

Laboratory State Water Testing Laboratory, RWS&S (O), 2<sup>nd</sup> Floor, RWS&S Circle, Tapovan, Khandagiri, Bhubaneswar, Odisha

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6094

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Validity 25.07.2018 to 24.07.2020

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
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**CHEMICAL TESTING**

I.	WATER			
1.	Drinking Water, Surface Water, Ground Water	pH	APHA 23 <sup>rd</sup> Ed. 2017- 4500-H <sup>+</sup> B	2 to 12
		Conductivity	APHA 23 <sup>rd</sup> Ed. 2017 - 2510 B	1umhos/cm to 20000 umhos/cm
		Chloride as Cl <sup>-</sup>	APHA 23 <sup>rd</sup> Ed. 2017 - 4500 B (Argentometric Method)	2 mg/l to 1000 mg/l
		Total Hardness as CaCO <sub>3</sub>	APHA 23 <sup>rd</sup> Ed. 2017 - 2340 C	2 mg/l to 1000 mg/l
		Iron as Fe	APHA 23 <sup>rd</sup> Ed. 2017 - 3500-Fe B (Phenanthroline Method)	0.01 mg/l to 10 mg/l
		Turbidity	APHA 23 <sup>rd</sup> Ed. 2017 - 2130 B (Nephelometric Method)	0.02 NTU to 800 NTU
		Fluoride ( F <sup>-</sup> )	APHA 23 <sup>rd</sup> Ed. 2017 - 4500-F <sup>-</sup> C (Ion Selective Electrode Method ) / APHA 23 <sup>rd</sup> Ed. 2017- 4500-F <sup>-</sup> D (SPADNS Method)	0.1 mg/l to 10.0 mg/l
		Nitrate (NO <sub>3</sub> <sup>-</sup> )	APHA 23 <sup>rd</sup> Ed. 2017- 4500-NO <sub>3</sub> <sup>-</sup> D (Nitrate Electrode Method )/ APHA 23 <sup>rd</sup> Ed. 2017- 4500-NO <sub>3</sub> <sup>-</sup> B (UV Spectrophotometric Screening Method)	1.0 mg/l to 100.0 mg/l
		Total Alkinity as CaCO <sub>3</sub>	APHA 23 <sup>rd</sup> Ed. 2017- 2320 B (Titration Method)	2.0 mg/l to 1000 mg/l
		Calcium	APHA 23 <sup>rd</sup> Ed. 2017- 3500-Ca B (EDTA Titrimetric Method)	2.0 mg/l to 500 mg/l
		Magnesium	APHA 23 <sup>rd</sup> Ed. 201- 3500-Mg B (Calculation Method)	2.0 mg/l to 500 mg/l
Sulfate	APHA 23 <sup>rd</sup> Ed. 2017- 4500-SO <sub>4</sub> <sup>2-</sup> -E (Turbidimetric Method)	2.0 mg/l to 800 mg/l		

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		Cadmium	APHA 23 <sup>rd</sup> Ed. 2017-3500 Cd (AAS Method)	1.0 µg/l to 10.0 µg/l
		Lead	APHA 23 <sup>rd</sup> Ed. 2017-3500 Pb (AAS Method)	1.0 µg/l to 50.0 µg/l