

**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 |
|-------------|------------------|-----------------|----------------|--------------------------|----------------|------------------|------------------|
| 2021 | | | | | | | |
| Jan-21 | 7.90 | 5.0 | 24 | 460 | 19 | 8.10 | 298 |
| Feb-21 | 7.90 | 4.0 | 10 | 410 | 12 | 4.80 | 255 |
| Mar-21 | River Dry | | | | | | |
| Apr-21 | | | | | | | |
| May-21 | 7.10 | 29 | 102 | 769 | 21 | 1.1 | 591 |
| 2020 | | | | | | | |
| Jan-20 | 7.4 | 10 | 30 | 442 | 8.0 | 7.8 | 287 |
| Feb-20 | 7.66 | 15 | 35 | 520 | 30 | 4.6 | 248 |
| Mar-20 | 8.4 | 4 | 30 | 380 | 30 | 5.8 | 380 |
| Apr-20 | 7.5 | 4 | 16 | | | 7.7 | |
| May-20 | 8.0 | 4.0 | 24 | 316 | 30 | 6.1 | 219 |
| June-20 | 8.0 | 8.0 | 32 | 240 | 36 | 3.5 | 171 |
| July-20 | 7.8 | 5.6 | 36 | 280 | 28 | 3.4 | 189 |
| Aug-20 | 7.41 | 5.8 | 22 | 256 | 30 | 6.8 | 128 |
| Sep-20 | 7.51 | 5.70 | 20 | 250 | 30 | 6.9 | 129 |
| Oct-20 | 7.80 | 5.2 | 26 | 340 | 27 | 4.0 | 200 |
| Nov-20 | 7.6 | 5.5 | 25 | 326 | 18 | 3.9 | 228 |
| Dec-20 | 7.2 | 5.9 | 29 | 485 | 12 | 3.9 | 338 |
| Average | 7.69 | 6.56 | 27.08 | 348.64 | 25.36 | 5.37 | 228.82 |
| Min-Max | (7.2-8.4) | (4-15) | (16-36) | (240-520) | (8-36) | (3.4-7.8) | (128-380) |
| 2019 | | | | | | | |
| Jan-19 | 7.20 | 3.2 | 16 | 230 | 12 | 7.40 | 152 |
| Feb-19 | 7.6 | 4.2 | 18 | 256 | 13 | 7.6 | 191 |
| Mar-19 | 7.5 | 1.8 | 30 | 598 | 23 | 6.8 | 122 |
| Apr-19 | 7.4 | 5.0 | 32 | 280 | 28 | 5.8 | 182 |
| May-19 | River Dry | | | | | | |
| June-19 | River Dry | | | | | | |
| July-19 | 7.4 | 6.0 | 30 | 284 | 30 | 3.6 | 185 |
| Aug-19 | 7.2 | 4.0 | 25 | 300 | 30 | 5.8 | 153 |
| Sep-19 | 7.10 | 4.0 | 30 | 167 | 30 | 1.2 | 109 |
| Oct-19 | 7.20 | 14.0 | 28 | 278 | 30 | 6.20 | 181 |
| Nov-19 | 7.80 | 12 | 30 | 291 | 24 | 5.0 | 195 |
| Dec-19 | 7.2 | 15 | 20 | 223 | 12 | 6.0 | 173 |
| Average | 7.36 | 6.92 | 25.90 | 290.70 | 23.20 | 5.54 | 164.30 |
| Min-Max | (7.1-7.8) | (1.8-15) | (16-32) | (167-598) | (12-30) | (1.2-7.6) | (109-195) |
| 2018 | | | | | | | |
| Jan-18 | 7.2 | 12 | 38 | 270 | 17.2 | 5.2 | 182 |
| Feb-18 | 7.4 | 4 | 18 | 280 | 23.2 | 6.4 | 177 |
| Mar-18 | 7.3 | 8 | 26 | 280 | 28.2 | 5.4 | 180 |
| Apr-18 | River Dry | | | | | | |
| May-18 | River Dry | | | | | | |
| Jun-18 | River Dry | | | | | | |
| Jul-18 | River Dry | | | | | | |
| Aug-18 | 7.4 | 8 | 24 | 290 | 29 | 6.2 | 192 |
| Sep-18 | 7.1 | 7.2 | 20 | 300 | 28 | 6.2 | 196 |
| Oct-18 | 7.2 | 8 | 30 | 280 | 26 | 5.6 | 182 |
| Nov-18 | 7.3 | 8 | 18 | 310 | 23 | 4.6 | 202 |
| Dec-18 | 7.4 | 4 | 10 | 230 | 16 | 6.4 | 146 |

| | | | | | | | |
|----------------|------------------|---------------|----------------|------------------|----------------|------------------|------------------|
| Average | 7.28 | 7.4 | 23 | 280 | 23.82 | 5.75 | 182.12 |
| Min-Max | (7.1-7.4) | (4-12) | (10-38) | (270-300) | (16-29) | (4.6-6.4) | (146-202) |

**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 |
|----------------|--------------------------------------|------------------|-----------------|--------------------------|----------------|------------------|------------------|
| 2021 | | | | | | | |
| Jan-21 | 7.30 | 56 | 180 | 900 | 13 | 0.80 | 675 |
| Feb-21 | 7.90 | 42 | 124 | 920 | 24 | 0.20 | 602 |
| Mar-21 | 7.80 | 44 | 132 | 940 | 22 | 0.10 | 620 |
| Apr-21 | 7.40 | 39 | 121 | 963 | 23 | 0.50 | 642 |
| May-21 | 7.80 | 34 | 116 | 930 | 22 | 0.80 | 631 |
| 2020 | | | | | | | |
| Jan-20 | 7.3 | 14 | 60 | 541 | 8.0 | 3.4 | 352 |
| Feb-20 | 7.18 | 14 | 66 | 510 | 30 | 0.30 | 389 |
| Mar-20 | 7.9 | 26 | 150 | 650 | 30 | 0.4 | 387 |
| Apr-20 | 7.1 | 20 | 100 | | | 2 | |
| May-20 | Sample not collected due to COVID-19 | | | | | | |
| June-20 | | | | | | | |
| July-20 | | | | | | | |
| Aug-20 | 7.42 | 16 | 60 | 410 | 30 | 3.2 | 282 |
| Sep-20 | 7.31 | 15 | 47 | 420 | 30 | 3.1 | 280 |
| Oct-20 | 7.30 | 16 | 52 | 490 | 31 | 1.2 | 328 |
| Nov-20 | 7.2 | 16 | 80 | 500 | 18 | 1.1 | 382 |
| Dec-20 | 7.1 | 15 | 32 | 550 | 16 | 1.2 | 402 |
| Average | 7.31 | 16.89 | 71.89 | 508.88 | 24.13 | 1.77 | 350.25 |
| Min-Max | (7.1-7.9) | (14-26) | (32-150) | (410-650) | (8-31) | (0.3-3.4) | (280-402) |
| 2019 | | | | | | | |
| Jan-19 | 7.90 | 12 | 38 | 720 | 13 | 2.4 | 474 |
| Feb-19 | 7.4 | 10.6 | 34 | 649 | 14 | 2.2 | 421 |
| Mar-19 | 7.9 | 12 | 49 | 830 | 24 | 1.8 | 122 |
| Apr-19 | 7.5 | 12 | 42 | 480 | 28 | 2.6 | 256 |
| May-19 | River Dry | | | | | | |
| June-19 | River Dry | | | | | | |
| July-19 | 7.4 | 12 | 28 | 389 | 31 | 1.8 | 407 |
| Aug-19 | 7.6 | 12 | 60 | 270 | 31 | 0.8 | 142 |
| Sep-19 | 6.8 | 60 | 170 | 176 | 31 | 0.0 | 115 |
| Oct-19 | 7.4 | 26 | 60 | 387 | 30 | 0.4 | 252 |
| Nov-19 | 7.20 | 18 | 150 | 704 | 25 | 0.20 | 472 |
| Dec-19 | 7.4 | 16 | 50 | 223 | 12 | 3.4 | 150 |
| Average | 7.45 | 19.06 | 68.10 | 482.80 | 23.90 | 1.56 | 281.10 |
| Min-Max | (6.8-7.9) | (10.6-60) | (28-170) | (176-830) | (12-31) | (0-3.4) | (115-474) |
| 2018 | | | | | | | |
| Jan-18 | 7.6 | 20 | 102 | 650 | 20 | 2.2 | 430 |
| Feb-18 | 7.7 | 40 | 132 | 660 | 22.5 | 2.8 | 430 |
| Mar-18 | 7.8 | 18 | 60 | 450 | 25.5 | 2.4 | 294 |
| Apr-18 | River Dry | | | | | | |
| May-18 | | | | | | | |
| Jun-18 | | | | | | | |
| Jul-18 | | | | | | | |
| Aug-18 | 7.1 | 20 | 74 | 140 | 28 | 3.8 | 268 |
| Sep-18 | 6.9 | 18 | 60 | 430 | 28 | 2.8 | 282 |
| Oct-18 | 7.2 | 16 | 58 | 380 | 26 | 2.2 | 246 |
| Nov-18 | 7.2 | 20 | 58 | 440 | 23 | 2.6 | 286 |
| Dec-18 | 6.7 | 22 | 60 | 600 | 18 | 2.2 | 377 |

| | | | | | | | |
|----------------|-------------|--------------|--------------|---------------|--------------|------------|---------------|
| Average | 7.23 | 21.77 | 75.11 | 457.77 | 24.33 | 2.6 | 317.55 |
| Min-Max | (6.7-7.8) | (16-40) | (58-132) | (140-660) | (18-28) | (2.2-3.8) | (245-430) |