

Table 1 Physico-chemical parameters of surface water in the study area

Parameters/ Stations	Sandwip		Hatiya		Bhola		Barisal		Chandpur	
	M	PM	M	PM	M	PM	M	PM	M	PM
Air temperature (°C)	33	28	27.2	29	25.5	23	32	28	26	25
Water Temperature	31	23	28	22.5	28.5	21	29	22	29	21
Salinity (‰)	1	15	0	10	0	0	0	0	0	0
Secchi Depth (cm)	4	35	7	45	12	65	12	37	55	60
TSS (mg/L)	10.8275	1.2922	7.688	1.3377	3.6595	1.3007	5.4435	1.3267	0.3175	1.3332
TOM (mg/L)	0.856	0.6396	0.7955	0.6116	0.774	0.5361	0.79	0.5876	0.4835	0.5636
pH	6.4	7	6.4	7	6.8	6.5	7	6.6	7	6.5
DO (ml/L)	3.7	1.9	3.9	2	5.2	2.5	5.5	2.7	5.5	2.8
BOD ml/ L	17	0	21	2	38	13	35	6	34	7
CO2 (ml/L)	0.396	0.34	0.396	0.4	0.594	0.5	0.99	0.3	0.99	0.3
Alkalinity (mg/L)	2.1	1.05	1.5	1	1.8	1.05	0.7	1.1	ND	0.95
H ⁻ CO3 (mg/L)	0.000244	0.000244	0.0004	0.0002	0.0004	0.0004	0.0002	0.0003	0.0001	0.0004

Note: M= Monsoon; PM= Post-monsoon; ND = Not detected