clause 5 of IS : 3025 (Part - 39) : 1991 (1 st Revision) APHA & AWWA. 22nd Ed. 5520 – B. 5-40. (Partition Gravimetric Method)	1 –100 mg/L
	Sodium		APHA &AWWA 3500 - Na 22nd Ed B. 3 -97. Flame Emission Photometric Method	2 –5000 mg/L

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	Potassium	APHA&AWWA 3500 – K 22nd Ed B. 3 -87. Flame Emission Photometric Method	2 –5000 mg/L
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II. AIR, GASES & ATMOSPHERE

1. Air, gases & Atmosphere Ambient Air Monitoring	Respirable Suspended Particulate Matter (RSPM) (PM ₁₀)	IS 5182 (Part - 23) : 2006	4 – 500 µg/m ³
	Fine Particulate Matter (PM _{2.5})	Lab SOP No. SOP/Air/PM2.5. Based on CPCB Guidelines and Manufacture Manual (Issue Date:01.03.2011)	4 –200µg/m ³
	Sulphur Dioxide (SO ₂)	IS 5182 (Part - 2) : 2001, (Reaffirmed 2006) (Colorimetric Method (TCM))	4 –200 µg/m ³
	Oxides of Nitrogen (NO _x)	IS 5182 (Part – 6) : 1975 (Reaffirmed 1998) (Colorimetric (NEDA) method)	6 -50 µg/m ³
	Ammonia as NH ₃	Methods of Air Sampling and Analysis, 22nd Ed., Published By APHA Intersociety Committee, 401 - Indo phenol Method (PP. 511)	20 -700 µg/m ³

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	Chlorine as Cl ₂		IS: 5182 (Part-XIX) : 1982 Methyl orange Method,	10 -100 µg/m ³
	Chloride Content as Cl ⁻		Methods of Air Sampling and Analysis, Second Edition, Published By APHA Intersociety Committee, 201 (Page No.780)	18 -100 µg/m ³
	Bromine as Br ₂		Lab SOP No. SOP/Air/Br2 Based on CPCB Guidelines (Issue Date: 11.12.2012) Phenol Red Colorimetric Method	1.0 -100 µg/m ³
	Hydrogen Bromide as HBr		Lab SOP No. SOP/Air/HBr. Based on CPCB Guidelines (Issue Date: 11.12.2012) Phenol Red Colorimetric Method	1.0 µg/m ³ -100 µg/m ³
	Hydrogen Sulphide as H ₂ S		IS: 5182 (Part – VII) : 1973 N,N-dimethyl-p-phenylenediamine Colorimetric Method,	10 µ-600 µg/m ³
	Carbon Disulphide as CS ₂		IS: 5182 (Part XX) : 1982 Photometric Method,	600 -2100 µg/m ³
	Ozone as O ₃		IS: 5182 (Part - IX) : 1974 Photometric Method,	20 - 100 µg/m ³

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2.	Work Zone Monitoring*	Total VOCs as Isobutylene	SOP/Air/VOCs. Based on Electronic instrument with PID Sensor & Manufacture Manual (Issue Date: 15.02.2013)	0.001 - 20000 mg/m ³
3.	Stack Emission	Particulate Matter	IS: 11255 (Part 1): 1985, (Reaffirmed 2003) Method of Thimble Sampling Train,	1 -50 mg/ Nm ³
		Sulphur Dioxide as SO ₂	IS: 11255 (Part-2) 1985 Method for measurement of emission from stationary Sources	13–150 mg/Nm ³
		Oxides of Nitrogen as NO ₂	IS: 11255 (Part-7) 2005 Method for measurement of emission from stationary Sources	9 –100 mg/Nm ³
		Ammonia as NH ₃	IS: 11255 (Part 6): 1985, Reaffirmed 2003 Titrametric Method	5 –500 mg/Nm ³
		Chlorine as Cl ₂	Lab SOP No. SOP/STK/Cl ₂ . Based on CPCB Guidelines (Issue Date: 11.12.2012) Titrametric Method	5 - 500 mg/Nm ³

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		Hydrochloric Acid as HCl	Lab SOP No. SOP/STK/Br2. Based on CPCB Guidelines (Issue Date: 11.12.2012) Titrametric Method	5 -500 mg/Nm ³
		Bromine as Br ₂	Lab SOP No. SOP/STK/Br2. Based on CPCB Guidelines (Issue Date: 11.12.2012) Titrametric Method	5 -500 mg/Nm ³
		Hydrogen Bromide as HBr	Lab SOP No. SOP/STK/HBr. Based on CPCB Guidelines (Issue Date: 11.12.2012) Titrametric Method	5 -500 mg/Nm ³
		Carbon Disulphide as CS ₂	IS: 11255 (Part-4):1985 Titrametric Method,	5-5000 g/Nm ³
		Hydrogen Sulphide as H ₂ S	IS: 11255 (Part-4):1985 Titrametric Method,	5 -500 mg/Nm ³
		Oxygen as O ₂	IS: 13270-1992 (Reaffirmed 2003) ORSAT analysis,	1 to 12 %
		Carbon Dioxide as CO ₂	IS: 13270-1992 (Reaffirmed 2003) ORSAT analysis,	1 to 12 %

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III.	NOISE*	Noise Level Leqdb (A) Ambient	IS 9989 -1981	30 - 130 dB
		Noise Level Leqdb (A) Ambient (Source) D.G.Set	IS 4758-1968	30 - 130 dB
IV.	POLLUTION & ENVIRONMENT			
1.	Hazardous Waste	pH	SOP/HW/pH based on CPCB/LATs/16/2003 (Issue Date: 11.12.2012)	1 -12
		Conductivity	SOP/HW/Cond based on IS : 14767:2000 (Issue Date: 11.12.2012)	0.1 - 1.0 µs/cm
		Moisture Content	SOP/HW/LOD based on CPCB/LATs/16/2003 (Issue Date: 11.12.2012)	1- 60%
		Loss on Ignition at 550°C	Lab SOP No. SOP/HW/LOI based on CPCB/LATs/16/2003 (Issue Date: 11.12.2012)	1- 90%
		Organic Solids	SOP/HW/OS based on CPCB/LATs/16/2003 (Issue Date: 11.12.2012)	1- 90%

-X-X-X-X-X-X-X-X-X-X-X-

Note: *Only for Site Testing