

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

Month	pH	BOD mg/L	COD mg/L	Conductivity $\mu$ mhos/cm	Temp $^{\circ}$ C	DO mg/L	TDS mg/L
<b>2022</b>							
Jan	7.6	7	24	440	10	4.6	310
Feb	7.50	8.0	20	430	22	4.5	288
Mar	7.60	7.0	20	480	25	4.3	325
Apr	7.60	8.0	24	490	28	4.0	328
May	7.30	10	32	445	28	3.0	300
June	7.0	8.0	30	508	30	3.0	340
July	7.60	6.0	24	540	28	3.6	360
Aug	7.40	8.0	26.4	352	28	3.5	232
<b>2021</b>							
Jan	8.1	5.8	30	590	14	3.4	377
Feb	7.0	4.0	20	625	24	7.6	418
Mar	7.20	8.0	32	675	24	5.60	452
Apr	7.0	8.40	35	698	25	5.30	472
May	7.80	8.20	33	688	22	5.10	482
June	7.70	8.0	32	680	22	6.0	456
July	7.80	6.50	30	550	28	3.90	380
Aug	7.60	6.0	27.10	521	31	4.0	349
Sep	7.9	6.4	32	534		3.8	357
Oct	7.7	10	32	520		3.50	352
Nov	7.3	12.8	34.1	533		3.7	357.11
Dec	7.20	10	32	556	28	4.0	372.5
<b>2020</b>							
Jan	7.2	5.2	10	486	10	6.8	257
Feb	7.54	8.0	25	540	30	4.4	248
Mar	8.5	6	30	490	31	6	288
Apr	7.4	3	18	450	33	8	311
May	7.6	4.6	28	460	39	6.2	460
June	7.2	6.4	36	470	37	3.1	319
July	7.8	10	50	270	32	2.8	179
Aug	7.38	3.90	14	260	33	5.7	178
Sep	7.85	4.50	12.6	270	34	3.9	175
Oct	7.3	5.40	19	300	33	4.80	192
Nov	7.38	5.20	20	310	19	4.4	238
Dec	7.10	5.7	21	340	19	4.1	258
<b>Average</b>	<b>7.52</b>	<b>5.66</b>	<b>23.63</b>	<b>387.17</b>	<b>29.17</b>	<b>5.02</b>	<b>258.58</b>
<b>Min-Max</b>	<b>(7.1-8.5)</b>	<b>(3-10)</b>	<b>(10-50)</b>	<b>(260-540)</b>	<b>(10-39)</b>	<b>(2.8-8)</b>	<b>(175-460)</b>
<b>2019</b>							
Jan	7.1	4	11	280	12	6.2	188
Feb	7.7	4	14	381	16	6	208
Mar	7.3	4.6	18	510	26	5.2	267
Apr	7.5	5.2	28	460	32	6.0	272
May	7.4	4.6	24	480	38	5.8	267
June	7.7	4.2	28	520	37	6.4	264
July	7.4	6	30	284	30	3.6	185
Aug	7.2	6.2	30	430	31	4.0	234
Sep	7.2	6.0	20.0	440	32	4.0	286

<b>Oct</b>	7.8	6.2	20	412	30	5.2	268
<b>Nov</b>	7.5	6.0	40	340	22	4.2	228
<b>Dec</b>	7.4	10	20	392	11	3.2	263
<b>Average</b>	<b>7.43</b>	<b>5.58</b>	<b>23.58</b>	<b>410.75</b>	<b>26.42</b>	<b>4.98</b>	<b>244.17</b>
<b>Min-Max</b>	<b>(7.1-7.8)</b>	<b>(4-10)</b>	<b>(11-40)</b>	<b>(280-520)</b>	<b>(11-38)</b>	<b>(3.2-6.4)</b>	<b>(185-286)</b>
<b>2018</b>							
<b>Jan</b>	7.2	3.2	18	390	17	8.2	248
<b>Feb</b>	7.2	2.2	16	450	27	8	298
<b>Mar</b>	River Dry						
<b>Apr</b>	River Dry						
<b>May</b>	River Dry						
<b>June</b>	7.2	3.2	8	440	30	7.2	284
<b>July</b>	7.6	2.6	16	510	28	7.2	328
<b>Aug</b>	7.6	1.8	18	460	27	7.8	288
<b>Sep</b>	7.5	4	14	390	27	7.2	248
<b>Oct</b>	7.3	8	28	410	25	6.2	268
<b>Nov</b>	7.2	4.2	18	320	22	6.8	210
<b>Dec</b>	7.4	3.2	10	370	18	6.4	234
<b>Average</b>	<b>7.35</b>	<b>3.6</b>	<b>16.22</b>	<b>415.55</b>	<b>24.55</b>	<b>7.22</b>	<b>267.33</b>
<b>Min-Max</b>	<b>7.2-7.6)</b>	<b>(1.8-8)</b>	<b>(8-28)</b>	<b>(320-460)</b>	<b>(17-30)</b>	<b>(6.2-8.2)</b>	<b>(210-328)</b>

**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
<b>2022</b>							
Jan	7.4	19	140	730	10	2.9	492
Feb	7.30	20	144	750	22	2.5	502
Mar	7.50	22.5	160	710	25	2.0	518
Apr	7.70	24	168	720	28	1.8	524
May	7.0	28	190	660	28	1.5	440
June	6.80	34	220	1100	30	1.0	737
July	7.10	32	216	1060	28	1.0	710
Aug	7.30	28.0	211	368	31	1.4	244
<b>2021</b>							
Jan	7.30	22	80	630	14	1.20	425
Feb	8.20	28	152	1200	23	0.20	828
Mar	8.0	30	156	1210	23	0.10	840
Apr	8.20	28	150	1237	24	0.40	877
May	8.50	23	132	1203	23	0.50	821
June	8.30	22	121	1200	22	0.80	804
July	6.90	26	200	1200	28	1.0	918
Aug	7.40	18	190	1108	31	2.10	742
Sep	7.6	21.30	220	1123		1.9	752
Oct	6.5	26.0	210	1250		1.50	938
Nov	6.9	29	201	1233		1.8	826.11
Dec	7.50	26	195	1176	28	2.2	787
<b>2020</b>							
Jan	7.3	16	40	562	10	1.4	298
Feb	7.16	20	40	580	30	1.6	304
Mar	7.9	6.8	60	540	31	2.8	317
Apr	7.5	5.2	36	410	33	3.7	269
May	7.0	6.4	44	456	39	3.1	310
June	7.8	8.2	44	420	37	2.9	282
July	7.4	15	80	760	31	2.5	502
Aug	7.48	4.10	14	566	32	7.30	286
Sep	7.34	8.0	44	730	32	2.3	287
Oct	7.60	14	48	550	33	2.2	372
Nov	7.2	15	70	560	18	2.3	386
Dec	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)
<b>2019</b>							
Jan	6.7	24	68	590	14	3.20	389
Feb	6	20	56	530	15	2.8	356
Mar	7.6	14	28	490	25	4.8	304
Apr	7.2	12	24	510	30	2.0	362
May	6.8	10	26	520	36	2.4	292
June	7.4	6	32	560	38	2	297
July	7.4	12	28	389	31	1.8	407

<b>Aug</b>	7.2	6.0	30	520	30	6.4	286
<b>Sep</b>	6.5	4.0	40	520	30	1.4	286
<b>Oct</b>	7.2	6.4	60	484	29	1.8	315
<b>Nov</b>	7.0	9.0	10	423	21	2.2	284
<b>Dec</b>	7.3	22	60	425	11	1.8	285
<b>2018</b>							
<b>Jan</b>	7.9	8.2	38	620	17	5.20	412
<b>Feb</b>	7.4	6	36	580	22	5.20	377
<b>Mar</b>	6.98	20	84	230	27	1.80	339
<b>Apr</b>	6.86	80	304	470	28	0.60	300
<b>May</b>	7.1	52	200	480	30	1.20	317
<b>June</b>	6.4	48	190	580	32	1.20	376
<b>July</b>	7.3	44	152	570	28	1.80	374
<b>Aug</b>	7.8	30	118	550	28	3.20	352
<b>Sep</b>	6.9	34	138	580	28	2.80	376
<b>Oct</b>	7.3	36	130	540	27	2.00	352
<b>Nov</b>	7.6	26	88	520	23	2.60	336
<b>Dec</b>	6.8	30	80	580	18	2.80	378
<b>Average</b>	<b>7.19</b>	<b>34.51</b>	<b>129.83</b>	<b>525</b>	<b>25.66</b>	<b>2.53</b>	<b>357.41</b>
<b>Min-Max</b>	(6.4-7.9)	(6-80)	(36-304)	(230-620)	(17-32)	(0.60-5.20)	(300-412)