

WATER QUALITY CHARACTERISTICS OF KALYANI RIVER AT U/S PANTNAGAR IND. AREA, US NAGAR

Month	pH	BOD mg/L	COD mg/L	Conductivity μ mhos/cm	Temp $^{\circ}$ C	DO mg/L	TDS mg/L
2021							
Jan-21	8.1	5.8	30	590	14	3.4	377
Feb-21	7.0	4.0	20	625	24	7.6	418
Mar-21	7.20	8.0	32	675	24	5.60	452
Apr-21	7.0	8.40	35	698	25	5.30	472
May-21	7.80	8.20	33	688	22	5.10	482
2020							
Jan-20	7.2	5.2	10	486	10	6.8	257
Feb-20	7.54	8.0	25	540	30	4.4	248
Mar-20	8.5	6	30	490	31	6	288
Apr-20	7.4	3	18	450	33	8	311
May-20	7.6	4.6	28	460	39	6.2	460
June-20	7.2	6.4	36	470	37	3.1	319
July-20	7.8	10	50	270	32	2.8	179
Aug-20	7.38	3.90	14	260	33	5.7	178
Sept-20	7.85	4.50	12.6	270	34	3.9	175
Oct-20	7.3	5.40	19	300	33	4.80	192
Nov-20	7.38	5.20	20	310	19	4.4	238
Dec-20	7.10	5.7	21	340	19	4.1	258
Average	7.52	5.66	23.63	387.17	29.17	5.02	258.58
Min-Max	(7.1-8.5)	(3-10)	(10-50)	(260-540)	(10-39)	(2.8-8)	(175-460)
2019							
Jan-19	7.1	4	11	280	12	6.2	188
Feb-19	7.7	4	14	381	16	6	208
Mar-19	7.3	4.6	18	510	26	5.2	267
Apr-19	7.5	5.2	28	460	32	6.0	272
May-19	7.4	4.6	24	480	38	5.8	267
June-19	7.7	4.2	28	520	37	6.4	264
July-19	7.4	6	30	284	30	3.6	185
Aug-19	7.2	6.2	30	430	31	4.0	234
Sep-19	7.2	6.0	20.0	440	32	4.0	286
Oct-19	7.8	6.2	20	412	30	5.2	268
Nov-19	7.5	6.0	40	340	22	4.2	228
Dec-19	7.4	10	20	392	11	3.2	263
Average	7.43	5.58	23.58	410.75	26.42	4.98	244.17
Min-Max	(7.1-7.8)	(4-10)	(11-40)	(280-520)	(11-38)	(3.2-6.4)	(185-286)
2018							
Jan-18	7.2	3.2	18	390	17	8.2	248
Feb-18	7.2	2.2	16	450	27	8	298
Mar-18	River Dry						
Apr-18	River Dry						
May-18	River Dry						
Jun-18	7.2	3.2	8	440	30	7.2	284
Jul-18	7.6	2.6	16	510	28	7.2	328
Aug-18	7.6	1.8	18	460	27	7.8	288
Sep-18	7.5	4	14	390	27	7.2	248
Oct-18	7.3	8	28	410	25	6.2	268

Nov-18	7.2	4.2	18	320	22	6.8	210
Dec-18	7.4	3.2	10	370	18	6.4	234
Average	7.35	3.6	16.22	415.55	24.55	7.22	267.33
Min-Max	7.2-7.6)	(1.8-8)	(8-28)	(320-460)	(17-30)	(6.2-8.2)	(210-328)

**WATER QUALITY CHARACTERISTICS OF KALYANI RIVER AT D/S PANTNAGAR
INDUSTRIAL AREA, US NAGAR**

Month	pH	BOD mg/L	COD mg/L	Conductivity µmhos/cm	Temp °C	DO mg/L	TDS mg/L
2020							
Jan-21	7.30	22	80	630	14	1.20	425
Feb-21	8.20	28	152	1200	23	0.20	828
Mar-21	8.0	30	156	1210	23	0.10	840
Apr-21	8.20	28	150	1237	24	0.40	877
May-21	8.50	23	132	1203	23	0.50	821
2020							
Jan-20	7.3	16	40	562	10	1.4	298
Feb-20	7.16	20	40	580	30	1.6	304
Mar-20	7.9	6.8	60	540	31	2.8	317
Apr-20	7.5	5.2	36	410	33	3.7	269
May-20	7.0	6.4	44	456	39	3.1	310
June-20	7.8	8.2	44	420	37	2.9	282
July-20	7.4	15	80	760	31	2.5	502
Aug-20	7.48	4.10	14	566	32	7.30	286
Sept-20	7.34	8.0	44	730	32	2.3	287
Oct-20	7.60	14	48	550	33	2.2	372
Nov-20	7.2	15	70	560	18	2.3	386
Dec-20	6.9	13.5	79	580	10	2.0	396
Average	7.38	11.02	49.92	559.50	28.00	2.84	334.08
Min-Max	(6.9-7.9)	(4.1-20)	(14-80)	(410-760)	(10-39)	(1.4-7.3)	(269-502)
2019							
Jan-19	6.7	24	68	590	14	3.20	389
Feb-19	6	20	56	530	15	2.8	356
Mar-19	7.6	14	28	490	25	4.8	304
Apr-19	7.2	12	24	510	30	2.0	362
May-19	6.8	10	26	520	36	2.4	292
June-19	7.4	6	32	560	38	2	297
July-19	7.4	12	28	389	31	1.8	407
Aug-19	7.2	6.0	30	520	30	6.4	286
Sep-19	6.5	4.0	40	520	30	1.4	286
Oct-19	7.2	6.4	60	484	29	1.8	315
Nov-19	7.0	9.0	10	423	21	2.2	284
Dec-19	7.3	22	60	425	11	1.8	285
2018							
Jan-18	7.9	8.2	38	620	17	5.20	412
Feb-18	7.4	6	36	580	22	5.20	377
Mar-18	6.98	20	84	230	27	1.80	339
Apr-18	6.86	80	304	470	28	0.60	300
May-18	7.1	52	200	480	30	1.20	317

Jun-18	6.4	48	190	580	32	1.20	376
Jul-18	7.3	44	152	570	28	1.80	374
Aug-18	7.8	30	118	550	28	3.20	352
Sep-18	6.9	34	138	580	28	2.80	376
Oct-18	7.3	36	130	540	27	2.00	352
Nov-18	7.6	26	88	520	23	2.60	336
Dec-18	6.8	30	80	580	18	2.80	378
Average	7.19	34.51	129.83	525	25.66	2.53	357.41
Min-Max	(6.4-7.9)	(6-80)	(36-304)	(230-620)	(17-32)	(0.60-5.20)	(300-412)