

**Laboratory** Green Envirosafe Engineers and Consultant Pvt. Ltd., Survey No. 1405/06, Mayuri Residency, Shop No. 16, 2nd Floor, Sanaswadi, Tal. Shirur, Pune, Maharashtra

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-8061

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**Validity** 03.11.2018 to 02.11.2020

**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.	<b>Drinking Water, Ground Water, Surface Water, Construction Water, Industrial Water, Irrigation Water, Water from Purifiers</b>	Turbidity	IS 3025 (Part 10): 1984 (RA 2017) Cl. 1	1 NTU to 100 NTU
		pH	APHA 4500 H <sup>+</sup> , A, 23 <sup>rd</sup> Ed.2017.	2 to 10
		Electrical Conductivity	IS 3025 (Part 14): 1984 (RA 2013)	1 µS/cm to 10000 µS/cm
		Total Dissolved Solids	IS 3025 (Part 16): 1984 (RA 2017)	10 mg/l to 2000 mg/l
		Total Solids	APHA 2540 B, 23 <sup>rd</sup> Ed.2017.	10 mg/l to 5000 mg/l
		Total Hardness as CaCO <sub>3</sub>	IS 3025 (Part 21): 2009 (RA 2014)	5 mg/l to 1000 mg/l
		Calcium as Ca	IS 3025 (Part 40): 1991 (RA 2014)	5 mg/l to 1000 mg/l
		Magnesium as Mg	IS 3025 (Part 46): 1994 (RA 2014)	1 mg/l to 1000 mg/l
		Total Alkalinity as CaCO <sub>3</sub>	IS 3025 (Part 23): 1986 (RA 2014)	5 mg/l to 1000 mg/l
		Chloride as Cl	IS 3025 (Part 32): 1988 (RA 2014)	5 mg/l to 2000 mg/l
		Sulphate as SO <sub>4</sub>	IS 3025 (Part 24): 1986 (RA 2014)	10 mg/l to 500 mg/l
		Fluoride as F	APHA 4500-F <sup>-</sup> D, 23 <sup>rd</sup> Ed. 2017	0.1 mg/l to 100 mg/l
		Ammonical Nitrogen as NH <sub>3</sub>	APHA 4500 NH <sub>3</sub> F, 23 <sup>rd</sup> Ed. 2017	0.1 mg/l to 100 mg/l
	Silica as Si	APHA 4500 SiO <sub>2</sub> C, 23 <sup>rd</sup> Ed. 2017	0.5 mg/l to 100 mg/l	

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		Acidity as CaCO <sub>3</sub>	IS 3025 (Part 22): 1986 (RA 2014) Rev.1	5 mg/l to 1000 mg/l
		Biochemical Oxygen Demand (BOD) 3 days at 27 °C	IS 3025 (Part 44): 1993 (RA 2014) Rev.1	1 mg/l to 100 mg/l
		Chemical Oxygen Demand (COD)	IS 3025 (Part 58): 2006 (RA 2017) Rev.1	5 mg/l to 200 mg/l
		Dissolved Oxygen	IS 3025 (Part 38): 1989 (RA 2014)	1 mg/l to 12 mg/l
		Nitrate as NO <sub>3</sub>	APHA 4500 NO <sub>3</sub> - B , 23 <sup>rd</sup> Ed.2017	1 mg/l to 100 mg/l
		Nitrite as NO <sub>2</sub>	IS 3025 (Part 34): 1988 (RA 2014) Rev.1, Cl. 3	0.05 mg/l to 10 mg/l
		Phosphate as PO <sub>4</sub>	APHA 4500 P-C , 23 <sup>rd</sup> Ed.2017	1 mg/l to 20 mg/l
		Chromium Hexavalent as cr6+	APHA 3111 B, 23 <sup>rd</sup> Ed.2017 (AAS)	0.05 mg/l to 10 mg/l
<b>II.</b>	<b>POLLUTION &amp; ENVIRONMENT</b>			
<b>1.</b>	<b>Effluent, Waste Water, Sewage Water</b>	pH	APHA 4500 H <sup>+</sup> , A, 23 <sup>rd</sup> Ed. 2017	2 Units to 12 Units
		Electrical Conductivity	APHA 2510, B, 23 <sup>rd</sup> Ed. 2017	1 µS/cm to 10000 µS/cm
		Total Dissolved Solids	IS 3025 (Part 16): 1984 (RA 2017)	20 mg/l to 50,000 mg/l
		Total Solids	APHA 2540 B, 23 <sup>rd</sup> Ed. 2017	20 mg/l to 100000 mg/l
		Chloride as Cl	IS 3025 (Part 32): 1988 (RA 2014)	10 mg/l to 10,000 mg/l
		Sulphate as SO <sub>4</sub>	IS 3025 (Part 24): 1986 (RA 2014)	20 mg/l to 1000 mg/l

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		Ammonical Nitrogen as NH <sub>3</sub>	APHA 4500 NH <sub>3</sub> F, 23 <sup>rd</sup> Ed.2017	0.5 mg/l to 100 mg/l
		Fluoride as F	APHA 4500-F <sup>-</sup> D, 23 <sup>rd</sup> Ed.2017	0.5 mg/l to 100 mg/l
		Biochemical Oxygen Demand (BOD) 3 days at 27 °C	IS 3025 (Part 44): 1993 (RA 2014) Rev.1	5 mg/l to 1000 mg/l
		Chemical Oxygen Demand (COD)	IS 3025 (Part 58): 2006 (RA 2017) Rev.1	20 mg/l to 5000 mg/l
		Dissolved Oxygen	IS 3025 (Part 38): 1989 (RA 2014)	1 mg/l to 10 mg/l
		Chromium Hexavalent as cr6+	APHA 3111 B, 23 <sup>rd</sup> Ed.2017 (AAS)	0.05 mg/l to 10 mg/l
		Phosphate as PO <sub>4</sub>	APHA 4500 P-C, 23 <sup>rd</sup> Ed.2017	5 mg/l to 1000 mg/l
<b>II.</b>	<b>SOIL AND ROCK</b>			
<b>1.</b>	<b>Soil</b>	pH	IS 2720 (Part 26): 1987 (RA 2011) Rev. 2	2 to 12
		Electrical Conductivity	IS 14767:2000 (RA 2016)	10 μS/cm to 10000 μS/cm
		Organic Matter	IS 2720 (Part 22): 1972 Rev.1, 2015	0.1 % to 3.5 %