

Laboratory Envitech, 614, 609, Ashwmegh Complex, Vadodara, Gujarat
 Accreditation Standard ISO/IEC 17025: 2005
 Certificate Number TC-7927 Page 1 of 4
 Validity 26.09.2018 to 25.09.2020 Last Amended on --

Sl.	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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CHEMICAL TESTING

I.	WATER			
1.	Ground Water & Surface Water & Potable Water	Color	APHA, 23rd Edition 2017/ 2120 -B	1 to 500 Pt-Co
		Total dissolved solids	APHA, 23rd Edition 2017/ 2540-C	10 mg/l to 10000 mg/l
		Total Suspended solids	APHA, 23rd Edition 2017/ 2540-D	10 mg/l to 1000 mg/l
		Total solids	APHA, 23rd Edition 2017/ 2540-B	10 mg/l to 10000 mg/l
		pH	IS 3025 (Part 11):1983 / RA 2017	2 to 12
		Electrical Conductivity	APHA, 23rd Edition 2017/2510-B	1 µS/cm to 200 mS/cm
		Total Hardness as CaCO ₃	APHA, 23rd Edition 2017/2340-C	2 mg/l to 2000 mg/l
		Calcium as Ca	APHA, 23rd Edition 2017/3500-Ca-B	0.8 mg/l to 400 mg/l
		Calcium as CaCO ₃	APHA, 23rd Edition 2017/3500-Ca-B	2 mg/l to 1000 mg/l
		Magnesium as Mg	APHA, 23rd Edition 2017/3500-Mg-B	0.6 mg/l to 230mg/l
		Magnesium as CaCO ₃	APHA, 23rd Edition 2017/3500-Mg-B	2 mg/l to 1000 mg/l
		Sodium Absorption Ratio	IS 11624 Edition 1986/ RA 2009	2 to 55
		Temperature	APHA, 23rd Edition 2017/2550B	10 to 70° C
		Ammonical Nitrogen as NH ₃ -N	APHA, 23rd Edition 2017/4500-NH3-B, C	1 mg/l to 100 mg/l
Chloride as Cl	IS 3025 (Part 32):1988 / RA 2014	1 mg/l to 2000 mg/l		

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		Sulphate as SO ₄	APHA, 23rd Edition 2017/4500- SO42- -E	1 mg/l to 1000 mg/l
		Sulphide	APHA, 23rd Edition 2017 /4500 S2- F	0.2 mg/l to 20 mg/l
		Phosphate as PO ₄	APHA, 23rd Edition 2017/ 4500- PD	0.02 mg/l to 50 mg/l
		Total Alkalinity as CaCO ₃	APHA, 23rd Edition 2017/2320-B	2 mg/l to 1000 mg/l
		Acidity as CaCO ₃	APHA, 23rd Edition 2017/2310-B	2 mg/l to 1000 mg/l
		Dissolved Oxygen (DO)	IS 3025 (Part 38):1989 / RA 2014	1.0 mg/l to 9.0 mg/l
		Sodium as Na	APHA, 23rd Edition 2017/3500-Na -B	1 mg/l to 1000 mg/l
		Potassium as K	APHA, 23rd Edition 2017/3500-K B	1 mg/l to 500 mg/l
		Bio Chemical Oxygen Demand @ 27 °C for 3 Days	IS 3025 (Part 44):1993 / RA 2014	2 mg/l to 500 mg/l
		Chemical Oxygen Demand	APHA, 23rd Edition 2017/ 5220-B	4 mg/l to 900 mg/l
		Oil & Grease	IS 3025 (Part 39):1991 / RA 2014	1 mg/l to 1000 mg/l
II.	POLLUTION & ENVIRONMENT			
1.	Waste Water / (Effluent/ Sewage) & Process Treated Water	Color	APHA, 23rd Edition 2017/ 2120 -B	1 to 500 Pt- Co
		Total dissolved solids	APHA, 23rd Edition 2017/ 2540-C	10 mg/l to 10000 mg/l
		Total Suspended solids	APHA, 23rd Edition 2017/ 2540-D	10 mg/l to 1000 mg/l
		Total solids	APHA, 23rd Edition 2017/ 2540-B	10 mg/l to 10000 mg/l
		pH	IS 3025 (Part 11):1983 / RA 2017	2 mg/l to 12

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		Electrical Conductivity	APHA, 23rd Edition 2017/2510-B	1 µS/cm to 200 mS/cm
		Total Hardness as CaCO ₃	APHA, 23rd Edition 2017/2340-C	2 mg/l to 2000 mg/l
		Calcium as Ca	APHA, 23rd Edition 2017/3500-Ca-B	0.8 mg/l to 400mg/l
		Calcium as CaCO ₃	APHA, 23rd Edition 2017/3500-Ca-B	2 mg/l to 1000 mg/l
		Magnesium as Mg	APHA, 23rd Edition 2017/3500-Mg-B	0.6 mg/l to 230mg/l
		Magnesium as CaCO ₃	APHA, 23rd Edition 2017/3500-Mg-B	2 mg/l to 1000 mg/l
		Sodium Absorption Ratio	IS 11624 Edition 1986 / RA 2009	2 to 55
		Temperature	APHA, 23rd Edition 2017/2550B	10°C to 70 °C
		Ammonical Nitrogen as NH ₃ -N	APHA, 23rd Edition 2017/4500-NH ₃ -B, C	1 mg/l to 100 mg/l
		Chloride as Cl	IS 3025 (Part 32):1988 / RA 2014	1 mg/l to 2000 mg/l
		Sulphate as SO ₄	APHA, 23rd Edition 2017/4500- SO ₄ ²⁻ - E	1 to 1000 mg/l
		Sulphide	APHA, 23rd Edition 2017/4500 S ₂ - F	0.2 mg/l to 20 mg/l
		Phosphate as PO ₄	APHA, 23rd Edition 2017/ 4500- PD	0.02 mg/l to 50 mg/l
		Total Alkalinity as CaCO ₃	APHA, 23rd Edition 2017/2320-B	2 mg/l to 1000 mg/l
		Acidity as CaCO ₃	APHA, 23rd Edition 2017/2310-B	2 mg/l to 1000 mg/l
		Dissolved Oxygen (DO)	IS 3025 (Part 38):1989 / RA 2014	1.0 mg/l to 9.0 mg/l
		Sodium as Na	APHA, 23rd Edition 2017/3500-Na –B	1 mg/l to 1000 mg/l
		Potassium as K	APHA, 23rd Edition 2017/3500-K B	1 mg/l to 500 mg/l

Nabo Gopal Roy
 Convenor

Avijit Das
 Program Manager

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		Chemical Oxygen Demand	APHA, 23rd Edition 2017/ 5220-B	4 mg/l to 90000 mg/l
		Oil & Grease	IS 3025 (Part 39):1991 / RA 2014	1 mg/l to 1000 mg/l

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