

**Laboratory** State Level Water Testing Laboratory, PHED Office, Chhajubagh, Patna, Bihar

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

**Certificate Number** TC-5752 (In lieu of T-3445)

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**Validity** 28.05.2017 to 27.05.2019

Last Amended on 29.05.2017

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**

I.	WATER			
1.	Ground Water/ Surface Water	Conductivity	APHA, 2510-B, 2-52 to 2-54, 22 <sup>nd</sup> , 2012	10 mho/cm to 20000 mho/cm
		pH Value	APHA, 4500-H+B, 4-91 to 4-94, 22 <sup>nd</sup> , 2012	03 to 12
		Total Dissolved Solids	APHA, 2540-C, 2-65, 22 <sup>nd</sup> , 2012	20 mg/l to 10000 mg/l
		Turbidity	APHA, 2130-B, 2-12 to 2-13, 22 <sup>nd</sup> , 2012	4 NTU to 500 NTU
		Nitrate Nitrogen	APHA, 4500-NO <sub>3</sub> -B, 4-120, to 4-122, 22 <sup>nd</sup> , 2012	1.0 mg/l to 500 mg/l
		Alkalinity	APHA, 2320-B, 2-34, 22 <sup>nd</sup> , 2012	10 mg/l to 2000 mg/l
		Chloride	APHA, 4500-Cl B, 4-72, 22 <sup>nd</sup> , 2012	5.0 mg/l to 1000 mg/l
		Total Hardness	APHA, 2340-C, 2-44, 22 <sup>nd</sup> , 2012	10 mg/l to 2000 mg/l
		Calcium	APHA, 3500-Ca B, 3-67, 22 <sup>nd</sup> , 2012	5.0 mg/l to 1000 mg/l
		Magnesium	APHA, 3500-Mg B, 3-84, 22 <sup>nd</sup> , 2012	2.0 mg/l to 500mg/l
		Fluoride	APHA, 4500-D, 4-85 –4-87, 22 <sup>nd</sup> , 2012	0.01 mg/l to 20 mg/l
		Sulfate	APHA, 4500-SO <sub>4</sub> E, 4-190, 22 <sup>nd</sup> , 2012	5 mg/l to 1000 mg/l
		Iron	APHA, 3500-feB 3-77, 2012, 22 <sup>nd</sup> Ed	0.01 mg/l to 200mg/l
		Arsenic	APHA, 3500-As A & B, 3-65 22 <sup>nd</sup> Ed, 2012	0.05 mg/l to 5 mg/l

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