

Laboratory State Laboratory, PHED, Govt. of Manipur, Lamphelpat, Imphal West District, Manipur

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7688 (in lieu of T-4176)

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Validity 29.09.2018 to 28.09.2020

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.	Ground Water/ Surface Water/ Drinking Water	Total Alkalinity (as CaCO <sub>3</sub> )	APHA 23 <sup>rd</sup> Ed, 2017- Method 2320 B	1 mg/l to 1000 mg/l
		Conductivity	APHA 23 <sup>rd</sup> Ed, 2017-Method 2510 B	1 µmho/cm to 2000 µmho/cm
		Total Hardness (as CaCO <sub>3</sub> )	APHA 23 <sup>rd</sup> Ed, 2017-Method 2340 C	2 mg/l to 1000 mg/l
		Turbidity	APHA 23 <sup>rd</sup> Ed, 2017-Method 2130 B	0.1 NTU to 199.9 NTU
		Total Dissolved Solids	APHA 23 <sup>rd</sup> Ed, 2017-Method 2540 C	5 mg/l to 2000 mg/l
		pH	APHA 23 <sup>rd</sup> Ed, 2017-Method 4500-H <sup>+</sup> B	2 to 10
		Fluoride as F	APHA 23 <sup>rd</sup> Ed, 2017-Method 4500-F D	0.2 mg/l to 20 mg/l
		Chloride as Cl	APHA 23 <sup>rd</sup> Ed, 2017-Method 4500-Cl <sup>-</sup> B	2.0 mg/l to 1000 mg/l
		Iron as Fe	APHA 23 <sup>rd</sup> Ed, 2017-Method 3500-Fe B	1 mg/l to 40 mg/l
		Sulphate (SO <sub>4</sub> )	APHA 23 <sup>rd</sup> Ed, 2017-Method 4500-SO <sub>4</sub> <sup>2-</sup> E	1 mg/l to 40 mg/l
		Calcium as Ca	APHA 23 <sup>rd</sup> Ed, 2017-Method 3500-Ca B	0.1 mg/l to 200 mg/l
		Magnesium as Mg	APHA 23 <sup>rd</sup> Ed, 2017-Method 3500-Mg B	0.1 mg/l to 100 mg/l