

University of Asia Pacific
Environmental Engineering Laboratory
Department of Civil Engineering
Monthly water quality parameter report

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SL No	Water Quality Parameters	Unit	Concentration		Bangladesh Standard for Drinking Water (ECR, 1997)	Remarks
			Filter Water	Tap Water		
1	pH		7.16	7.18	6.5-8.5	OK
2	Color	Pt-Co	1.0	2	15	OK
3	Turbidity	JTU	0.48	12	10	Tap not OK
4	Alkalinity (as CaCO ₃)	mg/L	129	132	---	
5	Iron	mg/L	0.04	0.58	0.3-1.0	OK
6	Electrical Conductivity (EC)	μS/cm	377	399	---	---
7	Dissolve Oxygen (DO)	mg/L	6.42	6.50	6	OK
8	Total Hardness (as CaCO ₃)	mg/L	140	150	200-500	---
9	Chloride (Cl ⁻)	mg/L	75	108.9	150-600	---
10	Chemical Oxygen Demand (COD)	mg/L	3	7	4	Tap not OK
11	Total Dissolved Solids	mg/L	189.8	187.9	1000	OK
12	Suspended Solids	mg/L	0	6.0	10	OK
13	Ammonia Nitrogen (NH ₃ -N)	mg/L	0.06	0.10	0.5	OK
14	Nitrite Nitrogen (NO ₂ -N)	mg/L	0.004	0.002	<1.0	OK
15	Nitrate Nitrogen (NO ₃ -N)	mg/L	0.6	0.4	10	OK
16	Sulfate (SO ₄ ²⁻)	mg/L	3.0	4.0	400	OK
17	Phosphate (PO ₄)	mg/L	0	0.4	6	OK
18	Free Chlorine	mg/L	0	0	0.2	OK
19	Temperature	°C	25.3	25.2	20-30	OK
20	Fecal Coliform (E. Coli)	CFU/100 mL	Not measured		0	

Note: 1. Turbidity and COD concentration values of tap water sample exceed drinking water guideline numbers.

