

Laboratory Centre for Ground Water Recharge - Testing Laboratory, 90/A,
Sector-II, Geetangali Nagar, Raipur, Chhattisgarh

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6813

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Validity 18.01.2018 to 17.01.2020

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
<u>CHEMICAL TESTING</u>				
I.	WATER			
1.	Surface Water/ Ground Water/ Drinking Water	pH Value	APHA 23 rd Edition 2017-4500-H+ A.	1to 12
		Turbidity	APHA 23 rd Edition 2017 - 2130 B.	1 NTU to 1000NTU
		Conductivity	APHA 23 rd Edition 2017-2510 A.	5 µS/cm to 13000 µS/cm
		Total Dissolved Solids	APHA 23 rd Edition 2017-2540 C.	5 mg/l to 4000mg/l
		Total Suspended Solids	apha 23 rd Edition 2017 2540 D.	5mg/l to 2000mg/l
		Total Hardness	APHA 23 rd Edition 2017 2340-C	5mg/l to 1000mg/l
		Alkalinity	APHA 23 rd Edition 2017 2320 B.	5mg/l to 500mg/l
		Sulphate	APHA 23 rd Edition 2017-4500 SO4 - E.	5mg/l to 400mg/l
		Chloride	APHA 23 rd Edition 2017 4500- Cl- B.	5mg/l to 1000mg/l
		Nitrate	IS 3025 (Pt.34):1988 RA 2003	1mg/l to 100mg/l
		Calcium	APHA 23 rd Edition 2017 3500-Ca-B	5mg/l to 500mg/l
Magnesium	APHA 23 rd Edition 2017-2340-C	5mg/l to 500mg/l		
Iron	APHA 23 rd Edition 2017 - 3500-Fe-B	0.5mg/l to 50mg/l		
Fluoride	APHA 23 rd Edition 2017-4500-F D.	0.1mg/l to 10mg/l		

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		Colour	APHA 23rd Edition 2017, 2120 B.	1.0 Hazen to 100 Hazen
		Silica	APHA 23 rd Edition 2017-4500 SiO ₂ -C	1 mg/l to 50mg/l
		Sodium	APHA- 23 rd Edition 2017-3500 Na-B	1 mg/l to 100 mg/l
		Potassium	APHA- 23 rd Edition 2017-3500 K-B	1 to mg/l 100 mg/l
		Phosphate	APHA-23 rd Edition 2017-4500P-D	0.5 mg/l to 20 mg/l
		Residual Chlorine	APHA-23 rd Edition 2017-4500 Cl-B	0.2 mg/l to 2.0 mg/l
II.	POLLUTION AND ENVIRONMENT			
1.	Waste Water	Bio-Chemical Oxygen Demand - 5 days	APHA 23 rd Edition 2017-5210B / 4500 O- C	2 mg/l to 15000 mg/l
		Bio-Chemical Oxygen Demand – 3 days		
			IS:3025 (part44) 1993	2 mg/l to 15000 mg/l
		Chemical Oxygen Demand	APHA 23 rd Edition 2017-5220 B, C	5 mg/l to 15000 mg/l
		Oil and grease	APHA 23 rd Edition 2017-5520 O&G B, C	2.0 mg/L to 2000 mg/l
		Dissolved Oxygen	APHA 23 rd Edition 2017-4500 O B, C	1 mg/l to 10.0 mg/l
		pH value	APHA 23 rd Edition 2017-4500-H+ A.	1 units to 14 units
		Iron	APHA 23rd Edition 2017 - 3500-Fe-B	0.5mg/l to 50mg/l
		Sodium	APHA- 23 rd Edition 2017-3500 Na-B	1 mg/l to 2000 mg/l

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		Potassium	APHA- 23 rd Edition 2017-3500 K-B	1 mg/l to 800 mg/l
		Nitrogen Ammoniacal	APHA 23 rd Edition 2017-4500 NH ₃ B,C	1.0 mg/l to 500 mg/l
		Total Kjeldahl Nitrogen	APHA 23 rd Edition 2017-4500 N. (org) B	1.0 mg/l to 500 mg/l
		Nitrate (as NO ₃)	IS 3025 (Pt.34):1988 RA 2003	1mg/l to 100mg/l
		Phosphates	APHA-23 rd Edition 2017-4500P-D	1 mg/l to 20 mg/l
		Electrical Conductivity	APHA 23 rd Edition 2017-2510 A.	5 µS/cm to 3000 µS/cm
		Total suspended solids	APHA 23 rd Edition 2017-2540 D.	5mg/l to 2000mg/l
		Total dissolved solids	APHA 23 rd Edition 2017-2540 C.	5mg/l to 4000mg/l
		Turbidity	APHA 23 rd Edition 2017 - 2130 B.	1 NTU to 1000NTU
		Temperature	APHA 23 rd Edition 2017 - 2550 B	4 to 50°C

Bhumi Rajyaguru
Convener

Alok Jain
Program Director