

**WATER QUALITY CHARACTERISTICS OF DHELA RIVER U/S AT KASHIPUR  
MORADABAD ROAD BRIDGE.**

Month	pH	BOD mg/L	COD mg/L	Conductivity µmhos/cm	Temp °C	DO mg/L	TDS mg/L
<b>2023</b>							
Jan	7.50	2.8	20.0	284	13	7.6	220
Feb	7.70	3.0	24.0	367	19	7.4	244
Mar	7.90	2.8	20.0	348	23	7.5	235
Apr	7.60	2.8	24.0	262	21	7.2	180
May			River Dry				
June	7.80	2.6	20.0	596	34	7.2	388
July	7.60	2.7	20.0	334	28	7.0	217
Aug	7.80	2.9	24.0	236	27	6.6	146
Sep	7.60	3.0	20.0	254	31	6.4	158
<b>2022</b>							
Jan	7.8	3.3	16	220	8	5	220
Feb	7.50	3.0	12	330	22	5.4	220
Mar	7.70	3.5	12	370	25	5.2	246
Apr	7.70	3.6	14	368	28	5	246
May	7.80	3.0	10	395	28	5.5	264
June	River was Dry						
July	7.40	3.8	20	384	28	4.0	257
Aug	7.50	3.6	22	215	30	4.2	141
Sept	7.70	3.2	20.64	202	27	5.3	133
Oct	7.90	2.8	15	253	25	7.6	166
Nov	8.10	3.5	14	264	15	5.5	174
Dec	7.70	3.2	16.0	240	19	5.6	159
<b>2021</b>							
Jan	7.90	5.0	24	460	19	8.10	298
Feb	7.90	4.0	10	410	12	4.80	255
Mar	River Dry						
Apr	River Dry						
May	7.10	29	102	769	21	1.1	591
June	7.50	22	98	756	23	2.0	506
July	7.50	10	36	420	27	2.50	282
Aug	7.30	8.70	27.50	397	31	2.90	265
Sep	7.1	8.4	28	402		3.0	269
Oct	7.2	11	36.40	350		3.40	246
Nov	7.4	10.8	38	366		3.6	245.22
Dec	7.30	8	32	370	28	4	247.9
<b>2020</b>							
Jan	7.4	10	30	442	8.0	7.8	287
Feb	7.66	15	35	520	30	4.6	248
Mar	8.4	4	30	380	30	5.8	380
Apr	7.5	4	16			7.7	
May	8.0	4.0	24	316	30	6.1	219
June	8.0	8.0	32	240	36	3.5	171
July	7.8	5.6	36	280	28	3.4	189
Aug	7.41	5.8	22	256	30	6.8	128
Sep	7.51	5.70	20	250	30	6.9	129
Oct	7.80	5.2	26	340	27	4.0	200
Nov	7.6	5.5	25	326	18	3.9	228
Dec	7.2	5.9	29	485	12	3.9	338

<b>Average</b>	<b>7.69</b>	<b>6.56</b>	<b>27.08</b>	<b>348.64</b>	<b>25.36</b>	<b>5.37</b>	<b>228.82</b>
<b>Min-Max</b>	<b>(7.2-8.4)</b>	<b>(4-15)</b>	<b>(16-36)</b>	<b>(240-520)</b>	<b>(8-36)</b>	<b>(3.4-7.8)</b>	<b>(128-380)</b>
<b>2019</b>							
<b>Jan</b>	7.20	3.2	16	230	12	7.40	152
<b>Feb</b>	7.6	4.2	18	256	13	7.6	191
<b>Mar</b>	7.5	1.8	30	598	23	6.8	122
<b>Apr</b>	7.4	5.0	32	280	28	5.8	182
<b>May</b>	River Dry						
<b>June</b>	River Dry						
<b>July</b>	7.4	6.0	30	284	30	3.6	185
<b>Aug</b>	7.2	4.0	25	300	30	5.8	153
<b>Sep</b>	7.10	4.0	30	167	30	1.2	109
<b>Oct</b>	7.20	14.0	28	278	30	6.20	181
<b>Nov</b>	7.80	12	30	291	24	5.0	195
<b>Dec</b>	7.2	15	20	223	12	6.0	173
<b>Average</b>	<b>7.36</b>	<b>6.92</b>	<b>25.90</b>	<b>290.70</b>	<b>23.20</b>	<b>5.54</b>	<b>164.30</b>
<b>Min-Max</b>	<b>(7.1-7.8)</b>	<b>(1.8-15)</b>	<b>(16-32)</b>	<b>(167-598)</b>	<b>(12-30)</b>	<b>(1.2-7.6)</b>	<b>(109-195)</b>
<b>2018</b>							
<b>Jan</b>	7.2	12	38	270	17.2	5.2	182
<b>Feb</b>	7.4	4	18	280	23.2	6.4	177
<b>Mar</b>	7.3	8	26	280	28.2	5.4	180
<b>Apr</b>	River Dry						
<b>May</b>	River Dry						
<b>June</b>	River Dry						
<b>July</b>	River Dry						
<b>Aug</b>	7.4	8	24	290	29	6.2	192
<b>Sep</b>	7.1	7.2	20	300	28	6.2	196
<b>Oct</b>	7.2	8	30	280	26	5.6	182
<b>Nov</b>	7.3	8	18	310	23	4.6	202
<b>Dec</b>	7.4	4	10	230	16	6.4	146
<b>Average</b>	<b>7.28</b>	<b>7.4</b>	<b>23</b>	<b>280</b>	<b>23.82</b>	<b>5.75</b>	<b>182.12</b>
<b>Min-Max</b>	<b>(7.1-7.4)</b>	<b>(4-12)</b>	<b>(10-38)</b>	<b>(270-300)</b>	<b>(16-29)</b>	<b>(4.6-6.4)</b>	<b>(146-202)</b>

**WATER QUALITY CHARACTERISTICS OF DHELA RIVER D/S AT THAKURDWARA  
ALIGANJ ROAD, US NAGAR**

Month	pH	BOD mg/L	COD mg/L	Conductivity µmhos/cm	Temp °C	DO mg/L	TDS mg/L
<b>2023</b>							
Jan	7.20	24	144	565	12	2.3	435
Feb	7.30	38	240	710	19	1.5	472
Mar	7.20	36.0	192	972	23	1.6	640
Apr	7.00	32.0	196	990	21	1.4	815
May	7.10	34.0	188	856	28	1.2	562
June	7.40	30.0	176.0	1254	33	1.4	856
July	7.70	16.0	128.0	613	29	3.6	418
Aug	7.40	15.0	120.0	335	30	4.0	220
Sep	7.10	14.0	108.0	298	32	4.1	192
<b>2022</b>							
Jan	7.5	16	120	630	8	3.2	433
Feb	7.50	16	112	644	22	3.4	431.4
Mar	7.50	19.5	140	730	25	2.0	493
Apr	7.60	16.8	134.4	760	28	2.2	500
May	7.0	20	140	600	28	2.0	400
June	7.0	26	176	760	30	1.5	509
July	7.0	24	160	744	28	2.0	498
Aug	7.30	22	176	381	31	1.4	253
Sept	7.30	24	163.2	289	27	1.3	190
Oct	7.40	23	220	346	26	2.6	230
Nov	7.20	23	140	547	20	2.1	363
Dec	7.30	22.0	140.0	287	19	2.2	190
<b>2021</b>							
Jan	7.30	56	180	900	13	0.80	675
Feb	7.90	42	124	920	24	0.20	602
Mar	7.80	44	132	940	22	0.10	620
Apr	7.40	39	121	963	23	0.50	642
May	7.80	34	116	930	22	0.80	631
June	7.90	32	112	900	22	1.0	616
July	6.90	28	200	810	27	1.0	554
Aug	7.20	22.50	182	720	32	2.30	482
Sep	7.1	26.4	184	716		2.5	479
Oct	6.9	24	200	820		2.10	560
Nov	7.0	26.5	198	790		1.9	529.3
Dec	7.20	24	192	710	28	2.8	475
<b>2020</b>							
Jan	7.3	14	60	541	8.0	3.4	352
Feb	7.18	14	66	510	30	0.30	389
Mar	7.9	26	150	650	30	0.4	387
Apr	7.1	20	100			2	
May	Sample not collected due to COVID-19						
June							
July							
Aug	7.42	16	60	410	30	3.2	282
Sep	7.31	15	47	420	30	3.1	280
Oct	7.30	16	52	490	31	1.2	328
Nov	7.2	16	80	500	18	1.1	382
Dec	7.1	15	32	550	16	1.2	402

<b>Average</b>	<b>7.31</b>	<b>16.89</b>	<b>71.89</b>	<b>508.88</b>	<b>24.13</b>	<b>1.77</b>	<b>350.25</b>
<b>Min-Max</b>	<b>(7.1-7.9)</b>	<b>(14-26)</b>	<b>(32-150)</b>	<b>(410-650)</b>	<b>(8-31)</b>	<b>(0.3-3.4)</b>	<b>(280-402)</b>
<b>2019</b>							
<b>Jan</b>	7.90	12	38	720	13	2.4	474
<b>Feb</b>	7.4	10.6	34	649	14	2.2	421
<b>Mar</b>	7.9	12	49	830	24	1.8	122
<b>Apr</b>	7.5	12	42	480	28	2.6	256
<b>May</b>	River Dry						
<b>June</b>	River Dry						
<b>July</b>	7.4	12	28	389	31	1.8	407
<b>Aug</b>	7.6	12	60	270	31	0.8	142
<b>Sep</b>	6.8	60	170	176	31	0.0	115
<b>Oct</b>	7.4	26	60	387	30	0.4	252
<b>Nov</b>	7.20	18	150	704	25	0.20	472
<b>Dec</b>	7.4	16	50	223	12	3.4	150
<b>Average</b>	<b>7.45</b>	<b>19.06</b>	<b>68.10</b>	<b>482.80</b>	<b>23.90</b>	<b>1.56</b>	<b>281.10</b>
<b>Min-Max</b>	<b>(6.8-7.9)</b>	<b>(10.6-60)</b>	<b>(28-170)</b>	<b>(176-830)</b>	<b>(12-31)</b>	<b>(0-3.4)</b>	<b>(115-474)</b>
<b>2018</b>							
<b>Jan</b>	7.6	20	102	650	20	2.2	430
<b>Feb</b>	7.7	40	132	660	22.5	2.8	430
<b>Mar</b>	7.8	18	60	450	25.5	2.4	294
<b>Apr</b>	River Dry						
<b>May</b>							
<b>June</b>							
<b>July</b>							
<b>Aug</b>	7.1	20	74	140	28	3.8	268
<b>Sep</b>	6.9	18	60	430	28	2.8	282
<b>Oct</b>	7.2	16	58	380	26	2.2	246
<b>Nov</b>	7.2	20	58	440	23	2.6	286
<b>Dec</b>	6.7	22	60	600	18	2.2	377
<b>Average</b>	<b>7.23</b>	<b>21.77</b>	<b>75.11</b>	<b>457.77</b>	<b>24.33</b>	<b>2.6</b>	<b>317.55</b>
<b>Min-Max</b>	<b>(6.7-7.8)</b>	<b>(16-40)</b>	<b>(58-132)</b>	<b>(140-660)</b>	<b>(18-28)</b>	<b>(2.2-3.8)</b>	<b>(245-430)</b>