

Water Quality at different locations of Upper Lake Jan - 2024 (Laboratory Analysis) Units mg/l													
S. No	St.Name & No.	Layer	Total Alkalinity (mg/l)	Carbonate alkalinity (mg/l)	Bi-Carbonate alkalinity (mg/l)	Total Hardness (mg/l)	Ca hardness (mg/l)	Mg hardness (mg/l)	Calcium content (mg/l)	Magnesium content (mg/l)	Chloride (mg/l)	BOD (mg/l)	COD (mg/l)
1	KOLANS (U/1)	Surface	54	Abs	54	78	52.5	25.5	22.1	6.2	12.99	6	12.0
		Bottom	58	Abs	58	86	56.7	29.3	23.8	7.1	17.98	8	20.0
2	BHORI (U/2)	Surface	60	4	56	84	54.6	29.4	22.9	7.1	15.98	4.8	12.0
		Bottom	68	Abs	68	90	58.8	31.2	24.7	7.6	19.98	6	20.0
3	BETHA. (U/3)	Surface	58	4	54	86	56.7	29.3	23.8	7.1	14.99	5.2	16.0
		Bottom	66	Abs	66	92	60.9	31.1	25.6	7.6	17.98	8	24.0
4	BAIRAGARH (U/4)	Surface	62	2	60	90	58.8	31.2	24.7	7.6	16.98	4.4	12.0
		Bottom	66	Abs	66	96	63.0	33.0	26.5	8.0	19.98	6	20.0
5	BAIRAGARH EAST (U/5)	Surface	60	4	56	88	60.9	27.1	25.6	6.6	15.98	5.2	12.0
		Bottom	64	Abs	64	94	65.1	28.9	27.3	7.0	18.98	8	24.0
6	KHANUGAU (U/6)	Surface	62	6	56	90	58.8	31.2	24.7	7.6	14.99	5.6	8.0
		Bottom	72	Abs	72	92	60.9	31.1	25.6	7.6	17.98	8	16.0
7	KARBALA (U/7)	Surface	66	4	62	86	58.8	27.2	24.7	6.6	15.98	5.2	20.0
		Bottom	74	Abs	74	90	60.9	29.1	25.6	7.1	19.98	8	24.0
8	MEDICAL COLLEGE (U/8)	Surface	62	6	56	92	65.1	26.9	27.3	6.5	16.98	4.8	12.0
		Bottom	70	Abs	70	96	67.2	28.8	28.2	7.0	18.98	6	20.0
9	KAMLA PARK (U/9)	Surface	60	4	56	86	58.8	27.2	24.7	6.6	16.98	5.6	12.0
		Bottom	72	Abs	72	92	63.0	29.0	26.5	7.0	20.98	8	20.0
10	YACHT CLUB (U/10)	Surface	64	4	60	90	63.0	27.0	26.5	6.6	16.98	5.2	20.0
		Bottom	74	Abs	74	94	65.1	28.9	27.3	7.0	19.98	8	28.0
11	VAN VIHAR (U/11)	Surface	66	6	60	88	60.9	27.1	25.6	6.6	15.98	5.6	16.0
		Bottom	76	Abs	76	96	67.2	28.8	28.2	7.0	17.98	10	28.0
12	SPILL CHANEL (U/12)	Surface	64	4	60	86	56.7	29.3	23.8	7.1	14.99	5.2	12.0
		Bottom	72	Abs	72	90	58.8	31.2	24.7	7.6	16.98	8	20.0
13	BHADBHADA (U/13)	Surface	70	4	66	90	63.0	27.0	26.5	6.6	17.98	5.6	20.0
		Bottom	78	Abs	78	94	65.1	28.9	27.3	7.0	21.98	10	28.0
14	STUD FARM (U/14)	Surface	62	4	58	88	56.7	31.3	23.8	7.6	15.98	4.8	16.0
		Bottom	68	Abs	68	92	58.8	33.2	24.7	8.1	18.98	6	20.0
15	BISEKHEDE (U/15)	Surface	64	6	58	86	52.5	33.5	22.1	8.1	16.98	5.2	12.0
		Bottom	74	Abs	74	94	58.8	35.2	24.7	8.6	19.98	8	24.0
16	A (Deeper Zone)	Surface	60	4	56	86	56.7	29.3	23.8	7.1	15.98	4.4	8.0
		Middle	66	Abs	66	92	60.9	31.1	25.6	7.6	17.98	6	16.0
		Bottom	72	Abs	72	96	63.0	33.0	26.5	8.0	20.98	8	20.0
17	B (Deeper Zone)	Surface	62	6	56	90	58.8	31.2	24.7	7.6	16.98	5.6	12.0
		Middle	68	Abs	68	94	60.9	33.1	25.6	8.0	19.98	6	20.0
		Bottom	74	Abs	74	96	63.0	33.0	26.5	8.0	21.98	8	24.0
18	C (Deeper Zone)	Surface	60	4	56	92	56.7	35.3	23.8	8.6	14.99	5.2	16.0
		Middle	66	Abs	66	96	60.9	35.1	25.6	8.5	17.98	8	20.0
		Bottom	70	Abs	70	98	65.1	32.9	27.3	8.0	19.98	10	28.0
		Min	54	2	54	78	52.5	25.5	22.05	6.1965	12.99	4.40	8
	Max	78	6	78	98	67.2	35.3	28.22	8.58	21.98	10.00	28	
	Mean	66.26	2	64.31	90.67	60.36	30.31	25.35	7.36	17.85	6.55	18.26	
Sample collected by				Sample analyzed by				Report prepared by					

Water Quality at different locations of Upper Lake: Jan 2024 (Field Analysis)													
S. No	St.Name & No.	Layer	Date	Time	Air Temp. °C	Water Temp. °C	pH	Free CO ₂ (mg/l)	Dissolved Oxygen (mg/l)	Conductivity (uS/cm)	TDS (mg/l)	Light (LUX)	Transparency (cm)
1	KOLANS (U/1)	Surface	10.01.24	1.45 pm	18.7	16.9	7.6	4	5.2	117	120	20.4	76
		Bottom			0	15.1	7.4	8	2.4	212	128		
2	BHORI (U/2)	Surface	10.01.24	1.25 pm	18.5	16.7	8	Abs	7.6	122	118	19.7	80
		Bottom			0	14.9	7.5	8	2.8	215	129		
3	BETHA. (U/3)	Surface	10.01.24	12.55 pm	18.3	16.5	7.9	Abs	7.2	118	116	19.3	78
		Bottom			0	14.7	7.5	6	3.2	205	125		
4	BAIRAGARH (U/4)	Surface	10.01.24	12.30 pm	18.1	16.3	7.8	Abs	6.8	115	113	18.6	76
		Bottom			0	14.5	7.4	8	2.0	119	122		
5	BAIRAGARH EAST (U/5)	Surface	09.01.24	2.15 pm	24.0	21.9	8	Abs	7.2	192	121	85.6	78
		Bottom			0	20.4	7.5	6	3.2	224	137		
6	KHANUGAU (U/6)	Surface	09.01.24	1.55 pm	23.8	21.8	8.1	Abs	7.6	188	115	82.7	80
		Bottom			0	20.2	7.6	6	4.0	218	134		
7	KARBALA (U/7)	Surface	09.01.24	1.20 pm	23.6	21.5	7.9	Abs	7.2	186	117	80.4	80
		Bottom			0	19.9	7.4	8	2.4	214	132		
8	MEDICAL COLLEGE (U/8)	Surface	09.01.24	12.50 pm	23.4	21.3	8.1	Abs	7.6	178	114	79.6	78
		Bottom			0	19.7	7.4	6	3.6	215	130		
9	KAMLA PARK (U/9)	Surface	09.01.24	12.15 pm	23.2	21.1	8	Abs	7.2	184	111	78.4	78
		Bottom			0	19.5	7.5	8	2.8	210	124		
10	YACHT CLUB (U/10)	Surface	11.01.24	12.30 pm	19.3	17.4	7.8	Abs	6.8	187	123	50.4	78
		Bottom			0	15.2	7.5	6	2.4	218	134		
11	VAN VIHAR (U/11)	Surface	11.01.24	12.50 pm	19.5	17.6	7.9	Abs	7.2	189	126	54.3	80
		Bottom			0	15.3	7.4	8	3.2	221	138		
12	SPILL CHANEL (U/12)	Surface	12.01.24	1.0 pm	23	20.6	8.0	Abs	7.6	188	128	88.4	80
		Bottom					18.8	7.5	6	2.4	215	134	
13	BHADBHADA (U/13)	Surface	12.01.24	12.30 pm	22.5	20.4	7.8	Abs	7.2	184	124	84.6	78
		Bottom			0	18.6	7.4	8	2.8	225	138		
14	STUD FARM (U/14)	Surface	10.01.24	2.15 pm	19.1	17.2	8.0	Abs	7.2	118	114	20.8	80
		Bottom			0.0	15.4	7.5	6	3.6	214	124		
15	BISENKHEDI (U/15)	Surface	10.01.24	2.35 pm	19.4	17.4	8	Abs	7.6	132	116	21.6	82
		Bottom			0.0	15.7	7	8	3.2	216	126		
16	A (Deeper Zone)	Surface	11.01.24	2.10 pm	2.0	18.4	8.0	Abs	7.6	190	124	60.4	78
		Middle			0.0	16.9	7.5	6	4.8	225	130		
		Bottom			0.0	15.8	7.3	8	3.6	245	138		
17	B (Deeper Zone)	Surface	11.01.24	1.45 pm	20.1	18.2	8.1	Abs	7.2	186	121	58.7	80
		Middle			0	16.8	7.6	4	4.0	222	128		
		Bottom			0	15.6	7.4	6	3.2	234	132		
18	C (Deeper Zone)	Surface	11.01.24	1.15 pm	19.8	17.8	8.0	Abs	7.6	180	118	56.6	78
		Middle			0	16.3	7.5	6	4.4	210	124		
		Bottom			0	15.4	7.4	8	2.8	218	136		
				Min	0	14.5	7.3	4.0	2.0	115.0	111.0	18.6	76.0
				Max	24	21.9	8.1	8.0	7.6	245.0	138.0	88.4	82.0
				Mean	9.51	17.8	7.7	6.7	5.0	190.5	125.1	54.4	78.8
Sample collected by				Sample analyzed by					Report prepared by				

Water Quality at different locations of Upper Lake: Feb 2024 (Field Analysis)

S. No	St.Name & No.	Layer	Date	Time	Air Temp. °C	Water Temp. °C	pH	Free CO ₂ (mg/l)	Dissolved Oxygen (mg./l)	Conductivity (uS/cm)	TDS (mg/l)	Light (LUX)	Transpare ncy (cm)
1	KOLANS (U/1)	Surface	15.02.24	1.55 pm	25.7	23.6	8	Abs	7.2	128	132	96.8	78
		Bottom				21.7	7.4	8	2.8	139	146		
2	BHORI (U/2)	Surface	15.02.24	1.35 pm	25.6	23.5	8.2	Abs	7.6	131	128	96.3	80
		Bottom				21.6	7.5	6	3.2	147	140		
3	BETHA. (U/3)	Surface	15.02.24	1.10 pm	25.4	23.3	8.1	Abs	8.0	124	125	95.6	78
		Bottom				21.5	7.6	6	4.0	138	142		
4	BAIRAGARH (U/4)	Surface	15.02.24	12.30 pm	25.2	23.1	8	Abs	7.6	121	122	95.2	80
		Bottom				21.4	7.5	8	3.2	135	138		
5	BAIRAGARH EAST (U/5)	Surface	12.02.24	2.15 pm	25.1	23.2	8.1	Abs	8.4	128	130	97.3	80
		Bottom				21.3	7.4	6	4.4	142	147		
6	KHANUGAU (U/6)	Surface	12.02.24	1.40 pm	24.9	23.1	8	Abs	8.0	122	128	96.5	80
		Bottom				21	7.5	4	4.0	134	140		
7	KARBALA (U/7)	Surface	12.02.24	1.10 pm	24.7	22.8	7.9	Abs	7.2	126	124	96.2	78
		Bottom				20.9	7.4	6	2.4	135	136		
8	MEDICAL COLLEGE (U/8)	Surface	12.02.24	12.45 pm	24.5	22.6	8.1	Abs	8.0	124	126	94.6	80
		Bottom				20.7	7.5	8	2.8	142	141		
9	KAMLA PARK (U/9)	Surface	12.02.24	12.30 pm	24.3	22.5	8	Abs	7.6	126	123	94.4	78
		Bottom				20.4	7.4	6	3.2	152	138		
10	YACHT CLUB (U/10)	Surface	16.02.24	12.15 pm	24.2	22.3	8.1	Abs	8.0	132	125	92.8	80
		Bottom				20.2	7.5	8	4.0	154	135		
11	VAN VIHAR (U/11)	Surface	16.02.24	12.55 pm	24.5	22.5	8	Abs	7.6	122	126	93.6	78
		Bottom				20.6	7.6	6	2.8	140	138		
12	SPILL CHANEL (U/12)	Surface	07.02.24	12.30 pm	24.4	22.6	8.0	Abs	8.0	124	128	95.4	80
		Bottom				20.8	7.5	6	4.4	138	136		
13	BHADBHADA (U/13)	Surface	07.02.24	1.0 pm	24.6	22.8	7.9	Abs	7.6	130	132	95.9	78
		Bottom				21	7.4	8	3.6	152	143		
14	STUD FARM (U/14)	Surface	15.02.24	2.15 pm	25.6	23.8	8.1	Abs	8.0	127	134	97.3	80
		Bottom				21.9	7.5	6	4.4	156	152		
15	BISEKHHEDI (U/15)	Surface	15.02.24	2.40 pm	26.1	24.0	8	Abs	8.4	125	136	98.4	82
		Bottom				22.2	7	4	4.8	134	156		
16	A (Deeper Zone)	Surface	16.02.24	2.30 pm	25.1	23.3	8.1	Abs	8.0	123	130	95.4	80
		Middle				21.8	7.5	4	4.4	132	139		
		Bottom				21.0	7.3	6	3.6	138	143		
17	B (Deeper Zone)	Surface	16.02.24	2.0 pm	24.8	23	8.0	Abs	7.2	126	128	94.4	80
		Middle				21.6	7.6	6	4.0	132	136		
		Bottom				20.7	7.4	8	2.8	140	144		
18	C (Deeper Zone)	Surface	16.02.24	1.25 pm	24.6	22.8	8.1	Abs	7.6	132	124	93.8	78
		Middle				21.3	7.5	4	4.8	138	140		
		Bottom				20.5	7.4	6	3.2	142	152		
				Min	20.2	20.2	7.3	4.0	2.4	121.0	122.0	92.8	78.0
				Max	26.1	24	8.2	8.0	8.4	156.0	156.0	98.4	82.0
				Mean	24.78	22.03	7.7	6.2	5.6	134.3	135.6	95.6	79.4
Sample collected by				Sample analyzed by				Report prepared by					

Table-1 Water Quality at different locations of Upper Lake Feb - 2024 (Laboratory Analysis) Units mg/l

S. No	St.Name & No.	Layer	Total Alkalinity (mg/l)	Carbonate alkalinity (mg/l)	Bi-Carbonate alkalinity (mg/l)	Total Hardness (mg/l)	Ca hardness (mg/l)	Mg hardness (mg/l)	Calcium content (mg/l)	Magnesium content (mg/l)	Chloride (mg/l)	BOD (mg/l)	COD (mg/l)
1	KOLANS (U/1)	Surface	52	4	48	80	54.6	25.4	22.9	6.2	13.99	4	12.0
		Bottom	56	Abs	56	88	58.8	29.2	24.7	7.1	16.98	6	20.0
2	BHORI (U/2)	Surface	58	6	52	82	52.5	29.5	22.1	7.2	14.99	4.8	16.0
		Bottom	64	Abs	64	86	54.6	31.4	22.9	7.6	17.98	8	24.0
3	BETHA. (U/3)	Surface	56	4	52	84	54.6	29.4	22.9	7.1	13.99	5.2	20.0
		Bottom	60	Abs	60	90	58.8	31.2	24.7	7.6	15.98	8	28.0
4	BAIRAGARH (U/4)	Surface	54	6	48	92	63.0	29.0	26.5	7.0	14.99	4.4	16.0
		Bottom	58	Abs	58	98	67.2	30.8	28.2	7.5	18.98	6	28.0
5	BAIRAGARH EAST (U/5)	Surface	60	6	54	86	58.8	27.2	24.7	6.6	13.99	4.8	20.0
		Bottom	62	Abs	62	92	63.0	29.0	26.5	7.0	17.98	6	28.0
6	KHANUGAU (U/6)	Surface	58	6	52	88	58.8	29.2	24.7	7.1	14.99	5.2	24.0
		Bottom	64	Abs	64	94	63.0	31.0	26.5	7.5	16.98	8	28.0
7	KARBALA (U/7)	Surface	62	6	56	90	56.7	33.3	23.8	8.1	14.99	5.6	20.0
		Bottom	66	Abs	66	92	58.8	33.2	24.7	8.1	17.98	8	28.0
8	MEDICAL COLLEGE (U/8)	Surface	58	6	52	88	54.6	33.4	22.9	8.1	15.98	5.2	20.0
		Bottom	68	Abs	68	94	56.7	37.3	23.8	9.1	18.98	8	32.0
9	KAMLA PARK (U/9)	Surface	56	4	52	88	56.7	31.3	23.8	7.6	14.99	4.8	16.0
		Bottom	66	Abs	66	92	58.8	33.2	24.7	8.1	19.98	6	24.0
10	YACHT CLUB (U/10)	Surface	62	6	56	90	58.8	31.2	24.7	7.6	15.98	5.2	20.0
		Bottom	70	Abs	70	96	63.0	33.0	26.5	8.0	17.98	8	24.0
11	VAN VIHAR (U/11)	Surface	60	6	54	90	63.0	27.0	26.5	6.6	13.99	5.6	24.0
		Bottom	64	Abs	64	94	65.1	28.9	27.3	7.0	16.98	8	28.0
12	SPILL CHANEL (U/12)	Surface	58	4	54	88	56.7	31.3	23.8	7.6	15.98	5.2	16.0
		Bottom	66	Abs	66	92	58.8	33.2	24.7	8.1	18.98	8	20.0
13	BHADBHADA (U/13)	Surface	66	4	62	94	63.0	31.0	26.5	7.5	16.98	5.6	20.0
		Bottom	72	Abs	72	98	65.1	32.9	27.3	8.0	20.98	8	32.0
14	STUD FARM (U/14)	Surface	60	6	54	92	56.7	35.3	23.8	8.6	14.99	4.8	16.0
		Bottom	66	Abs	66	96	58.8	37.2	24.7	9.0	18.98	6	20.0
15	BISEKHEDE (U/15)	Surface	56	6	50	88	54.6	33.4	22.9	8.1	15.98	4.4	12.0
		Bottom	62	Abs	62	98	60.9	37.1	25.6	9.0	19.98	6	20.0
16	A (Deeper Zone)	Surface	58	6	52	86	52.5	33.5	22.1	8.1	14.99	4.8	16.0
		Middle	62	Abs	62	90	54.6	35.4	22.9	8.6	16.98	6	20.0
		Bottom	66	Abs	66	94	56.7	37.3	23.8	9.1	19.98	8	24.0
17	B (Deeper Zone)	Surface	54	4	50	88	56.7	31.3	23.8	7.6	16.98	5.2	16.0
		Middle	58	Abs	58	92	58.8	33.2	24.7	8.1	18.98	8	20.0
		Bottom	64	Abs	64	96	60.9	35.1	25.6	8.5	20.98	10	28.0
18	C (Deeper Zone)	Surface	60	6	54	90	54.6	35.4	22.9	8.6	15.98	5.6	16.0
		Middle	62	Abs	62	94	56.7	37.3	23.8	9.1	17.98	8	24.0
		Bottom	68	Abs	68	98	58.8	39.2	24.7	9.5	19.98	10	28.0
		Min	52	4	48	80	52.5	25.4	22.05	6.1722	13.99	4.00	12
		Max	72	6	72	98	67.2	39.2	28.22	9.53	20.98	10.00	32
		Mean	61.33	4	58.87	90.97	58.58	32.39	24.61	7.87	17.06	6.37	21.74

Sample collected by

Sample analyzed by

Report prepared by

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Water Quality at different locations of Upper Lake: March - 2024 (Field Analysis)																
S. No	St.Name & No.	Layer	Date	Time	Air Temp. °C	Water Temp. °C	pH	Free CO ₂ (mg/l)	Dissolved Oxygen (mg./l)	Conductivity (uS/cm)	TDS (mg/l)	Light (LUX)	Transpar ency (cm)			
1	KOLANS (U/1)	Surface	14.03.24	1.50 pm	31.3	28.3	8	Abs	7.6	123	126	106.6	80			
		Bottom				26.0	7.5	6	4.8	139	135					
2	BHORI (U/2)	Surface	14.03.24	1.15 pm	31	28.1	8.1	Abs	8.4	126	122	106.2	82			
		Bottom				25.9	7.8	Abs	6.8	140	134					
3	BETHA. (U/3)	Surface	14.03.24	12.40 pm	30.7	27.8	8.2	Abs	8.0	122	117	104.7	78			
		Bottom				25.7	7.7	Abs	7.2	138	134					
4	BAIRAGARH (U/4)	Surface	14.03.24	12.05 pm	30.5	27.5	8.3	Abs	8.8	124	114	102.6	80			
		Bottom				25.6	7.8	Abs	7.6	136	124					
5	BAIRAGARH EAST (U/5)	Surface	13.03.24	2.15 pm	30.5	27.9	8.2	Abs	8.4	128	128	107.6	78			
		Bottom				25.8	7.9	Abs	7.2	140	130					
6	KHANUGAU (U/6)	Surface	13.03.24	1.45 pm	30.1	27.7	8.1	Abs	8.8	125	124	105.4	80			
		Bottom				25.6	7.7	Abs	7.6	137	142					
7	KARBALA (U/7)	Surface	13.03.24	1.20 pm	29.8	27.4	8.3	Abs	8.4	126	120	99.9	78			
		Bottom				25.5	7.8	Abs	7.2	142	138					
8	MEDICAL COLLEGE (U/8)	Surface	13.03.24	12.50 pm	29.6	27.1	8.1	Abs	7.6	122	116	99.6	80			
		Bottom				25.2	7.5	6	4.0	136	132					
9	KAMLA PARK (U/9)	Surface	13.03.24	12.10 pm	29.3	26.8	8.2	Abs	8.0	124	112	98.7	80			
		Bottom				24.7	7.6	4	4.4	138	128					
10	YACHT CLUB (U/10)	Surface	15.03.24	12.20 pm	29.5	27.0	8.1	Abs	8.4	125	123	98.9	78			
		Bottom				25.6	7.5	6	5.2	139	135					
11	VAN VIHAR (U/11)	Surface	15.03.24	12.45 pm	29.7	27.3	8.2	Abs	8.8	131	128	99.6	80			
		Bottom				25.7	7.8	Abs	7.6	140	138					
12	SPILL CHANEL (U/12)	Surface	18.03.24	12.10 pm	28.7	27.1	8.1	Abs	8.0	128	118	99.2	80			
		Bottom				25.5	7.8	Abs	7.2	142	136					
13	BHADBHADA (U/13)	Surface	18.03.24	11.40 am	28.5	26.8	8.0	Abs	7.6	124	114	98.4	78			
		Bottom				25.2	7.4	8	3.6	135	128					
14	STUD FARM (U/14)	Surface	14.03.24	2.10 pm	31.5	28.4	8.2	Abs	8.8	126	124	106.8	82			
		Bottom				26.2	7.8	Abs	7.6	136	130					
15	BISEKHHEDI (U/15)	Surface	14.03.24	2.30 pm	31.6	28.6	8.1	Abs	8.0	125	126	106.9	80			
		Bottom				26.3	7.7	Abs	7.2	139	134					
16	A (Deeper Zone)	Surface	15.03.24	2.15 pm	30.6	27.8	8.2	Abs	8.8	127	120	106.9	80			
		Middle							27.0	7.9	Abs	7.6	135	134		
		Bottom							26.1	7.6	6	5.2	142	144		
17	B (Deeper Zone)	Surface	15.03.24	1.45 pm	30.2	27.7	8.1	Abs	8.4	128	118	105.3	80			
		Middle							26.9	7.8	Abs	6.8	136	126		
		Bottom							25.8	7.5	4	4.0	144	138		
18	C (Deeper Zone)	Surface	15.03.24	1.10 pm	29.9	27.5	8.2	Abs	8.8	126	114	104.7	78			
		Middle							26.8	7.9	Abs	7.2	134	128		
		Bottom							25.7	7.6	6	4.4	142	140		
				Min	28.5	24.7	7.4	4.0	3.6	122.0	112.0	98.4	78.0			
				Max	31.6	28.6	8.3	8.0	8.8	144.0	144.0	107.6	82.0			
				Mean	30.16	26.7	7.9	5.8	7.1	132.6	127.5	103.2	79.6			
Sample collected by				Sample analyzed by					Report prepared by							

Table-1 Water Quality at different locations of Upper Lake March - 2024 (Laboratory Analysis) Units mg/l

S. No	St.Name & No.	Layer	Total Alkalinity (mg/l)	Carbonate alkalinity (mg/l)	Bi-Carbonate alkalinity (mg/l)	Total Hardness (mg/l)	Ca hardness (mg/l)	Mg hardness (mg/l)	Calcium content (mg/l)	Magnesium content (mg/l)	Chloride (mg/l)	BOD (mg/l)
1	KOLANS (U/1)	Surface	56	6	50	84	56.7	27.3	23.8	6.6	15.98	5.2
		Bottom	60	4	56	94	60.9	33.1	25.6	8.0	17.98	8
2	BHORI (U/2)	Surface	58	8	50	86	54.6	31.4	22.9	7.6	16.98	4.4
		Bottom	62	6	56	90	56.7	33.3	23.8	8.1	18.98	4.8
3	BETHA. (U/3)	Surface	54	6	48	88	58.8	29.2	24.7	7.1	15.98	4.8
		Bottom	58	4	54	96	63.0	33.0	26.5	8.0	16.98	5.2
4	BAIRAGARH (U/4)	Surface	56	8	48	90	58.8	31.2	24.7	7.6	16.98	5.2
		Bottom	62	4	58	98	65.1	32.9	27.3	8.0	18.98	5.6
5	BAIRAGARH EAST (U/5)	Surface	58	6	52	86	56.7	29.3	23.8	7.1	14.99	4.4
		Bottom	62	4	58	94	60.9	33.1	25.6	8.0	17.98	5.6
6	KHANUGAU (U/6)	Surface	56	8	48	84	52.5	31.5	22.1	7.7	15.98	4.8
		Bottom	64	4	60	92	58.8	33.2	24.7	8.1	18.98	5.2
7	KARBALA (U/7)	Surface	60	6	54	90	58.8	31.2	24.7	7.6	14.99	5.2
		Bottom	64	4	60	94	60.9	33.1	25.6	8.0	16.98	6
8	MEDICAL COLLEGE (U/8)	Surface	56	4	52	88	54.6	33.4	22.9	8.1	16.98	4.8
		Bottom	66	Abs	66	96	60.9	35.1	25.6	8.5	19.98	6
9	KAMLA PARK (U/9)	Surface	54	6	48	90	56.7	33.3	23.8	8.1	15.98	5.2
		Bottom	62	Abs	62	98	63.0	35.0	26.5	8.5	17.98	8
10	YACHT CLUB (U/10)	Surface	64	6	58	92	60.9	31.1	25.6	7.6	14.99	4.4
		Bottom	68	Abs	68	98	65.1	32.9	27.3	8.0	16.98	6
11	VAN VIHAR (U/11)	Surface	62	6	56	88	56.7	31.3	23.8	7.6	15.98	4.8
		Bottom	66	4	62	96	63.0	33.0	26.5	8.0	18.98	5.6
12	SPILL CHANEL (U/12)	Surface	60	6	54	86	54.6	31.4	22.9	7.6	14.99	4.4
		Bottom	64	4	60	94	58.8	35.2	24.7	8.6	17.98	5.2
13	BHADBHADA (U/13)	Surface	66	6	60	92	60.9	31.1	25.6	7.6	18.98	5.2
		Bottom	70	Abs	70	98	63.0	35.0	26.5	8.5	20.98	8
14	STUD FARM (U/14)	Surface	60	8	52	90	58.8	31.2	24.7	7.6	13.99	4.8
		Bottom	64	6	58	96	63.0	33.0	26.5	8.0	15.98	5.6
15	BISEKHEDE (U/15)	Surface	58	6	52	88	56.7	31.3	23.8	7.6	16.98	4.4
		Bottom	64	4	60	94	60.9	33.1	25.6	8.0	18.98	5.2
16	A (Deeper Zone)	Surface	60	8	52	88	54.6	33.4	22.9	8.1	15.98	4.4
		Middle	64	6	58	94	58.8	35.2	24.7	8.6	17.98	5.2
		Bottom	66	Abs	66	98	60.9	37.1	25.6	9.0	19.98	8
17	B (Deeper Zone)	Surface	56	6	50	92	58.8	33.2	24.7	8.1	17.98	4.8
		Middle	60	4	56	96	60.9	35.1	25.6	8.5	20.98	5.6
		Bottom	64	Abs	64	102	63.0	39.0	26.5	9.5	21.98	8
18	C (Deeper Zone)	Surface	58	8	50	90	56.7	33.3	23.8	8.1	15.98	5.2
		Middle	62	4	58	94	58.8	35.2	24.7	8.6	18.98	5.6
		Bottom	66	Abs	66	100	63.0	37.0	26.5	9.0	30.97	10

	Min	54	4	48	84	52.5	27.3	22.05	6.6339	13.99	4.40
	Max	70	8	70	102	65.1	39	27.34	9.48	30.97	10.00
	Mean	61.28	4	56.67	92.41	59.39	33.02	24.94	8.02	17.85	5.61

Sample collected by	Sample analyzed by	Report prepared by
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COD (mg/l)
20.0
24.0
16.0
20.0
20.0
24.0
24.0
28.0
16.0
24.0
20.0
28.0
24.0
36.0
20.0
32.0
24.0
32.0
20.0
28.0
20.0
24.0
16.0
24.0
24.0
32.0
20.0
28.0
20.0
24.0
16.0
20.0
24.0
20.0
28.0
32.0
24.0
28.0
36.0

16
36
24.10

Water Quality at different locations of Upper Lake:April - 2024 (Field Analysis)

S. No	St.Name & No.	Layer	Date	Time	Air Temp. °C	Water Temp. °C	pH	Free CO ₂ (mg/l)	Dissolved Oxygen (mg./l)	Conductivity (uS/cm)	TDS (mg/l)	Light (LUX)	Transparency (cm)
1	KOLANS (U/1)	Surface	5.04.24	1.30 pm	34.9	32.6	8.1	Abs	8.4	128	122	101.3	80
		Bottom				30.9	7.8	Abs	7.2	140	136		
2	BHORI (U/2)	Surface	5.04.24	12.55 pm	34.7	32.5	8.2	Abs	8.8	124	116	98.6	82
		Bottom				30.7	8.1	Abs	7.6	132	134		
3	BETHA. (U/3)	Surface	5.04.24	12.05 pm	34.5	32.4	8.4	Abs	9.2	125	118	97.7	78
		Bottom				30.5	8.0	Abs	8.0	140	138		
4	BAIRAGARH (U/4)	Surface	5.04.24	11.40 am	34.1	32.3	8.3	Abs	8.4	123	112	96.8	80
		Bottom				30.1	7.8	Abs	7.6	135	130		
5	BAIRAGARH EAST (U/5)	Surface	4.04.24	2.10 pm	35.1	33.1	8.2	Abs	8.8	132	123	102.8	80
		Bottom				31.2	7.9	Abs	7.2	145	135		
6	KHANUGAU (U/6)	Surface	4.04.24	1.40 pm	34.8	32.8	8.3	Abs	9.2	129	125	102.4	78
		Bottom				30.7	8.0	Abs	8.0	143	130		
7	KARBALA (U/7)	Surface	4.04.24	1.15 pm	34.6	32.7	8.2	Abs	8.4	127	124	99.7	80
		Bottom				30.6	8.0	Abs	7.2	140	132		
8	MEDICAL COLLEGE (U/8)	Surface	4.04.24	12.50 pm	34.5	32.5	8.3	Abs	9.2	124	112	97.8	78
		Bottom				30.4	8.0	Abs	8.0	138	120		
9	KAMLA PARK (U/9)	Surface	4.04.24	12.30 pm	34.3	32.4	8.2	Abs	8.8	126	114	95.6	80
		Bottom				30.3	7.9	Abs	7.6	134	124		
10	YACHT CLUB (U/10)	Surface	8.04.24	11.45 am	31.3	29.6	8.1	Abs	8.0	123	115	98.3	78
		Bottom				27.7	7.8	Abs	7.2	138	135		
11	VAN VIHAR (U/11)	Surface	8.04.24	12.30 pm	31.5	29.8	8.2	Abs	8.4	128	120	98.8	80
		Bottom				28.0	8.0	Abs	7.6	144	140		
12	SPILL CHANEL (U/12)	Surface	12.04.24	12.30 pm	31	30.2	8.2	Abs	8.4	124	116	98.3	80
		Bottom				28.7	7.8	Abs	7.2	148	134		
13	BHADBHADA (U/13)	Surface	12.04.24	12.05 pm	30.8	29.7	8.1	Abs	7.6	127	114	96.5	78
		Bottom				28.2	7.5	8	4.4	140	128		
14	STUD FARM (U/14)	Surface	5.04.24	1.45 pm	35.2	33.1	8.3	Abs	9.2	130	126	104.3	82
		Bottom				31.2	8.1	Abs	8.4	145	139		
15	BISEKHEDE (U/15)	Surface	5.04.24	2.15 pm	35.4	33.3	8.2	Abs	8.8	132	128	105.2	80
		Bottom				31.4	8.0	Abs	8.0	148	142		
16	A (Deeper Zone)	Surface	8.04.24	2.25 pm	33.0	31.2	8.2	Abs	8.8	120	124	103.6	80
		Middle				29.7	8.0	Abs	8.0	144	148		
		Bottom				29.0	7.9	Abs	7.2	158	160		
17	B (Deeper Zone)	Surface	8.04.24	1.55 pm	32.6	30.8	8.1	Abs	9.2	128	118	102.3	82
		Middle				29.5	7.9	Abs	8.4	139	136		
		Bottom				28.8	7.8	Abs	7.6	152	154		
18	C (Deeper Zone)	Surface	8.04.24	1.05 pm	31.9	30.3	8.3	Abs	8.8	125	116	101.2	80
		Middle				28.7	8.0	Abs	8.0	137	132		
		Bottom				28.0	7.8	Abs	7.2	141	140		
				Min	30.8	27.7	7.5	8.0	4.4	120.0	112.0		78.0
				Max	35.4	33.3	8.4	8.0	9.2	158.0	160.0		82.0
				Mean	33.52	30.6	8.0	8.0	8.0	135.0	128.8		79.8

Sample collected by

Sample analyzed by

Report prepared by



Water Quality at different locations of Upper Lake April - 2024 (Laboratory Analysis) Units mg/l

S. No	St.Name & No.	Layer	Total Alkalinity (mg/l)	Carbonate alkalinity (mg/l)	Bi-Carbonate alkalinity (mg/l)	Total Hardness (mg/l)	Ca hardness (mg/l)	Mg hardness (mg/l)	Calcium content (mg/l)	Magnesium content (mg/l)	Chloride (mg/l)	BOD (mg/l)
1	KOLANS (U/1)	Surface	58	6	52	86	58.8	27.2	24.7	6.6	17.98	4.4
		Bottom	62	4	58	96	63.0	33.0	26.5	8.0	19.98	5.6
2	BHORI (U/2)	Surface	56	8	48	84	52.5	31.5	22.1	7.7	15.98	4.8
		Bottom	60	6	54	90	56.7	33.3	23.8	8.1	17.98	6
3	BETHA. (U/3)	Surface	58	10	48	88	60.9	27.1	25.6	6.6	16.98	5.2
		Bottom	64	6	58	94	65.1	28.9	27.3	7.0	18.98	6
4	BAIRAGARH (U/4)	Surface	56	8	48	90	58.8	31.2	24.7	7.6	14.99	4.8
		Bottom	60	4	56	96	63.0	33.0	26.5	8.0	16.98	5.6
5	BAIRAGARH EAST (U/5)	Surface	54	6	48	88	54.6	33.4	22.9	8.1	15.98	4.4
		Bottom	62	4	58	92	58.8	33.2	24.7	8.1	18.98	5.2
6	KHANUGAU (U/6)	Surface	58	8	50	90	56.7	33.3	23.8	8.1	16.98	5.2
		Bottom	62	4	58	96	60.9	35.1	25.6	8.5	19.98	6.4
7	KARBALA (U/7)	Surface	60	6	54	94	63.0	31.0	26.5	7.5	17.98	4.4
		Bottom	64	4	60	98	67.2	30.8	28.2	7.5	20.98	5.6
8	MEDICAL COLLEGE (U/8)	Surface	58	10	48	92	56.7	35.3	23.8	8.6	14.99	4.8
		Bottom	62	6	56	96	63.0	33.0	26.5	8.0	17.98	6
9	KAMLA PARK (U/9)	Surface	56	8	48	92	58.8	33.2	24.7	8.1	16.98	5.2
		Bottom	60	4	56	98	63.0	35.0	26.5	8.5	18.98	6.4
10	YACHT CLUB (U/10)	Surface	62	6	56	96	63.0	33.0	26.5	8.0	15.98	5.6
		Bottom	66	4	62	100	67.2	32.8	28.2	8.0	17.98	6.4
11	VAN VIHAR (U/11)	Surface	56	8	48	92	58.8	33.2	24.7	8.1	16.98	4.8
		Bottom	60	4	56	100	65.1	34.9	27.3	8.5	19.98	6
12	SPILL CHANEL (U/12)	Surface	62	6	56	90	56.7	33.3	23.8	8.1	14.99	4.4
		Bottom	64	4	60	94	60.9	33.1	25.6	8.0	16.98	5.2
13	BHADBHADA (U/13)	Surface	64	6	58	96	63.0	33.0	26.5	8.0	17.98	5.2
		Bottom	68	Abs	68	104	67.2	36.8	28.2	8.9	19.98	8
14	STUD FARM (U/14)	Surface	58	10	48	96	63.0	33.0	26.5	8.0	14.99	4.8
		Bottom	62	6	56	100	65.1	34.9	27.3	8.5	16.98	5.2
15	BISEKHEDE (U/15)	Surface	56	8	48	94	58.8	35.2	24.7	8.6	16.98	4.4
		Bottom	60	4	56	98	63.0	35.0	26.5	8.5	18.98	5.2
16	A (Deeper Zone)	Surface	62	8	54	90	56.7	33.3	23.8	8.1	15.98	4.8
		Middle	66	6	60	94	60.9	33.1	25.6	8.0	17.98	5.2
		Bottom	70	6	64	100	65.1	34.9	27.3	8.5	19.98	5.6
17	B (Deeper Zone)	Surface	58	10	48	96	60.9	35.1	25.6	8.5	16.98	4.4
		Middle	62	6	56	100	63.0	37.0	26.5	9.0	18.98	5.6
		Bottom	64	4	60	102	67.2	34.8	28.2	8.5	20.98	6
18	C (Deeper Zone)	Surface	56	8	48	96	58.8	37.2	24.7	9.0	18.98	5.2
		Middle	60	6	54	98	63.0	35.0	26.5	8.5	19.98	5.6
		Bottom	62	4	58	102	65.1	36.9	27.3	9.0	21.98	6.4

		Min	54	4	48	84	52.5	27.1	22.05	6.5853	14.99	4.40
		Max	70	10	68	104	67.2	37.2	28.22	9.04	21.98	8.00
		Mean	60.72	4	48	94.82	61.38	33.44	25.78	8.12	17.96	5.38
Sample collected by				Sample analyzed by				Report prepared by				

COD (mg/l)
12.0
20.0
16.0
24.0
16.0
28.0
16.0
24.0
12.0
16.0
20.0
28.0
16.0
24.0
16.0
28.0
24.0
28.0
16.0
28.0
16.0
28.0
12.0
20.0
24.0
32.0
12.0
20.0
16.0
24.0
16.0
20.0
24.0
12.0
20.0
24.0
16.0
24.0
28.0

12
32
20.51