# Water Quality of River Gomti in UP
## Year 2021

| S.No. | Month | SAMPLING POINT 1 Dadhnamau Ghat, Sitapur | | | | | 2 Manjhighat, Lucknow | | | | | 3 U/s Water Intake, Gaughat, Lucknow | | | | | 4 Kudiyaghat, Lucknow | | | | | 5 D/s Mohan Meakins, Lucknow | | | | | 6 Nishatganj Bridge, Lucknow | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | D.O. (mg/l) | B.O.D. (mg/l) | C.O.D. (mg/l) | Total Coliform (MPN/100ml) | Feacal Coliform (MPN/100ml) | D.O. (mg/l) | B.O.D. (mg/l) | C.O.D. (mg/l) | Total Coliform (MPN/100ml) | Feacal Coliform (MPN/100ml) | D.O. (mg/l) | B.O.D. (mg/l) | C.O.D. (mg/l) | Total Coliform (MPN/100ml) | Feacal Coliform (MPN/100ml) | D.O. (mg/l) | B.O.D. (mg/l) | C.O.D. (mg/l) | Total Coliform (MPN/100ml) | Feacal Coliform (MPN/100ml) | D.O. (mg/l) | B.O.D. (mg/l) | C.O.D. (mg/l) | Total Coliform (MPN/100ml) | Feacal Coliform (MPN/100ml) | D.O. (mg/l) | B.O.D. (mg/l) | C.O.D. (mg/l) | Total Coliform (MPN/100ml) | Feacal Coliform (MPN/100ml) |
| 1. | January | 11.3 | 2.0 | - | 2200 | 790 | 10.4 | 2.5 | - | 3300 | 1700 | 10.0 | 2.8 | - | 4000 | 3400 | 2.0 | 9.5 | - | 70000 | 46000 | 1.5 | 11.0 | - | 79000 | 33000 | 1.7 | 12.5 | - | 94000 | 70000 |
| 2. | February | 11.0 | 2.1 | - | 2000 | 780 | 10.3 | 2.5 | - | 3900 | 3400 | 9.8 | 3.0 | - | 6100 | 4000 | 0.6 | 11.2 | - | 110000 | 70000 | 1.0 | 12.0 | - | 130000 | 79000 | 0.9 | 13.5 | - | 170000 | 110000 |
| 3. | March | 8.7 | 2.2 | - | 2100 | 780 | 7.8 | 2.7 | - | 4000 | 3400 | 7.1 | 3.2 | - | 6800 | 4000 | 0.3 | 12.5 | - | 130000 | 79000 | 0.5 | 13.0 | - | 170000 | 110000 | 1.3 | 14.0 | - | 220000 | 110000 |
| 4. | April | 7.9 | 2.1 | - | 2400 | 1100 | 6.7 | 2.8 | - | 3900 | 3300 | 6.5 | 3.3 | - | 7900 | 4600 | 0.2 | 13.0 | - | 170000 | 110000 | 0.2 | 13.5 | - | 220000 | 110000 | 0.3 | 14.5 | - | 240000 | 130000 |
| 5. | May | 7.0 | 2.3 | - | 2100 | 780 | 5.9 | 3.0 | - | 4000 | 1300 | 4.7 | 3.6 | - | 7000 | 3900 | 1.3 | 11.4 | - | 110000 | 49000 | 1.3 | 12.2 | - | 130000 | 79000 | 1.2 | 13.4 | - | 170000 | 79000 |
| 6 | June | 6.3 | 2.5 | - | 2400 | 1100 | 6.1 | 3.1 | - | 4900 | 3300 | 5.4 | 3.7 | - | 9200 | 5400 | 2.6 | 10.0 | - | 94000 | 70000 | 2.2 | 11.2 | - | 110000 | 70000 | 1.6 | 12.5 | - | 170000 | 110000 |
| 7 | July | 5.6 | 2.7 | - | 3200 | 1300 | 6.2 | 3.0 | - | 4600 | 2100 | 5.3 | 3.8 | - | 7900 | 4900 | 3.4 | 9.0 | - | 110000 | 70000 | 2.9 | 10.0 | - | 130000 | 79000 | 2.4 | 11.5 | - | 170000 | 110000 |
| 8 | August | 6.1 | 2.6 | 9.6 | 2100 | 780 | 4.9 | 3.2 | 12.8 | 6800 | 4000 | 4.3 | 4.0 | 16.4 | 9200 | 5400 | 2.8 | 8.5 | 33.6 | 94000 | 70000 | 2.5 | 9.0 | 35.2 | 110000 | 70000 | 2.0 | 10.5 | 41.6 | 130000 | 79000 |
| 9 | September | 7.2 | 2.7 | 10.4 | 2600 | 1300 | 6.3 | 3.0 | 12.4 | 4900 | 3300 | 4.5 | 3.8 | 15.2 | 7900 | 4900 | 1.7 | 9.4 | 37.6 | 130000 | 79000 | 1.5 | 10.0 | 41.2 | 170000 | 110000 | 2.2 | 11.2 | 45.6 | 220000 | 110000 |
| 10 | October | 6.8 | 2.8 | 10.8 | 2400 | 1100 | 5.6 | 3.2 | 13.2 | 3300 | 1700 | 4.8 | 3.6 | 14.8 | 6100 | 4000 | 3.6 | 8.5 | 33.6 | 94000 | 70000 | 3.0 | 9.4 | 38.4 | 130000 | 79000 | 2.4 | 11.2 | 46.4 | 170000 | 110000 |
| 11 | November | 8.4 | 2.5 | 9.2 | 2200 | 790 | 7.8 | 2.8 | 11.2 | 3200 | 1300 | 6.7 | 3.3 | 13.2 | 4900 | 3300 | 4.8 | 7.2 | 29.6 | 68000 | 45000 | 4.4 | 8.0 | 33.2 | 79000 | 49000 | 3.8 | 9.2 | 36.4 | 110000 | 70000 |
| 12 | December | 9.8 | 2.3 | 8.8 | 2100 | 780 | 8.3 | 2.7 | 10.8 | 2800 | 1100 | 7.5 | 3.1 | 12.4 | 4700 | 2600 | 3.8 | 7.0 | 28.4 | 54000 | 35000 | 3.3 | 7.6 | 31.2 | 70000 | 49000 | 2.5 | 9.0 | 35.6 | 92000 | 54000 |
| **Average** | | **8.0** | **2.4** | **9.8** | **2317** | **948** | **7.2** | **2.9** | **12.1** | **4133** | **2492** | **6.4** | **3.4** | **14.4** | **6808** | **4200** | **2.3** | **9.8** | **32.6** | **102833** | **66083** | **2.0** | **10.6** | **35.8** | **127333** | **76417** | **1.9** | **11.9** | **41.1** | **163000** | **95167** |
| **Category** | | C | | | | | C | | | | | D | | | | | E | | | | | E | | | | | E | | | | |

* Note-Dadhnamau Ghat, Sitapur (April- Not NWMP Data)

| | Class of water | | A | B | C | D | | E | Below E |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Dissolved oxygen (mg/l), min | | 6.0 | 5.0 | 4.0 | 4.0 | | - | - |
| 2 | Biochemical oxygen demand (mg/l), max | | 2.0 | 3.0 | 3.0 | - | | - | - |
| 3 | Total Coliform (MPN/100ml), max | | 50 | 500 | 5000 | - | | - | - |

**A = Drinking water source without conventional treatment but after disinfection**

**B= Outdoor bathing (organised)**

**C = Drinking water source after conventional treatment and disinfection**

**D = Propagation of wild life and fisheries.**

**E = Irrigation, Industrial cooling, controlled waste disposal**

**Below - E = Not meeting A,B,C,D & E criteria**

Source: http://www.cpcb.nic.in/Water_Quality_Criteria.php

Vinay Dubey
(S.A.)

# Water Quality of River Gomti in UP
## Year 2021

| S.No. | Month | SAMPLING POINT | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 7 | | | | | 8 | | | | | 9 | | | | | 10 | | | | | 11 | | | | |
| | | U/s Bairaj, Lucknow | | | | | D/s Pipraghat, Lucknow | | | | | D/s After meeting of STP, Nala Bharwara, Lucknow | | | | | D/s Gomti, Jaunpur | | | | | Gomti before meeting river Ganga, Rajwari, Varanasi | | | | |
| | | D.O. (mg/l) | B.O.D. (mg/l) | C.O.D. (mg/l) | Total Coliform (MPN/100ml) | Feacal Coliform (MPN/100ml) | D.O. (mg/l) | B.O.D. (mg/l) | C.O.D. (mg/l) | Total Coliform (MPN/100ml) | Feacal Coliform (MPN/100ml) | D.O. (mg/l) | B.O.D. (mg/l) | C.O.D. (mg/l) | Total Coliform (MPN/100ml) | Feacal Coliform (MPN/100ml) | D.O. (mg/l) | B.O.D. (mg/l) | C.O.D. (mg/l) | Total Coliform (MPN/100ml) | Feacal Coliform (MPN/100ml) | D.O. (mg/l) | B.O.D. (mg/l) | C.O.D. (mg/l) | Total Coliform (MPN/100ml) | Feacal Coliform (MPN/100ml) |
| 1. | January | 2.2 | 13.0 | - | 110000 | 70000 | 1.4 | 14.0 | - | 130000 | 79000 | 0.4 | 15.5 | - | 240000 | 130000 | 8.2 | 3.7 | - | 23000 | 13000 | 8.5 | 3.5 | - | 17000 | 9000 |
| 2. | February | 0.8 | 14.4 | - | 220000 | 110000 | 0.6 | 15.2 | - | 350000 | 220000 | 0.3 | 16.5 | - | 460000 | 230000 | 8.5 | 3.8 | - | 22000 | 11000 | 8.7 | 3.6 | - | 21000 | 11000 |
| 3. | March | 1.5 | 14.6 | - | 240000 | 130000 | 0.9 | 15.0 | - | 280000 | 170000 | 0.8 | 16.4 | - | 350000 | 220000 | 7.8 | 4.1 | - | 26000 | 14000 | 8.2 | 3.7 | - | 17000 | 8000 |
| 4. | April | 0.4 | 15.0 | - | 280000 | 170000 | 0.3 | 15.8 | - | 350000 | 220000 | 0.1 | 16.6 | - | 460000 | 230000 | 7.7 | 4.2 | - | 23000 | 13000 | 8.0 | 3.8 | - | 14000 | 7000 |
| 5. | May | 1.1 | 13.8 | - | 220000 | 130000 | 0.8 | 14.4 | - | 240000 | 130000 | 0.5 | 15.8 | - | 350000 | 170000 | 7.5 | 4.3 | - | 22000 | 11000 | 7.8 | 3.9 | - | 14000 | 8000 |
| 6. | June | 1.4 | 13.5 | - | 220000 | 110000 | 0.7 | 15.0 | - | 280000 | 170000 | 0.8 | 16.2 | - | 350000 | 220000 | 7.4 | 4.2 | - | 23000 | 13000 | 7.6 | 3.8 | - | 13000 | 8000 |
| 7 | July | 2.3 | 12.0 | - | 220000 | 110000 | 2.1 | 12.5 | - | 240000 | 130000 | 1.8 | 14.0 | - | 280000 | 170000 | 7.3 | 4.4 | - | 21000 | 11000 | 7.5 | 3.7 | - | 14000 | 7000 |
| 8 | August | 1.8 | 11.5 | 44.8 | 170000 | 110000 | 1.7 | 12.0 | 46.4 | 220000 | 110000 | 1.4 | 13.0 | 51.6 | 240000 | 130000 | 6.8 | 4.1 | 13.2 | 22000 | 13000 | 7.2 | 3.8 | 12.8 | 17000 | 8000 |
| 9 | September | 2.6 | 11.8 | 47.2 | 240000 | 130000 | 2.1 | 12.4 | 49.6 | 280000 | 170000 | 1.2 | 13.6 | 54.8 | 350000 | 170000 | 6.7 | 3.6 | 12.8 | 17000 | 8000 | 6.8 | 3.4 | 11.6 | 14000 | 7000 |
| 10 | October | 2.0 | 12.0 | 49.6 | 220000 | 110000 | 1.6 | 13.2 | 54.4 | 240000 | 130000 | 0.8 | 14.8 | 59.2 | 280000 | 170000 | 6.8 | 3.7 | 13.2 | 21000 | 13000 | 7.0 | 3.3 | 11.2 | 13000 | 5000 |
| 11 | November | 3.5 | 9.8 | 39.2 | 130000 | 79000 | 3.1 | 10.2 | 41.6 | 170000 | 110000 | 1.9 | 12.5 | 51.6 | 260000 | 130000 | 7.0 | 3.5 | 12.8 | 23000 | 13000 | 7.2 | 3.2 | 10.8 | 11000 | 5000 |
| 12 | December | 2.1 | 9.5 | 38.0 | 110000 | 79000 | 1.8 | 10.5 | 43.2 | 130000 | 79000 | 1.5 | 12.4 | 50.8 | 220000 | 110000 | 7.6 | 3.6 | 13.6 | 22000 | 14000 | 7.8 | 3.3 | 11.2 | 9400 | 4900 |
| **Average** | | **1.8** | **12.6** | **43.8** | **198333** | **111500** | **1.4** | **13.4** | **47.0** | **242500** | **143167** | **1.0** | **14.8** | **53.6** | **320000** | **173333** | **7.4** | **3.9** | **13.1** | **22083** | **12250** | **7.7** | **3.6** | **11.5** | **14533** | **7325** |
| **Category** | | E | | | | | E | | | | | E | | | | | D | | | | | D | | | | |

* Note- D/s Pipraghat, Lucknow (April- Not NWMP Data)

| | Class of water | | A | B | C | D | | E | Below E |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Dissolved oxygen (mg/l), min | | 6.0 | 5.0 | 4.0 | 4.0 | | - | - |
| 2 | Biochemical oxygen demand (mg/l), max | | 2.0 | 3.0 | 3.0 | - | | - | - |
| 3 | Total Coliform (MPN/100ml), max | | 50 | 500 | 5000 | - | | - | - |

**A = Drinking water source without conventional treatment but after disinfection**

**B= Outdoor bathing (organised)**

**C = Drinking water source after conventional treatment and disinfection**

**D = Propagation of wild life and fisheries.**

**E = Irrigation, Industrial cooling, controlled waste disposal**

**Below - E = Not meeting A,B,C,D & E criteria**

**Source: http://www.cpcb.nic.in/Water_Quality_Criteria.php**

Vinay Dubey
(S.A.)