

Laboratory	Kerala Enviro Infrastructure Limited – Laboratory, Inside FACT–CD Campus, Ambalamedu, Kochi, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	12.09.2016
Certificate Number	T-2325	Valid Until	11.09.2018
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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I. WATER				
1.	Surface & Ground Water	pH	IS 3025 (Part 11): 1983 (RA 2012), APHA (22 nd Edition) 4500 H ⁺ B: 2012	1 to 14
		Conductivity	APHA (22 nd Edition) 2510 B: 2012	20 µS to 20 mS
		Turbidity	IS 3025 (Part 10): 1984 (RA 2012) APHA (22 nd Edition) 2130 B: 2012	1 NTU to 200 NTU
		Hardness	IS 3025 (Part 21): 2009 (RA 2012) APHA (22 nd Edition) 2340 C: 2012	10 mg/l to 400 mg/l
		Total Suspended Solid (TSS)	IS 3025 (Part 17): 1984 (RA 2012) APHA (22 nd Edition) 2540 D: 2012	10 mg/l to 1000 mg/l
		Total Dissolved Solid (TDS)	IS 3025 (Part 16): 1984 (RA 2012) APHA (22 nd Edition) 2540 C: 2012	25 mg/l to 10000 mg/l
		Chemical Oxygen Demand (COD)	IS 3025 (Part 58): 2006 (RA 2012)	5 mg/l to 250 mg/l
		Biochemical Oxygen Demand (BOD)	IS 3025 (Part 44): 1993 (RA 2009) APHA (22 nd Edition) 5210 B: 2012	2 mg/l to 100 mg/l
		Chloride	IS 3025 (Part 32): 1988 (RA 2009) APHA (22 nd Edition) 4500 Cl ⁻ B: 2012	5 mg/l to 1000 mg/l
		Sulphate	IS 3025 (Part 24): 1986 (RA 2009) APHA (22 nd Edition) 4500-SO ₄ ²⁻ E: 2012	5 mg/l to 400 mg/l
		Zinc	IS 3025 (Part 49): 1994 (RA 2009) APHA (22 nd Edition) 3111 B: 2012	0.1 mg/l to 200 mg/l
		Copper	IS 3025 (Part 42): 1992 (RA 2009) APHA (22 nd Edition) 3111 B: 2012	0.5 mg/l to 750 mg/l

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	Surface & Ground Water	Nickel	IS 3025 (Part 54): 2003 (RA 2009) APHA (22 nd Edition) 3111 B: 2012	0.5 mg/l to 1500 mg/l
		Cadmium	IS 3025 (Part 41): 1992 (RA 2009) APHA (22 nd Edition) 3111 B: 2012	0.1 mg/l to 250 mg/l
		Lead	IS 3025 (Part 47): 1994 (RA 2009) APHA (22 nd Edition) 3111 B: 2012	1.0 mg/l to 2000 mg/l
		Acidity	IS 3025 (Part 22): 1986 (RA 2009) APHA (22 nd Edition) 2310 B: 2012	5.0 mg/l to 500 mg/l
		Alkalinity	IS 3025 (Part 23): 1986 (RA 2009) APHA (22 nd Edition) 2320 B: 2012	5.0 mg/l to 1000 mg/l
		Calcium	IS 3025 (Part 40): 1991 (RA 2009) APHA (22 nd Edition) 3500 Ca- B: 2012	2.5 mg/l to 1000 mg/l
		Dissolved Oxygen	IS 3025 (Part 38): 1989 (RA 2009) APHA (22 nd Edition) 4500 O-C: 2012	1 mg/l to 10 mg/l
		Fluoride	IS 3025 (Part 60): 2008 (RA 2012) APHA (22 nd Edition) 4500 F-C: 2012	0.5 mg/l to 2000 mg/l
		Hexavalent chromium	IS 3025 (Part 52): 2003 (RA 2009) APHA (22 nd Edition) 3500 Cr-B: 2012	0.2 mg/l to 20 mg/l
		Iron	IS 3025 (Part 53): 2003 (RA 2009) APHA (22 nd Edition) 3111 B: 2012	0.5 mg/l to 1600 mg/l
		Magnesium	IS 3025 (Part 46): 1994 (RA 2009) APHA (22 nd Edition) 3500 Mg B: 2012	1 mg/l to 500 mg/l
		Oil & Grease	IS 3025 (Part 39): 1991 (RA 2009) APHA (22 nd Edition) 5520 B: 2012	10 mg/l to 75 mg/l

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	Surface & Ground Water	Phenol	IS 3025 (Part 43): 1992 (RA 2009) APHA (22 nd Edition) 5530 D: 2012	0.5 mg/l to 5 mg/l
		Phosphate	APHA (22 nd Edition) 4500 P - E: 2012	0.05 mg/l to 2 mg/l
		Ammoniacal Nitrogen	APHA (22 nd Edition) 4500 NH ₃ -C: 2012	1.0 mg/l to 10 mg/l
		Total Chromium	IS 3025 (Part 52): 2003 (RA 2009) APHA (22 nd Edition) 3111B: 2012 APHA (22 nd Edition) 3030D: 2012	0.1 mg/l to 10 mg/l
		Total Kjeldahl Nitrogen	APHA (22 nd Edition) 4500 N _{org} B: 2012	1.0 mg/l to 10 mg/l
II. POLLUTION & ENVIRONMENT				
1.	Waste Water	pH	IS 3025 (Part 11): 1983 (RA 2012) APHA (22 nd Edition) 4500 H ⁺ B: 2012	1 to 14
		Conductivity	APHA (22 nd Edition) 2510 B: 2012	20 µS to 200 mS
		Turbidity	IS 3025 (Part 10): 1984 (RA 2012) APHA (22 nd Edition) 2130 B: 2012	1 NTU to 1000 NTU
		Hardness	IS 3025 (Part 21): 2009 (RA 2012) APHA (22 nd Edition) 2340 C: 2012	10 mg/l to 10000 mg/l
		Total Suspended Solid (TSS)	IS 3025 (Part 17): 1984 (RA 2012) APHA (22 nd Edition) 2540 D: 2012	10 mg/l to 5000 mg/l
		Total Dissolved Solid (TDS)	IS 3025 (Part 16): 1984 (RA 2012) APHA (22 nd Edition) 2540 C: 2012	25 mg/l to 60000 mg/l
		Chemical Oxygen Demand (COD)	IS 3025 (Part 58): 2006 (RA 2012)	5 mg/l to 2000 mg/l

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	Waste Water	Biochemical Oxygen Demand (BOD)	IS 3025 (Part 44): 1993 (RA 2009) APHA (22 nd Edition) 5210 B: 2012	2 mg/l to 2000 mg/l
		Chloride	IS 3025 (Part 32): 1988 (RA 2009) APHA 4500 Cl- B22 nd Edition): 2012	5 mg/l to 10000 mg/l
		Sulphate	IS 3025 (Part 24): 1986 (RA 2009) APHA (22 nd Edition) 4500-SO ₄ ²⁻ E: 2012	5 mg/l to 40000 mg/l
		Zinc	IS 3025 (Part 49): 1994 (RA 2009) APHA (22 nd Edition) 3111 B: 2012	0.1 mg/l to 200 mg/l
		Copper	IS 3025 (Part 42): 1992 (RA 2009) APHA (22 nd Edition) 3111 B: 2012	0.5 mg/l to 750 mg/l
		Nickel	IS 3025 (Part 54): 2003 (RA 2009) APHA (22 nd Edition) 3111 B: 2012	0.5 mg/l to 1500 mg/l
		Cadmium	IS 3025 (Part 41): 1992 (RA 2009) APHA (22 nd Edition) 3111 B: 2012	0.1 mg/l to 250 mg/l
		Lead	IS 3025 (Part 47): 1994 (RA 2009) APHA (22 nd Edition) 3111 B: 2012	1.0 mg/l to 2000 mg/l
		Acidity	IS 3025 (Part 22): 1986 (RA 2009) APHA (22 nd Edition) 2310 B: 2012	5.0 mg/l to 2500 mg/l
		Alkalinity	IS 3025 (Part 23): 1986 (RA 2009) APHA (22 nd Edition) 2320 B: 2012	10 mg/l to 2500 mg/l
		Calcium	IS 3025 (Part 40): 1991 (RA 2009) APHA (22 nd Edition) 3500 Ca- B: 2012	10 mg/l to 2500 mg/l
		Dissolved Oxygen	IS 3025 (Part 38): 1989 (RA 2009) APHA (22 nd Edition) 4500 O-C: 2012	1 mg/l to 10 mg/l

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	Waste Water	Fluoride	IS 3025 (Part 60): 2008 (RA 2012) APHA (22 nd Edition) 4500 F-C: 2012	0.5 mg/l to 2000 mg/l
		Hexavalent Chromium	IS 3025 (Part 52): 2003 (RA 2009) APHA (22 nd Edition) 3500 Cr-B: 2012	0.2 mg/l to 20 mg/l
		Iron	IS 3025 (Part 53): 2003 (RA 2009) APHA (22 nd Edition) 3111 B: 2012	0.5 mg/l to 1600 mg/l
		Magnesium	IS 3025 (Part 46): 1994 (RA 2009) APHA (22 nd Edition) 3500 Mg B: 2012	5 mg/l to 2500 mg/l
		Oil & Grease	IS 3025 (Part 39): 1991 (RA 2009) APHA (22 nd Edition) 5520 B: 2012	10 mg/l to 2000 mg/l
		Phenol	IS 3025 (Part 43): 1992 (RA 2009) APHA (22 nd Edition) 5530 D: 2012	0.5 mg/l to 10 mg/l
		Phosphate	APHA (22 nd Edition) 4500 P-E: 2012	0.05 mg/l to 300 mg/l
		Ammoniacal Nitrogen	APHA (22 nd Edition) 4500 NH ₃ -C: 2012	20 mg/l to 750 mg/l
		Total Chromium	IS 3025 (Part 52): 2003 (RA 2009) APHA (22 nd Edition) 3111B: 2012 APHA (22 nd Edition) 3030D: 2012	0.1 mg/l to 10 mg/l
		Total Kjeldahl Nitrogen	APHA (22 nd Edition) 4500 N _{org} B: 2012	20 mg/l to 1000 mg/l

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