

Water Quality at different locations of Upper Lake: Jan - 20

S. No	St.Name & No.	Layer	Date	Time	Air Temp. °C	Water Temp. °C	pH
1	KOLANS (U/1)	Surface	25.01.22	3.20 pm	22	19.7	8.3
		Bottom			0	19.1	7.4
2	BHORI (U/2)	Surface	25.01.22	3.0 pm	21.8	19.5	8.5
		Bottom			0	19	7.6
3	BETHA. (U/3)	Surface	25.01.22	2.40 pm	21.5	19.3	8.4
		Bottom			0	18.5	7.5
4	BAIRAGARH (U/4)	Surface	25.01.22	2.08 pm	21.4	19.1	8.5
		Bottom			0	18.4	7.4
5	BAIRAGARH EAST (U/5)	Surface	24.01.22	3.0 pm	22.1	19.3	8.8
		Bottom			0	18.7	7.6
6	KHANUGAU (U/6)	Surface	24.01.22	2.30 pm	22	19.2	8.9
		Bottom			0	18.6	7.7
7	KARBALA (U/7)	Surface	24.01.22	2.10 pm	20.1	18.3	8.7
		Bottom			0	17.6	7.4
8	MEDICAL COLLEGE (U/8)	Surface	24.01.22	1.40 pm	19.5	17.8	8.8
		Bottom			0	17.5	7.5
9	KAMLA PARK (U/9)	Surface	24.01.22	1.0 pm	19.2	17.6	8.7
		Bottom			0	17.3	7.6
10	YACHT CLUB (U/10)	Surface	27.01.22	12.45 pm	20	19.1	8.4
		Bottom			0	18.5	7.5
11	VAN VIHAR (U/11)	Surface	27.01.22	3.0 pm	22.3	19.4	8.3
		Bottom			0	18.5	7.4
12	SPILL CHANEL (U/12)	Surface	28.01.22	1.30 pm	21.4	19.4	8.2
		Bottom			0	18.8	7.4
13	BHADBHADA (U/13)	Surface	28.01.22	2.0 pm	21.6	19.6	8.3
		Bottom			0	19.1	7.5
14	STUD FARM (U/14)	Surface	25.01.22	4.0 pm	21.9	19.6	8.4
		Bottom			0.0	19.0	7.5
15	BISEKHEDE (U/15)	Surface	25.01.22	3.40 pm	22.1	19.8	8.3
		Bottom			0.0	19.3	7.5
16	A (Deeper Zone)	Surface	27.01.22	2.40 pm	21.0	19.6	8.4
		Middle			0.0	19.2	8.0
		Bottom			0.0	18.8	7.4
17	B (Deeper Zone)	Surface	27.01.22	2.0 pm	20.5	19.5	8.5
		Middle			0	19.1	7.9
		Bottom			0	18.4	7.5
18	C (Deeper Zone)	Surface	27.01.22	1.30 pm	20.3	19.3	8.4
		Middle			0	19.0	8.1
		Bottom			0	18.7	7.4
				Min	0	17.3	7.4
				Max	22.3	19.8	8.9
				Mean	9.83	18.9	8.0
Sample collected by				Sample analyzed by			

122 (Field Analysis)

Free CO ₂ (mg/l)	Dissolved Oxygen (mg./l)	Conducti vity (mS/cm)	TDS (mg/l)	Transpar ency (cm)
Abs	8.0	0.45	272	82
6	6.0	0.47	288	
Abs	7.2	0.44	269	84
4	5.2	0.47	285	
Abs	8.0	0.44	270	80
4	6.4	0.46	282	
Abs	7.6	0.44	269	84
4	6.0	0.45	273	
Abs	8.4	0.44	268	74
4	6.4	0.44	271	
Abs	8.8	0.44	267	76
4	6.0	0.44	270	
Abs	8.4	0.44	269	74
4	6.0	0.44	271	
Abs	8.0	0.44	267	74
2	6.4	0.45	277	
Abs	7.6	0.44	268	76
2	6.0	0.46	278	
Abs	8.0	0.44	270	78
6	6.4	0.45	272	
Abs	8.4	0.44	271	76
4	5.6	0.46	280	
Abs	8.0	0.44	269	78
4	5.2	0.45	275	
Abs	7.6	0.44	270	76
4	4.8	0.46	282	
Abs	7.2	0.44	270	76
6	4.4	0.46	282	
Abs	8.4	0.44	268	78
4	5.6	0.45	272	
Abs	8.4	0.44	267	76
Abs	7.2	0.44	271	
4	5.6	0.46	283	
Abs	8.0	0.44	266	78
Abs	6.8	0.45	272	
6	5.2	0.47	284	
Abs	8.0	0.44	269	76
Abs	7.6	0.44	271	
4	6.0	0.46	282	
2.0	0.0	0.00		74.0
6.0	0.0	0.00		84.0
4.2	0.0	0.00		77.7
		0.00		
	Report prepared by			

Table-1 Water Quality at different locations of Upper Lake Jan - 202

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)
1	KOLANS (U/1)	Surface	96	4	92	100	79.8
		Bottom	104	Abs	104	106	84.0
2	BHORI (U/2)	Surface	92	6	86	120	73.5
		Bottom	106	Abs	106	128	79.8
3	BETHA. (U/3)	Surface	96	2	94	116	73.5
		Bottom	110	Abs	110	124	77.7
4	BAIRAGARH (U/4)	Surface	94	4	90	98	84.0
		Bottom	114	Abs	114	106	90.3
5	BAIRAGARH EAST (U/5)	Surface	104	6	98	120	73.5
		Bottom	110	Abs	110	128	79.8
6	KHANUGAU (U/6)	Surface	102	8	94	120	79.8
		Bottom	106	Abs	106	130	86.1
7	KARBALA (U/7)	Surface	106	6	100	102	84.0
		Bottom	114	Abs	114	114	92.4
8	MEDICAL COLLEGE (U/8)	Surface	108	6	102	94	79.8
		Bottom	112	Abs	112	108	84.0
9	KAMLA PARK (U/9)	Surface	106	4	102	112	75.6
		Bottom	108	Abs	108	118	84.0
10	YACHT CLUB (U/10)	Surface	100	4	96	110	77.7
		Bottom	110	Abs	110	120	86.1
11	VAN VIHAR (U/11)	Surface	102	6	96	134	86.1
		Bottom	110	Abs	110	138	90.3
12	SPILL CHANEL (U/12)	Surface	100	4	96	114	86.1
		Bottom	108	Abs	108	122	92.4
13	BHADBHADA (U/13)	Surface	102	6	96	112	92.4
		Bottom	108	Abs	108	120	96.6
14	STUD FARM (U/14)	Surface	108	4	104	132	88.2
		Bottom	114	Abs	114	136	92.4
15	BISEKHEDE (U/15)	Surface	102	6	96	120	84.0
		Bottom	112	Abs	112	134	94.5
16	A (Deeper Zone)	Surface	102	6	96	124	84.0
		Middle	108	4	104	130	90.3
		Bottom	112	Abs	112	136	94.5
17	B (Deeper Zone)	Surface	104	4	100	120	79.8
		Middle	106	2	104	124	86.1
		Bottom	110	Abs	110	130	92.4
18	C (Deeper Zone)	Surface	104	6	98	116	79.8
		Middle	110	2	108	126	84.0
		Bottom	114	Abs	114	132	88.2
		Min	92	2	86	94	73.5
		Max	114	8	114	138	96.6
		Mean	106.00	2	103.44	119.85	84.81

Sample collected by

Sample analyzed by

2 (Laboratory Analysis) Units mg/l

Mg hardness (mg/l)	Calcium content (mg/l)	Magnesium content (mg/l)	Chloride (mg/l)	BOD (mg/l)	COD (mg/l)
20.2	33.5	4.9	19.98	4.8	36.0
22.0	35.3	5.3	20.98	10	44.0
46.5	30.9	11.3	20.98	5.2	32.0
48.2	33.5	11.7	21.98	8	40.0
42.5	30.9	10.3	19.98	4	48.0
46.3	32.6	11.3	20.98	10	56.0
14.0	35.3	3.4	18.98	3.6	44.0
15.7	37.9	3.8	20.98	6	52.0
46.5	30.9	11.3	17.98	4.4	36.0
48.2	33.5	11.7	19.98	8	48.0
40.2	33.5	9.8	20.98	4.8	40.0
43.9	36.2	10.7	22.98	10	56.0
18.0	35.3	4.4	17.98	4	28.0
21.6	38.8	5.2	20.98	6	36.0
14.2	33.5	3.5	19.98	4	52.0
24.0	35.3	5.8	21.98	8	60.0
36.4	31.8	8.8	18.98	5.2	36.0
34.0	35.3	8.3	20.98	8	48.0
32.3	32.6	7.8	16.98	4.8	40.0
33.9	36.2	8.2	19.98	8	52.0
47.9	36.2	11.6	19.98	4.4	36.0
47.7	37.9	11.6	20.98	8	48.0
27.9	36.2	6.8	18.98	4	44.0
29.6	38.8	7.2	19.98	8	56.0
19.6	38.8	4.8	20.98	5.2	48.0
23.4	40.6	5.7	22.98	10	60.0
43.8	37.0	10.6	18.98	4	40.0
43.6	38.8	10.6	21.98	6	52.0
36.0	35.3	8.7	19.98	4.4	44.0
39.5	39.7	9.6	20.98	8	52.0
40.0	35.3	9.7	17.98	4	28.0
39.7	37.9	9.6	19.98	4.8	40.0
41.5	39.7	10.1	21.98	6	48.0
40.2	33.5	9.8	18.98	4.8	32.0
37.9	36.2	9.2	20.98	5.6	44.0
37.6	38.8	9.1	22.98	8	52.0
36.2	33.5	8.8	19.98	5.2	36.0
42.0	35.3	10.2	21.98	5.6	48.0
43.8	37.0	10.6	22.98	10	56.0
14	30.87	3.402	16.98	3.60	28
48.2	40.57	11.71	22.98	10.00	60
35.04	35.62	8.51	20.47	6.23	44.82

Report prepared by

Water Quality at different locations of Upper Lake: April - 2022 (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 (mS/cm)	TDS (mg/l)	Transparency (cm)
1	KOLANS (U/1)	Surface	13.04.22	2.0pm	38.7	32.6	8.4	Abs	7.2	0.47	286	84
		Bottom			0	29.2	7.4	4	6.0	0.50	308	
2	BHORI (U/2)	Surface	13.04.22	1.45 pm	38.6	32.5	8.3	Abs	8.0	0.47	284	80
		Bottom			0	29.1	7.4	6	5.6	0.50	305	
3	BETHA. (U/3)	Surface	13.04.22	1.30 pm	38.4	32.4	8.5	Abs	8.0	0.44	271	78
		Bottom			0	28.9	7.6	6	4.0	0.47	284	
4	BAIRAGARH (U/4)	Surface	13.04.22	1:00 PM	38.2	32.3	8.4	Abs	8.0	0.44	267	80
		Bottom			0	28.8	7.5	6	3.2	0.45	274	
5	BAIRAGARH EAST (U/5)	Surface	12.04.22	2.15 pm	38.9	33.1	8.3	Abs	8.4	0.47	284	82
		Bottom			0	29.4	7.4	4	5.2	0.50	303	
6	KHANUGAU (U/6)	Surface	12.04.22	1.55 pm	38.6	32.9	8.4	Abs	8.0	0.46	280	80
		Bottom			0	29.3	7.5	6	4.8	0.51	310	
7	KARBALA (U/7)	Surface	12.04.22	1.25 pm	38.4	32.7	8.5	Abs	6.8	0.46	283	82
		Bottom			0	29.0	7.6	4	5.2	0.50	304	
8	MEDICAL COLLEGE (U/8)	Surface	12.04.22	12.55 pm	38	32.5	8.4	Abs	7.6	0.46	278	84
		Bottom			0	28.8	7.4	4	4.0	0.47	286	
9	KAMLA PARK (U/9)	Surface	12.04.22	12.20 pm	37	32.0	8.3	Abs	7.2	0.47	284	82
		Bottom			0	28.4	7.5	4	3.6	0.50	304	
10	YACHT CLUB (U/10)	Surface	18.04.22	12.00 pm	38	32.3	8.4	Abs	8.4	0.45	275	80
		Bottom			0	28.5	7.5	6	4.8	0.50	303	
11	VAN VIHAR (U/11)	Surface	18.04.22	12.30 pm	38.4	32.6	8.3	Abs	8.8	0.48	295	82
		Bottom			0	28.7	7.4	4	5.6	0.52	315	
12	SPILL CHANEL (U/12)	Surface	19.04.22	12.00 pm	38.1	32.4	8.4	Abs	8.0	0.44	270	80
		Bottom			0	28.7	7.5	6	5.2	0.50	303	
13	BHADBHADA (U/13)	Surface	19.04.22	12.30 pm	38.3	32.6	8.2	Abs	8.4	0.47	285	78
		Bottom			0	28.9	7.4	8	4.4	0.51	310	
14	STUD FARM (U/14)	Surface	18.04.22	1.40 pm	38.7	33.1	8.1	Abs	8.0	0.47	287	80
		Bottom			0.0	29.4	7.4	4	4.8	0.50	306	
15	BISENKHEDI (U/15)	Surface	18.04.22	2.10 pm	38.9	33.3	8.1	Abs	8.8	0.45	277	80
		Bottom			0.0	29.4	7.5	6	5.6	0.50	305	
16	A (Deeper Zone)	Surface	13.04.22	2.30 pm	40.0	33.3	8.4	Abs	7.2	0.44	271	80
		Middle			0.0	30.4	8.2	Abs	6.8	0.47	284	
		Bottom			0.0	29.3	7.4	6	5.6	0.50	304	
17	B (Deeper Zone)	Surface	13.04.22	3.0 pm	40.1	33.5	8.3	Abs	8.4	0.47	284	82
		Middle			0	30.7	8.1	Abs	7.2	0.49	297	
		Bottom			0	29.5	7.5	4	4.4	0.50	308	
18	C (Deeper Zone)	Surface	18.04.22	1.15 pm	38.6	32.8	8.3	Abs	8.8	0.46	278	81
		Middle			0	30.9	8.0	Abs	8.0	0.48	295	
		Bottom			0	28.8	7.4	4	6.0	0.50	307	
				Min	0	28.4	7.4	4.0	3.2	0.4	267.0	78.0
				Max	40.1	33.5	8.5	8.0	8.8	0.5	315.0	84.0
				Mean	17.90	30.9	7.9	5.2	6.5	0.5	291.1	80.9
Sample collected by				Sample analyzed by				Report prepared by				

Table-1 Water Quality at different locations of Upper Lake April - 2022 (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	100	6	94	100	50.4	49.6	21.2	12.1	27.97	4	20.0
		Bottom	108	Abs	108	106	54.6	51.4	22.9	12.5	29.97	8	28.0
2	BHORI (U/2)	Surface	104	8	96	104	54.6	49.4	22.9	12.0	24.98	4.8	24.0
		Bottom	106	Abs	106	112	63.0	49.0	26.5	11.9	26.97	12	36.0
3	BETHA. (U/3)	Surface	112	4	108	94	63.0	31.0	26.5	7.5	23.98	4.4	16.0
		Bottom	116	Abs	116	104	67.2	36.8	28.2	8.9	27.97	10	24.0
4	BAIRAGARH (U/4)	Surface	102	4	98	102	56.7	45.3	23.8	11.0	24.98	5.2	20.0
		Bottom	108	Abs	108	108	60.9	47.1	25.6	11.4	28.97	14	32.0
5	BAIRAGARH EAST (U/5)	Surface	116	6	110	100	65.1	34.9	27.3	8.5	24.98	4.4	12.0
		Bottom	122	Abs	122	110	69.3	40.7	29.1	9.9	27.97	12	24.0
6	KHANUGAU (U/6)	Surface	110	8	102	118	67.2	50.8	28.2	12.3	23.98	6	28.0
		Bottom	114	Abs	114	122	71.4	50.6	30.0	12.3	25.97	12	32.0
7	KARBALA (U/7)	Surface	112	6	106	104	67.2	36.8	28.2	8.9	25.97	5.6	12.0
		Bottom	118	Abs	118	112	73.5	38.5	30.9	9.4	28.97	10	20.0
8	MEDICAL COLLEGE (U/8)	Surface	94	6	88	92	65.1	26.9	27.3	6.5	24.98	5.2	16.0
		Bottom	98	Abs	98	98	67.2	30.8	28.2	7.5	25.97	10	28.0
9	KAMLA PARK (U/9)	Surface	104	8	96	104	65.1	38.9	27.3	9.5	23.98	4.8	20.0
		Bottom	106	Abs	106	112	69.3	42.7	29.1	10.4	26.97	8	32.0
10	YACHT CLUB (U/10)	Surface	100	6	94	94	60.9	33.1	25.6	8.0	22.98	4.4	24.0
		Bottom	106	Abs	106	100	65.1	34.9	27.3	8.5	25.97	8	28.0
11	VAN VIHAR (U/11)	Surface	106	8	98	106	67.2	38.8	28.2	9.4	25.97	5.2	12.0
		Bottom	110	Abs	110	114	73.5	40.5	30.9	9.8	30.97	8	24.0
12	SPILL CHANEL (U/12)	Surface	108	4	104	102	65.1	36.9	27.3	9.0	25.97	5.2	28.0
		Bottom	112	Abs	112	108	69.3	38.7	29.1	9.4	29.97	12	36.0
13	BHADBHADA (U/13)	Surface	110	6	104	104	63.0	41.0	26.5	10.0	26.97	5.2	24.0
		Bottom	116	Abs	116	110	71.4	38.6	30.0	9.4	31.97	12	32.0
14	STUD FARM (U/14)	Surface	106	6	100	94	58.8	35.2	24.7	8.6	22.98	5.2	20.0
		Bottom	110	Abs	110	108	69.3	38.7	29.1	9.4	24.98	10	28.0
15	BISEKHEDEI (U/15)	Surface	88	8	80	106	63.0	43.0	26.5	10.4	25.97	4.8	12.0
		Bottom	92	Abs	92	114	73.5	40.5	30.9	9.8	27.97	12	20.0
16	A (Deeper Zone)	Surface	94	6	88	92	60.9	31.1	25.6	7.6	24.98	6	16.0
		Middle	100	4	96	104	65.1	38.9	27.3	9.5	26.97	6.4	24.0
		Bottom	104	Abs	104	108	69.3	38.7	29.1	9.4	28.97	8	32.0
17	B (Deeper Zone)	Surface	100	6	94	106	63.0	43.0	26.5	10.4	23.98	4.4	12.0
		Middle	104	4	100	110	67.2	42.8	28.2	10.4	25.97	6.4	24.0
		Bottom	110	Abs	110	112	73.5	38.5	30.9	9.4	29.97	10	28.0
18	C (Deeper Zone)	Surface	96	4	92	104	69.3	34.7	29.1	8.4	24.98	4.8	16.0
		Middle	102	6	96	110	71.4	38.6	30.0	9.4	25.97	5.2	20.0
		Bottom	106	Abs	106	116	75.6	40.4	31.8	9.8	30.97	14	28.0
		Min	88	4	80	92	50.4	26.9	21.168	6.5367	22.98	4.00	12
		Max	122	8	122	122	75.6	51.4	31.75	12.49	31.97	14.00	36
	Mean	105.90	4	102.72	105.74	65.80	39.94	27.64	9.71	26.69	7.63	23.38	

Sample collected by

Sample analyzed by

Report prepared by

Water Quality at different locations of Upper Lake: May - 2022 (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 (mS/cm)	TDS (mg/l)	Transparency (cm)
1	KOLANS (U/1)	Surface	19.05.22	12.45 pm	38.6	29.3	8.3	Abs	8.4	0.47	288	80
		Bottom			0	28.7	7.4	4	6.0	0.50	306	
2	BHORI (U/2)	Surface	19.05.22	12.30 pm	38.5	29.1	8.4	Abs	9.6	0.48	292	78
		Bottom			0	28.6	7.5	6	6.4	0.50	305	
3	BETHA. (U/3)	Surface	19.05.22	12.10 pm	38.3	28.7	8.5	Abs	9.2	0.47	289	80
		Bottom			0	28.4	7.4	4	6.0	0.51	310	
4	BAIRAGARH (U/4)	Surface	19.05.22	11.45 am	38	28.5	8.4	Abs	8.4	0.47	288	81
		Bottom			0	28.2	7.6	6	5.6	0.50	305	
5	BAIRAGARH EAST (U/5)	Surface	18.05.22	1.30 pm	38.8	29.7	8.3	Abs	9.2	0.47	288	80
		Bottom			0	28.8	7.4	4	6.0	0.50	308	
6	KHANUGAU (U/6)	Surface	18.05.22	1.0 pm	38.6	29.5	8.2	Abs	8.8	0.47	284	82
		Bottom			0	28.6	7.5	6	5.2	0.49	296	
7	KARBALA (U/7)	Surface	18.05.22	12.30 pm	38.4	29.3	8.3	Abs	8.0	0.47	287	76
		Bottom			0	28.4	7.4	6	6.0	0.49	301	
8	MEDICAL COLLEGE (U/8)	Surface	18.05.22	11.55 am	37.3	28.4	8.4	Abs	8.8	0.46	283	80
		Bottom			0	27.7	7.6	4	4.8	0.50	304	
9	KAMLA PARK (U/9)	Surface	18.05.22	11.0 am	37	28.2	8.5	Abs	8.4	0.47	289	78
		Bottom			0	27.6	7.5	6	5.2	0.57	346	
10	YACHT CLUB (U/10)	Surface	20.05.22	1.45 pm	39.3	29.7	8.3	Abs	8.8	0.47	288	81
		Bottom			0	28.8	7.5	4	6.0	0.50	303	
11	VAN VIHAR (U/11)	Surface	20.05.22	1.15 pm	39.1	29.6	8.4	Abs	8.0	0.47	287	80
		Bottom			0	28.6	7.4	4	5.6	0.52	315	
12	SPILL CHANEL (U/12)	Surface	23.05.22	10.15 am	37	28.2	8.2	Abs	7.6	0.47	288	80
		Bottom			0	27.8	7.4	6	4.8	0.48	293	
13	BHADBHADA (U/13)	Surface	23.05.22	10.50 am	37.3	28.3	8.1	Abs	7.2	0.46	278	78
		Bottom			0	27.9	7.5	4	5.2	0.50	306	
14	STUD FARM (U/14)	Surface	19.05.22	1.30 pm	39.1	29.7	8.4	Abs	8.0	0.47	288	82
		Bottom			0.0	29.0	7.4	6	5.6	0.50	308	
15	BISEMKHEDI (U/15)	Surface	19.05.22	1.15 pm	38.9	29.5	8.5	Abs	9.2	0.47	287	82
		Bottom			0.0	28.6	7.6	6	6.4	0.49	301	
16	A (Deeper Zone)	Surface	20.05.22	11.55 am	38.3	28.8	8.6	Abs	9.6	0.47	288	84
		Middle			0.0	26.9	8.2	Abs	7.6	0.48	294	
		Bottom			0.0	26.1	7.4	6	4.4	0.50	306	
17	B (Deeper Zone)	Surface	20.05.22	12.15 pm	38.6	29.3	8.5	Abs	8.8	0.47	287	82
		Middle			0	28.3	8.1	Abs	7.2	0.50	303	
		Bottom			0	27.4	7.5	4	5.2	0.50	308	
18	C (Deeper Zone)	Surface	20.05.22	12.45 pm	38.8	29.4	8.4	Abs	8.4	0.47	289	80
		Middle			0	28.5	8.0	Abs	7.6	0.50	304	
		Bottom			0	27.8	7.5	6	5.6	0.51	310	
				Min	0	26.1	7.4	4.0	4.4	0.5	278.0	76.0
				Max	39.3	29.7	8.6	6.0	9.6	0.6	346.0	84.0
				Mean	17.79	28.5	7.9	5.1	7.1	0.5	298.1	80.2
Sample collected by				Sample analyzed by				Report prepared by				

Water Quality at different locations of Upper Lake May - 2022 (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	96	6	90	102	54.6	47.4	22.9	11.5	25.97	5.6	20.0
		Bottom	100	Abs	100	108	58.8	49.2	24.7	12.0	27.97	6	24.0
2	BHORI (U/2)	Surface	102	10	92	104	52.5	51.5	22.1	12.5	23.98	6.4	28.0
		Bottom	106	Abs	106	110	60.9	49.1	25.6	11.9	25.97	8	32.0
3	BETHA. (U/3)	Surface	104	8	96	100	58.8	41.2	24.7	10.0	24.98	5.6	20.0
		Bottom	108	Abs	108	106	65.1	40.9	27.3	9.9	26.97	6	24.0
4	BAIRAGARH (U/4)	Surface	100	4	96	104	54.6	49.4	22.9	12.0	25.97	4.4	12.0
		Bottom	104	Abs	104	108	63.0	45.0	26.5	10.9	27.97	8	20.0
5	BAIRAGARH EAST (U/5)	Surface	102	8	94	102	58.8	43.2	24.7	10.5	24.98	5.2	24.0
		Bottom	108	Abs	108	106	67.2	38.8	28.2	9.4	27.97	8	32.0
6	KHANUGAU (U/6)	Surface	104	4	100	106	63.0	43.0	26.5	10.4	23.98	7.6	24.0
		Bottom	112	Abs	112	112	69.3	42.7	29.1	10.4	25.97	10	28.0
7	KARBALA (U/7)	Surface	104	4	100	102	60.9	41.1	25.6	10.0	24.98	4.8	16.0
		Bottom	114	Abs	114	108	65.1	42.9	27.3	10.4	27.97	6	28.0
8	MEDICAL COLLEGE (U/8)	Surface	102	6	96	100	58.8	41.2	24.7	10.0	23.98	6.8	24.0
		Bottom	106	Abs	106	106	63.0	43.0	26.5	10.4	25.97	8	28.0
9	KAMLA PARK (U/9)	Surface	100	6	94	106	67.2	38.8	28.2	9.4	22.98	5.2	20.0
		Bottom	108	Abs	108	114	71.4	42.6	30.0	10.4	24.98	8	28.0
10	YACHT CLUB (U/10)	Surface	98	8	90	104	58.8	45.2	24.7	11.0	24.98	4.8	16.0
		Bottom	104	Abs	104	110	69.3	40.7	29.1	9.9	26.97	10	32.0
11	VAN VIHAR (U/11)	Surface	102	6	96	102	60.9	41.1	25.6	10.0	24.98	4	28.0
		Bottom	108	Abs	108	112	67.2	44.8	28.2	10.9	28.97	8	36.0
12	SPILL CHANEL (U/12)	Surface	106	4	102	108	56.7	51.3	23.8	12.5	25.97	5.2	20.0
		Bottom	112	Abs	112	114	63.0	51.0	26.5	12.4	29.97	10	32.0
13	BHADBHADA (U/13)	Surface	104	6	98	106	65.1	40.9	27.3	9.9	29.97	4	28.0
		Bottom	108	Abs	108	116	71.4	44.6	30.0	10.8	32.97	8	36.0
14	STUD FARM (U/14)	Surface	104	6	98	104	54.6	49.4	22.9	12.0	23.98	4.8	20.0
		Bottom	110	Abs	110	110	60.9	49.1	25.6	11.9	26.97	6	24.0
15	BISEKHEDE (U/15)	Surface	94	8	86	104	56.7	47.3	23.8	11.5	25.97	5.6	24.0
		Bottom	100	Abs	100	112	63.0	49.0	26.5	11.9	28.97	10	28.0
16	A (Deeper Zone)	Surface	92	8	84	100	58.8	41.2	24.7	10.0	23.98	4.4	12.0
		Middle	98	4	94	104	63.0	41.0	26.5	10.0	25.97	5.6	20.0
		Bottom	104	Abs	104	110	67.2	42.8	28.2	10.4	29.97	8	24.0
17	B (Deeper Zone)	Surface	100	6	94	102	60.9	41.1	25.6	10.0	25.97	4.8	20.0
		Middle	106	4	102	106	65.1	40.9	27.3	9.9	27.97	5.2	24.0
		Bottom	110	Abs	110	114	69.3	44.7	29.1	10.9	30.97	10	28.0
18	C (Deeper Zone)	Surface	104	6	98	108	63.0	45.0	26.5	10.9	24.98	4.4	24.0

		Middle	110	4	106	112	67.2	44.8	28.2	10.9	27.97	4.8	28.0
		Bottom	114	Abs	114	114	73.5	40.5	30.9	9.8	29.97	10	36.0
		Min	92	4	84	100	52.5	38.8	22.05	9.4284	22.98	4.00	12
		Max	114	10	114	116	73.5	51.5	30.87	12.51	32.97	10.00	36
		Mean	104.31	4	84	107.08	62.78	44.29	26.37	10.76	26.72	6.59	24.92
Sample collected by					Sample analyzed by					Report prepared by			

Water Quality at different locations of Upper Lake: June - 2022 (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 (mS/cm)	TDS (mg/l)	Transparency (cm)
1	KOLANS (U/1)	Surface	14.06.22	1.55 pm	36.6	32.8	8.3	Abs	8.4	0.45	275	80
		Bottom			0	29.1	7.4	4	6.0	0.48	290	
2	BHORI (U/2)	Surface	14.06.22	2.15 pm	36.8	33	8.4	Abs	8.8	0.47	284	82
		Bottom			0	29.3	7.7	Abs	6.8	0.49	301	
3	BETHA. (U/3)	Surface	14.06.22	1.30 pm	36.4	32.6	8.4	Abs	9.2	0.46	282	80
		Bottom			0	28.9	7.9	Abs	7.6	0.50	305	
4	BAIRAGARH (U/4)	Surface	14.06.22	1.0 pm	36.2	32.4	8.3	Abs	7.6	0.45	273	80
		Bottom			0	28.6	7.4	6	6.4	0.47	285	
5	BAIRAGARH EAST (U/5)	Surface	13.06.22	3.30 pm	37.6	33.3	8.4	Abs	8.8	0.46	280	78
		Bottom			0	29.8	7.5	4	5.6	0.48	295	
6	KHANUGAU (U/6)	Surface	13.06.22	3.15 pm	37.6	33.5	8.2	Abs	8.4	0.46	278	78
		Bottom			0	29.9	7.4	6	6.0	0.48	294	
7	KARBALA (U/7)	Surface	13.06.22	2.45 pm	37.5	33.4	8.3	Abs	9.2	0.47	285	80
		Bottom			0	29.7	7.5	8	5.2	0.50	303	
8	MEDICAL COLLEGE (U/8)	Surface	13.06.22	2.10 pm	37.3	33.1	8.4	Abs	8.8	0.46	280	82
		Bottom			0	29.5	7.4	4	5.6	0.48	295	
9	KAMLA PARK (U/9)	Surface	13.06.22	12.45 pm	36.1	32.2	8.4	Abs	8.4	0.46	278	80
		Bottom			0	29.3	7.6	6	6.0	0.47	284	
10	YACHT CLUB (U/10)	Surface	15.06.22	2.50 pm	37.2	33.3	8.3	Abs	8.4	0.46	278	78
		Bottom			0	29.5	7.5	4	5.2	0.48	290	
11	VAN VIHAR (U/11)	Surface	15.06.22	2.20 pm	37.1	33.2	8.2	Abs	8.8	0.45	276	80
		Bottom			0	29.4	7.4	6	5.6	0.47	284	
12	SPILL CHANEL (U/12)	Surface	16.06.22	11.30 am	34.1	30.3	8.1	Abs	8.0	0.45	275	80
		Bottom			0	28.5	7.3	6	4.4	0.48	290	
13	BHADBHADA (U/13)	Surface	16.06.22	12.10 pm	34.3	30.5	8.2	Abs	8.4	0.46	281	78
		Bottom			0	28.6	7.4	4	4.0	0.48	294	
14	STUD FARM (U/14)	Surface	14.06.22	2.30 pm	37.1	33.1	8.5	Abs	8.0	0.47	287	82
		Bottom			0.0	29.4	8.1	Abs	7.2	0.51	310	
15	BISEKHEDE (U/15)	Surface	14.06.22	2.50 pm	37.3	33.2	8.4	Abs	8.4	0.46	280	82
		Bottom			0.0	29.5	7.8	Abs	7.2	0.48	295	
16	A (Deeper Zone)	Surface	15.06.22	12.20 pm	36.2	32.7	8.3	Abs	8.8	0.45	275	80
		Middle			0.0	29.5	8.1	Abs	7.6	0.46	282	
		Bottom			0.0	28.6	7.4	4	6.0	0.49	301	
17	B (Deeper Zone)	Surface	15.06.22	1.10 pm	36.6	32.9	8.4	Abs	9.2	0.46	280	80
		Middle			0	29.6	8.0	Abs	8.0	0.48	293	
		Bottom			0	28.8	7.5	6	5.6	0.50	304	
18	C (Deeper Zone)	Surface	15.06.22	1.55 pm	36.8	33.1	8.2	Abs	8.4	0.47	285	78
		Middle			0	29.7	7.9	Abs	7.2	0.49	296	
		Bottom			0	29.0	7.6	4	6.0	0.50	305	
				Min	0	28.5	7.3	4.0	4.0	0.45	273.0	78.0
				Max	37.6	33.5	8.5	8.0	9.2	0.51	310.0	82.0
				Mean	16.99	30.8	7.9	5.3	7.2	0.47	288.1	79.9

Sample collected by	Sample analyzed by	Report prepared by
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Water Quality at different locations of Upper Lake June - 2022 (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	92	6	86	98	52.5	45.5	22.1	11.1	22.98	4.4	16.0
		Bottom	96	Abs	96	104	56.7	47.3	23.8	11.5	24.98	8	24.0
2	BHORI (U/1)	Surface	94	6	88	100	50.4	49.6	21.2	12.1	23.98	4.8	20.0
		Bottom	100	4	96	108	58.8	49.2	24.7	12.0	25.97	5.6	28.0
3	BETHA. (U/1)	Surface	102	6	96	102	54.6	47.4	22.9	11.5	21.98	5.2	28.0
		Bottom	106	4	102	106	60.9	45.1	25.6	11.0	23.98	6.8	32.0
4	BAIRAGA (U/1)	Surface	96	6	90	104	56.7	47.3	23.8	11.5	23.98	5.6	24.0
		Bottom	100	Abs	100	110	63.0	47.0	26.5	11.4	25.97	6	32.0
5	BAIRAGA (U/1)	Surface	98	6	92	100	52.5	47.5	22.1	11.5	22.98	4	20.0
		Bottom	106	Abs	106	106	58.8	47.2	24.7	11.5	24.98	8	32.0
6	KHANUG (U/1)	Surface	102	6	96	102	54.6	47.4	22.9	11.5	23.98	4.4	24.0
		Bottom	108	Abs	108	112	58.8	53.2	24.7	12.9	26.97	6	36.0
7	KARBALA (U/1)	Surface	100	6	94	104	56.7	47.3	23.8	11.5	24.98	5.2	28.0
		Bottom	104	Abs	104	114	65.1	48.9	27.3	11.9	27.97	8	32.0
8	MEDICAL (U/1)	Surface	98	6	92	102	54.6	47.4	22.9	11.5	22.98	4.4	24.0
		Bottom	104	Abs	104	106	60.9	45.1	25.6	11.0	25.97	10	32.0
9	KAMLA P (U/1)	Surface	102	4	98	106	63.0	43.0	26.5	10.4	22.98	4	28.0
		Bottom	106	Abs	106	110	65.1	44.9	27.3	10.9	25.97	10	36.0
10	YACHT C (U/1)	Surface	104	6	98	102	58.8	43.2	24.7	10.5	21.98	4.4	32.0
		Bottom	108	Abs	108	108	65.1	42.9	27.3	10.4	24.98	8	36.0
11	VAN VIHAR (U/1)	Surface	100	4	96	98	56.7	41.3	23.8	10.0	23.98	4.8	28.0
		Bottom	108	Abs	108	104	60.9	43.1	25.6	10.5	25.97	6	32.0
12	SPILL CH (U/1)	Surface	96	4	92	104	60.9	43.1	25.6	10.5	22.98	5.6	24.0
		Bottom	102	Abs	102	110	67.2	42.8	28.2	10.4	24.98	8	32.0
13	BHADBHA (U/1)	Surface	106	6	100	108	69.3	38.7	29.1	9.4	23.98	6	32.0
		Bottom	110	Abs	110	112	73.5	38.5	30.9	9.4	26.97	10	36.0
14	STUD FA (U/1)	Surface	102	8	94	102	58.8	43.2	24.7	10.5	21.98	5.2	20.0
		Bottom	104	6	98	106	60.9	45.1	25.6	11.0	23.98	6.4	24.0
15	BISENKH (U/1)	Surface	100	6	94	100	58.8	41.2	24.7	10.0	22.98	4.4	16.0
		Bottom	102	4	98	104	63.0	41.0	26.5	10.0	24.98	6	24.0
16	A (Deepel)	Surface	94	6	88	102	54.6	47.4	22.9	11.5	21.98	4.8	20.0
		Middle	100	4	96	104	58.8	45.2	24.7	11.0	22.98	5.2	28.0
		Bottom	102	Abs	102	108	65.1	42.9	27.3	10.4	23.98	8	32.0
17	B (Deepel)	Surface	92	8	84	98	56.7	41.3	23.8	10.0	19.98	5.2	24.0
		Middle	98	4	94	102	60.9	41.1	25.6	10.0	24.98	6	32.0
		Bottom	104	Abs	104	112	67.2	44.8	28.2	10.9	25.97	10	36.0

18	C (Deepe	Surface	100	6	94	104	58.8	45.2	24.7	11.0	23.98	4.4	24.0
		Middle	102	4	98	106	63.0	43.0	26.5	10.4	24.98	5.2	28.0
		Bottom	106	Abs	106	110	65.1	44.9	27.3	10.9	24.98	8	36.0
		Min	92	4	84	98	50.4	38.5	21.168	9.3555	19.98	4.00	16
		Max	110	8	110	114	73.5	53.2	30.87	12.93	27.97	10.00	36
		Mean	101.38	4	84	105.08	60.20	44.88	25.28	10.91	24.28	6.21	28.00
Sample collected by			Sample analyzed by					Report prepared by					

Water Quality at different locations of Upper Lake: July - 2022 (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 (mS/cm)	TDS (mg/l)	Transparency (cm)
1	KOLANS (U/1)	Surface	02.08.22	1.0 pm	31	29.6	8.3	Abs	8.0	0.239	153	80
		Bottom			0	29.0	7.6	4	4.4	0.285	182	
2	BHORI (U/2)	Surface	02.08.22	12.45 pm	30.8	29.5	8.3	Abs	8.4	0.241	154	80
		Bottom			0	28.9	7.5	6	4.8	0.282	180	
3	BETHA. (U/3)	Surface	02.08.22	12.10 pm	30.6	29.3	8.2	Abs	7.6	0.239	153	80
		Bottom			0	28.7	7.6	4	4.0	0.276	177	
4	BAIRAGARH (U/4)	Surface	02.08.22	11.30 am	30.4	29.1	8.3	Abs	8.0	0.247	158	80
		Bottom			0	28.6	7.5	6	4.8	0.281	180	
5	BAIRAGARH EAST (U/5)	Surface	01.08.22	1.25 pm	30.3	29.2	8.2	Abs	7.6	0.255	163	80
		Bottom			0	28.7	7.6	4	4.0	0.276	177	
6	KHANUGAU (U/6)	Surface	01.08.22	1.10 pm	30.1	29.1	8.3	Abs	8.0	0.250	160	82
		Bottom			0	28.5	7.5	6	5.2	0.281	180	
7	KARBALA (U/7)	Surface	01.08.22	12.50 pm	29.8	28.7	8.2	Abs	7.2	0.235	150	80
		Bottom			0	27.9	7.6	4	4.0	0.281	180	
8	MEDICAL COLLEGE (U/8)	Surface	01.08.22	12.30 pm	29.6	28.6	8.1	Abs	8.4	0.262	168	80
		Bottom			0	27.8	7.6	4	4.8	0.274	175	
9	KAMLA PARK (U/9)	Surface	01.08.22	11.55 am	29.3	28.4	8.2	Abs	7.6	0.245	157	82
		Bottom			0	27.7	7.5	6	4.4	0.295	189	
10	YACHT CLUB (U/10)	Surface	04.08.22	11.45 am	30.2	29.3	8.1	Abs	7.2	0.237	152	78
		Bottom			0	28.6	7.6	4	4.0	0.274	175	
11	VAN VIHAR (U/11)	Surface	04.08.22	12.15 pm	30.3	29.4	8.2	Abs	6.8	0.242	155	80
		Bottom			0	28.7	7.5	6	3.2	0.281	180	
12	SPILL CHANEL (U/12)	Surface	03.08.22	12.10 pm	30.1	29.8	8.1	Abs	8.8	0.236	151	80
		Bottom			0	28.9	7.6	2	4.4	0.285	182	
13	BHADBHADA (U/13)	Surface	03.08.22	11.55 am	30	29.6	8.2	Abs	7.6	0.230	147	78
		Bottom			0	28.6	7.5	8	2.4	0.281	180	
14	STUD FARM (U/14)	Surface	02.08.22	1.15 pm	31.1	29.7	8.3	Abs	8.4	0.238	152	84
		Bottom			0.0	29.1	7.4	4	5.2	0.279	179	
15	BISEKHEDE (U/15)	Surface	02.08.22	1.30 pm	31.3	29.8	8.2	Abs	8.0	0.240	154	82
		Bottom			0.0	29.2	7.5	6	4.8	0.284	182	
16	A (Deeper Zone)	Surface	04.08.22	12.40 pm	30.5	29.6	8.3	Abs	7.6	0.239	153	80
		Middle			0.0	29.0	7.6	4	4.8	0.265	170	
		Bottom			0.0	28.8	7.5	8	3.6	0.280	179	
17	B (Deeper Zone)	Surface	04.08.22	1.0 pm	30.6	29.7	8.1	Abs	8.0	0.242	155	78
		Middle			0	29.1	7.5	4	5.2	0.272	174	
		Bottom			0	28.7	7.4	6	4.4	0.285	182	
18	C (Deeper Zone)	Surface	04.08.22	1.25 pm	30.7	29.8	8.2	Abs	7.6	0.237	152	80
		Middle			0	29.3	7.6	6	4.4	0.263	168	
		Bottom			0	29.0	7.5	8	3.2	0.278	178	
				Min	0	27.7	7.4	2.0	2.4	0.230	147	78.0

				Max	31.3	29.8	8.3	8.0	8.8	0.295	189	84.0
				Mean	14.10	29.0	7.8	5.2	5.9	0.262	168	80.3
Sample collected by				Sample analyzed by					Report prepared by			

Water Quality at different locations of Upper Lake July - 2022 (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	90	6	84	94	48.3	45.7	20.3	11.1	21.98	4.8	16.0
		Bottom	96	Abs	96	100	52.5	47.5	22.1	11.5	24.98	6	24.0
2	BHORI (U/2)	Surface	92	4	88	96	46.2	49.8	19.4	12.1	22.98	4.4	20.0
		Bottom	100	Abs	100	104	56.7	47.3	23.8	11.5	25.97	8	28.0
3	BETHA. (U/3)	Surface	96	6	90	98	52.5	45.5	22.1	11.1	21.98	5.2	24.0
		Bottom	104	Abs	104	102	56.7	45.3	23.8	11.0	23.98	6	28.0
4	BAIRAGARH (U/4)	Surface	92	4	88	100	54.6	45.4	22.9	11.0	22.98	4	12.0
		Bottom	98	Abs	98	106	58.8	47.2	24.7	11.5	24.98	6	20.0
5	BAIRAGARH EAST (U/5)	Surface	94	6	88	96	50.4	45.6	21.2	11.1	20.98	4.8	16.0
		Bottom	102	Abs	102	102	54.6	47.4	22.9	11.5	22.98	8	28.0
6	KHANUGAU (U/6)	Surface	98	6	92	98	50.4	47.6	21.2	11.6	22.98	5.2	20.0
		Bottom	104	Abs	104	106	56.7	49.3	23.8	12.0	24.98	8	24.0
7	KARBALA (U/7)	Surface	96	4	92	100	52.5	47.5	22.1	11.5	21.98	4.4	16.0
		Bottom	100	Abs	100	108	60.9	47.1	25.6	11.4	22.98	8	32.0
8	MEDICAL COLLEGE (U/8)	Surface	94	6	88	98	50.4	47.6	21.2	11.6	24.98	4.8	20.0
		Bottom	102	Abs	102	102	56.7	45.3	23.8	11.0	26.97	6	28.0
9	KAMLA PARK (U/9)	Surface	98	4	94	102	58.8	43.2	24.7	10.5	23.98	5.6	24.0
		Bottom	104	Abs	104	108	65.1	42.9	27.3	10.4	25.97	8	32.0
10	YACHT CLUB (U/10)	Surface	100	6	94	100	54.6	45.4	22.9	11.0	22.98	4.8	20.0
		Bottom	104	Abs	104	104	63.0	41.0	26.5	10.0	23.98	8	28.0
11	VAN VIHAR (U/11)	Surface	96	4	92	94	52.5	41.5	22.1	10.1	23.98	4.8	16.0
		Bottom	106	Abs	106	100	58.8	41.2	24.7	10.0	26.97	8	28.0
12	SPILL CHANEL (U/12)	Surface	102	4	98	102	56.7	45.3	23.8	11.0	25.97	4.4	24.0
		Bottom	108	Abs	108	108	63.0	45.0	26.5	10.9	28.97	6	32.0
13	BHADBHADA (U/13)	Surface	104	2	102	104	58.8	45.2	24.7	11.0	26.97	5.2	28.0
		Bottom	110	Abs	110	110	67.2	42.8	28.2	10.4	29.97	8	32.0
14	STUD FARM (U/14)	Surface	92	6	86	100	54.6	45.4	22.9	11.0	21.98	4.4	16.0
		Bottom	96	Abs	96	102	60.9	41.1	25.6	10.0	24.98	6	24.0
15	BISEKHEDE (U/15)	Surface	94	4	90	98	54.6	43.4	22.9	10.5	22.98	4.8	20.0
		Bottom	100	Abs	100	102	60.9	41.1	25.6	10.0	25.97	8	28.0
16	A (Deeper Zone)	Surface	90	4	86	96	52.5	43.5	22.1	10.6	20.98	4	12.0
		Middle	96	Abs	96	102	56.7	45.3	23.8	11.0	22.98	6	20.0
		Bottom	104	Abs	104	106	60.9	45.1	25.6	11.0	24.98	8	24.0
17	B (Deeper Zone)	Surface	100	6	94	94	54.6	39.4	22.9	9.6	21.98	5.2	16.0
		Middle	102	Abs	102	100	58.8	41.2	24.7	10.0	24.98	8	24.0
		Bottom	106	Abs	106	110	63.0	47.0	26.5	11.4	26.97	10	28.0
18	C (Deeper Zone)	Surface	98	4	94	96	50.4	45.6	21.2	11.1	22.98	4.8	20.0
		Middle	104	Abs	104	104	54.6	49.4	22.9	12.0	23.98	6	28.0
		Bottom	106	Abs	106	108	60.9	47.1	25.6	11.4	25.97	8	32.0
		Min	90	2	84	94	46.2	39.4	19.404	9.5742	20.979	4	12
		Max	110	6	110	110	67.2	49.8	28.224	12.1014	29.97	10	32
		Mean	90	2	84	94	46.2	39.4	19.404	9.5742	20.979	4	12

Sample collected by	Sample analyzed by	Report prepared by
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Water Quality at different locations of Upper Lake: August - 2022 (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 (mS/cm)	TDS (mg/l)	Transparency (cm)
1	KOLANS (U/1)	Surface	23.08.22	12.55 pm	28.9	26.6	8.1	Abs	6.8	0.270	173	74
		Bottom			0	26.0	7.4	4	2.4	0.306	196	
2	BHORI (U/2)	Surface	23.08.22	12.40 pm	28.7	26.4	8.3	Abs	7.6	0.275	176	78
		Bottom			0	25.9	7.5	6	3.2	0.302	193	
3	BETHA. (U/3)	Surface	23.08.22	12.10 pm	28.6	26.3	8.2	Abs	7.2	0.285	182	76
		Bottom			0	25.8	7.6	6	3.6	0.315	202	
4	BAIRAGARH (U/4)	Surface	23.08.22	11.45 am	28.4	26.0	8.1	Abs	7.6	0.280	179	74
		Bottom			0	25.7	7.5	8	4.0	0.305	195	
5	BAIRAGARH EAST (U/5)	Surface	18 .08.22	1.15 pm	29.0	26.7	8.3	Abs	7.2	0.276	177	76
		Bottom			0	26.1	7.4	6	2.8	0.294	188	
6	KHANUGAU (U/6)	Surface	18 .08.22	12.55 pm	28.9	26.6	8.2	Abs	6.8	0.301	193	78
		Bottom			0	25.9	7.5	4	3.2	0.325	208	
7	KARBALA (U/7)	Surface	18 .08.22	12.30 pm	28.8	26.5	8.1	Abs	7.2	0.287	184	76
		Bottom			0	26.0	7.4	6	3.6	0.315	202	
8	MEDICAL COLLEGE (U/8)	Surface	18 .08.22	12.0 pm	28.7	26.4	8.3	Abs	7.6	0.284	182	76
		Bottom			0	25.9	7.6	8	4.0	0.310	198	
9	KAMLA PARK (U/9)	Surface	18 .08.22	11.30 am	28.6	26.3	8.2	Abs	7.2	0.276	177	78
		Bottom			0	25.8	7.5	6	2.8	0.309	198	
10	YACHT CLUB (U/10)	Surface	24 .08.22	1.50 pm	29.1	27.0	8.2	Abs	7.2	0.278	178	78
		Bottom			0	26.4	7.5	4	3.6	0.302	193	
11	VAN VIHAR (U/11)	Surface	24 .08.22	1.25 pm	28.9	26.8	8.1	Abs	7.6	0.282	180	76
		Bottom			0	26.2	7.4	8	3.2	0.303	194	
12	SPILL CHANEL (U/12)	Surface	25 .08.22	12.15 pm	28.7	26.8	8.2	Abs	7.2	0.283	181	78
		Bottom			0	26.1	7.5	6	2.4	0.304	195	
13	BHADBHADA (U/13)	Surface	25 .08.22	11.40 am	28.6	26.7	8.3	Abs	7.2	0.278	178	76
		Bottom			0	26.0	7.4	6	2.8	0.306	196	
14	STUD FARM (U/14)	Surface	23.08.22	1.25 pm	29.0	26.7	8.2	Abs	7.6	0.283	181	78
		Bottom			0.0	26.1	7.5	8	3.6	0.304	195	
15	BISEKHHEDI (U/15)	Surface	23.08.22	1.45 pm	29.1	26.8	8.2	Abs	7.2	0.285	182	76
		Bottom			0.0	26.2	7.5	6	2.8	0.306	196	
16	A (Deeper Zone)	Surface	24 .08.22	12.0 pm	28.4	26.4	8.3	Abs	7.6	0.274	175	78
		Middle			0.0	25.9	7.6	6	4.0	0.295	189	
		Bottom				25.4	7.4	8	3.2	0.305	195	
17	B (Deeper Zone)	Surface	24 .08.22	12.30 pm	28.6	26.6	8.2	Abs	8.0	0.276	177	76
		Middle			0	26.0	7.5	4	3.2	0.301	193	
		Bottom			0	25.8	7.3	6	2.4	0.310	198	
18	C (Deeper Zone)	Surface	24 .08.22	1.0 pm	28.8	26.7	8.3	Abs	7.2	0.280	179	78
		Middle			0	26.1	7.6	6	2.8	0.298	191	
		Bottom			0	25.9	7.3	8	2.0	0.307	196	
				Min	0	25.4	7.3	4.0	2.0	0.270	172.8	74.0
				Max	29.1	27.0	8.3	8.0	0.325	208.0	78.0	
				Mean	13.67	26.2	7.8	6.2	5.1	0.294	188.4	76.6
Sample collected by				Sample analyzed by				Report prepared by				

Water Quality at different locations of Upper Lake August - 2022 (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	88	6	24	86	46.2	39.8	19.4	9.7	20.98	4	20.0
		Bottom	92	Abs	92	96	50.4	45.6	21.2	11.1	22.98	6	24.0
2	BHORI (U/2)	Surface	86	6	80	92	44.1	47.9	18.5	11.6	21.98	4.8	16.0
		Bottom	90	Abs	90	100	52.5	47.5	22.1	11.5	23.98	8	24.0
3	BETHA. (U/3)	Surface	84	4	80	92	50.4	41.6	21.2	10.1	22.98	5.2	24.0
		Bottom	88	Abs	88	96	54.6	41.4	22.9	10.1	24.98	10	32.0
4	BAIRAGARH (U/4)	Surface	90	6	84	98	50.4	47.6	21.2	11.6	23.98	4.8	20.0
		Bottom	94	Abs	94	102	56.7	45.3	23.8	11.0	25.97	6	24.0
5	BAIRAGARH EAST (U/5)	Surface	88	6	82	94	48.3	45.7	20.3	11.1	21.98	4	16.0
		Bottom	96	Abs	96	98	52.5	45.5	22.1	11.1	24.98	8	24.0
6	KHANUGAU (U/6)	Surface	86	6	80	92	46.2	45.8	19.4	11.1	20.98	4.4	20.0
		Bottom	92	Abs	92	98	52.5	45.5	22.1	11.1	22.98	6	28.0
7	KARBALA (U/7)	Surface	84	4	80	90	48.3	41.7	20.3	10.1	22.98	5.2	28.0
		Bottom	90	Abs	90	96	56.7	39.3	23.8	9.5	24.98	8	32.0
8	MEDICAL COLLEGE (U/8)	Surface	88	4	84	92	52.5	39.5	22.1	9.6	23.98	4.8	24.0
		Bottom	92	Abs	92	98	54.6	43.4	22.9	10.5	25.97	8	32.0
9	KAMLA PARK (U/9)	Surface	86	6	80	94	54.6	39.4	22.9	9.6	22.98	5.6	20.0
		Bottom	90	Abs	90	104	58.8	45.2	24.7	11.0	25.97	10	36.0
10	YACHT CLUB (U/10)	Surface	84	6	78	96	50.4	45.6	21.2	11.1	23.98	5.2	16.0
		Bottom	88	Abs	88	100	56.7	43.3	23.8	10.5	26.97	10	28.0
11	VAN VIHAR (U/11)	Surface	88	6	82	92	48.3	43.7	20.3	10.6	21.98	5.2	24.0
		Bottom	94	Abs	94	98	52.5	45.5	22.1	11.1	24.98	8	28.0
12	SPILL CHANEL (U/12)	Surface	86	6	80	96	54.6	41.4	22.9	10.1	20.98	4.8	20.0
		Bottom	90	Abs	90	102	58.8	43.2	24.7	10.5	23.98	6	32.0
13	BHADBHADA (U/13)	Surface	92	4	88	98	56.7	41.3	23.8	10.0	24.98	5.6	28.0
		Bottom	98	Abs	98	108	63.0	45.0	26.5	10.9	26.97	10	36.0
14	STUD FARM (U/14)	Surface	84	6	78	90	50.4	39.6	21.2	9.6	21.98	4.4	20.0
		Bottom	88	Abs	88	96	54.6	41.4	22.9	10.1	23.98	6	28.0
15	BISEKHEDE (U/15)	Surface	86	6	80	94	52.5	41.5	22.1	10.1	20.98	4.8	24.0
		Bottom	92	Abs	92	102	58.8	43.2	24.7	10.5	22.98	8	32.0
16	A (Deeper Zone)	Surface	84	6	78	90	48.3	41.7	20.3	10.1	21.98	4.4	16.0
		Middle	88	Abs	88	96	52.5	43.5	22.1	10.6	23.98	6	24.0
		Bottom	92	Abs	92	100	56.7	43.3	23.8	10.5	24.98	8	28.0
17	B (Deeper Zone)	Surface	86	4	82	92	50.4	41.6	21.2	10.1	22.98	5.2	20.0
		Middle	90	Abs	90	96	54.6	41.4	22.9	10.1	23.98	8	28.0
		Bottom	94	Abs	94	102	58.8	43.2	24.7	10.5	25.97	10	32.0
18	C (Deeper Zone)	Surface	88	6	82	94	52.5	41.5	22.1	10.1	21.98	4.8	24.0

	Middle	92	Abs	92	98	56.7	41.3	23.8	10.0	22.98	6	28.0
	Bottom	96	Abs	96	104	58.8	45.2	24.7	11.0	24.98	8	32.0
	Min	84	4	24	86	44.1	39.3	18.5	9.5	21.0	4	16
	Max	98	6	98	108	63	47.9	26.5	11.6	27.0	10	36
	Mean	84	4	24	86	44.1	39.3	18.5	9.5	21.0	4	16
Sample collected by				Sample analyzed by				Report prepared by				

Water Quality at different locations of Upper Lake: September - 2022 (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 (mS/cm)	TDS (mg/l)	Transparency (cm)
1	KOLANS (U/1)	Surface	13.09.22	2.10 pm	27.9	26.7	8.1	Abs	7.2	0.257	164	76
		Bottom			0	26.1	7.4	8	2.4	0.288	184	
2	BHORI (U/2)	Surface	13.09.22	1.45 pm	27.8	26.6	8.2	Abs	7.2	0.254	163	78
		Bottom			0	26	7.5	4	2.8	0.278	178	
3	BETHA. (U/3)	Surface	13.09.22	1.15 pm	27.6	26.4	8.3	Abs	7.6	0.258	165	78
		Bottom			0	25.9	7.4	6	3.6	0.290	186	
4	BAIRAGARH (U/4)	Surface	13.09.22	12.50 pm	27.4	26.3	8.2	Abs	7.2	0.254	163	80
		Bottom			0	25.8	7.5	8	2.8	0.284	182	
5	BAIRAGARH EAST (U/5)	Surface	12.09.22	1.30 pm	29.2	27.5	8.3	Abs	7.6	0.260	166	80
		Bottom			0	27.0	7.4	6	4.0	0.292	187	
6	KHANUGAU (U/6)	Surface	12.09.22	1.15 pm	29	27.3	8.4	Abs	8.0	0.265	170	78
		Bottom			0	26.9	7.5	4	4.4	0.297	190	
7	KARBALA (U/7)	Surface	12.09.22	12.45 pm	28.8	27.1	8.3	Abs	7.2	0.258	165	78
		Bottom			0	26.8	7.6	4	3.6	0.287	184	
8	MEDICAL COLLEGE (U/8)	Surface	12.09.22	12.10 pm	28.6	26.8	8.2	Abs	7.6	0.265	170	76
		Bottom			0	25.7	7.4	6	3.2	0.305	195	
9	KAMLA PARK (U/9)	Surface	12.09.22	11.45 am	28.4	26.6	8.3	Abs	8.0	0.255	163	78
		Bottom			0	25.4	7.5	4	4.0	0.280	179	
10	YACHT CLUB (U/10)	Surface	14.09.22	12.15 pm	24.6	23.3	8.1	Abs	7.2	0.264	169	78
		Bottom			0	22.7	7.4	6	2.4	0.287	184	
11	VAN VIHAR (U/11)	Surface	14.09.22	2.15 pm	25.2	24.2	8.2	Abs	7.6	0.272	174	76
		Bottom			0	23.8	7.5	6	3.2	0.289	185	
12	SPILL CHANEL (U/12)	Surface	15.09.22	12.55 pm	26.8	26.3	8.1	Abs	7.2	0.263	168	78
		Bottom			0	25.6	7.5	6	2.8	0.289	185	
13	BHADBHADA (U/13)	Surface	15.09.22	12.10 pm	26.5	26.1	7.8	4	6.4	0.257	164	76
		Bottom			0	25.4	7.4	6	3.6	0.287	184	
14	STUD FARM (U/14)	Surface	13.09.22	2.25 pm	28.0	26.8	8.3	Abs	8.0	0.670	429	80
		Bottom			0.0	26.3	7.5	6	4.8	0.305	195	
15	BISEKHEDE (U/15)	Surface	13.09.22	2.40 pm	28.3	26.9	8.2	Abs	7.6	0.264	169	80
		Bottom			0.0	26.2	7.4	6	3.6	0.295	189	
16	A (Deeper Zone)	Surface	14.09.22	1.55 pm	25.0	23.9	8.2	Abs	7.2	0.259	166	78
		Middle			0.0	23.2	7.6	4	4.4	0.268	172	
		Bottom				22.9	7.4	8	3.2	0.292	187	
17	B (Deeper Zone)	Surface	14.09.22	1.20 pm	24.9	23.7	8.1	Abs	8.0	0.264	169	76
		Middle			0	23.0	7.5	6	5.2	0.276	177	
		Bottom			0	22.8	7.4	8	3.6	0.294	188	
18	C (Deeper Zone)	Surface	14.09.22	12.45 pm	24.8	23.6	8.2	Abs	7.6	0.257	164	78
		Middle			0	22.9	7.6	4	4.4	0.268	172	
		Bottom			0	22.7	7.4	6	2.8	0.284	182	
				Min	0	22.7	7.4	4.0		0.254	162.6	76.0
				Max	29.2	27.5	8.4	8.0		0.670	428.8	80.0
				Mean	12.95	25.4	7.8	5.8		0.294	188.2	77.9

Sample collected by	Sample analyzed by	Report prepared by
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Water Quality at different locations of Upper Lake September - 2022 (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	62	4	58	70	44.1	25.9	18.5	6.3	12.99	4.8	24.0
		Bottom	66	Abs	66	74	48.3	25.7	20.3	6.2	14.99	8	28.0
2	BHORI (U/2)	Surface	64	6	58	68	48.3	19.7	20.3	4.8	11.99	5.2	20.0
		Bottom	68	Abs	68	72	52.5	19.5	22.1	4.7	13.99	10	28.0
3	BETHA. (U/3)	Surface	66	6	60	70	46.2	23.8	19.4	5.8	14.99	4.4	24.0
		Bottom	70	Abs	70	76	50.4	25.6	21.2	6.2	16.98	6	32.0
4	BAIRAGARH (U/4)	Surface	60	4	56	68	44.1	23.9	18.5	5.8	11.99	4.8	20.0
		Bottom	66	Abs	66	74	50.4	23.6	21.2	5.7	14.99	10	32.0
5	BAIRAGARH EAST (U/5)	Surface	62	6	56	66	42.0	24.0	17.6	5.8	10.99	5.6	24.0
		Bottom	68	Abs	68	74	46.2	27.8	19.4	6.8	12.99	8	36.0
6	KHANUGAU (U/6)	Surface	60	6	54	72	48.3	23.7	20.3	5.8	14.99	5.2	16.0
		Bottom	68	Abs	68	76	52.5	23.5	22.1	5.7	16.98	10	24.0
7	KARBALA (U/7)	Surface	64	4	60	68	48.3	19.7	20.3	4.8	13.99	5.2	20.0
		Bottom	70	Abs	70	72	54.6	17.4	22.9	4.2	15.98	8	32.0
8	MEDICAL COLLEGE (U/8)	Surface	66	4	62	70	50.4	19.6	21.2	4.8	14.99	4.8	24.0
		Bottom	72	Abs	72	74	52.5	21.5	22.1	5.2	16.98	6	32.0
9	KAMLA PARK (U/9)	Surface	68	6	62	72	48.3	23.7	20.3	5.8	12.99	4.4	16.0
		Bottom	72	Abs	72	78	52.5	25.5	22.1	6.2	14.99	8	28.0
10	YACHT CLUB (U/10)	Surface	64	4	60	72	50.4	21.6	21.2	5.2	13.99	4.4	24.0
		Bottom	70	Abs	70	76	54.6	21.4	22.9	5.2	15.98	8	28.0
11	VAN VIHAR (U/11)	Surface	66	4	62	70	52.5	17.5	22.1	4.3	15.98	5.2	20.0
		Bottom	72	Abs	72	76	56.7	19.3	23.8	4.7	17.98	8	32.0
12	SPILL CHANEL (U/12)	Surface	70	2	68	76	50.4	25.6	21.2	6.2	12.99	5.6	28.0
		Bottom	74	Abs	74	80	54.6	25.4	22.9	6.2	14.99	10	36.0
13	BHADBHADA (U/13)	Surface	74	Abs	74	78	54.6	23.4	22.9	5.7	17.98	6	32.0
		Bottom	78	Abs	78	82	58.8	23.2	24.7	5.6	19.98	8	40.0
14	STUD FARM (U/14)	Surface	64	4	60	70	46.2	23.8	19.4	5.8	11.99	4.8	16.0
		Bottom	68	Abs	68	72	52.5	19.5	22.1	4.7	13.99	6	24.0
15	BISEKHEDE (U/15)	Surface	66	6	60	68	44.1	23.9	18.5	5.8	12.99	5.2	20.0
		Bottom	70	Abs	70	74	48.3	25.7	20.3	6.2	15.98	8	28.0
16	A (Deeper Zone)	Surface	60	4	56	66	42.0	24.0	17.6	5.8	11.99	4.4	12.0
		Middle	64	Abs	64	70	46.2	23.8	19.4	5.8	13.99	6	20.0
		Bottom	70	Abs	70	74	52.5	21.5	22.1	5.2	15.98	8	24.0
17	B (Deeper Zone)	Surface	64	4	60	68	44.1	23.9	18.5	5.8	12.99	5.2	16.0
		Middle	66	Abs	66	72	48.3	23.7	20.3	5.8	14.99	8	24.0
		Bottom	68	Abs	68	76	54.6	21.4	22.9	5.2	16.98	10	28.0
18	C (Deeper Zone)	Surface	66	4	62	70	50.4	19.6	21.2	4.8	12.99	4.8	20.0

		Middle	68	Abs	68	74	52.5	21.5	22.1	5.2	13.99	6	28.0
		Bottom	72	Abs	72	76	54.6	21.4	22.9	5.2	15.98	8	32.0
		Min	60	2	54	66	42	17.4	17.6	4.2	11.0	4.4	12
		Max	78	6	78	82	58.8	27.8	24.7	6.8	20.0	10	40
		Mean	60	2	54	66	42	17.4	17.6	4.2	11.0	4.4	12
Sample collected by					Sample analyzed by					Report prepared by			

Water Quality at different locations of Upper Lake: October - 2022 (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 (mS/cm)	TDS (mg/l)	Transparency (cm)
1	KOLANS (U/1)	Surface	11.10.22	1.25 pm	27.9	26.9	8	Abs	7.6	0.238	152	78
		Bottom			0	26.1	7.4	6	3.6	0.276	177	
2	BHORI (U/2)	Surface	11.10.22	1.0 pm	27.8	26.8	8.2	Abs	8.4	0.243	156	82
		Bottom			0	26	7.6	4	4.8	0.278	178	
3	BETHA. (U/3)	Surface	11.10.22	12.40 pm	27.7	26.7	8	Abs	7.6	0.241	154	78
		Bottom			0	25.8	7.4	6	4.0	0.276	177	
4	BAIRAGARH (U/4)	Surface	11.10.22	12.15 pm	27.6	26.5	8.1	Abs	8.4	0.236	151	80
		Bottom			0	25.3	7.5	4	5.2	0.273	175	
5	BAIRAGARH EAST (U/5)	Surface	10.10.22	2.0 pm	28.4	27.3	8	Abs	8.0	0.239	153	78
		Bottom			0	26.4	7.4	6	4.8	0.261	167	
6	KHANUGAU (U/6)	Surface	10.10.22	1.30 pm	28.7	27.2	8.1	Abs	7.6	0.242	155	80
		Bottom			0	26.3	7.5	4	4.4	0.257	164	
7	KARBALA (U/7)	Surface	10.10.22	1.0 pm	29.1	27.4	8	Abs	8.0	0.230	147	78
		Bottom			0	26.5	7.6	6	4.0	0.244	156	
8	MEDICAL COLLEGE (U/8)	Surface	10.10.22	12.40 pm	29.5	27.6	8.1	Abs	7.6	0.232	148	80
		Bottom			0	26.7	7.4	4	3.2	0.246	157	
9	KAMLA PARK (U/9)	Surface	10.10.22	12.10 pm	29.3	27.4	8.2	Abs	8.0	0.234	150	80
		Bottom			0	26.6	7.5	6	4.4	0.248	159	
10	YACHT CLUB (U/10)	Surface	13.10.22	2.30 pm	28.3	27.5	8.3	Abs	8.4	0.239	153	78
		Bottom			0	26.7	7.4	4	4.8	0.254	163	
11	VAN VIHAR (U/11)	Surface	13.10.22	3.0 pm	28.5	27.7	8.1	Abs	8.0	0.238	152	80
		Bottom			0	26.8	7.5	6	4.4	0.259	166	
12	SPILL CHANEL (U/12)	Surface	14.10.22	1.0 pm	30.6	28.3	8.2	Abs	8.0	0.234	150	78
		Bottom			0	27.5	7.4	6	4.8	0.248	159	
13	BHADBHADA (U/13)	Surface	14.10.22	1.30 pm	30.8	28.4	8.0	Abs	7.6	0.239	153	78
		Bottom			0	27.6	7.5	4	4.0	0.258	165	
14	STUD FARM (U/14)	Surface	11.10.22	1.45 pm	28.0	27.1	8.2	Abs	8.4	0.237	152	82
		Bottom			0.0	26.7	7.5	4	4.8	0.269	172	
15	BISEKHHEDI (U/15)	Surface	11.10.22	2.0 pm	28.2	27.3	8.2	Abs	8.4	0.239	153	80
		Bottom			0.0	26.7	7.5	6	4.4	0.275	176	
16	A (Deeper Zone)	Surface	13.10.22	4.25 pm	28.4	27.6	8.1	Abs	8.0	0.236	151	78
		Middle			0.0	27.0	7.6	Abs	7.2	0.248	159	
		Bottom				26.8	7.5	4	4.8	0.261	167	
17	B (Deeper Zone)	Surface	13.10.22	3.55 pm	28.5	27.7	8.1	Abs	8.4	0.237	152	78
		Middle			0	27.1	7.7	Abs	6.8	0.241	154	
		Bottom			0	26.9	7.4	4	4.0	0.258	165	
18	C (Deeper Zone)	Surface	13.10.22	3.30 pm	28.7	27.8	8.2	Abs	8.8	0.238	152	80
		Middle			0	27.2	7.8	Abs	7.2	0.243	156	
		Bottom			0	26.7	7.5	6	4.8	0.254	163	
				Min	0	25.3	7.4	4.0	3.2	0.230	147.2	78.0
				Max	30.8	28.4	8.3	6.0	8.8	0.278	177.9	82.0
				Mean	13.67	27.0	7.8	5.0	6.3	0.249	159.3	79.3
Sample collected by				Sample analyzed by				Report prepared by				

Water Quality at different locations of Upper Lake October - 2022 (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	64	4	60	72	58.8	13.2	27.7	3.2	14.99	4.4	16.0
		Bottom	68	Abs	68	84	65.1	18.9	35.3	4.6	16.98	6	20.0
2	BHORI (U/2)	Surface	62	6	56	90	63.0	27.0	37.8	6.6	15.98	4.8	20.0
		Bottom	66	Abs	66	96	69.3	26.7	40.3	6.5	17.98	8	24.0
3	BETHA. (U/3)	Surface	68	6	62	70	60.9	9.1	26.0	2.2	14.99	5.2	24.0
		Bottom	72	Abs	72	78	67.2	10.8	32.8	2.6	17.98	8	28.0
4	BAIRAGARH (U/4)	Surface	70	6	64	68	56.7	11.3	28.6	2.7	16.98	4.8	16.0
		Bottom	74	Abs	74	76	60.9	15.1	31.9	3.7	18.98	6	24.0
5	BAIRAGARH EAST (U/5)	Surface	72	6	66	74	58.8	15.2	31.1	3.7	17.98	5.2	20.0
		Bottom	76	Abs	76	84	67.2	16.8	35.3	4.1	19.98	8	28.0
6	KHANUGAU (U/6)	Surface	70	4	66	72	52.5	19.5	30.2	4.7	15.98	4.4	24.0
		Bottom	76	Abs	76	78	56.7	21.3	32.8	5.2	18.98	6	32.0
7	KARBALA (U/7)	Surface	68	6	62	70	50.4	19.6	29.4	4.8	14.99	5.6	24.0
		Bottom	74	Abs	74	76	54.6	21.4	31.9	5.2	17.98	8	28.0
8	MEDICAL COLLEGE (U/8)	Surface	70	6	64	68	56.7	11.3	28.6	2.7	16.98	5.2	20.0
		Bottom	72	Abs	72	78	60.9	17.1	32.8	4.2	17.98	8	28.0
9	KAMLA PARK (U/9)	Surface	68	4	64	74	52.5	21.5	31.1	5.2	15.98	4.8	24.0
		Bottom	72	Abs	72	80	58.8	21.2	33.6	5.2	17.98	6	32.0
10	YACHT CLUB (U/10)	Surface	66	6	60	72	56.7	15.3	30.2	3.7	14.99	5.6	28.0
		Bottom	70	Abs	70	82	63.0	19.0	34.4	4.6	16.98	8	32.0
11	VAN VIHAR (U/11)	Surface	70	4	66	76	54.6	21.4	31.9	5.2	16.98	4.8	24.0
		Bottom	76	Abs	76	84	58.8	25.2	35.3	6.1	18.98	6	28.0
12	SPILL CHANEL (U/12)	Surface	72	6	66	74	58.8	15.2	31.1	3.7	15.98	5.2	20.0
		Bottom	78	Abs	78	80	63.0	17.0	33.6	4.1	16.98	8	28.0
13	BHADBHADA (U/13)	Surface	74	6	68	70	60.9	9.1	29.4	2.2	18.98	5.6	28.0
		Bottom	80	Abs	80	86	67.2	18.8	36.1	4.6	20.98	8	36.0
14	STUD FARM (U/14)	Surface	68	6	62	72	52.5	19.5	30.2	4.7	13.99	4.8	16.0
		Bottom	72	Abs	72	78	58.8	19.2	32.8	4.7	15.98	6	24.0
15	BISEKHEDE (U/15)	Surface	70	4	66	74	54.6	19.4	31.1	4.7	14.99	4.4	20.0
		Bottom	76	Abs	76	82	58.8	23.2	34.4	5.6	16.98	6	28.0
16	A (Deeper Zone)	Surface	68	6	62	72	52.5	19.5	30.2	4.7	14.99	4	12.0
		Middle	72	4	68	78	56.7	21.3	32.8	5.2	16.98	4.8	20.0
		Bottom	78	Abs	78	84	63.0	21.0	35.3	5.1	18.98	6	24.0
17	B (Deeper Zone)	Surface	70	8	62	74	56.7	17.3	31.1	4.2	13.99	4.8	16.0
		Middle	74	4	70	78	60.9	17.1	32.8	4.2	15.98	5.6	28.0
		Bottom	80	Abs	80	86	63.0	23.0	36.1	5.6	17.98	8	32.0
18	C (Deeper Zone)	Surface	74	6	68	72	54.6	17.4	30.2	4.2	16.98	4.4	24.0
		Middle	76	4	72	76	58.8	17.2	31.9	4.2	18.98	5.2	28.0
		Bottom	84	Abs	84	82	65.1	16.9	34.4	4.1	19.98	8	32.0
		Min	62	4	56	68	50.4	9.1	26.0	2.2	14.0	4	12
		Max	84	8	84	96	69.3	27	40.3	6.6	21.0	8	36
		Mean	62	4	56	68	50.4	9.1	26.0	2.2	14.0	4	12

Sample collected by

Sample analyzed by

Report prepared by

Water Quality at different locations of Upper Lake:November - 2022 (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 (mS/cm)	TDS (mg/l)	Transparency (cm)
1	KOLANS (U/1)	Surface	16.11.22	1.25 pm	29.3	28.5	8.1	Abs	7.6	0.270	173	80
		Bottom			0	27.7	7.4	4	4.0	0.290	186	
2	BHORI (U/2)	Surface	16.11.22	1.10 pm	29	28.3	8.3	Abs	8.8	0.260	166	82
		Bottom			0	27.6	7.5	4	5.2	0.280	179	
3	BETHA. (U/3)	Surface	16.11.22	12.45 pm	28.5	27.9	8.2	Abs	8.0	0.250	160	80
		Bottom			0	26.7	7.4	4	4.0	0.270	173	
4	BAIRAGARH (U/4)	Surface	16.11.22	12.15 pm	28.3	27.7	8.3	Abs	8.4	0.240	154	78
		Bottom			0	26.5	7.5	6	4.8	0.260	166	
5	BAIRAGARH EAST (U/5)	Surface	14.11.22	1.55 pm	28.9	27.5	8.2	Abs	8.0	0.210	134	78
		Bottom			0	26.8	7.6	4	4.8	0.230	147	
6	KHANUGAU (U/6)	Surface	14.11.22	1.35 pm	28.5	27.1	8.1	Abs	7.6	0.250	160	80
		Bottom			0	26.4	7.5	6	4.4	0.270	173	
7	KARBALA (U/7)	Surface	14.11.22	1.05 pm	28	26.8	8.2	Abs	8.4	0.260	166	80
		Bottom			0	25.9	7.6	6	4.8	0.280	179	
8	MEDICAL COLLEGE (U/8)	Surface	21.11.22	12.45 pm	27.8	26.5	8.1	Abs	7.6	0.230	147	78
		Bottom			0	25.8	7.4	4	4.0	0.260	166	
9	KAMLA PARK (U/9)	Surface	21.11.22	12.10 pm	27.6	26.3	8.2	Abs	8.0	0.250	160	80
		Bottom			0	25.6	7.5	6	4.4	0.270	173	
10	YACHT CLUB (U/10)	Surface	17.11.22	12.15 pm	27.4	26.4	8.1	Abs	7.6	0.260	166	78
		Bottom			0	25.3	7.4	4	4.0	0.280	179	
11	VAN VIHAR (U/11)	Surface	17.11.22	12.45 pm	27.6	26.6	8.2	Abs	8.0	0.240	154	80
		Bottom			0	25.4	7.5	6	4.4	0.260	166	
12	SPILL CHANEL (U/12)	Surface	14.10.22	12.45 pm	27.6	26.5	8.1	Abs	7.6	0.280	179	78
		Bottom			0	25.6	7.4	6	4.0	0.310	198	
13	BHADBHADA (U/13)	Surface	14.10.22	1.25 pm	27.8	26.6	8.0	Abs	7.2	0.290	186	78
		Bottom			0	25.7	7.5	4	3.6	0.330	211	
14	STUD FARM (U/14)	Surface	16.11.22	1.45 pm	29.5	28.6	8.2	Abs	8.4	0.260	166	82
		Bottom			0.0	27.8	7.6	4	4.8	0.280	179	
15	BISEKHEDE (U/15)	Surface	16.11.22	2.05 pm	29.8	28.7	8.1	Abs	8.0	0.240	154	80
		Bottom			0.0	28.0	7.5	6	4.4	0.270	173	
16	A (Deeper Zone)	Surface	17.11.22	1.50 pm	28.5	27.3	8.0	Abs	7.6	0.260	166	80
		Middle			0.0	26.7	7.6	4	4.4	0.280	179	
		Bottom				26.1	7.4	6	3.2	0.310	198	
17	B (Deeper Zone)	Surface	17.11.22	1.30 pm	28.1	26.9	8.1	Abs	8.0	0.270	173	78
		Middle			0	25.7	7.5	6	4.8	0.280	179	
		Bottom				25.6	7.3	8	3.6	0.300	192	
18	C (Deeper Zone)	Surface	17.11.22	1.05 pm	27.8	26.7	8.2	Abs	8.4	0.280	179	80
		Middle			0	25.6	7.6	4	5.2	0.290	186	
		Bottom				25.4	7.4	8	4.0	0.310	198	
				Min	0	25.3	7.3	4.0	3.2	0.210	134	78.0
				Max	29.8	28.7	8.3	8.0	8.8	0.330	211	82.0
				Mean	13.50	26.8	7.8	5.3	6.0	0.270	172	79.5
Sample collected by			Sample analyzed by					Report prepared by				

Water Quality at different locations of Upper Lake November - 2022 (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	70	4	66	68	52.5	15.5	22.1	3.8	11.99	4.8	16.0
		Bottom	74	Abs	74	76	56.7	19.3	23.8	4.7	13.99	8	20.0
2	BHORI (U/2)	Surface	76	6	70	70	54.6	15.4	22.9	3.7	12.99	4.4	12.0
		Bottom	80	Abs	80	78	58.8	19.2	24.7	4.7	14.99	6	24.0
3	BETHA. (U/3)	Surface	72	6	66	64	58.8	5.2	24.7	1.3	14.99	5.2	20.0
		Bottom	76	Abs	76	78	63.0	15.0	26.5	3.6	16.98	8	24.0
4	BAIRAGARH (U/4)	Surface	74	8	66	72	56.7	15.3	23.8	3.7	15.98	4.8	16.0
		Bottom	78	Abs	78	80	60.9	19.1	25.6	4.6	17.98	10	28.0
5	BAIRAGARH EAST (U/5)	Surface	76	4	72	70	54.6	15.4	22.9	3.7	13.99	5.6	20.0
		Bottom	82	Abs	82	78	56.7	21.3	23.8	5.2	16.98	8	28.0
6	KHANUGAU (U/6)	Surface	72	4	68	72	52.5	19.5	22.1	4.7	12.99	4.4	16.0
		Bottom	78	Abs	78	76	54.6	21.4	22.9	5.2	15.98	6	20.0
7	KARBALA (U/7)	Surface	70	6	64	80	58.8	21.2	24.7	5.2	15.98	6	20.0
		Bottom	76	Abs	76	96	67.2	28.8	28.2	7.0	17.98	10	28.0
8	MEDICAL COLLEGE (U/8)	Surface	68	6	62	68	50.4	17.6	21.2	4.3	14.99	5.2	24.0
		Bottom	72	Abs	72	74	54.6	19.4	22.9	4.7	16.98	8	32.0
9	KAMLA PARK (U/9)	Surface	74	4	70	74	52.5	21.5	22.1	5.2	13.99	4.8	20.0
		Bottom	78	Abs	78	82	58.8	23.2	24.7	5.6	17.98	6	28.0
10	YACHT CLUB (U/10)	Surface	66	6	60	72	50.4	21.6	21.2	5.2	11.99	5.2	24.0
		Bottom	74	Abs	74	78	52.5	25.5	22.1	6.2	14.99	8	32.0
11	VAN VIHAR (U/11)	Surface	68	6	62	76	56.7	19.3	23.8	4.7	14.99	5.6	16.0
		Bottom	72	Abs	72	86	60.9	25.1	25.6	6.1	17.98	10	24.0
12	SPILL CHANEL (U/12)	Surface	74	4	70	78	58.8	19.2	24.7	4.7	13.99	4.8	20.0
		Bottom	80	Abs	80	82	63.0	19.0	26.5	4.6	15.98	6	24.0
13	BHADBHADA (U/13)	Surface	72	6	66	80	60.9	19.1	25.6	4.6	16.98	5.6	24.0
		Bottom	78	Abs	78	86	65.1	20.9	27.3	5.1	18.98	10	32.0
14	STUD FARM (U/14)	Surface	64	6	58	76	54.6	21.4	22.9	5.2	12.99	4.4	12.0
		Bottom	70	Abs	70	80	58.8	21.2	24.7	5.2	13.99	6	20.0
15	BISEKHEDE (U/15)	Surface	72	6	66	78	58.8	19.2	24.7	4.7	13.99	4.8	16.0
		Bottom	78	Abs	78	82	63.0	19.0	26.5	4.6	14.99	8	24.0
16	A (Deeper Zone)	Surface	68	6	62	72	50.4	21.6	21.2	5.2	10.99	4.4	12.0
		Middle	72	Abs	72	78	54.6	23.4	22.9	5.7	12.99	6	16.0
		Bottom	78	Abs	78	80	58.8	21.2	24.7	5.2	13.99	8	20.0
17	B (Deeper Zone)	Surface	70	6	64	74	54.6	19.4	22.9	4.7	11.99	4.8	8.0
		Middle	74	Abs	74	82	58.8	23.2	24.7	5.6	13.99	8	16.0
		Bottom	80	Abs	80	86	63.0	23.0	26.5	5.6	15.98	10	24.0
18	C (Deeper Zone)	Surface	72	6	66	76	56.7	19.3	23.8	4.7	12.99	5.2	20.0
		Middle	76	Abs	76	80	60.9	19.1	25.6	4.6	13.99	6	24.0
		Bottom	84	Abs	84	84	65.1	18.9	27.3	4.6	14.99	8	28.0
		Min	64	4	58	64	50.4	5.2	21.2	1.3	11.0	4.4	8
	Max	84	8	84	96	67.2	28.8	28.2	7.0	19.0	10	32	
	Mean	64	4	58	64	50.4	5.2	21.2	1.3	11.0	4.4	8	

Sample collected by	Sample analyzed by	Report prepared by
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Water Quality at different locations of Upper Lake: Dec - 2021 (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 (mS/cm)	TDS (mg/l)	Transparency (cm)
1	KOLANS (U/1)	Surface	22.12.21	2.15 pm	24.6	20.2	8.2	Abs	8.8	0.42	257	54
		Bottom			0	19.0	7.4	6	5.6	0.43	260	
2	BHORI (U/2)	Surface	22.12.21	1.45 pm	24.7	20.5	8.3	Abs	8.4	0.42	255	56
		Bottom			0	19.3	7.5	4	6.0	0.43	265	
3	BETHA. (U/3)	Surface	22.12.21	1.25 pm	24.6	20.4	8.1	Abs	8.8	0.42	254	50
		Bottom			0	19.1	7.6	6	6.4	0.43	260	
4	BAIRAGARH (U/4)	Surface	22.12.21	1.0 pm	24.5	20.5	8.2	Abs	8.0	0.42	254	52
		Bottom			0	19.4	7.5	4	6.0	0.44	268	
5	BAIRAGARH EAST (U/5)	Surface	22.12.21	12.35 pm	24.3	20.3	8.5	Abs	8.4	0.41	252	48
		Bottom			0	19.2	7.4	2	5.2	0.43	265	
6	KHANUGAU (U/6)	Surface	20.12.21	4.0 pm	21.5	17.2	8.4	Abs	7.6	0.41	252	36
		Bottom			0	16.5	7.6	6	4.8	0.42	255	
7	KARBALA (U/7)	Surface	20.12.21	3.15 pm	21.7	17.5	8.5	Abs	8.0	0.42	258	46
		Bottom			0	16.9	7.5	4	5.2	0.43	264	
8	MEDICAL COLLEGE (U/8)	Surface	20.12.21	2.45 pm	21.5	17.5	8.7	Abs	8.4	0.43	262	44
		Bottom			0	17.0	7.4	6	5.6	0.45	275	
9	KAMLA PARK (U/9)	Surface	20.12.21	2.20 pm	21.2	17.3	8.6	Abs	7.2	0.43	264	46
		Bottom			0	16.8	7.5	4	6.0	0.48	292	
10	YACHT CLUB (U/10)	Surface	21.12.21	1.15 pm	23.1	20.0	8.3	Abs	8.0	0.41	252	38
		Bottom			0	18.1	7.8	2	6.4	0.45	276	
11	VAN VIHAR (U/11)	Surface	21.12.21	1.55 pm	23.3	20.1	8.4	Abs	7.6	0.43	260	40
		Bottom			0	18.4	7.6	4	6.4	0.43	263	
12	SPILL CHANEL (U/12)	Surface	21.12.21	2.45 pm	24.1	20.3	8.5	Abs	8.4	0.43	263	44
		Bottom			0	19.1	7.7	2	6.0	0.43	264	
13	BHADBHADA (U/13)	Surface	21.12.21	3.15 pm	24.6	20.4	8.7	Abs	8.8	0.43	260	46
		Bottom			0	19.3	7.6	6	6.4	0.43	262	
14	STUD FARM (U/14)	Surface	21.12.21	3.50 pm	24.4	20.2	8.5	Abs	8.4	0.42	254	44
		Bottom			0.0	18.9	7.4	2	6.0	0.42	257	
15	BISENKHEDI (U/15)	Surface	21.12.21	4.20 pm	24.2	20.1	8	Abs	8.0	0.42	256	42
		Bottom			0.0	19.0	8	4	5.6	0.43	260	
16	A (Deeper Zone)	Surface	23.12.21	12.45 pm	24.7	20.4	8.4	Abs	8.4	0.42	254	46
		Middle			0.0	20.0	7.8	4	6.8	0.42	255	
		Bottom			0.0	19.3	7.3	6	4.8	0.43	265	
17	B (Deeper Zone)	Surface	23.12.21	1.25 pm	24.8	20.3	8.5	Abs	9.2	0.42	257	44
		Middle			0	20.1	7.7	2	7.2	0.42	257	
		Bottom			0	19.1	7.5	4	4.0	0.43	260	
18	C (Deeper Zone)	Surface	23.12.21	2.15 pm	25.0	20.5	8.4	Abs	8.4	0.43	260	44
		Middle			0	19.9	7.8	4	6.8	0.43	265	
		Bottom			0	19.0	7.4	6	5.2	0.45	274	
		Min			0	16.5	7.3	2.0	4.0	0.00		36.0
	Max	25	20.5	8.7	6.0	9.2	0.00		56.0			
	Mean	11.02	19.1	8.0	4.2	6.9	0.00		45.6			
								0.00				
Sample collected by				Sample analyzed by				Report prepared by				

Table-1 Water Quality at different locations of Upper Lake : Dec - 2021(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	86	4	82	82	60.9	21.1	25.6	5.1	14.99	4.8	24.0
		Bottom	102	Abs	102	84	63.0	21.0	26.5	5.1	16.98	8.0	40.0
2	BHORI (U/2)	Surface	80	6	74	76	54.6	21.4	22.9	5.2	13.99	4.0	20.0
		Bottom	96	Abs	96	80	58.8	21.2	24.7	5.2	15.98	6.0	32.0
3	BETHA. (U/3)	Surface	84	4	80	74	56.7	17.3	23.8	4.2	12.99	4.8	24.0
		Bottom	106	Abs	106	80	60.9	19.1	25.6	4.6	14.99	10.0	36.0
4	BAIRAGARH (U/4)	Surface	90	6	84	72	52.5	19.5	22.1	4.7	15.98	5.2	16.0
		Bottom	100	Abs	100	94	67.2	26.8	28.2	6.5	17.98	8.0	32.0
5	BAIRAGARH EAST (U/5)	Surface	102	4	98	100	63.0	37.0	26.5	9.0	19.98	4.4	28.0
		Bottom	106	Abs	106	108	65.1	42.9	27.3	10.4	20.98	8.0	40.0
6	KHANUGAU (U/6)	Surface	104	6	98	92	52.5	39.5	22.1	9.6	17.98	4.8	24.0
		Bottom	112	Abs	112	102	63.0	39.0	26.5	9.5	21.98	6.0	40.0
7	KARBALA (U/7)	Surface	100	4	96	90	58.8	31.2	24.7	7.6	16.98	3.2	20.0
		Bottom	104	Abs	104	94	63.0	31.0	26.5	7.5	20.98	8.0	32.0
8	MEDICAL COLLEGE (U/8)	Surface	102	4	98	92	63.0	29.0	26.5	7.0	15.98	4.4	16.0
		Bottom	110	Abs	110	100	65.1	34.9	27.3	8.5	19.98	8.0	36.0
9	KAMLA PARK (U/9)	Surface	104	6	98	88	60.9	27.1	25.6	6.6	14.99	3.6	20.0
		Bottom	114	Abs	114	96	65.1	30.9	27.3	7.5	17.98	6.0	44.0
10	YACHT CLUB (U/10)	Surface	100	4	96	86	56.7	29.3	23.8	7.1	13.99	4.0	24.0
		Bottom	108	Abs	108	92	58.8	33.2	24.7	8.1	16.98	8.0	36.0
11	VAN VIHAR (U/11)	Surface	102	6	96	94	63.0	31.0	26.5	7.5	12.99	4.4	20.0
		Bottom	106	Abs	106	98	65.1	32.9	27.3	8.0	15.98	8.0	32.0
12	SPILL CHANEL (U/12)	Surface	100	4	96	102	65.1	36.9	27.3	9.0	14.99	4.0	16.0
		Bottom	110	Abs	110	106	69.3	36.7	29.1	8.9	16.98	8.0	28.0
13	BHADBHADA (U/13)	Surface	106	6	100	98	63.0	35.0	26.5	8.5	17.98	4.8	24.0
		Bottom	114	Abs	114	102	65.1	36.9	27.3	9.0	19.98	10.0	48.0
14	STUD FARM (U/14)	Surface	92	4	88	94	58.8	35.2	24.7	8.6	13.99	4.4	24.0
		Bottom	102	Abs	102	100	63.0	37.0	26.5	9.0	15.98	8.0	36.0
15	BISEKHEDE (U/15)	Surface	88	6	82	86	56.7	29.3	23.8	7.1	14.99	4.0	20.0
		Bottom	106	Abs	106	92	60.9	31.1	25.6	7.6	18.98	6.0	36.0
16	A (Deeper Zone)	Surface	88	4	84	80	54.6	25.4	22.9	6.2	12.99	4.0	16.0
		Middle	92	Abs	92	88	58.8	29.2	24.7	7.1	14.99	4.8	24.0
		Bottom	100	Abs	100	96	63.0	33.0	26.5	8.0	17.98	6.0	36.0
17	B (Deeper Zone)	Surface	96	4	92	86	56.7	29.3	23.8	7.1	14.99	4.8	20.0
		Middle	102	Abs	102	92	60.9	31.1	25.6	7.6	16.98	5.6	28.0
		Bottom	112	Abs	112	98	63.0	35.0	26.5	8.5	19.98	10.0	40.0
18	C (Deeper Zone)	Surface	92	6	86	86	52.5	33.5	22.1	8.1	13.99	4.4	20.0
		Middle	100	Abs	100	90	56.7	33.3	23.8	8.1	15.98	5.2	24.0
		Bottom	104	Abs	104	96	63.0	33.0	26.5	8.0	18.98	8.0	36.0
		Min	80	4	74	72	52.5	17.3	22.05	4.2039	12.99	3.20	16
		Max	114	6	114	108	69.3	42.9	29.11	10.42	21.98	10.00	48
	Mean	80	4	98.31	91.44	60.74	30.70	25.51	7.46	16.73	5.99	28.51	
Sample collected by			Sample analyzed by				Report prepared by						

Water Quality at different locations of Upper Lake:December - 2022 (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 (mS/cm)	TDS (mg/l)	Transparency (cm)
1	KOLANS (U/1)	Surface	22.12.22	1.40 pm	26.6	24.7	8.2	Abs	8.8	0.186	119	84
		Bottom			ND	20.2	7.4	6	4.0	0.192	123	
2	BHORI (U/2)	Surface	22.12.22	1.25 pm	26.5	24.8	8	Abs	8.0	0.188	120	88
		Bottom			ND	20.1	7.3	4	4.4	0.178	114	
3	BETHA. (U/3)	Surface	22.12.22	1.10 pm	26.1	25	8	Abs	7.6	0.178	114	80
		Bottom			ND	23.1	7.7	6	6.0	0.186	119	
4	BAIRAGARH (U/4)	Surface	22.12.22	12.40 pm	25.9	25.1	8.2	Abs	8.0	0.192	123	78
		Bottom			ND	20.3	7.6	4	5.2	0.195	124	
5	BAIRAGARH EA	Surface	21.12.22	2.10 pm	26.3	25.1	8.2	Abs	7.6	0.186	119	80
		Bottom			ND	24.7	7.5	4	4.4	0.197	126	
6	KHANUGAU (U/6)	Surface	21.12.22	1.45 pm	26.2	24.8	8.3	Abs	8.0	0.184	118	80
		Bottom			ND	24.0	7.4	6	4.0	0.195	125	
7	KARBALA (U/7)	Surface	21.12.22	1.25 pm	26	24.5	8.2	Abs	7.2	0.181	116	78
		Bottom			ND	23.7	1.6	4	3.2	0.192	123	
8	MEDICAL COLLEGE	Surface	21.12.22	12.50 pm	25.8	24.3	8.1	Abs	8.0	0.178	114	78
		Bottom			ND	23.5	7.4	4	4.4	0.185	118	
9	KAMLA PARK (U/9)	Surface	21.12.22	12.15 pm	25.6	24.1	8.2	Abs	7.6	0.186	119	80
		Bottom			ND	23.3	7.5	6	3.6	0.193	124	
10	YACHT CLUB (U/10)	Surface	23.12.22	12.10 pm	25.4	24.2	8.1	Abs	7.2	0.175	112	78
		Bottom			ND	23.7	7.4	4	2.8	0.184	118	
11	VAN VIHAR (U/11)	Surface	23.12.22	12.40 pm	25.6	24.4	8.2	Abs	7.6	0.178	114	78
		Bottom			ND	23.7	7.4	6	3.2	0.192	123	
12	SPILL CHANEL	Surface	26.12.22	1.15 pm	25	22.8	8.1	Abs	7.6	0.193	124	80
		Bottom			ND	20.0	7.6	6	3.6	0.196	125	
13	BHADBHADA (U/13)	Surface	26.12.22	12.30 pm	25	22.7	8.2	Abs	7.2	0.192	123	78
		Bottom			ND	20.1	7.5	4	3.2	0.198	127	
14	STUD FARM (U/14)	Surface	22.12.22	2.50 pm	26.8	22.6	8.6	Abs	8.4	0.180	115	78
		Bottom			ND	18.8	7.9	4	3.6	0.192	123	
15	BISENKHEDI (U/15)	Surface	22.12.22	2.15 pm	26.8	22.5	8.2	Abs	8.8	0.182	116	82
		Bottom			ND	19.1	7.9	6	4.0	0.190	122	
16	A (Deeper Zone)	Surface	23.12.22	1.10 pm	25.8	24.7	8.2	Abs	8.4	0.184	118	80
		Middle			ND	24.0	7.6	4	4.8	0.188	120	
		Bottom			ND	23.6	7.4	6	3.6	0.193	124	
17	B (Deeper Zone)	Surface	23.12.22	1.40 pm	26.1	25.3	7.1	Abs	7.6	0.186	119	78
		Middle			ND	24.5	7.5	6	4.4	0.192	123	
		Bottom			ND	24.5	7.4	8	3.2	0.198	127	
18	C (Deeper Zone)	Surface	23.12.22	2.10 pm	26.3	25.5	8.2	Abs	8.0	0.179	115	80
		Middle			25	24.7	7.6	4	4.8	0.184	118	
		Bottom			ND	24.0	7.5	6	4.0	0.196	125	
				Min	25	18.8		4.0	2.8	0.175	112	78.0

				Max	26.8	25.5	8.6	8.0	8.8	0.198	127	88.0
				Mean	25.93	23.3	7.7	5.2	5.8	0.188	120	80.2
Sample collected by				Sample analyzed by					Report prepared by			

Water Quality at different locations of Upper Lake December - 2022 (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	76	8	68	72	54.6	17.4	22.9	4.2	16.98	4.8	12.0
		Bottom	80	Abs	80	76	56.7	19.3	23.8	4.7	18.98	6	20.0
2	BHORI (U/2)	Surface	74	6	68	76	56.7	19.3	23.8	4.7	15.98	4.4	16.0
		Bottom	78	Abs	78	80	58.8	21.2	24.7	5.2	17.98	8	24.0
3	BETHA. (U/3)	Surface	80	2	78	70	52.5	17.5	22.1	4.3	14.99	5.6	20.0
		Bottom	84	Abs	84	74	54.6	19.4	22.9	4.7	16.98	8	32.0
4	BAIRAGARH (U/4)	Surface	72	4	68	68	54.6	13.4	22.9	3.3	13.99	5.2	20.0
		Bottom	76	Abs	76	72	56.7	15.3	23.8	3.7	15.98	10	32.0
5	BAIRAGARH EAST (U/5)	Surface	70	6	64	74	58.8	15.2	24.7	3.7	15.98	4.8	16.0
		Bottom	74	Abs	74	78	60.9	17.1	25.6	4.2	17.98	8	24.0
6	KHANUGAU (U/6)	Surface	74	6	68	72	56.7	15.3	23.8	3.7	14.99	5.6	24.0
		Bottom	76	Abs	76	76	58.8	17.2	24.7	4.2	15.98	6	28.0
7	KARBALA (U/7)	Surface	78	6	72	74	54.6	19.4	22.9	4.7	16.98	5.6	24.0
		Bottom	82	Abs	82	78	56.7	21.3	23.8	5.2	18.98	10	32.0
8	MEDICAL COLLEGE (U/8)	Surface	72	6	66	72	52.5	19.5	22.1	4.7	15.98	4.8	16.0
		Bottom	74	Abs	74	76	54.6	21.4	22.9	5.2	17.98	6	20.0
9	KAMLA PARK (U/9)	Surface	76	4	72	78	58.8	19.2	24.7	4.7	17.98	6.4	28.0
		Bottom	80	Abs	80	82	60.9	21.1	25.6	5.1	18.98	8	32.0
10	YACHT CLUB (U/10)	Surface	72	6	66	76	52.5	23.5	22.1	5.7	16.98	4.8	20.0
		Bottom	76	Abs	76	78	54.6	23.4	22.9	5.7	17.98	6	24.0
11	VAN VIHAR (U/11)	Surface	70	4	66	78	58.8	19.2	24.7	4.7	15.98	4.4	16.0
		Bottom	74	Abs	74	84	63.0	21.0	26.5	5.1	16.98	6	20.0
12	SPILL CHANEL (U/12)	Surface	68	2	66	76	56.7	19.3	23.8	4.7	14.99	5.2	24.0
		Bottom	72	Abs	72	78	58.8	19.2	24.7	4.7	16.98	8	28.0
13	BHADBHADA (U/13)	Surface	74	4	70	74	54.6	19.4	22.9	4.7	17.98	5.6	20.0
		Bottom	78	Abs	78	78	56.7	21.3	23.8	5.2	18.98	10	32.0
14	STUD FARM (U/14)	Surface	70	6	64	72	52.5	19.5	22.1	4.7	14.99	4.4	16.0
		Bottom	74	Abs	74	78	54.6	23.4	22.9	5.7	16.98	6	20.0
15	BISEKHEDE (U/15)	Surface	72	8	64	76	54.6	21.4	22.9	5.2	13.99	4.8	12.0
		Bottom	76	Abs	76	80	56.7	23.3	23.8	5.7	15.98	8	24.0
16	A (Deeper Zone)	Surface	68	6	62	72	52.5	19.5	22.1	4.7	14.99	4.4	16.0
		Middle	72	Abs	72	76	54.6	21.4	22.9	5.2	15.98	6	20.0
		Bottom	76	Abs	76	82	56.7	25.3	23.8	6.1	17.98	8	24.0
17	B (Deeper Zone)	Surface	72	4	68	74	54.6	19.4	22.9	4.7	14.99	4.8	12.0
		Middle	74	Abs	74	78	56.7	21.3	23.8	5.2	16.98	8	20.0
		Bottom	78	Abs	78	80	58.8	21.2	24.7	5.2	17.98	10	32.0
18	C (Deeper Zone)	Surface	70	6	64	76	56.7	19.3	23.8	4.7	15.98	5.2	16.0

		Middle	74	Abs	74	80	58.8	21.2	24.7	5.2	16.98	8	24.0
		Bottom	76	Abs	76	84	60.9	23.1	25.6	5.6	18.98	10	36.0
		Min	68	2	62	68	52.5	13.4	22.1	3.3	14.0		12
		Max	84	8	84	84	63	25.3	26.5	6.1	19.0		36
		Mean	68	2	62	68	52.5	13.4	22.1	3.3	14.0		12
Sample collected by					Sample analyzed by					Report prepared by			