

Laboratory **Eco Earth Technologies (Analytical Laboratory Division), Plot No. 5902/1, GIDC Industrial Estate, Ankleshwar, Dist. Bharuch, Gujarat**

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

Certificate Number **TC-7653**

Page 1 of 6

Validity **06.08.2018 to 05.08.2020**

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
-----	----------------------------	-------------------------	---	--

**CHEMICAL TESTING**

I.	WATER			
1.	Ground Water, Surface Water, Portable Water, Drinking Water	Color	IS 3025 (Part 4), APHA 2120 -B	1 Hazen to 100 Hazen
		Turbidity	IS 3025 (Part 10), APHA 2130-B	1 NTU to 1000 NTU
		Total Dissolved Solids	IS 3025 (Part 16), APHA 2540-C	5.0 mg/L to 10000 mg/L
		Total Suspended Solids	IS 3025 (Part 17) APHA 2540-D	10 mg/L to 1000 mg/L
		Total Solids	IS 3025 (Part 15) APHA 2540-B	10 mg/L to 10000 mg/L
		pH	IS 3025 (Part 11) APHA 4500-H+ B	1 to 12
		Electrical Conductivity	IS 3025 (Part 14) APHA 2510-B	1 µS/cm to 200 mS/cm
		Total Hardness as CaCO <sub>3</sub>	IS 3025 (Part 21) APHA 2340-C	2 mg/L to 2000 mg/L
		Iron as Fe	IS 3025 (Part 53) APHA 3500-Fe-B	0.1 mg/L to 50 mg/L
		Calcium as Ca	IS 3025 (Part 40) APHA 3500-Ca-B	1 mg/L to 1000 mg/L
		Magnesium as Mg	IS 3025 (Part 46) APHA 3500-Mg-B	1 mg/L to 1000 mg/L
		Temperature	IS 3025 (Part 9)	10 °C to 700 °C
		Ammonical Nitrogen as NH <sub>3</sub> N	IS 3025 (Part 34) APHA 4500-NH <sub>3</sub> -B, C	1 mg/L to 100 mg/L
	Total Kjeldhal Nitrogen as N	IS 3025 (Part 34) APHA 4500-N <sub>org</sub> -A,B	1 mg/L to 100 mg/L	
	Chloride as Cl	IS 3025 (Part 32) APHA 4500 Cl- B	20 mg/L to 2000 mg/L	

**Pankaj Goyal**  
Convenor

**Jitendra B. Vispute**  
Program Manager

Laboratory **Eco Earth Technologies (Analytical Laboratory Division), Plot No. 5902/1, GIDC Industrial Estate, Ankleshwar, Dist. Bharuch, Gujarat**

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

Certificate Number **TC-7653**

Page 2 of 6

Validity **06.08.2018 to 05.08.2020**

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
		Sulphate as SO <sub>4</sub>	IS 3025 (Part 24) APHA 4500-SO <sub>4</sub> <sup>2-</sup> -4500-SO <sub>4</sub> <sup>2-</sup>	10 mg/L to 1000 mg/L
		Residual Chlorine	IS 3025 (Part 26) APHA, 4500-Cl-B	1 mg/L to 20 mg/L
		Phosphate as PO <sub>4</sub>	IS 3025 (Part 31) APHA 4500PD	0.02 mg/L to 50 mg/L
		Silica as SiO <sub>2</sub>	IS 3025 (Part 35) APHA 4500-C	1 mg/L to 25 mg/L
		Total Alkalinity as CaCO <sub>3</sub>	IS 3025 (Part 23) APHA 2320-B	2 mg/L to 1000 mg/L
		Boron as B	IS 3025 (Part 57) APHA 4500-B-C	0.5 mg/L to 10 mg/L
		Fluoride as F <sup>-</sup>	IS 3025 (Part 60) APHA 4500-F <sup>-</sup> - B, D	0.1 mg/L to 10 mg/L
		Dissolved Oxygen (DO)	IS 3025 (Part 38) APHA 4500-B & C	1.0 mg/L to 10.0 mg/L
		Sodium as Na	IS 3025 (Part 45) APHA 3500-Na -B	1 mg/L to 1,000 mg/L
		Potassium as K	IS 3025 (Part 45) APHA 3500-K B	1 mg/L to 500 mg/L
		Hexavalent Chromium as Cr <sup>+6</sup>	IS 3025(Part 52) APHA 3500 Cr B	0.1 mg/L to 20 mg/L
		Bio Chemical Oxygen @ 27 °C for 3 Days	IS 3025 (Part 44)	5 mg/L to 500 mg/L
		Bio Chemical Oxygen @ 20 °C for 5 Days	APHA 5210- B	5 mg/L to 500 mg/L
		Chemical Oxygen Demand	IS 3025 (Part 58) APHA 5220-C	4 mg/L to 25,000 mg/L
<b>II.</b>	<b>POLLUTION &amp; ENVIRONMENT</b>			
<b>1.</b>	<b>Waste Water (Effluent/Sewage)</b>	Turbidity	IS 3025 (Part 10) APHA 2130-B	1 NTU to 1000 NTU

**Laboratory** Eco Earth Technologies (Analytical Laboratory Division), Plot No. 5902/1, GIDC Industrial Estate, Ankleshwar, Dist. Bharuch, Gujarat

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

**Certificate Number** TC-7653

Page 3 of 6

**Validity** 06.08.2018 to 05.08.2020

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
		Total Dissolved Solids	IS 3025 (Part 16) APHA 2540-C	10 mg/L to 10000 mg/L
		Total Suspended Solids	IS 3025 (Part 17) APHA 2540-D	10 mg/L to 1000 mg/L
		Total Solids	IS 3025 (Part 15) APHA 2540-B	5.0 mg/L to 10000 mg/L
		pH	IS 3025 (Part 11) APHA 4500-H <sup>+</sup> B	1 to 12
		Electrical Conductivity	IS 3025 (Part 14) APHA 2510-B	1 µS/cm to 200 mS/cm
		Total Hardness as CaCO <sub>3</sub>	IS 3025 (Part 21) APHA 2340-C	2 mg/L to 2000 mg/L
		Iron as Fe	IS 3025 (Part 53) APHA 3500-Fe-B	0.1 mg/L to 50 mg/L
		Calcium as Ca	IS 3025 (Part 40) APHA 3500-Ca-B	1 mg/L to 1000 mg/L
		Magnesium as Mg	IS 3025 (Part 46) APHA 3500-Mg-B	1 mg/L to 1000 mg/L
		Temperature	IS 3025 (Part 9)	10 °C to 700 °C
		Ammonical Nitrogen as NH <sub>3</sub> N	IS 3025 (Part 34) APHA 4500-NH <sub>3</sub> -B, C	1 mg/L to 100 mg/L
		Total Kjeldahl Nitrogen as N	IS 3025 (Part 34) APHA 4500-Norg-A, B	1 mg/L to 100 mg/L
		Chloride as Cl	IS 3025 (Part 32) APHA 4500 Cl <sup>-</sup> B	20 mg/L to 2000 mg/L
		Sulphate as SO <sub>4</sub>	IS 3025 (Part 24) APHA 4500-SO <sub>4</sub> <sup>2-</sup> -4500-SO <sub>4</sub> <sup>2-</sup>	1 mg/L to 1000 mg/L
		Residual Chlorine	IS 3025 (Part 26) APHA 4500-Cl <sup>-</sup> B	1 mg/L to 20 mg/L
		Phosphate as PO <sub>4</sub>	IS 3025 (Part 31) APHA 4500PD	0.02 mg/L to 50 mg/L
		Silica as SiO <sub>2</sub>	IS 3025 (Part 35) APHA 4500-C	1 mg/L to 25 mg/L

**Pankaj Goyal**  
Convenor

**Jitendra B. Vispute**  
Program Manager

**Laboratory** Eco Earth Technologies (Analytical Laboratory Division), Plot No. 5902/1, GIDC Industrial Estate, Ankleshwar, Dist. Bharuch, Gujarat

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

**Certificate Number** TC-7653

Page 4 of 6

**Validity** 06.08.2018 to 05.08.2020

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
		Total Alkalinity as CaCO <sub>3</sub>	IS 3025 (Part 23) APHA 2320-B	2 mg/L to 1000 mg/L
		Acidity as CaCO <sub>3</sub>	IS 3025 (Part 22) APHA 2310-B	2 mg/L to 1000 mg/L
		Boron as B	IS 3025 (Part 57) APHA 4500-B-C	0.5 mg/L to 10 mg/L
		Fluoride as F <sup>-</sup>	IS 3025 (Part 60) APHA 4500-F- B, D	0.1 mg/L to 5 mg/L
		Dissolved Oxygen (DO)	IS 3025 (Part 38) APHA 4500-B & C	1.0 mg/L to 10.0 mg/L
		Sodium as Na	IS 3025 (Part 45) APHA 3500-Na-B	1 mg/L to 1,000 mg/L
		Potassium as K	IS 3025 (Part 45) APHA 3500-K B	1 mg/L to 500 mg/L
		Hexavalent Chromium as Cr <sup>+6</sup>	IS 3025 (Part 52) APHA 3500 Cr B	0.1 mg/L to 20 mg/L
		Bio Chemical Oxygen @ 27 °C for 3 Days	IS 3025 (Part 44)	5 mg/L to 500 mg/L
		Bio Chemical Oxygen @ 20 °C for 5 Days	APHA 5210- B	5 mg/L to 500 mg/L
		Chemical Oxygen Demand	IS 3025 (Part 58) APHA 5220-C	4 mg/L to 25,000 mg/L
		Oil & Grease	IS 3025 (Part 39) APHA 5520 B	1 mg/L to 100 mg/L
<b>2.</b>	<b>Soil/ Sediment</b>	Organic Matter	IS 2720 (Part 22)	0.1 % to 30 %
		Organic Carbon	IS 2720 (Part 22)	0.1 % to 30 %
		Bulk Density	IS 2720 (Part 8)	1.0 gm/cc to 2.0 gm/cc
		Potassium as K	EET-TEST-SOIL-P-01 Issue No.01, Issue Date 05.07.2018	10 mg/kg to 1000 mg/kg
		Available Phosphorous as P	EET-TEST-SOIL-P-01 Issue No.01, Issue Date 05.07.2018	5 kg/hac to 100 kg/hac

Laboratory **Eco Earth Technologies (Analytical Laboratory Division), Plot No. 5902/1, GIDC Industrial Estate, Ankleshwar, Dist. Bharuch, Gujarat**

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

Certificate Number **TC-7653**

Page 5 of 6

Validity **06.08.2018 to 05.08.2020**

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
		Sodium as Na	EET-TEST-SOIL-Na-01 Issue No.01, Issue Date 05.07.2018	10 mg/kg to 1000 mg/kg
		Available Chlorides as Cl <sup>-</sup>	EET-TEST-SOIL-Cl-01, Issue No.01, Issue Date 05.07.2018	2.0 mg/kg to 1000 mg/kg
		Available Calcium as Ca	EET-TEST-SOIL-Ca-01, Issue No.01, Issue Date 05.07.2018	5 mg/kg to 10,000 mg/kg
		Available Magnesium as Mg	EET-TEST-Mg-01 Issue No.01, Issue Date 05.07.2018	5 mg/kg to 5000 mg/kg
		pH	IS 2720 (Part 26)	2 to 12
		Electrical Conductivity	IS 14767:2000	1 µmhos/cm to 1000 µmhos/cm
		Available Nitrogen as N	IS 14684:1999	5 kg/hac to 1000 kg/hac
<b>III.</b>	<b>ATMOSPHERIC POLLUTION</b>			
<b>1.</b>	<b>Stack Emission</b>	Particulate Matter as PM	IS 11255 (Part 1)	10 mg/Nm <sup>3</sup> to 1000 mg/Nm <sup>3</sup>
		Sulphur Dioxide as SO <sub>2</sub>	IS 11255 (Part 2)	5 mg/Nm <sup>3</sup> to 500 mg/Nm <sup>3</sup>
		Nitrogen Dioxide as NO <sub>2</sub>	IS 11255 (Part 7)	5 mg/Nm <sup>3</sup> to 500 mg/Nm <sup>3</sup>
<b>2.</b>	<b>Ambient Air</b>	PM 10	IS 5182 (Part 23)	10 µg/m <sup>3</sup> to 1000 µg/m <sup>3</sup>
		PM 2.5	EET-TEST-AAQM-PM <sub>2.5</sub> -01 Issue No.01, Issue Date 10.08.2017	10 µg/m <sup>3</sup> to 200 µg/m <sup>3</sup>
		Sulphur Dioxide as SO <sub>2</sub>	IS 5182 (Part 2)	5 µg/m <sup>3</sup> to 100 µg/m <sup>3</sup>
		Nitrogen Dioxide as NO <sub>2</sub>	IS 5182 (Part 6)	5 µg/m <sup>3</sup> to 100 µg/m <sup>3</sup>

**Laboratory** Eco Earth Technologies (Analytical Laboratory Division), Plot No. 5902/1, GIDC Industrial Estate, Ankleshwar, Dist. Bharuch, Gujarat

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

**Certificate Number** TC-7653

Page 6 of 6

**Validity** 06.08.2018 to 05.08.2020

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
3.	Ambient Noise Level	Noise Monitoring	IS 9989	30 dB(A) to 130 dB(A)
4.	Source Noise Level	Noise Monitoring	IS 9989	30 dB(A) to 130 dB(A)

---

Pankaj Goyal  
Convenor

---

Jitendra B. Vispute  
Program Manager