

Laboratory **Envirogreen Consultants (India) Pvt. Ltd., 1-B, Machhla Magra, Patel Circle, Udaipur, Rajasthan**

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

Certificate Number **TC-7819 (in lieu of T-3093)**

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Validity **22.08.2018 to 21.08.2020**

Last Amended on **30.08.2018**

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

AT LABORATORY				
<b>I.</b>	<b>ATMOSPHERIC POLLUTION</b>			
<b>1.</b>	<b>Ambient Air</b>	SPM	IS 5182 (Part 4)	50 µg/m <sup>3</sup> to 1000 µg/m <sup>3</sup>
		Particulate Matters PM <sub>10</sub>	IS 5182 (Part 23)	10 µg/m <sup>3</sup> to 200 µg/m <sup>3</sup>
		Particulate Matters PM <sub>2.5</sub>	40 CFR-Part-49-50 USEPA-Appendix LA (EGCIPL/Lab/Air/002)	10 µg/m <sup>3</sup> to 250 µg/m <sup>3</sup>
		Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (Part 2)	3 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup>
		Oxides of Nitrogen (NO <sub>x</sub> )	IS 5182 (Part 6)	6 µg/m <sup>3</sup> to 750 µg/m <sup>3</sup>
<b>2.</b>	<b>Stack Emission</b>	Particulate Matter	IS 11255 (Part 1)	5 mg/Nm <sup>3</sup> to 400 mg/Nm <sup>3</sup>
		Oxides of Nitrogen NO <sub>x</sub>	IS 11255 (Part 7)	4 mg/Nm <sup>3</sup> to 400 mg/Nm <sup>3</sup>
		Sulphur Dioxide SO <sub>2</sub>	IS 11255 (Part 2)	4 mg/Nm <sup>3</sup> to 400 mg/Nm <sup>3</sup>
<b>II.</b>	<b>WATER</b>			
<b>1.</b>	<b>Surface Water/ Ground Water/ Drinking Water</b>	pH	IS 3025 (Part 11) Clause 2.0 (Electrometric method)	1 to 12
		Color	IS 3025 (Part 4) Clause 2.0 Platinum Cobalt (Visual Comparison Method)	5 Color Units to 500 Color Units
		Electric conductivity	IS 3025 (Part 14) (Conductivity Meter Method)	1 µs/cm to 2000 µs/cm
		Turbidity	IS 3025 (Part 10) (nephelometric method)	1 NTU to 1000 NTU
		Total solids	IS 3025 (Part 15) (gravimetric method)	5 mg/l to 1000 mg/l
		Total suspended solids	IS 3025 (Part 17) (gravimetric method)	5 mg/l to 100 mg/l

**Pooja Singh**  
Convenor

**Jitendra B. Vispute**  
Program Manager

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		Total dissolve solids	IS 3025 (Part 16)	5 mg/l to 5000 mg/l
		Calcium (as Ca <sup>2+</sup> )	IS 3025 (Part 40) Clause 5.0 (EDTA method)	2 mg/l to 1000 mg/l
		Magnesium (as Mg <sup>2+</sup> )	IS 3025 (part 46) Clause 6.63 (EDTA method)	2 mg/l to 1000 mg/l
		Total hardness (as CaCO <sub>3</sub> )	IS 3025 (Part 21) (EDTA method)	2 mg/l to 2000 mg/l
		Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (Part 23) Clause 8.1 (indicator method)	10 mg/l to 1000 mg/l
		Chlorides (as Cl <sup>-</sup> )	IS 3025 (Part 32) Clause 2.0(Argentometric method)	5 mg/l to 2000 mg/l
		Chromium–Hexavalent (as Cr <sup>6+</sup> )	IS 3025 (Part 52) Clause 6.0 (Diphenylcarbazide method)	0.03 mg/l to 20mg/l
		Residual chlorine	IS 3025: (Part26) Clause 3.0 (Iodometric Method)	1 mg/l to 100 mg/l
		BOD (Biochemical Oxygen Demand)	IS 3025 (Part 44)	2 mg/l to 100 mg/l
		COD (Chemical Oxygen Demand)	IS 3025 (Part 58)	4 mg/l to 400 mg/l
		DO (Dissolve Oxygen)	IS 3025 (Part 38)	1 mg/l to 12 mg/l
		Fluoride (as F <sup>-</sup> )	IS 3025 (Part 60) Clause 5.0 (Zirconiumalizarin method)	0.1 mg/l to 10 mg/l
		Iron (as Fe <sup>2+</sup> )	IS 3025 (Part 53) Clause 7.0 (Atomic Absorption method)	0.2 mg/l to 10 mg/l
		Phosphate (as P)	IS 3025 (Part 31) Clause 3.0 (Vanadomolybdo Phosphoric method)	0.2 mg/l to 100 mg/l

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		Sulphate (as SO <sub>4</sub> )	IS 3025 (Part 24) Clause 4.0 (Turbidity method)	1 mg/l to 400 mg/l
		Oil & Grease	IS 3025 (Part 39) Clause 5.0 (Partition Gravimetric method)	5 mg/l to 100 mg/l
		Sodium as Na	IS 3025 (Part 45) Clause 5.0 (Flame Photometry method)	1 mg/l to 1000 mg/l
		Potassium as K	IS 3025 (Part 45) Clause 5.0 (Flame Photometry method)	1 mg/l to 1000 mg/l
	<b>Trace Metal Elements</b>			
	<b>Surface Water/ Ground Water/ Drinking Water</b>	Copper (as Cu)	IS 3025 (Part 42) Clause 6.0 (Atomic Absorption method)	0.1 mg/l to 100 mg/l
		Cadmium (as Cd)	IS 3025 (Part 41) Clause 5.0 (Atomic Absorption method)	0.05 mg/l to 50 mg/l
		Lead (as Pb)	IS 3025 (Part 47) Clause 7.0 (Atomic Absorption method)	0.5 mg/l to 50 mg/l
		Zinc (as Zn)	IS 3025 (Part 49) Clause 5.0 (Atomic Absorption method)	0.05 mg/l to 100 mg/l
<b>2.</b>		<b>Construction - Water/ Irrigation Water</b>	pH	IS 3025 (Part 11) Clause 2.0 (Electro metric method)
	Color		IS 3025 (Part 4) Clause 2.0 Platinum Cobalt (Visual Comparison Method)	5 Color Units to 500 Color Units
	Electric conductivity		IS 3025 (Part 14) (conductivity meter method)	1 µs/cm to 2000 µs/cm
	Turbidity		IS 3025 (Part 10) (nephelometric method)	1 NTU to 1000 NTU

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		Total solids	IS 3025 (Part 15) (gravimetric method)	5 mg/l to 1000 mg/l
		Total suspended solids	IS 3025 (Part 17) (gravimetric method)	5 mg/l to 100 mg/l
		Total dissolve solids	IS 3025 (Part 16)	5 mg/l to 5000 mg/l
		Calcium (as Ca <sup>2+</sup> )	IS 3025 (Part 40) Clause 5.0 (EDTA method)	2 mg/l to 1000 mg/l
		Magnesium (as Mg <sup>2+</sup> )	IS 3025 (Part 46) Clause 6.63 (EDTA method)	2 mg/l to 1000 mg/l
		Total hardness (as CaCO <sub>3</sub> )	IS 3025 (Part 21) (EDTA method)	2 mg/l to 2000 mg/l
		Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (Part 23) Clause 8.1(indicator method)	10 mg/l to 1000 mg/l
		Chlorides (as Cl <sup>-</sup> )	IS 3025 (Part 32) Clause 2.0 (Argentometric method)	5 mg/l to 2000 mg/l
		Chromium–Hexavalent (as Cr <sup>6+</sup> )	IS 3025 (Part 52) Clause 6.0 (Diphenylcarbazide method)	0.03 mg/l to 20 mg/l
		Residual chlorine	IS 3025: (Part26) Clause 3.0(Iodometric Method)	1 mg/l to 100 mg/l
		BOD (Biochemical Oxygen Demand)	IS 3025 (Part 44)	2 mg/l to 100 mg/l
		COD (Chemical Oxygen Demand)	IS 3025 (Part 58)	4 mg/l to 400 mg/l
		DO (Dissolve Oxygen)	IS 3025 (Part 38)	1 mg/l to 12 mg/l
		Fluoride (as F <sup>-</sup> )	IS 3025 (Part 60) Clause 5.0 (Zirconiumalizarin method)	0.1 mg/l to 10 mg/l
		Iron (as Fe <sup>2+</sup> )	IS 3025 (Part 53) Clause 7.0 (Atomic Absorption method)	0.2 mg/l to 10 mg/l

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		Phosphate (as P)	IS 3025 (Part 31) Clause 3.0 (Vanadomolybdo Phosphoric method)	0.2 mg/l to 100 mg/l
		Sulphate (as SO <sub>4</sub> )	IS 3025 (Part 24) Clause 4.0 (Turbidity method)	1 mg/l to 400 mg/l
		Oil & Grease	IS 3025 (Part 39) Clause 5.0 (Partition Gravimetric method)	5 mg/l to 100 mg/l
		Sodium as Na	IS 3025 (Part 45) Clause 5.0 (Flame Photometry method)	1 mg/l to 1000 mg/l
		Potassium as K	IS 3025 (Part 45) Clause 5.0 (Flame Photometry method)	1 mg/l to 1000 mg/l
	<b>Trace Metal Elements</b>			
	<b>Construction - Water/ Irrigation Water</b>	Copper (as Cu)	IS 3025 (Part 42) Clause 6.0 (Atomic Absorption method)	0.1 mg/l to 100 mg/l
		Cadmium (as Cd)	IS 3025 (Part 41) Clause 5.0 (Atomic Absorption method)	0.05 mg/l to 50 mg/l
		Lead (as Pb)	IS 3025 (Part 47) Clause 7.0 (Atomic Absorption method)	0.5 mg/l to 50 mg/l
		Zinc (as Zn)	IS 3025 (Part 49) Clause 5.0 (Atomic Absorption method)	0.05 mg/l to 100 mg/l
<b>3.</b>		<b>Industrial Water</b>	pH	IS 3025 (Part 11) Clause 2.0 (Electro metric method)
		Color	IS 3025 (Part 4) Clause 2.0 Platinum Cobalt (Visual Comparison Method)	5 Color Units to 500 Color Units

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		Electric conductivity	IS 3025 (Part 14) (conductivity meter method)	1 µs/cm to 2000 µs/cm
		Turbidity	IS 3025 (Part 10) (nephelometric method)	1 NTU to 1000 NTU
		Total solids	IS 3025 (Part 15) (gravimetric method)	5 mg/l to 1000 mg/l
		Total suspended solids	IS 3025 (Part 17) (gravimetric method)	5 mg/l to 100 mg/l
		Total dissolve solids	IS 3025 (Part 16)	5 mg/l to 5000 mg/l
		Calcium (as Ca <sup>2+</sup> )	IS 3025 (Part 40) Clause 5.0 (EDTA method)	2 mg/l to 1000 mg/l
		Magnesium (as Mg <sup>2+</sup> )	IS 3025 (Part 46) Clause 6.63 (EDTA method)	2 mg/l to 1000 mg/l
		Total hardness (as CaCO <sub>3</sub> )	IS 3025 (Part 21) (EDTA method)	2 mg/l to 2000 mg/l
		Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (Part 23) Clause 8.1 (indicator method)	10 mg/l to 1000 mg/l
		Chlorides (as Cl <sup>-</sup> )	IS 3025 (Part 32) Clause 2.0 (Argentometric method)	5 mg/l to 2000 mg/l
		Chromium–Hexavalent (as Cr <sup>6+</sup> )	IS 3025 (Part 52) Clause 6.0 (Diphenylcarbazide method)	0.03 mg/l to 20 mg/l
		Residual chlorine	IS 3025 (Part 26) Clause 3.0 (Iodometric Method)	1 mg/l to 100 mg/l
		BOD (Biochemical Oxygen Demand)	IS 3025 (Part 44)	2 mg/l to 100 mg/l
		COD (Chemical Oxygen Demand)	IS 3025 (Part 58)	4 mg/l to 400 mg/l

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		DO (Dissolve Oxygen)	IS 3025 (Part 38)	1 mg/l to 12 mg/l
		Fluoride (as F <sup>-</sup> )	IS 3025 (Part 60) Clause 5.0 (Zirconiumalizarin method)	0.1 mg/l to 10 mg/l
		Iron (as Fe <sup>2+</sup> )	IS 3025 (Part 53) Clause 7.0 (Atomic Absorption method)	0.2 mg/l to 10 mg/l
		Phosphate (as P)	IS 3025 (Part 31) Clause 3.0 (Vanadomolybdo Phosphoric method)	0.2 mg/l to 100 mg/l
		Sulphate (as SO <sub>4</sub> )	IS 3025 (Part 24) Clause 4.0 (Turbidity method)	1 mg/l to 400 mg/l
		Oil & Grease	IS 3025 (Part 39) Clause 5.0 (Partition Gravimetric method)	5 mg/l to 100 mg/l
		Sodium as Na	IS 3025 (Part 45) Clause 5.0 (Flame Photometry method)	1 mg/l to 1000 mg/l
		Potassium as K	IS 3025 (Part 45) Clause 5.0 (Flame Photometry method)	1 mg/l to 1000 mg/l
	<b>Trace Metal Elements</b>			
	<b>Industrial Water</b>	Copper (as Cu)	IS 3025 (Part 42) Clause 6.0 (Atomic Absorption method)	0.1 mg/l to 100 mg/l
		Cadmium (as Cd)	IS 3025 (Part 41) Clause 5.0 (Atomic Absorption method)	0.05 mg/l to 50 mg/l
		Lead (as Pb)	IS 3025 (Part 47) Clause 7.0 (Atomic Absorption method)	0.5 mg/l to 50 mg/l
		Zinc (as Zn)	IS 3025 (Part 49) Clause 5.0 (Atomic Absorption method)	0.05 mg/l to 100 mg/l

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III.	<b>POLLUTION &amp; ENVIRONMENT</b>			
1.	<b>Waste Water / Effluent</b>	pH	IS 3025 (Part 11) Clause 2.0 (electro metric method)	1 to 12
		Electric conductivity	IS 3025 (Part 14 ) (conductivity meter method)	1 µs/cm to 30000 µs/cm
		Total solids	IS 3025 (Part 15) (gravimetric method)	5 mg/l to 10,000 mg/l
		Total suspended solids	IS 3025 (Part 17) (gravimetric method)	5 mg/l to 500 mg/l
		Total dissolve solids	IS 3025 (Part 16) (gravimetric method)	5 mg/l to 5,000 mg/l
		Calcium ( as Ca <sup>2+</sup> )	IS 3025 (Part 40) Clause 5.0 (EDTA method)	2 mg/l to 1000 mg/l
		Magnesium (as Mg <sup>2+</sup> )	IS 3025 (Part 46) Clause 6.63 (EDTA method)	2 mg/l to 1000 mg/l
		Total hardness (as CaCO <sub>3</sub> )	IS 3025 (Part 21) (EDTA method)	2 mg/l to 2000 mg/l
		Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (Part 23) Clause 8.1 (indicator method)	2 mg/l to 2000 mg/l
		Chlorides (as Cl <sup>-</sup> )	IS 3025 (Part 32) Clause 2.0 (Argentometric method)	5 mg/l to 10000 mg/l
		Chromium–Hexavelent (as Cr <sup>6+</sup> )	IS 3025 (Part 52) Clause 6.0 (Diphenylcarbazide method)	0.02 mg/l to 50 mg/l
		BOD (Biochemical Oxygen Demand)	IS 3025 (Part 44)	2 mg/l to 4000 mg/l
		COD (Chemical Oxygen Demand)	IS 3025 (Part 58)	5 mg/l to 10000 mg/l

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		DO (Dissolve Oxygen)	IS 3025 (Part 38)	1 mg/l to 12 mg/l
		Fluoride (as F <sup>-</sup> )	IS 3025 (Part 60) Clause 5.0 (Zirconiumalizarin method)	0.1 to 10 mg/l
		Phosphate (as P)	IS 3025 (Part 31) Clause 3.0 (Vanadomolybdo Phosphoric method)	0.1 mg/l to 50 mg/l
		Sulphate (as SO <sub>4</sub> )	IS 3025 (Part 24) Clause 4.0 (Turbidity method)	2 mg/l to 500 mg/l
		Oil & Grease	IS 3025 (Part 39) Clause 5.0 (Partition Gravimetric method)	1 mg/l to 50 mg/l
		Iron	IS 3025 (Part 53) Clause 7.0(Atomic Absorption method)	0.2 mg/l to 1000 mg/l
		Copper (as Cu)	IS:3025 (Part 42) Clause 6.0(Atomic Absorption method)	0.1 mg/l to 1000 mg/l
		Sodium (as Na)	IS 3025 (Part 45) Clause 5.0 (Flame Photometry method)	1 mg/l to 1000 mg/l
		Potassium (as K)	IS 3025 (Part 45) Clause 5.0 (Flame Photometry method)	1 mg/l to 1000 mg/l
		Cadmium (as Cd)	IS 3025 (Part 41) Clause 5.0 (Atomic Absorption method)	0.05 mg/l to 100 mg/l
		Lead (as Pb)	IS 3025 (Part 47) Clause 7.0 (Atomic Absorption method)	0.5 mg/l to 100 mg/l
		Zinc (as Zn)	IS 3025 (Part 49) Clause 5.0 (Atomic Absorption method)	0.05 mg/l to 100 mg/l

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2.	Soil	pH	IS 2720 (Part 26) (Electrometric method)	1 to 12
		Total soluble solids	IS 2720 (Part 21) (Gravimetric method)	0.1 % to 10 %
		Moisture Content	IS 2720 (Part 2) (Gravimetric method)	1 % to 40 %
		Electrical Conductivity	IS 14767	0.10 ms/cm to 5.0 ms/cm
<b>IV.</b>	<b>ORES &amp; MINERALS</b>			
1.	<b>Lime Stone, Dolomite, Magnesite &amp; Allied Minerals</b>	LOI	IS 1760 (Part 1)	40 % to 50 %
		SiO <sub>2</sub>	IS 1760 (Part 2)	0.2 % to 30.0 %
		Al <sub>2</sub> O <sub>3</sub>	IS 1760 (Part 3)	0.2 % to 2.0 %
		Fe <sub>2</sub> O <sub>3</sub>	IS 1760 (Part 3)	0.2 % to 2.0 %
		MgO	IS 1760 (Part 3)	0.5 % to 52.0 %
		CaO	IS 1760 (Part 3)	0.5 % to 55.0 %
2.	<b>Clay, Wollastonite and Allied Minerals, Soapstone, Talc</b>	LOI	IS 10429	1 % to 10.0 %
		SiO <sub>2</sub>	IS 10429	5 % to 60.0 %
		Al <sub>2</sub> O <sub>3</sub>	IS 10429	0.2 % to 10.0 %
		Fe <sub>2</sub> O <sub>3</sub>	IS 10429	0.2 % to 10.0 %
		MgO	IS 10429	0.2 % to 10.0 %
		CaO	IS 10429	1 % to 50.0 %
		TiO <sub>2</sub>	IS 4589	0.20 % to 5.00 %
3.	<b>Quartz, Silica Sand and Allied Minerals</b>	LOI	IS 1917 (Part 1)	0.5 % to 1.0 %
		SiO <sub>2</sub>	IS 1917 (Part 3)	5.0 % to 95.0 %
		Fe <sub>2</sub> O <sub>3</sub>	IS 1917 (Part 5) IS 488	0.01 % to 0.5 %
4.	<b>Rock Phosphate, Apatite</b>	LOI	IS 11224	1.0 % to 10.0 %
		SiO <sub>2</sub>	IS 11224	1.0 % to 10.0 %
		Total Phosphate	IS 11224	10.0 % to 40.0%
		Al <sub>2</sub> O <sub>3</sub>	IS 11224	0.50 % to 10.0 %
		Fe <sub>2</sub> O <sub>3</sub>	IS 11224	0.50 % to 10.0 %
		MgO	IS 11224	0.50 % to 10.0 %
		CaO	IS 11224	25.0 % to 46.0 %

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5.	Manganese Ore	SiO <sub>2</sub>	IS 1473	1.0 % to 15.0 %
		Fe <sub>2</sub> O <sub>3</sub>	IS 1473	0.5 % to 22.5 %
		MnO <sub>2</sub>	IS 1473	0.5 % to 40.0 %
		P <sub>2</sub> O <sub>5</sub>	IS 1473	0.015 % to 2.00 %
		TiO <sub>2</sub>	IS 2000 (Part 5)	0.5 % to 5.0 %
6.	Feldspar, Black Trap, Basalt	SiO <sub>2</sub>	IS 9749	1.0 % to 68.0 %
		Al <sub>2</sub> O <sub>3</sub>	IS 9749	1.0 % to 40.0 %
		Fe <sub>2</sub> O <sub>3</sub>	IS 9749	0.2 % to 10.0 %
		MgO	IS 9749	2.0 % to 10.0 %
		CaO	IS 9749	2.0 % to 10.0 %
		Na <sub>2</sub> O	IS 9749	0.4 % to 10.0 %
7.	Baryte	K <sub>2</sub> O	IS 9749	0.4 % to 10.0 %
		Insoluble Minus silica, percentage by mass (BaSO <sub>4</sub> )	IS2881	20.0 % to 90.0 %

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**CHEMICAL TESTING**

<b>AT SITE</b>				
<b>I.</b>	<b>ATMOSPHERIC POLLUTION</b>			
<b>1.</b>	<b>Ambient Noise</b>	Noise Level Leq dB (A)	IS 9989	40 dB(A) to 130 dB(A)