State Level Water Testing Laboratory, Drinking Water & Sanitation Department, New PHED Colony, Hinoo, Ranchi, Jharkhand Laboratory

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7351 (in lieu of T-4032) Page 1 of 1

Validity 23.06.2018 to 22.06.2020 Last Amended on --

SI.	Product / Material	Specific Test	Test Method Specification	Range of Testing /
İ	of Test	Performed	against which tests are	Limits of Detection
İ			performed	

CHEMICAL TESTING

I.	WATER			
1.	Drinking water, Surface water,	Alkalinity as CaCO ₃	APHA 23 rd Ed. 2017-2320 B, (Titration method)	5 mg/l to 1000 mg/l
	Ground water	Hardness as CaCO ₃	APHA 23rd Ed. 2017-2340 C, (EDTA Titration method)	2 mg/l to 1000 mg/l
		Turbidity	APHA 23 rd Ed. 2017-2130 B, (Nephelometric method)	1 NTU to 500 NTU
		Chloride as Cl	APHA 23 rd Ed. 2017-4500-Cl B, (Argent metric method)	2 mg/l to 1000 mg/l
		Fluoride as F		0.2 mg/l to 20 mg/l
		Nitrate as NO ₃	APHA 23 rd Ed. 2017-4500NO ₃ B (Ultraviolet spectrophotometric screening method)	0.5 mg/l to 100 mg/l
		рН		2 to 12
		Calcium as Ca	APHA 23 rd Ed. 2017-3500-Ca B (EDTA Titration method)	2 mg/l to 1000 mg/l
		Iron as Fe	APHA 23 rd Ed. 2017-3500-Fe B (1,10-Phenanthroline Method)	0.1 mg/l to 10 mg/l
		Magnesium as Mg	APHA 23 rd Ed. 2017-3500-Mg B, (Calculation Method)	2 mg/l to 50 mg/l
		Total Dissolved Solids at 180°C	APHA 23 rd Ed. 2017-2540 C	10 mg/l to 3000 mg/l
		Colour	•	5 Hazen unit to 50 Hazen unit
II.	RESIDUES IN WAT	TER .		
1.	Drinking water,	Trace Metal Elements		
	Surface water, Ground water)	Arsenic as (As)	IS: 3025(part-2)-2004, (ICP/OES method)	10 μg/l to 100 μg/l