

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

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Prepared by: Dr. TanveerFerdousSaeed
Associate Professor and Lab-in-charge
Environmental Engg.Lab, Department of Civil Engg.

SL No	Water Quality Parameters	Unit	Concentration		Bangladesh Standard for Drinking Water (ECR, 1997)	Remarks
			Filter Water	Tap Water		
1	pH		7.01	6.94	6.5-8.5	OK
2	Color	Pt-Co	8.0	29.0	15	Tap not OK
3	Turbidity	JTU	1.05	11.35	10	Tap not OK
4	Alkalinity (as CaCO ₃)	mg/L	130	130	---	
5	Iron	mg/L	0.09	0.54	0.3-1.0	OK
6	Electrical Conductivity (EC)	μS/cm	357	409	---	---
7	Dissolve Oxygen (DO)	mg/L	6.43	6.29	6	OK
8	Total Hardness (as CaCO ₃)	mg/L	145	145	200-500	---
9	Chloride (Cl ⁻)	mg/L	77.08	104.61	150-600	---
10	Chemical Oxygen Demand (COD)	mg/L	0	6.0	4	Tap not OK
11	Total Dissolved Solids	mg/L	172.2	197.3	1000	OK
12	Suspended Solids	mg/L	0	6.0	10	OK
13	Ammonia Nitrogen (NH ₃ -N)	mg/L	0.19	0.41	0.5	OK
14	Nitrite Nitrogen (NO ₂ -N)	mg/L	0.003	0.004	<1.0	OK
15	Nitrate Nitrogen (NO ₃ -N)	mg/L	0.3	0.3	10	OK
16	Sulfate (SO ₄ ²⁻)	mg/L	2.0	3.0	400	OK
17	Phosphate (PO ₄)	mg/L	Not measured		6	---
18	Free Chlorine	mg/L	0	0	0.2	OK
19	Temperature	°C	27.7	27.7	20-30	OK

- Note:**
1. Color, turbidity and COD concentration values of tap water sample exceed drinking water guideline numbers.
 2. Total hardness and Chloride concentration values of filter and tap water samples are below drinking water guideline numbers.
 3. Ammonia nitrogen concentration value of tap water sample is close to guideline value.