

Laboratory **Aavanira Biotech (P) Ltd., Kinetic Innovation Park, D-1 Block,
Plot No.-18/1 Part, MIDC Chinchwad, Pune, Maharashtra**

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

Discipline **Chemical Testing** **Issue Date** **19.10.2014**

Certificate Number **T-3134** **Valid Until** **18.10.2016**

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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.	Water (Drinking water, Ground water, Surface water)	pH	IS:3025 (Part 11)-1983 (Reaffirmed 2002)	1-14 Units
		Electrical Conductivity	IS:3025 (Part 14)-1984 (Reaffirmed 2002)	1-299.99 µS/cm 300-2999.99 µS/cm
		Turbidity	IS:3025 (Part 10)-1984 (Reaffirmed 2002)	0.1-10 NTU 10-40 NTU
		TDS	IS:3025 (Part 16)-1984 (Reaffirmed 2006)	10-100 mg/l 100-500 mg/l 500-2000 mg/l
		Total Hardness	IS:3025 (Part 21)-2009	2-100 mg/l 100-500 mg/l 500-1000 mg/l
		Chloride	IS:3025 (Part 32)-1988 (Reaffirmed 2003)	2-100 mg/l 100-500 mg/l
		Alkalinity	IS:3025 (Part 23)-1986 (Reaffirmed 2003)	2-100 mg/l 100-500 mg/l 500-1000 mg/l
		Sulphate	APHA (Edition 22 nd) 4500SO ₄ ²⁻ E	0.1-40 mg/l 40-80 mg/l 80-200 mg/l

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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
	Effluent/Waste Water	TSS	IS:3025 (Part 17)-1984 (Reaffirmed 1996)	10-50 mg/l 50-500 mg/l 500-2000 mg/l
		Chloride	IS:3025 (Part 32)-1988 (Reaffirmed 2003)	2-100 mg/l 100-500 mg/l
		Sulphate	APHA (Edition 22 nd) 4500SO ₄ ²⁻ E	2-40 mg/l 40-80 mg/l 80-200 mg/l
		Ammonical Nitrogen	APHA (Edition 22 nd) 4500NH ₃ B	0.5-30 mg/l
		Oil & Grease	IS:3025 (Part 39)-1991 (Reaffirmed 2003)	2-50 mg/l 50-500 mg/l 500-2000 mg/l
		Biochemical Oxygen Demand (BOD)	IS:3025 (Part 44)-1993 (Reaffirmed 2003)	10-70 mg/l 70-700 mg/l 700-7000 mg/l
		Chemical Oxygen Demand (COD)	IS:3025 (Part 58)-2006	10-900 mg/l
		Copper		900-1900 mg/l 1900- 3800 mg/l 3800-19000 mg/l
		Copper	IS 3025 (Part 2):2004 ISO 11885:1996	0.1-100 mg/l

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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
	Effluent/Waste Water	Zinc	IS 3025 (Part 2):2004 ISO 11885:1999	0.1-100 mg/l
		Iron	IS 3025 (Part 2):2004 ISO 11885:2004 ISO 11885:2004 ISO 11885:2000	0.1-100 mg/l
		Nickel	IS 3025 (Part 2):2004	0.1-1000 mg/l
2.	Soil/Sludge	pH	Methods of soil analysis, Part 1	1-14 Units
		Water content content/Moisture	IS 2720 (Part 2)	1-10 % 10-50 %
		Total Organic Carbon	Methods of soil analysis, Part 2 SOP AB/TECH/CHEM/SOP/SL/06 Issue Date 01.08.2011	2000-20000 mg/kg 20000-380000 mg/kg
		Organic matter	Methods of soil analysis, Part 2 SOP AB/TECH/CHEM/SOP/SL/05 Issue Date 01.08.2011	4000-40000 mg/kg 40000-760000 mg/kg
		Total Kjeldahl Nitrogen	IS 14684 1999, Reaffirmed 2005	140-1400 mg/kg 1400-14000 mg/kg
		Sodium	APHA (22 nd Edition) 3120 B	10-10000 mg/kg

