

**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		7.4	7.62	6.5-8.5	OK
2	Color	Pt-Co	10.0	<b>24.0</b>	15	Tap not OK
3	Turbidity	JTU	1.05	1.84	10	OK
4	Alkalinity (as CaCO <sub>3</sub> )	mg/L	Not measured		---	
5	Iron	mg/L	0.07	0.11	0.3-1.0	OK
6	Electrical Conductivity (EC)	μS/cm	181.1	173.2	---	---
7	Dissolve Oxygen (DO)	mg/L	<b>5.63</b>	7.78	6	Filter not OK
8	Total Hardness (as CaCO <sub>3</sub> )	mg/L	<b>126</b>	<b>128</b>	200-500	Not OK
9	Chloride (Cl <sup>-</sup> )	mg/L	<b>123</b>	<b>149</b>	150-600	Not OK
10	Chemical Oxygen Demand (COD)	mg/L	1.0	<b>6.0</b>	4	Tap not OK
11	Total Dissolved Solids	mg/L	376	360	1000	OK
12	Suspended Solids	mg/L	1.0	2.0	10	OK
13	Ammonia Nitrogen (NH <sub>3</sub> -N)	mg/L	0.04	0.1	0.5	OK
14	Nitrite Nitrogen (NO <sub>2</sub> -N)	mg/L	<b>1.0</b>	<b>1.0</b>	<1.0	Filter, Tap Not OK
15	Nitrate Nitrogen (NO <sub>3</sub> -N)	mg/L	0.1	0.3	10	OK
16	Sulfate (SO <sub>4</sub> <sup>2-</sup> )	mg/L	1.0	1.0	400	OK
17	Phosphate (PO <sub>4</sub> )	mg/L	0.2	0.3	6	OK
18	Free Chlorine	mg/L	Not measured		0.2	
19	Temperature	°C	21.4	21.5	20-30	OK
20	Fecal Coliform (E. Coli)	CFU/100 mL	Not measured		0	

