

**Water Quality of River Yamuna In UP  
Year 2023**

| S. N.    | Month     | Sampling Point           |               |                            |                            |    |           |                                     |               |                            |                            |     |           |               |               |                            |                            |     |           |                     |               |                            |                            |     |           |                           |               |                            |                            |     |           |             |               |                            |                            |     |           |                  |               |                            |                            |  |  |
|----------|-----------|--------------------------|---------------|----------------------------|----------------------------|----|-----------|-------------------------------------|---------------|----------------------------|----------------------------|-----|-----------|---------------|---------------|----------------------------|----------------------------|-----|-----------|---------------------|---------------|----------------------------|----------------------------|-----|-----------|---------------------------|---------------|----------------------------|----------------------------|-----|-----------|-------------|---------------|----------------------------|----------------------------|-----|-----------|------------------|---------------|----------------------------|----------------------------|--|--|
|          |           | 1                        |               |                            |                            |    |           | 2                                   |               |                            |                            |     |           | 3             |               |                            |                            |     |           | 4                   |               |                            |                            |     |           | 5                         |               |                            |                            |     |           | 6           |               |                            |                            |     |           | 7                |               |                            |                            |  |  |
|          |           | U/S Okhla Barrage, Noida |               |                            |                            |    |           | D/S Village Gharbara/Tilwara, Noida |               |                            |                            |     |           | U/s Vrindavan |               |                            |                            |     |           | Kesi Ghat Vrindavan |               |                            |                            |     |           | D/s Vrindavan (Kesi Ghat) |               |                            |                            |     |           | U/s Mathura |               |                            |                            |     |           | Shahpur, Mathura |               |                            |                            |  |  |
| pH       | DO (mg/l) | BOD (mg/l)               | C.O.D. (mg/l) | Total Coliform (MPN/100ml) | Fecal Coliform (MPN/100ml) | pH | DO (mg/l) | BOD (mg/l)                          | C.O.D. (mg/l) | Total Coliform (MPN/100ml) | Fecal Coliform (MPN/100ml) | pH  | DO (mg/l) | BOD (mg/l)    | C.O.D. (mg/l) | Total Coliform (MPN/100ml) | Fecal Coliform (MPN/100ml) | pH  | DO (mg/l) | BOD (mg/l)          | C.O.D. (mg/l) | Total Coliform (MPN/100ml) | Fecal Coliform (MPN/100ml) | pH  | DO (mg/l) | BOD (mg/l)                | C.O.D. (mg/l) | Total Coliform (MPN/100ml) | Fecal Coliform (MPN/100ml) | pH  | DO (mg/l) | BOD (mg/l)  | C.O.D. (mg/l) | Total Coliform (MPN/100ml) | Fecal Coliform (MPN/100ml) | pH  | DO (mg/l) | BOD (mg/l)       | C.O.D. (mg/l) | Total Coliform (MPN/100ml) | Fecal Coliform (MPN/100ml) |  |  |
| 1        | January   | 7.68                     | 4.3           | 26.0                       | 137.6                      | -  | 7.72      | 1.2                                 | 31.0          | 144.0                      | -                          | 8.2 | 4.8       | 10.0          | 40.0          | 79000                      | 27000                      | 7.9 | 4.2       | 11.2                | 48.0          | 94000                      | 31000                      | 7.9 | 4.2       | 11.2                      | 48.0          | 94000                      | 31000                      | 7.7 | 5.2       | 11.2        | 44.0          | 84000                      | 31000                      | 7.8 | 4.2       | 15.6             | 52.0          | 110000                     | 46000                      |  |  |
| 2        | February  | 7.58                     | 4.6           | 18.0                       | 112.0                      | -  | 7.86      | 1.1                                 | 24.0          | 128.0                      | -                          | 7.7 | 6.2       | 9.4           | 32.0          | 63000                      | 23000                      | 7.6 | 5.6       | 10.4                | 44.0          | 79000                      | 27000                      | 7.6 | 5.6       | 10.4                      | 44.0          | 79000                      | 27000                      | 7.9 | 5.8       | 9.8         | 36.0          | 70000                      | 26000                      | 7.6 | 5.4       | 13.6             | 48.0          | 94000                      | 43000                      |  |  |
| 3        | March     | 6.84                     | 0.0           | 46.0                       | 192.0                      | -  | 7.01      | 0.0                                 | 18.0          | 224.0                      | -                          | 8.1 | 5.4       | 10.8          | 40.0          | 70000                      | 26000                      | 7.8 | 4.8       | 11.6                | 52.0          | 84000                      | 33000                      | 7.8 | 4.8       | 11.6                      | 52.0          | 84000                      | 33000                      | 7.8 | 4.6       | 11.4        | 44.0          | 79000                      | 27000                      | 7.9 | 4.8       | 14.6             | 56.0          | 110000                     | 49000                      |  |  |
| 4        | April     | 6.87                     | 2.8           | 18.0                       | 232.0                      | -  | 6.94      | 1.2                                 | 32.0          | 256.0                      | -                          | 8.0 | 6.0       | 9.0           | 24.0          | 79000                      | 27000                      | 8.0 | 5.2       | 10.8                | 48.0          | 79000                      | 27000                      | 7.9 | 5.2       | 10.2                      | 44.0          | 63000                      | 26000                      | 7.6 | 6.0       | 10.2        | 40.0          | 70000                      | 23000                      | 7.7 | 5.0       | 13.8             | 48.0          | 94000                      | 46000                      |  |  |
| 5        | May       | 8.16                     | 4.3           | 17.0                       | 144.0                      | -  | 7.84      | 1.2                                 | 22.0          | 168.0                      | -                          | 8.2 | 5.6       | 10.2          | 32.0          | 70000                      | 23000                      | 7.7 | 4.4       | 11.6                | 52.0          | 79000                      | 27000                      | 8.1 | 5.2       | 10.6                      | 48.0          | 84000                      | 31000                      | 7.9 | 5.0       | 12.2        | 52.0          | 94000                      | 33000                      | 8.0 | 5.8       | 13.2             | 40.0          | 84000                      | 43000                      |  |  |
| 6        | June      | 6.90                     | 3.4           | 20.0                       | 152.0                      | -  | 7.21      | 1.1                                 | 16.0          | 144.0                      | -                          | *   | *         | *             | *             | *                          | *                          | 8.2 | 4.8       | 11.2                | 52.0          | 94000                      | 32000                      | *   | *         | *                         | *             | *                          | 8.2                        | 5.8 | 10.4      | 36.0        | 70000         | 23000                      | 8.1                        | 5.0 | 14.2      | 52.0             | 110000        | 49000                      |                            |  |  |
| 7        | July      | 7.55                     | 7.6           | 9.0                        | 48.0                       | -  | *         | *                                   | *             | *                          | -                          | 7.6 | 6.4       | 7.8           | 20.0          | 47000                      | 17000                      | 7.9 | 6.8       | 8.2                 | 28.0          | 49000                      | 22000                      | 7.7 | 6.2       | 8.0                       | 28.0          | 48000                      | 21000                      | 7.8 | 6.6       | 8.6         | 32.0          | 58000                      | 23000                      | 8.0 | 6.2       | 10.4             | 40.0          | 70000                      | 26000                      |  |  |
| 8        | August    | 7.34                     | 5.6           | 12.0                       | 64.0                       | -  | 7.86      | 4.8                                 | 10.0          | 48.0                       | -                          | 7.5 | 6.6       | 7.6           | 32.0          | 41000                      | 14000                      | 7.8 | 7.4       | 7.6                 | 28.0          | 49000                      | 22000                      | 7.7 | 7.9       | 8.8                       | 36.0          | 58000                      | 23000                      | 7.9 | 6.6       | 7.8         | 28.0          | 70000                      | 23000                      | 8.1 | 6.6       | 9.2              | 36.0          | 58000                      | 23000                      |  |  |
| 9        | September | 7.86                     | 3.8           | 14.0                       | 48.0                       | -  | 7.55      | 1.2                                 | 12.0          | 64.0                       | -                          | 7.9 | 7.0       | 8.4           | 40.0          | 63000                      | 23000                      | 7.8 | 6.8       | 9.0                 | 40.0          | 79000                      | 27000                      | 8.2 | 6.4       | 10.2                      | 44.0          | 84000                      | 31000                      | 7.6 | 6.2       | 9.8         | 40.0          | 58000                      | 23000                      | 7.6 | 7.2       | 9.6              | 40.0          | 63000                      | 23000                      |  |  |
| 10       | October   | 7.68                     | 4.2           | 16.0                       | 80.0                       | -  | 7.28      | 2.1                                 | 18.0          | 96.0                       | -                          | 7.7 | 7.2       | 8.0           | 32.0          | 49000                      | 22000                      | 7.9 | 6.6       | 9.4                 | 40.0          | 63000                      | 26000                      | 7.8 | 6.8       | 9.2                       | 36.0          | 58000                      | 23000                      | 8.0 | 6.0       | 10.2        | 44.0          | 41000                      | 14000                      | 7.7 | 7.2       | 9.8              | 40.0          | 79000                      | 27000                      |  |  |
| 11       | November  | 7.62                     | 3.4           | 18.0                       | 16.0                       | -  | 8.02      | 1.1                                 | 21.0          | 120.0                      | -                          | 7.6 | 7.4       | 7.8           | 24.0          | 47000                      | 17000                      | 7.7 | 7.0       | 8.2                 | 28.0          | 49000                      | 22000                      | 7.6 | 7.2       | 8.4                       | 28.0          | 48000                      | 21000                      | 8.1 | 6.6       | 8.4         | 32.0          | 39000                      | 12000                      | 7.8 | 6.8       | 10.0             | 40.0          | 79000                      | 27000                      |  |  |
| 12       | December  | 7.28                     | 4.6           | 12.0                       | 64.0                       | -  | 7.55      | 1.9                                 | 18.0          | 80.0                       | -                          | -   | -         | -             | -             | -                          | -                          | 7.9 | 4.0       | 11.6                | 32.0          | 49000                      | 22000                      | -   | -         | -                         | -             | -                          | 7.9                        | 6.0 | 9.6       | 28.0        | 47000         | 20000                      | 7.6                        | 4.2 | 9.2       | 20.0             | 70000         | 26000                      |                            |  |  |
| Average  |           | 7.45                     | 4.1           | 18.8                       | 107.5                      | -  | 7.53      | 1.5                                 | 20.2          | 133.8                      | -                          | 7.9 | 6.3       | 8.9           | 31.6          | 60800                      | 21900                      | 7.9 | 5.6       | 10.1                | 41.0          | 70583                      | 26500                      | 7.8 | 6.0       | 9.9                       | 40.8          | 70000                      | 26700                      | 7.9 | 5.9       | 10.0        | 38.0          | 65000                      | 23167                      | 7.8 | 5.7       | 11.9             | 42.7          | 85083                      | 35667                      |  |  |
| Category |           | D                        |               |                            |                            |    |           | E                                   |               |                            |                            |     |           | D             |               |                            |                            |     |           | D                   |               |                            |                            |     |           | D                         |               |                            |                            |     |           | D           |               |                            |                            |     |           |                  |               |                            |                            |  |  |

Note- \* Sampling not done.

| 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](http://www.cpcb.nic.in/Water_Quality_Criteria.php)

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Year 2023**

| S.N.     | Month     | Sampling Point        |               |                            |                            |        |           |             |               |                            |                            |        |           |                       |               |                            |                            |       |           |                      |               |                            |                            |       |           |                    |               |                            |                            |       |           |               |               |                            |                            |       |           |               |               |                            |                            |        |       |
|----------|-----------|-----------------------|---------------|----------------------------|----------------------------|--------|-----------|-------------|---------------|----------------------------|----------------------------|--------|-----------|-----------------------|---------------|----------------------------|----------------------------|-------|-----------|----------------------|---------------|----------------------------|----------------------------|-------|-----------|--------------------|---------------|----------------------------|----------------------------|-------|-----------|---------------|---------------|----------------------------|----------------------------|-------|-----------|---------------|---------------|----------------------------|----------------------------|--------|-------|
|          |           | 8                     |               |                            |                            |        |           | 9           |               |                            |                            |        |           | 10                    |               |                            |                            |       |           | 11                   |               |                            |                            |       |           | 12                 |               |                            |                            |       |           | 13            |               |                            |                            |       |           | 14            |               |                            |                            |        |       |
|          |           | Vishram Ghat, Mathura |               |                            |                            |        |           | D/s Mathura |               |                            |                            |        |           | U/s Kailashghat, Agra |               |                            |                            |       |           | U/s Waterworks, Agra |               |                            |                            |       |           | D/s Tajmahal, Agra |               |                            |                            |       |           | U/s Firozabad |               |                            |                            |       |           | D/s Firozabad |               |                            |                            |        |       |
| pH       | DO (mg/l) | BOD(mg/l)             | C.O.D. (mg/l) | Total Coliform (MPN/100ml) | Fecal Coliform (MPN/100ml) | pH     | DO (mg/l) | BOD(mg/l)   | C.O.D. (mg/l) | Total Coliform (MPN/100ml) | Fecal Coliform (MPN/100ml) | pH     | DO (mg/l) | BOD(mg/l)             | C.O.D. (mg/l) | Total Coliform (MPN/100ml) | Fecal Coliform (MPN/100ml) | pH    | DO (mg/l) | BOD(mg/l)            | C.O.D. (mg/l) | Total Coliform (MPN/100ml) | Fecal Coliform (MPN/100ml) | pH    | DO (mg/l) | BOD(mg/l)          | C.O.D. (mg/l) | Total Coliform (MPN/100ml) | Fecal Coliform (MPN/100ml) | pH    | DO (mg/l) | BOD(mg/l)     | C.O.D. (mg/l) | Total Coliform (MPN/100ml) | Fecal Coliform (MPN/100ml) | pH    | DO (mg/l) | BOD(mg/l)     | C.O.D. (mg/l) | Total Coliform (MPN/100ml) | Fecal Coliform (MPN/100ml) |        |       |
| 1        | January   | 8.2                   | 4.8           | 13.2                       | 52.0                       | 110000 | 33000     | 7.8         | 4.4           | 14.0                       | 56.0                       | 120000 | 38000     | 7.8                   | 7.4           | 8.4                        | 16.0                       | 9300  | 6800      | 7.6                  | 7.2           | 8.6                        | 20.0                       | 15000 | 9300      | 6.7                | 6.9           | 9.0                        | 24.0                       | 32000 | 14000     | 7.7           | 5.3           | 12.0                       | 40.0                       | 54000 | 17000     | 7.8           | 5.2           | 14.0                       | 48.0                       | 92000  | 28000 |
| 2        | February  | 7.8                   | 5.6           | 10.8                       | 40.0                       | 94000  | 31000     | 8.0         | 5.2           | 11.6                       | 48.0                       | 110000 | 33000     | 7.6                   | 7.2           | 8.4                        | 16.0                       | 9300  | 6800      | 7.5                  | 6.8           | 8.8                        | 20.0                       | 11000 | 7000      | 7.3                | 6.7           | 9.2                        | 24.0                       | 25000 | 13000     | 7.6           | 5.6           | 15.2                       | 44.0                       | 54000 | 21000     | 7.7           | 5.4           | 16.8                       | 48.0                       | 92000  | 35000 |
| 3        | March     | 8.1                   | 4.2           | 12.6                       | 48.0                       | 110000 | 22000     | 8.2         | 4.0           | 13.8                       | 52.0                       | 130000 | 34000     | 7.6                   | 7.4           | 9.2                        | 16.0                       | 9300  | 6800      | 7.5                  | 7.2           | 9.6                        | 16.0                       | 11000 | 7000      | 7.2                | 6.8           | 10.4                       | 20.0                       | 32000 | 14000     | 7.7           | 5.9           | 18.8                       | 48.0                       | 58000 | 24000     | 7.8           | 5.7           | 20.4                       | 56.0                       | 94000  | 39000 |
| 4        | April     | 7.9                   | 5.8           | 11.4                       | 44.0                       | 94000  | 21000     | 7.9         | 5.6           | 12.4                       | 48.0                       | 120000 | 32000     | 7.7                   | 7.5           | 9.6                        | 16.0                       | 11000 | 7000      | 7.5                  | 7.3           | 10.0                       | 20.0                       | 15000 | 9300      | 7.1                | 6.9           | 10.4                       | 24.0                       | 25000 | 17000     | 7.7           | 5.6           | 19.2                       | 48.0                       | 63000 | 26000     | 7.8           | 5.5           | 22.4                       | 52.0                       | 110000 | 43000 |
| 5        | May       | 7.8                   | 4.8           | 12.8                       | 56.0                       | 120000 | 26000     | 8.0         | 4.6           | 13.4                       | 60.0                       | 150000 | 38000     | 7.7                   | 8.0           | 14.4                       | 20.0                       | 9300  | 6800      | 7.6                  | 7.7           | 15.2                       | 24.0                       | 11000 | 7000      | 7.5                | 6.8           | 15.6                       | 28.0                       | 15000 | 9300      | 7.7           | 5.5           | 18.4                       | 48.0                       | 58000 | 21000     | 7.8           | 5.3           | 21.2                       | 56.0                       | 94000  | 39000 |
| 6        | June      | 8.1                   | 5.4           | 11.6                       | 40.0                       | 64000  | 26000     | 8.1         | 4.6           | 13.2                       | 56.0                       | 130000 | 34000     | 7.80                  | 7.9           | 14.4                       | 20.0                       | 11000 | 7000      | 7.50                 | 7.7           | 15.2                       | 24.0                       | 25000 | 17000     | 7.40               | 6.9           | 15.6                       | 28.0                       | 33000 | 17000     | 7.7           | 5.4           | 17.2                       | 44.0                       | 54000 | 21000     | 7.8           | 5.2           | 18.8                       | 52.0                       | 92000  | 35000 |
| 7        | July      | 7.9                   | 6.4           | 9.2                        | 36.0                       | 70000  | 21000     | 8.0         | 6.2           | 9.6                        | 36.0                       | 63000  | 26000     | 7.60                  | 7.8           | 6.8                        | 12.0                       | 10000 | 6100      | 7.50                 | 7.7           | 7.2                        | 16.0                       | 11000 | 7000      | 7.3                | 6.9           | 7.6                        | 16.0                       | 15000 | 9300      | 7.6           | 5.0           | 9.6                        | 28.0                       | 43000 | 13000     | 7.7           | 5.2           | 11.2                       | 36.0                       | 54000  | 21000 |
| 8        | August    | 7.7                   | 6.4           | 8.0                        | 32.0                       | 63000  | 23000     | 8.0         | 6.2           | 8.8                        | 40.0                       | 79000  | 27000     | 7.50                  | 7.7           | 6.4                        | 12.0                       | 9300  | 6800      | 7.40                 | 7.6           | 6.8                        | 12.0                       | 11000 | 7000      | 7.2                | 6.8           | 7.2                        | 16.0                       | 14000 | 7800      | 7.7           | 5.3           | 10.4                       | 28.0                       | 28000 | 8400      | 7.8           | 5.5           | 11.6                       | 32.0                       | 35000  | 9400  |
| 9        | September | 7.9                   | 6.6           | 10.4                       | 44.0                       | 47000  | 20000     | 7.8         | 5.8           | 10.6                       | 52.0                       | 63000  | 26000     | 7.60                  | 7.6           | 6.8                        | 12.0                       | 7800  | 4500      | 7.50                 | 7.5           | 6.8                        | 16.0                       | 9300  | 6800      | 7.4                | 7.0           | 8.8                        | 20.0                       | 11000 | 6800      | 7.6           | 4.9           | 10.8                       | 28.0                       | 28000 | 8400      | 7.7           | 5.1           | 12.4                       | 36.0                       | 35000  | 11000 |
| 10       | October   | 7.8                   | 6.2           | 10.4                       | 48.0                       | 47000  | 20000     | 8.1         | 5.8           | 10.8                       | 52.0                       | 70000  | 26000     | 7.70                  | 7.5           | 7.2                        | 12.0                       | 11000 | 4000      | 7.50                 | 7.4           | 7.6                        | 14.0                       | 13000 | 6000      | 7.4                | 6.9           | 8.4                        | 16.0                       | 14000 | 6800      | 7.5           | 5.9           | 14.0                       | 44.0                       | 35000 | 9400      | 7.6           | 5.7           | 16.4                       | 52.0                       | 43000  | 13000 |
| 11       | November  | 7.6                   | 6.8           | 9.8                        | 14.0                       | 41000  | 14000     | 7.9         | 6.4           | 10.0                       | 44.0                       | 58000  | 21000     | 7.80                  | 7.2           | 7.6                        | 13.0                       | 7800  | 4500      | 7.5                  | 7.0           | 8.0                        | 14.0                       | 9300  | 6800      | 7.4                | 6.6           | 8.4                        | 16.0                       | 11000 | 6800      | 7.6           | 6.2           | 14.8                       | 40.0                       | 35000 | 9400      | 7.7           | 5.9           | 16.8                       | 46.0                       | 54000  | 14000 |
| 12       | December  | 7.7                   | 5.6           | 10.6                       | 32.0                       | 49000  | 22000     | 8.0         | 5.2           | 10.4                       | 32.0                       | 58000  | 23000     | 7.6                   | 7.2           | 7.6                        | 12.0                       | 7800  | 4500      | 7.4                  | 7.0           | 8.0                        | 14.0                       | 9300  | 6800      | 7.2                | 6.6           | 8.4                        | 16.0                       | 14000 | 7000      | 7.7           | 6.4           | 14.4                       | 42.0                       | 48000 | 13000     | 7.8           | 6.2           | 17.6                       | 52.0                       | 63000  | 24000 |
| Average  |           | 7.9                   | 5.7           | 10.9                       | 40.5                       | 75750  | 23250     | 8.0         | 5.3           | 11.6                       | 48.0                       | 95917  | 29833     | 7.67                  | 7.5           | 8.9                        | 14.8                       | 9408  | 5967      | 7.50                 | 7.3           | 9.3                        | 17.5                       | 12575 | 8083      | 7.26               | 6.8           | 9.9                        | 20.7                       | 20083 | 10733     | 7.7           | 5.6           | 14.6                       | 40.2                       | 46500 | 15967     | 7.8           | 5.5           | 16.6                       | 47.2                       | 71500  | 25950 |
| Category |           | D                     |               |                            |                            |        |           | D           |               |                            |                            |        |           | D                     |               |                            |                            |       |           | D                    |               |                            |                            |       |           | D                  |               |                            |                            |       |           | D             |               |                            |                            |       |           |               |               |                            |                            |        |       |

| 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](http://www.cpcb.nic.in/Water_Quality_Criteria.php)

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Year 2023**

| S.N.           | Month                                 | Sampling Point |           |           |               |                            |                            |            |           |           |               |                            |                            |                             |           |           |               |                            |                            |                          |           |           |               |                            |                            |                               |           |           |               |                            |                            |                                  |           |           |               |                            |                            |         |  |  |  |  |  |
|----------------|---------------------------------------|----------------|-----------|-----------|---------------|----------------------------|----------------------------|------------|-----------|-----------|---------------|----------------------------|----------------------------|-----------------------------|-----------|-----------|---------------|----------------------------|----------------------------|--------------------------|-----------|-----------|---------------|----------------------------|----------------------------|-------------------------------|-----------|-----------|---------------|----------------------------|----------------------------|----------------------------------|-----------|-----------|---------------|----------------------------|----------------------------|---------|--|--|--|--|--|
|                |                                       | 15             |           |           |               |                            |                            | 16         |           |           |               |                            |                            | 17                          |           |           |               |                            |                            | 18                       |           |           |               |                            |                            | 19                            |           |           |               |                            |                            | 20                               |           |           |               |                            |                            |         |  |  |  |  |  |
|                |                                       | U/s Etawah     |           |           |               |                            |                            | D/s Etawah |           |           |               |                            |                            | U/s Water Intake, Allahabad |           |           |               |                            |                            | D/s Balua Ghat Prayagraj |           |           |               |                            |                            | D/s Chhachhar nala, Prayagraj |           |           |               |                            |                            | D/s Emergency Outfall, Prayagraj |           |           |               |                            |                            |         |  |  |  |  |  |
|                |                                       | pH             | DO (mg/l) | BOD(mg/l) | C.O.D. (mg/l) | Total Coliform (MPN/100ml) | Fecal Coliform (MPN/100ml) | pH         | DO (mg/l) | BOD(mg/l) | C.O.D. (mg/l) | Total Coliform (MPN/100ml) | Fecal Coliform (MPN/100ml) | pH                          | DO (mg/l) | BOD(mg/l) | C.O.D. (mg/l) | Total Coliform (MPN/100ml) | Fecal Coliform (MPN/100ml) | pH                       | DO (mg/l) | BOD(mg/l) | C.O.D. (mg/l) | Total Coliform (MPN/100ml) | Fecal Coliform (MPN/100ml) | pH                            | DO (mg/l) | BOD(mg/l) | C.O.D. (mg/l) | Total Coliform (MPN/100ml) | Fecal Coliform (MPN/100ml) | pH                               | DO (mg/l) | BOD(mg/l) | C.O.D. (mg/l) | Total Coliform (MPN/100ml) | Fecal Coliform (MPN/100ml) |         |  |  |  |  |  |
| 1              | January                               | 7.6            | 6.1       | 14.4      | 44.0          | 54000                      | 21000                      | 7.5        | 5.7       | 16.8      | 56.0          | 160000                     | 35000                      | 7.85                        | 8.9       | 2.4       | 8.0           | 1300                       | 450                        | 8.19                     | 8.4       | 2.6       | 8.0           | 1500                       | 610                        | 8.24                          | 8.6       | 2.7       | 12.0          | 1700                       | 680                        | 8.16                             | 8.7       | 2.7       | 10.0          | 1400                       | 450                        |         |  |  |  |  |  |
| 2              | February                              | 7.6            | 4.9       | 13.6      | 40.0          | 92000                      | 24000                      | 7.7        | 5.1       | 16.4      | 52.0          | 160000                     | 35000                      | 8.11                        | 8.5       | 2.5       | 8.0           | 1200                       | 400                        | 8.28                     | 8.3       | 2.5       | 10.0          | 1400                       | 400                        | 8.25                          | 8.2       | 2.6       | 10.0          | 1500                       | 610                        | 8.23                             | 8.1       | 2.6       | 10.0          | 1400                       | 610                        |         |  |  |  |  |  |
| 3              | March                                 | 7.5            | 6.1       | 18.4      | 48.0          | 94000                      | 33000                      | 7.6        | 5.8       | 21.2      | 60.0          | 140000                     | 40000                      | 8.18                        | 8.4       | 2.4       | 6.0           | 1300                       | 450                        | 8.33                     | 8.1       | 2.6       | 8.0           | 1500                       | 610                        | 8.29                          | 8.0       | 2.6       | 10.0          | 1700                       | 680                        | 8.26                             | 8.0       | 2.5       | 10.0          | 1400                       | 450                        |         |  |  |  |  |  |
| 4              | April                                 | 7.6            | 5.9       | 18.8      | 48.0          | 94000                      | 40000                      | 7.7        | 5.7       | 22.0      | 56.0          | 120000                     | 46000                      | 7.86                        | 8.2       | 2.3       | 8.0           | 1400                       | 400                        | 8.16                     | 8.0       | 2.6       | 10.0          | 1700                       | 680                        | 8.21                          | 7.9       | 2.7       | 8.0           | 1700                       | 610                        | 8.17                             | 8.1       | 2.6       | 8.0           | 1500                       | 560                        |         |  |  |  |  |  |
| 5              | May                                   | 7.7            | 5.8       | 16.0      | 44.0          | 70000                      | 34000                      | 7.9        | 5.5       | 18.4      | 56.0          | 110000                     | 41000                      | 7.91                        | 8.0       | 2.4       | 6.0           | 1200                       | 400                        | 8.12                     | 7.8       | 2.7       | 8.0           | 1500                       | 610                        | 8.25                          | 7.7       | 2.6       | 8.0           | 1700                       | 680                        | 8.20                             | 7.8       | 2.5       | 8.0           | 1400                       | 450                        |         |  |  |  |  |  |
| 6              | June                                  | 7.8            | 6.0       | 17.6      | 44.0          | 84000                      | 34000                      | 7.7        | 5.7       | 21.6      | 56.0          | 110000                     | 43000                      | 8.06                        | 8.1       | 2.3       | 8.0           | 1300                       | 450                        | 8.30                     | 7.6       | 2.6       | 10.0          | 1700                       | 680                        | 8.26                          | 7.6       | 2.7       | 10.0          | 1700                       | 610                        | 8.21                             | 7.5       | 2.6       | 10.0          | 1500                       | 610                        |         |  |  |  |  |  |
| 7              | July                                  | 7.6            | 5.6       | 7.2       | 20.0          | 14000                      | 4900                       | 7.7        | 5.8       | 8.4       | 28.0          | 21000                      | 7000                       | 8.13                        | 7.8       | 2.2       | 8.0           | 1200                       | 400                        | 8.33                     | 7.4       | 2.6       | 8.0           | 1500                       | 610                        | 8.29                          | 7.5       | 2.5       | 10.0          | 1500                       | 610                        | 8.35                             | 7.4       | 2.5       | 8.0           | 1400                       | 450                        |         |  |  |  |  |  |
| 8              | August                                | 7.6            | 5.3       | 8.4       | 24.0          | 17000                      | 5800                       | 7.8        | 5.5       | 10.4      | 36.0          | 28000                      | 9400                       | 7.85                        | 8.0       | 2.4       | 8.0           | 1400                       | 450                        | 7.71                     | 7.5       | 2.6       | 10.0          | 1700                       | 680                        | 7.62                          | 7.6       | 2.6       | 10.0          | 1700                       | 680                        | 7.66                             | 7.7       | 2.6       | 8.0           | 1500                       | 610                        |         |  |  |  |  |  |
| 9              | September                             | 7.5            | 5.7       | 12.8      | 36.0          | 35000                      | 11000                      | 7.6        | 5.5       | 16.8      | 48.0          | 54000                      | 17000                      | 7.79                        | 7.5       | 2.5       | 6.0           | 1300                       | 400                        | 7.83                     | 6.8       | 2.6       | 8.0           | 1700                       | 600                        | 7.85                          | 7.0       | 2.7       | 8.0           | 1700                       | 610                        | 7.80                             | 7.2       | 2.6       | 8.0           | 1700                       | 680                        |         |  |  |  |  |  |
| 10             | October                               | 7.4            | 5.8       | 14.4      | 40.0          | *                          | *                          | 7.5        | 5.6       | 17.6      | 52.0          | *                          | *                          | 7.85                        | 8.0       | 2.3       | 6.0           | 1300                       | 450                        | 7.91                     | 7.9       | 2.6       | 10.0          | 1700                       | 610                        | 7.93                          | 7.8       | 2.5       | 8.0           | 1700                       | 680                        | 7.88                             | 7.8       | 2.4       | 6.0           | 1500                       | 610                        |         |  |  |  |  |  |
| 11             | November                              | 7.7            | 6.2       | 15.2      | 42.0          | 43000                      | 14000                      | 7.6        | 5.9       | 18.4      | 56.0          | 92000                      | 22000                      | 8.01                        | 8.2       | 2.3       | 6.0           | 1100                       | 400                        | 8.19                     | 7.8       | 2.5       | 8.0           | 1400                       | 450                        | 8.17                          | 7.7       | 2.6       | 8.0           | 1300                       | 450                        | 8.13                             | 8.0       | 2.6       | 8.0           | 1200                       | 400                        |         |  |  |  |  |  |
| 12             | December                              | 7.6            | 6.5       | 15.6      | 44.0          | 54000                      | 22000                      | 7.5        | 6.2       | 19.2      | 59.0          | 160000                     | 28000                      | 8.22                        | 8.0       | 2.2       | 6.0           | 1200                       | 400                        | 8.28                     | 7.6       | 2.6       | 10.0          | 1500                       | 610                        | 8.31                          | 7.7       | 2.5       | 10.0          | 1400                       | 450                        | 8.25                             | 7.8       | 2.6       | 8.0           | 1300                       | 450                        |         |  |  |  |  |  |
| Average        |                                       | 7.6            | 5.8       | 14.4      | 39.5          | 59182                      | 22155                      | 7.7        | 5.7       | 17.3      | 51.3          | 105000                     | 29400                      | 7.99                        | 8.1       | 2.4       | 7.0           | 1267                       | 421                        | 8.14                     | 7.8       | 2.6       | 9.0           | 1567                       | 596                        | 8.14                          | 7.8       | 2.6       | 9.3           | 1608                       | 613                        | 8.11                             | 7.8       | 2.6       | 8.5           | 1433                       | 528                        |         |  |  |  |  |  |
| Category       |                                       | D              |           |           |               |                            |                            | D          |           |           |               |                            |                            | C                           |           |           |               |                            |                            | C                        |           |           |               |                            |                            | C                             |           |           |               |                            |                            | C                                |           |           |               |                            |                            |         |  |  |  |  |  |
| 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](http://www.cpcb.nic.in/Water_Quality_Criteria.php)

*Pray*  
*(S.A)*

*RA*  
*(S.A)*

*Q*  
*CSU*