

Laboratory Global Enviro Laboratories, Plot No. 4, Khasra No. 45, Industrial Area, 8th K.M Milestone, Meerut Road, Ghaziabad, Uttar Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7186

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Validity 26.04.2018 to 25.04.2020

Last Amended on 06.06.2018

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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BIOLOGICAL TESTING

I.	WATER			
1.	Drinking Water	Total Coliform	IS 1622:1981 (RA 2009)	< 2 - 542 MPN/100 ml
		Faecal Coliform	IS 1622:1981 (RA 2009)	Qualitative Present/Absent /100ml
		E. Coli	IS 1622:1981 (RA 2009)	Qualitative Present/Absent /100ml
		Total Plate Count	IS 1622:1981 (RA 2009)	≥ 10 cfu/ml
II.	ENVIRONMENT & POLLUTION			
1.	Waste Water	Total Coliform	IS 1622:1981 (RA 2009)	< 2- 542 MPN/100 ml
		Faecal Coliform	IS 1622:1981 (RA 2009)	Qualitative Present/Absent /100ml
		E. Coli	IS 1622:1981 (RA 2009)	Qualitative Present/Absent /100ml
		Total Plate Count	IS 1622:1981 (RA 2009)	≥ 10 cfu/ml

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CHEMICAL TESTING				
I.	ATMOSPHERIC POLLUTION			
1.	Ambient Air	Particulate Matter (PM ₁₀)	IS 5182 (Part 23): 2006	5 µg/m ³ to 800 µg/m ³
		Particulate Matter (PM _{2.5})	GEL/SOP/01, Page No. 26, Vol-1, 2011	10 µg/m ³ to 200 µg/m ³
		Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001 (RA 2017)	4.97 µg/m ³ to 200 µg/m ³
		Nitrogen Dioxide (NO ₂)	IS 5182 (Part 6): 2006 (RA 2017)	9.4 µg/m ³ to 200 µg/m ³
		Ozone (O ₃)	IS 5182 (Part 9) Chemical Method	12.76 µg/m ³ to 1000 µg/m ³
		Ammonia	GEL/SOP/A-07, Page No.-53, Vol-1, 2011 (RA 2014)	9.04 µg/m ³ to 300 µg/m ³
		Nickle (Ni)	GEL/SOP/A-08, Page No.57, Vol -1, 2011	0.5µg/m ³ to 50 µg/m ³
		Lead (Pb)	IS 5182 (Part 22): (RA 2009)	0.05µg/m ³ to 10 µg/m ³
2.	Stack Emission	Particulate Matter	IS 11255 (Part 1): 1985 (RA 2014)	5 mg/Nm ³ to 1000 mg/Nm ³
		Oxide of nitrogen	IS 11255 (Part 7): 2005 (RA 2017)	4.0 mg/Nm ³ to 500 mg/Nm ³
		Sulphur Dioxide	IS 11255 (Part 2): 1985 (RA 2014)	5.0 mg/Nm ³ to 500 mg/Nm ³
		Oxygen	IS 13270: 1992 (RA 2014)	0.1 % to 20 %
		Carbon Dioxide	IS 13270: 1992 (RA 2014)	0.1 % to 20 %
		Carbon Monoxide	IS 13270: 1992 (RA 2014)	0.1 % to 20 %

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II.	WATER			
1.	Ground Water, Surface Water, Drinking Water, Packaged Drinking Water	pH	IS 3025 (Part 11): 1983 (RA 2017)	2.0 to 12.0
		Total Alkalinity	IS 3025 (Part 23): 1986 (RA 2014)	2 mg/l to 1000 mg/l
		Chloride	IS 3025 (Part 32): 1998 (RA 2014) Argenometric Method	1 mg/l to 1000 mg/l
		Total Hardness	IS 3025 (Part 21): 2009 (RA 2014)	2 mg/l to 1000 mg/l
		Calcium	IS 3025 (Part 40): 1991 (RA 2014) EDTA Titrimetric Method	1 mg/l to 400 mg/l
		Magnesium	IS 3025 (Part 46): 1994 (RA 2014)	1 mg/l to 200 mg/l
		Sulphate	IS 3025 (Part 24): 1986 (RA 2014) Turbidity Method	2.0 mg/l to 400 mg/l
		Nitrate	IS 3025 (Part 34): 1988 (RA 2014) Chromotropic Acid Method	0.05 mg/l to 50 mg/l
		Total Dissolved Solids	IS 3025 (Part 16): 1984 (RA 2017)	4 mg/l to 5000 mg/l
		Iron	IS 3025 (Part 53): 2003 (RA 2014) Phenanthroline Method	0.02 mg/l to 10 mg/l
		Color	IS 3025 (Part 4): 2003 (RA 2014)	5 Hazen to 20 Hazen
	Turbidity	IS 3025 (Part 10): 1984 (RA 2017)	1 NTU to 1000 NTU	
	Boron (B)	IS 3025 (Part 57): 2005 (RA 2017)	0.02 mg/l to 10 mg/l	
	Chromium Hexavalent (Cr+6)	IS 3025 (Part 52): 2003 (RA 2014)	0.01 mg/l to 50 mg/l	

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		Total Chromium (Cr)	IS 3025 (Part 55): 2003 (RA 2014)	0.01 mg/l to 50 mg/l
		Copper (Cu)	IS 3025 (Part 41): 1992 (RA 2014)	0.01 mg/l to 50 mg/l
		Lead (Pb)	IS 3025 (Part 47): 1994 (RA 2014)	0.02 mg/l to 50 mg/l
		Nickel (Ni)	IS 3025 (Part 54): 2003 (RA 2014)	0.01 mg/l to 50 mg/l
		Zinc (Zn)	IS 3025 (Part 49): 1994 (RA 2014)	0.01 mg/l to 50 mg/l
		Arsenic (As)	IS 3025 (Part 37): 1988 (RA 2014)	0.01 mg/l to 10 mg/l
		Aluminum (Al)	IS 3025 (Part 55): 2003 (RA 2014)	0.03 mg/l to 50 mg/l
III.	POLLUTION & ENVIRONMENT			
1.	Waste Water	pH	IS 3025 (Part 11): 1983 (RA 2017)	2.0 to 12
		Conductivity (at 25 °C)	IS 3025 (Part 14): 1984 (RA 2013)	2 µmhos/cm to 10000 µmhos/cm
		Total Dissolve Solids	IS 3025 (Part 16): 1984 (RA 2017)	4 mg/l to 5000 mg/l
		Total Suspended Solids	IS 3025 (Part 17): 1984 (RA 2017)	4 mg/l to 1000 mg/l
		Chemical Oxygen Demand	IS 3025 (Part 58): 2006 (RA 2017)	4 mg/l to 2000 mg/l
		Biochemical Oxygen Demand (at 27 °C for 3 day)	IS 3025 (Part 44): 1993 (RA 2014)	2 mg/l to 1000 mg/l
		Sodium	IS 3025 (Part 45): 1993 (RA 2014)	1 mg/l to 1000 mg/l
		Potassium	IS 3025 (Part 45): 1993 (RA 2014) Flame photometric Method	1 mg/l to 100 mg/l

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		Oil & Grease	IS 3025 (Part 39): 1991 (RA 2014)	1 mg/l to 100 mg/l
		Phosphate	IS 3025 (Part 31): 1988 (RA 2014)	0.05 mg/l to 50 mg/l
		Boron (B)	IS 3025 (Part 57): 2005 (RA 2017)	0.1 mg/l to 10 mg/l
		Chromium Hexavalent (Cr+6)	IS 3025 (Part 52): 2003 (RA 2014)	0.1 mg/l to 100 mg/l
		Total Chromium (Cr)	IS 3025 (Part 55): 2003 (RA 2014)	0.1 mg/l to 100 mg/l
		Copper (Cu)	IS 3025 (Part 42): 1992 (RA 2014)	0.01 mg/l to 100 mg/l
		Iron (Fe)	IS 3025 (Part 53): 2003 (RA 2014)	0.1 mg/l to 100 mg/l
		Lead (Pb)	IS 3025 (Part 47): 1994 (RA 2014)	0.1 mg/l to 1000 mg/l
		Mercury (Hg)	IS 3025 (Part 48): 1994 (RA 2014)	0.1 mg/l to 50 µg/l
		Nickel (Ni)	IS 3025 (Part 54): 2003 (RA 2014)	0.1 mg/l to 50 mg/l
		Zinc (Zn)	IS 3025 (Part 49): 1994 (RA 2014)	0.1 mg/l to 100 mg/l
		Arsenic (As)	IS 3025 (Part 37): 1988 (RA 2014)	0.1 mg/l to 100 mg/l
		Aluminum (Al)	IS 3025 (Part 55): 2003 (RA 2014)	0.1 mg/l to 100 mg/l
		Cadmium (Cd)	IS 3025 (Part 41): 1992 (RA 2014)	0.01 mg/l to 50 mg/l

NOTE: The Laboratory has demonstrated competence for the stated scope for **WATER**. This however **does not fully cover** the specification requirements of **BIS for the Packaged Drinking Water as per IS:14543 and the Packaged Natural Mineral Water IS:13428**.