

Water Quality Characteristic of River  
Alakananda, Bhagirathi, Ganga and Yamuna  
Uttarakhand 2020-2021

# **WATER QUALITY BULLETIN UTTARAKHAND**



UTTARAKHAND  
POLLUTION  
CONTROL  
BOARD





WATER QUALITY BULLETIN  
UTTARAKHAND 2020-2021

# Table of Contents

|    |                                      |    |                                   |
|----|--------------------------------------|----|-----------------------------------|
| 01 | Introduction                         | 02 | Vishnuprayag,<br>District Chamoli |
| 03 | Nandaprayag,<br>District Chamoli     | 04 | Karanaprayag<br>District Chamoli  |
| 05 | Rudraprayag,<br>District Rudraprayag | 06 | Uttarkashi                        |
| 07 | Devprayag,<br>District Tehri Garhwal | 08 | Rishikesh,<br>District Dehradun   |
| 09 | Haridwar,<br>District Haridwar       | 10 | River Yamuna                      |

# WATER QUALITY BULLETIN

## UTTARAKHAND 2020-2021

### 1. Introduction

Uttarakhand Pollution Control Board (UKPCB) is Monitoring the water quality of River Alaknanda, River Bhagirathi, Ganga and Yamuna on monthly basis in 12 monitoring location with 37 sampling points. The monitoring of water quality of River Alaknanda, Bhagirathi, Ganga and Yamuna and characterization of water quality is carried out under project "Strengthening of Laboratories" funded by National Mission for clean Ganga (NMCG). The Location wise sampling point are as follows:

| S.N. | Monitoring Locations | District    | Sampling Points   |
|------|----------------------|-------------|---|
| 1    | Vishnuprayag         | Chamoli     | 1. River Alaknanda before joining River Dhauliganga<br>2. River Dhauliganga before joining to Alaknanda<br>3. River Alaknanda after confluence to Dhauliganga   |
| 2    | Nandprayag           | Chamoli     | 1. River Alaknanda before joining River Nandakani<br>2. River Nandakani before joining to Alaknanda<br>3. River Alaknanda after confluence to Nandakani   |
| 3    | Karanprayag          | Chamoli     | 1. River Alaknanda before joining to River Pindar<br>2. River Pindar before joining to Alaknanda<br>3. River Alaknanda after confluence to Pindar   |
| 4    | Rudarprayag          | Rudarprayag | 1. River Alaknanda before joining River Mandakani<br>2. River Mandakani before joining to Alaknanda<br>3. River Alaknanda after confluence to Mandakani<br>4. River Mandakani D/s Augustmuni  |
| 5    | Uttarkashi           | Uttarkashi  | 1. River Bhagirathi D/s Uttarkashi town<br>2. River Bhagirathi U/s Gangotri   |
| 6    | Devprayag            | Tehri       | 1. River Alaknanda before joining River Bhagirathi<br>2. River Bhagirathi before joining to Alaknanda<br>3. River Ganga at Devprayag  |
| 7    | Rishikesh            | Dehradun    | 1. River Ganga U/s of Laxmunjula<br>2. River Ganga D/s Swargasharam<br>3. River Ganga D/s at Baraj<br>4. River Ganga D/s Lakarghat<br>5. River Ganga D/s at Raiwala<br>6. River Ganga D/s near Birla Guest house  |
| 8    | Haridwar             | Haridwar    | 1. River Ganga U/s at Bindughat Dudhiyavan<br>2. River Ganga at Harikipadi<br>3. River Ganga D/s Balakumari Mandir<br>4. River Ganga D/s Bishanpur Kundi<br>5. River Ganga D/s at Sultanpur<br>6. River Ganga canal at Lalita raw bridge<br>7. River Ganga canal at Damkothi<br>8. River Ganga canal D/s at Harikipadi Rishikul Bridge<br>9. Upper Ganga Canal D/s at Roorkee |
| 9.   | Yamunotri            | Uttarkashi  | 1. River Yamuna U/s at Yamunotri  |
| 10.  | Sayanchatti          | Uttarkashi  | 2. River Yamuna U/s at Sayanchatti  |
| 11.  | Lakhwar Dam          | Dehradun    | 3. River Yamuna U/s at Lakhwar Dam  |
| 12.  | Dakpathar            | Dehradun    | 4. River Yamuna U/s at Dakpathar  |

This bulletin is basically prepared for assessment of water quality at different location in reference to the used based classification of surface water. The location and sampling point wise analysis data of water quality is as follows.

# WATER QUALITY BULLETIN

## UTTARAKHAND 2020-2021

### 2. Vishnuprayag District Chamoli

The Alaknanda River, which originates from Satopanth glacier is joined by the Dhauliganga River near Joshimath, after merger Dhauliganga identity is lost and both rivers flow together by the name 'Alaknanda'.



**View of River Alaknanda and Dhauliganga Confluence**

| SN. | Location   | Parameters               | Min Value | Max Value | S.D  | Mean Value |
|-----|--|--------------------------|-----------|-----------|------|------------|
| 1   | River Alaknanda before confluence to River Dhauliganga | pH                       | 7.23      | 8.0       | 0.28 | 7.67       |
|     |  | Dissolved Oxygen         | 9.0       | 11        | 0.75 | 10.3       |
|     |  | Biological Oxygen demand | 1.0       | 1.0       | 0    | 1.0        |
|     |  | Total Coliform           | 2.0       | 2.0       | 0    | 2.0        |
|     |  | Fecal Coliform           | 2.0       | 2.0       | 0    | 2.0        |
| 2   | River Dhauliganga before confluence to Alaknanda       | pH                       | 7.62      | 8.08      | 0.31 | 7.62       |
|     |  | Dissolved Oxygen         | 2.0       | 10.4      | 4.16 | 5.31       |
|     |  | Biological Oxygen demand | 1.0       | 1.0       | 0    | 1.0        |
|     |  | Total Coliform           | 2.0       | 2.0       | 0    | 2.0        |
|     |  | Fecal Coliform           | 2.0       | 2.0       | 0    | 2.0        |
| 3   | River Alaknanda after confluence to River Dhauliganga  | pH                       | 7.11      | 8.19      | 0.38 | 7.69       |
|     |  | Dissolved Oxygen         | 8.2       | 10.8      | 0.90 | 10.02      |
|     |  | Biological Oxygen demand | 1.0       | 1.0       | 0    | 1.0        |
|     |  | Total Coliform           | 2.0       | 2.0       | 0    | 2.0        |
|     |  | Fecal Coliform           | 2.0       | 2.0       | 0    | 2.0        |

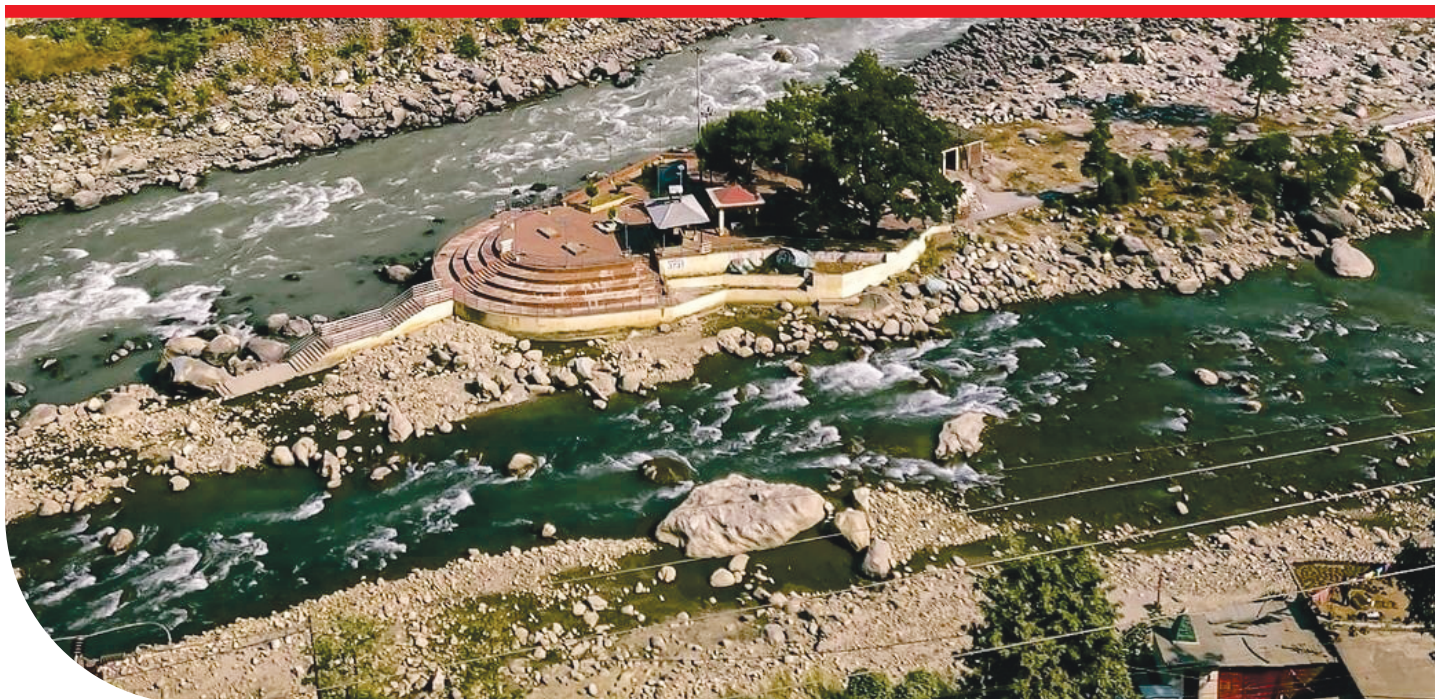


# WATER QUALITY BULLETIN

## UTTARAKHAND 2020-2021

### 3. Nandaprayag District Chamoli

In the descending sequence of the confluences, Nandakini River originated from Nandaghuti joins the main Alaknanda River at Nandprayag, after which Nandakini loses its identity and becomes part of river Alaknanda.



**View of River Alaknanda and Nandakini Confluence**

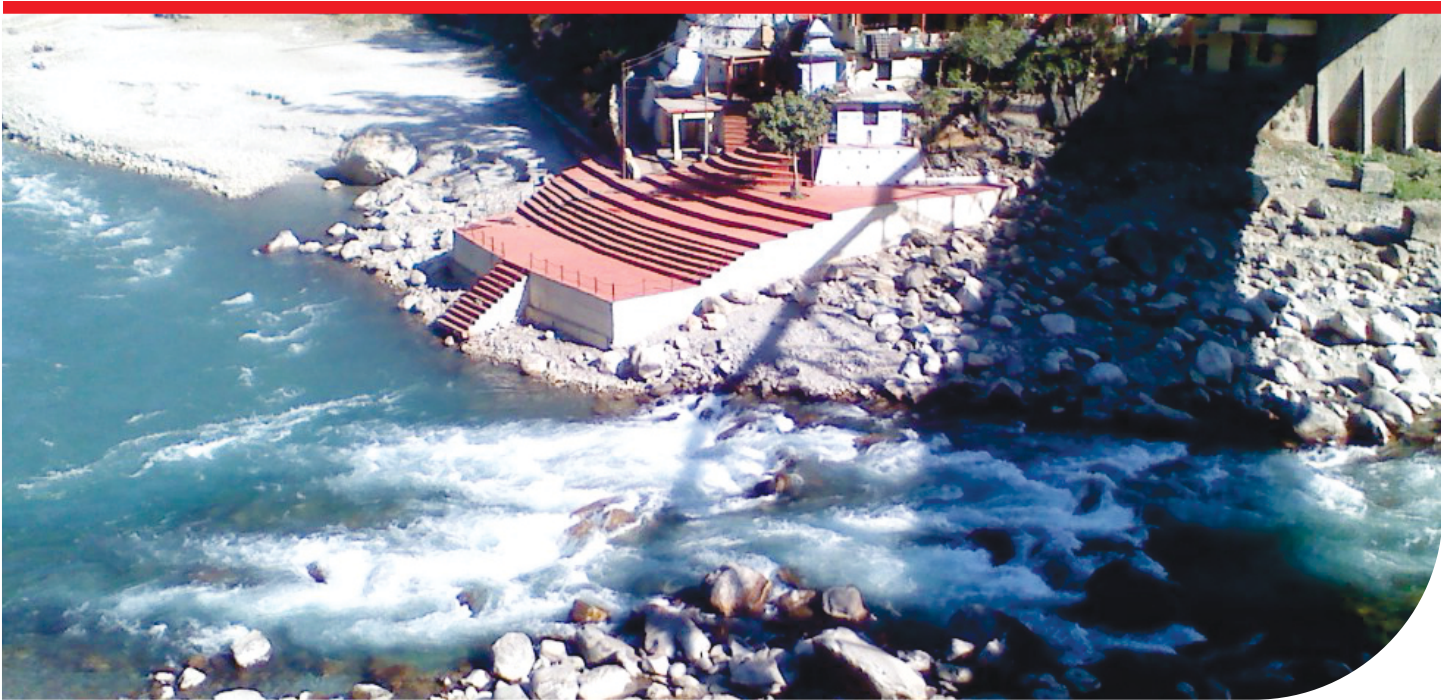
| S.N. | Location   | Parameters               | Min Value | Max Value | S.D   | Mean Value |
|------|--|--------------------------|-----------|-----------|-------|------------|
| 1    | River Alaknanda before confluence to River Nandakini | pH                       | 7.72      | 8.29      | 0.19  | 7.93       |
|      |  | Dissolved Oxygen         | 8.8       | 10        | 0.40  | 9.51       |
|      |  | Biological Oxygen demand | 1.0       | 1.0       | 0     | 1.0        |
|      |  | Total Coliform           | 2.0       | 2.0       | 0     | 2.0        |
|      |  | Fecal Coliform           | 2.0       | 2.0       | 0     | 2.0        |
| 2    | River Nandakini before confluence to River Alaknanda | pH                       | 7.58      | 8.13      | 0.22  | 7.84       |
|      |  | Dissolved Oxygen         | 8.8       | 10.2      | 0.53  | 9.6        |
|      |  | Biological Oxygen demand | 1.0       | 1.0       | 0     | 1.0        |
|      |  | Total Coliform           | 32        | 80        | 16.39 | 46.89      |
|      |  | Fecal Coliform           | 13        | 50        | 13.53 | 26         |
| 3    | River Alaknanda after confluence to River Nandakini  | pH                       | 7.66      | 8.0       | 0.13  | 7.85       |
|      |  | Dissolved Oxygen         | 9.6       | 10.8      | 0.43  | 10.13      |
|      |  | Biological Oxygen demand | 1.0       | 1.0       | 0     | 1.0        |
|      |  | Total Coliform           | 2.0       | 2.0       | 0     | 2.0        |
|      |  | Fecal Coliform           | 2.0       | 2.0       | 0     | 2.0        |

# WATER QUALITY BULLETIN

## UTTARAKHAND 2020-2021

### 4. Karanaprayag, District Chamoli

Alaknanda River confluence with Pindar River which originates from the Pindar glacier and further loses its name and becomes part of Alaknanda.



**View of River Alaknanda and Pindar Confluence**

| S.N. | Location  | Parameters               | Min Value | Max Value | S.D   | Mean Value |
|------|---|--------------------------|-----------|-----------|-------|------------|
| 1    | River Alaknanda before confluence to River Pindar | pH                       | 7.19      | 8.24      | 0.41  | 7.75       |
|      |   | Dissolved Oxygen         | 9.4       | 10        | 0.25  | 9.71       |
|      |   | Biological Oxygen demand | 1.0       | 1.0       | 0     | 1.0        |
|      |   | Total Coliform           | 2.0       | 2.0       | 0     | 2.0        |
|      |   | Fecal Coliform           | 2.0       | 2.0       | 0     | 2.0        |
| 2    | River Pindar before confluence to River Alaknanda | pH                       | 7.65      | 8.26      | 0.20  | 7.97       |
|      |   | Dissolved Oxygen         | 8.6       | 9.8       | 0.50  | 9.37       |
|      |   | Biological Oxygen demand | 1.0       | 1.0       | 0     | 1.0        |
|      |   | Total Coliform           | 28        | 70        | 13.20 | 44.2       |
|      |   | Fecal Coliform           | 11        | 15.2      | 11.36 | 46.7       |
| 3    | River Alaknanda after confluence to River Pindar  | pH                       | 7.45      | 8.2       | 0.30  | 7.82       |
|      |   | Dissolved Oxygen         | 9.2       | 10.4      | 0.35  | 9.82       |
|      |   | Biological Oxygen demand | 1.0       | 1.0       | 0     | 1.0        |
|      |   | Total Coliform           | 21        | 40        | 7.02  | 30.56      |
|      |   | Fecal Coliform           | 10        | 26        | 5.71  | 14.44      |

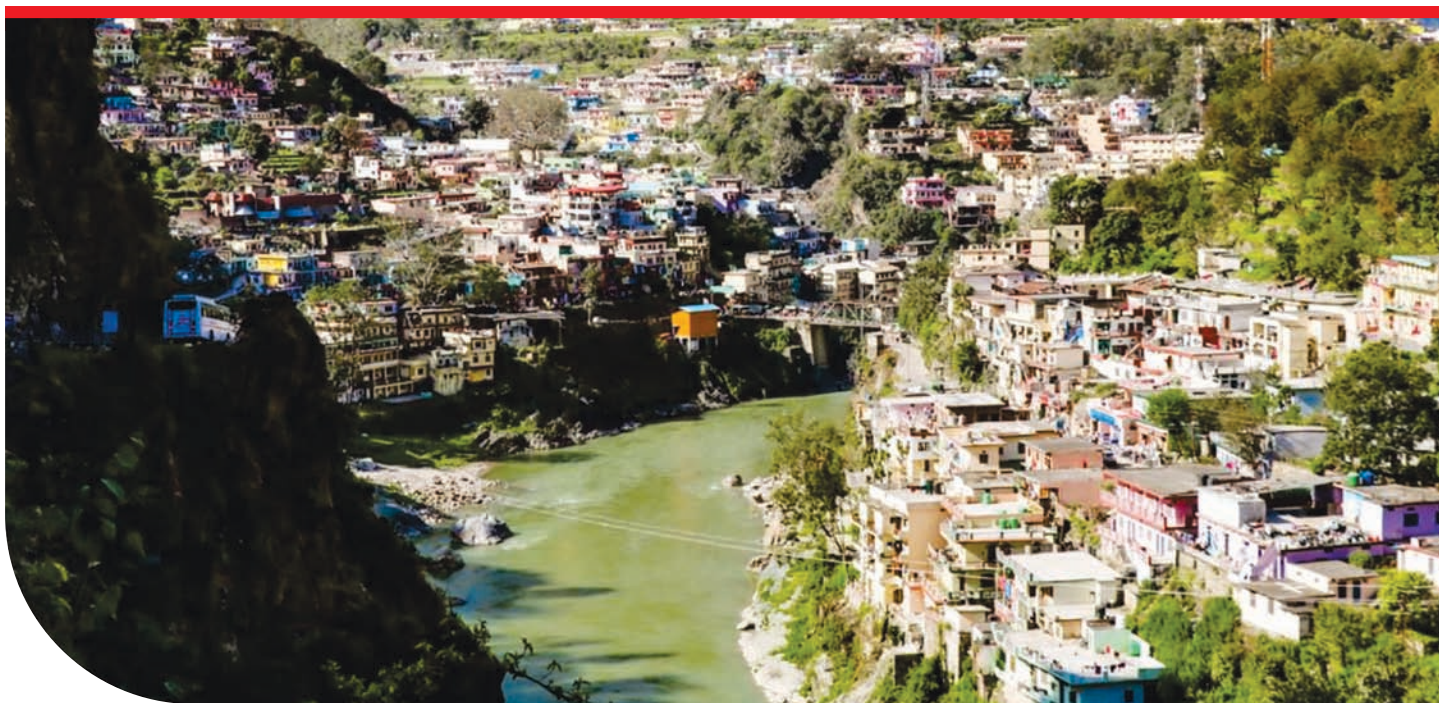


# WATER QUALITY BULLETIN

## UTTARAKHAND 2020-2021

### 5. Rudraprayag, District Rudraprayag

Mandakini River originate from chorabari glacier and confluence with River Alaknanda and become part of River Alaknanda.



**View of River Alaknanda and Mandakini Confluence**

| S.N. | Location   | Parameters               | Min Value | Max Value | S.D  | Mean Value |
|------|--|--------------------------|-----------|-----------|------|------------|
| 1    | River Manakini before confluence to River Alaknanda  | pH                       | 7.45      | 8.15      | 0.25 | 7.72       |
|      |  | Dissolved Oxygen         | 9.8       | 11.2      | 0.45 | 10.57      |
|      |  | Biological Oxygen demand | 1.0       | 1.0       | 0    | 1.0        |
|      |  | Total Coliform           | 2.0       | 2.0       | 0    | 2.0        |
|      |  | Fecal Coliform           | 2.0       | 2.0       | 0    | 2.0        |
| 2    | River Alaknanda before confluence to River Mandakini | pH                       | 7.02      | 8.16      | 0.40 | 7.58       |
|      |  | Dissolved Oxygen         | 9.2       | 10.8      | 0.60 | 9.93       |
|      |  | Biological Oxygen demand | 1.0       | 1.0       | 0    | 1.0        |
|      |  | Total Coliform           | 2.0       | 2.0       | 0    | 2.0        |
|      |  | Fecal Coliform           | 2.0       | 2.0       | 0    | 2.0        |
| 3    | River Alaknanda after confluence to River Mandakini  | pH                       | 7.49      | 8.18      | 0.26 | 7.74       |
|      |  | Dissolved Oxygen         | 10        | 10.8      | 0.27 | 10.31      |
|      |  | Biological Oxygen demand | 1.0       | 1.0       | 0    | 1.0        |
|      |  | Total Coliform           | 2.0       | 2.0       | 0    | 2.0        |
|      |  | Fecal Coliform           | 2.0       | 2.0       | 0    | 2.0        |

# WATER QUALITY BULLETIN

## UTTARAKHAND 2020-2021

### 6. Uttarakashi

River Bhagirathi originates from Gaumukh glacier and finds its path from district Uttarakashi, Tehari and finally merged with river Alaknanda at Devprayag.



View of River Bhagirathi at Uttarkashi

| S.N. | Location                           | Parameters               | Min Value | Max Value | S.D  | Mean Value |
|------|------------------------------------|--------------------------|-----------|-----------|------|------------|
| 1.   | River Bhagirathi<br>D/s Uttarkashi | pH                       | 7.0       | 7.81      | 0.28 | 7.44       |
|      |                                    | Dissolved Oxygen         | 7.8       | 10.6      | 0.89 | 9.32       |
|      |                                    | Biological Oxygen demand | 1.0       | 1.0       | 0    | 1.0        |
|      |                                    | Total Coliform           | 2.0       | 2.0       | 0    | 2.0        |
|      |                                    | Fecal Coliform           | 2.0       | 2.0       | 0    | 2.0        |



View of water Reservoir, Tehari Dam

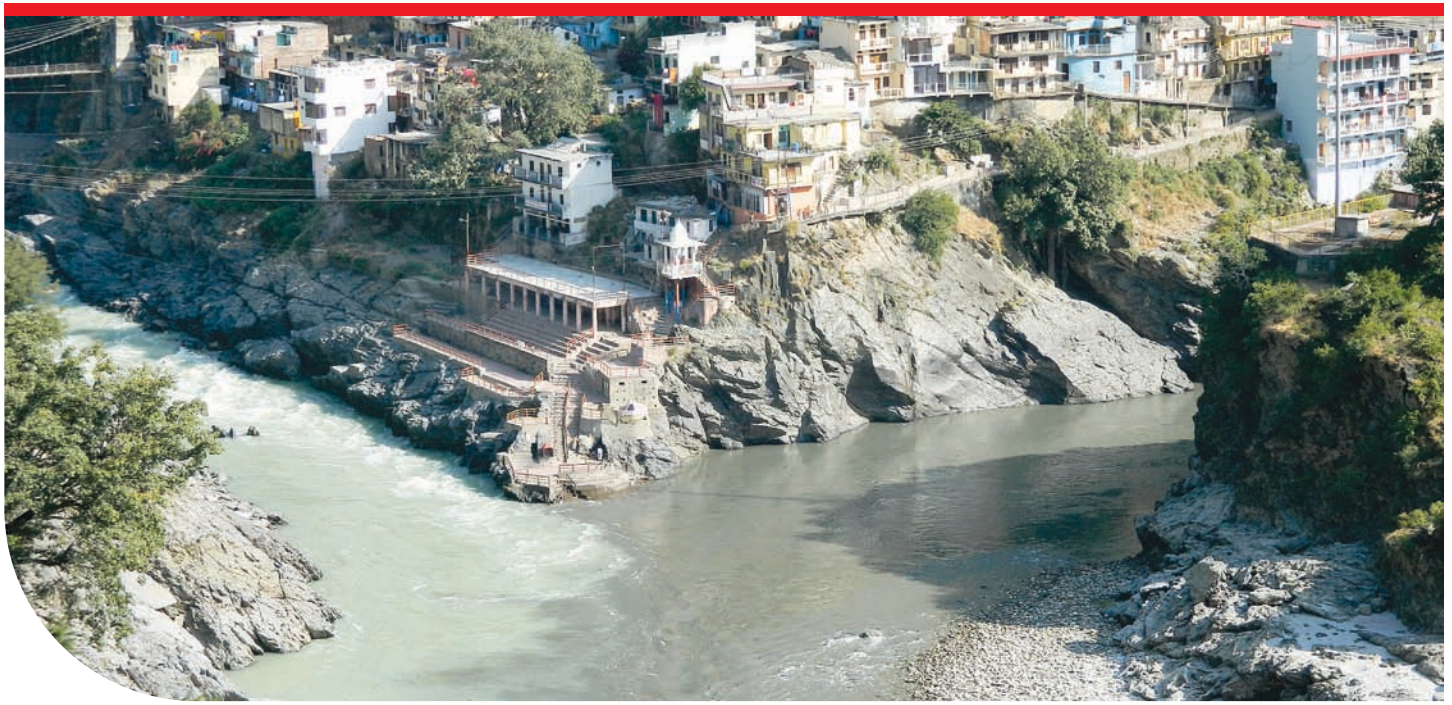


# WATER QUALITY BULLETIN

## UTTARAKHAND 2020-2021

### 7. Devprayag, District Tehri Garhwal

DevPrayag is the confluence of the two holy rivers, the Bhagirathi originate from Gomukh and River Alaknanda. After confluence both the rivers lost their name and become named as Ganga.



**View of River Alaknanda and Bhagirathi Confluence**

| S.N. | Location   | Parameters               | Min Value | Max Value | S.D  | Mean Value |
|------|--|--------------------------|-----------|-----------|------|------------|
| 1    | River Bhagirathi before confluence to River Alaknanda                | pH                       | 7.23      | 8.1       | 0.30 | 7.58       |
|      |  | Dissolved Oxygen         | 8.8       | 12        | 0.88 | 14         |
|      |  | Biological Oxygen demand | 0.4       | 1.0       | 0.17 | 0.91       |
|      |  | Total Coliform           | 2.0       | 2.0       | 0    | 2.0        |
|      |  | Fecal Coliform           | 2.0       | 2.0       | 0    | 2.0        |
| 2    | River Alaknanda before confluence to River Bhagirathi                | pH                       | 7.0       | 8.14      | 0.37 | 7.63       |
|      |  | Dissolved Oxygen         | 9.0       | 11.4      | 0.82 | 10.17      |
|      |  | Biological Oxygen demand | 0.6       | 1.0       | 0.11 | 0.94       |
|      |  | Total Coliform           | 2.0       | 2.0       | 0    | 2.0        |
|      |  | Fecal Coliform           | 2.0       | 2.0       | 0    | 2.0        |
| 3    | River Ganga after confluence to River Bhagirathi and River Alaknanda | pH                       | 7.3       | 8.28      | 0.26 | 7.71       |
|      |  | Dissolved Oxygen         | 9.0       | 11.8      | 0.65 | 10.30      |
|      |  | Biological Oxygen demand | 0.8       | 1.0       | 0.5  | 0.97       |
|      |  | Total Coliform           | 2.0       | 2.0       | 0    | 2.0        |
|      |  | Fecal Coliform           | 2.0       | 2.0       | 0    | 2.0        |

# WATER QUALITY BULLETIN

## UTTARAKHAND 2020-2021

### 8. Rishikesh, District Dehradun

Rishikesh is known as the “Gateway to the Garhwal Himalayas” and “Yoga Capital of the World”.



View of River Ganga at Rishikesh

| S.N | Location                                  | Parameters               | Min Value | Max Value | S.D  | Mean Value |
|-----|---|--------------------------|-----------|-----------|------|------------|
| 1   | River Ganga up stream<br>at Lakshmanjhula | pH                       | 7.1       | 8.0       | 0.28 | 7.58       |
|     |   | Dissolved Oxygen         | 9.8       | 11.6      | 0.54 | 10.57      |
|     |   | Biological Oxygen demand | 0.4       | 1.0       | 0.21 | 0.88       |
|     |   | Total Coliform           | 22        | 40        | 6.23 | 38.78      |
|     |   | Fecal Coliform           | 10        | 26        | 4.30 | 15.21      |
| 2   | River Ganga D/S<br>Rishikesh              | pH                       | 7.1       | 8.06      | 0.26 | 7.64       |
|     |   | Dissolved Oxygen         | 8.4       | 10        | 0.58 | 9.35       |
|     |   | Biological Oxygen demand | 0.8       | 1.2       | 0.14 | 1.02       |
|     |   | Total Coliform           | 30        | 50        | 6.09 | 41.28      |
|     |   | Fecal Coliform           | 14        | 34        | 6.26 | 24         |



View of River Ganga at Rishikesh



# WATER QUALITY BULLETIN

## UTTARAKHAND 2020-2021

### 9. Haridwar District Haridwar

The city is situated on the right bank of the Ganga river, at the foothills of the Shivalik ranges.



View of River Ganga at Haridwar

| S.N. | Location  | Parameters               | Min Value | Max Value | S.D   | Mean Value |
|------|---|--------------------------|-----------|-----------|-------|------------|
| 1    | River Ganga at Dudhiaban                                  | pH                       | 7.47      | 8.3       | 0.24  | 7.85       |
|      |   | Dissolved Oxygen         | 8.2       | 10.8      | 0.84  | 9.44       |
|      |   | Biological Oxygen demand | 1.0       | 1.2       | 0     | 1.06       |
|      |   | Total Coliform           | 60        | 120       | 18.81 | 89.07      |
|      |   | Fecal Coliform           | 30        | 70        | 14.44 | 50.38      |
| 2    | Upper Ganga Canal<br>down stream<br>Har Ki Pauri          | pH                       | 7.3       | 8.33      | 0.30  | 7.8        |
|      |   | Dissolved Oxygen         | 8.0       | 10.8      | 0.79  | 9.54       |
|      |   | Biological Oxygen demand | 0.6       | 1.2       | 0.21  | 0.97       |
|      |   | Total Coliform           | 40        | 90        | 16.36 | 69.07      |
|      |   | Fecal Coliform           | 26        | 60        | 10.49 | 40.14      |
| 3    | River Ganga<br>downstream<br>Bishanpur Kundi,<br>Haridwar | pH                       | 7.18      | 8.42      | 0.34  | 7.82       |
|      |   | Dissolved Oxygen         | 8.6       | 11.6      | 0.82  | 9.64       |
|      |   | Biological Oxygen demand | 1.0       | 1.6       | 0.19  | 1.21       |
|      |   | Total Coliform           | 70        | 130       | 20.95 | 97.43      |
|      |   | Fecal Coliform           | 30        | 84        | 15.20 | 55.57      |

# WATER QUALITY BULLETIN

## UTTARAKHAND 2020-2021

### 10. River Yamuna

The Yamuna River is largest tributaries of River Ganga and originated from Yamunotri Glacier near banderpooch peaks in Uttarkashi district. The combined stream Yamuna flows through shivalik range of hills of hills of Uttarakhand and enters plain of Dakpathar



**View of River Yamuna**

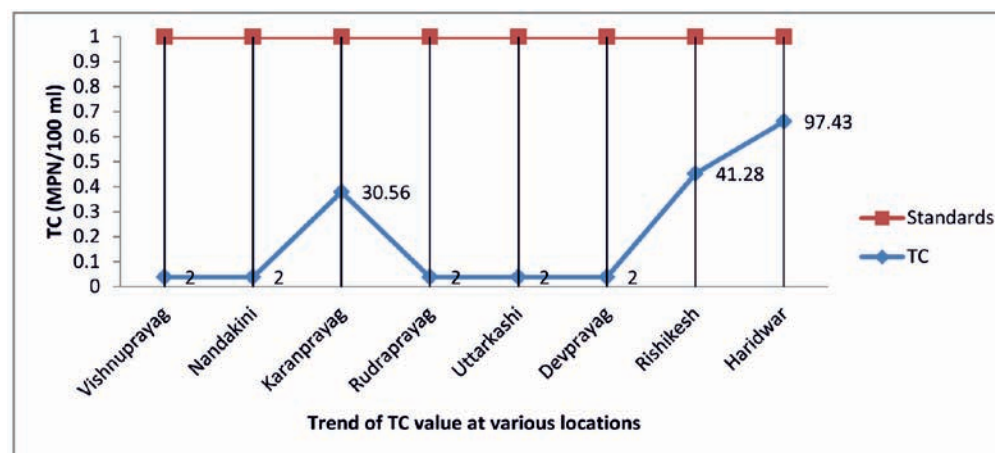
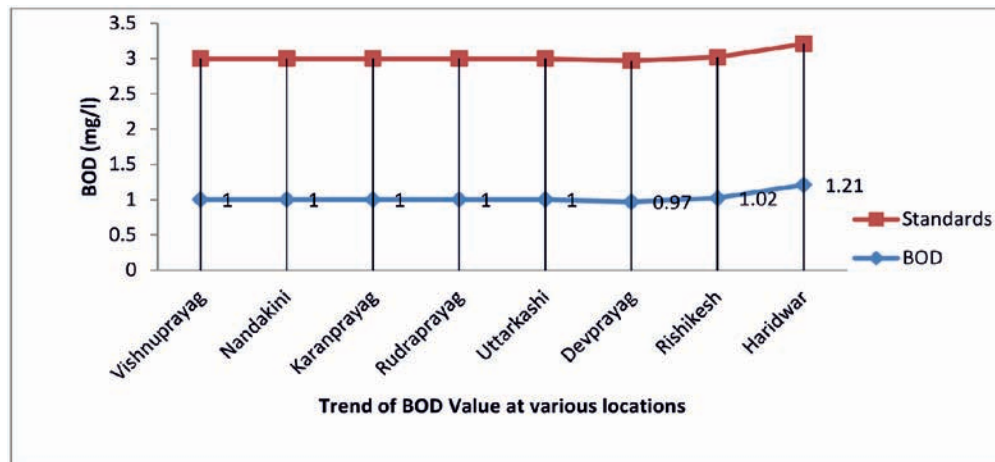
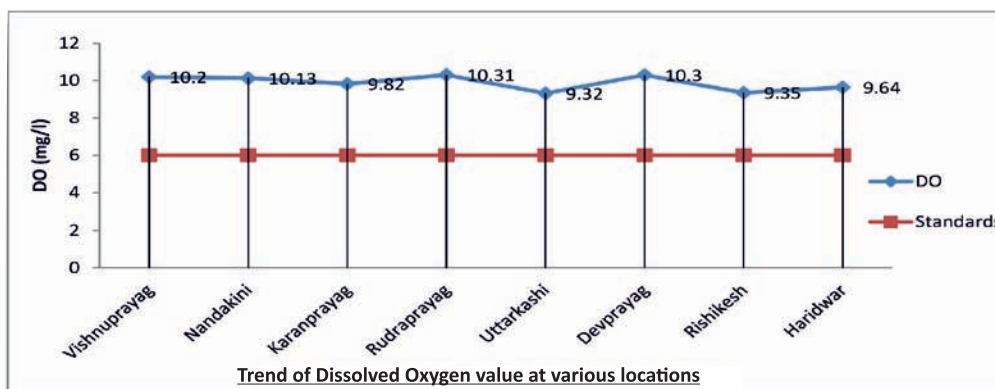
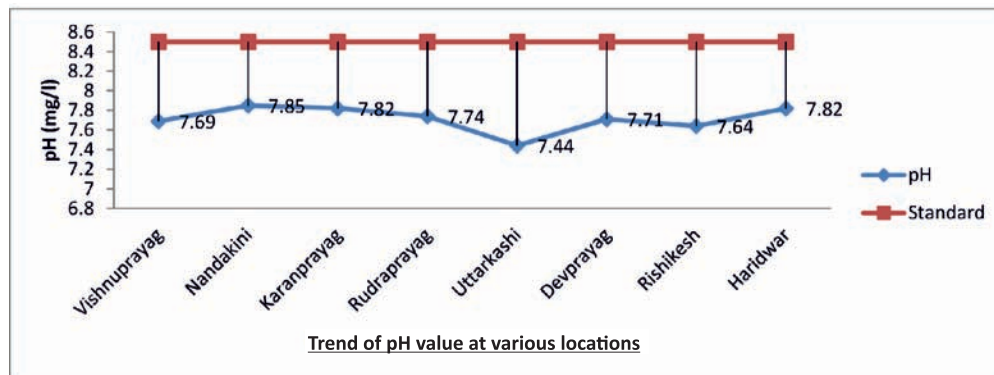
| S.N. | Location   | Parameters               | Min Value | Max Value | S.D   | Mean Value |
|------|--|--------------------------|-----------|-----------|-------|------------|
| 1    | River Yamuna U/s at Yamunotri, District Uttarkashi   | pH                       | 7.44      | 7.44      | 7.44  | 7.44       |
|      |  | Dissolved Oxygen         | 10.8      | 10.8      | 10.8  | 10.8       |
|      |  | Biological Oxygen Demand | 1.0       | 1.0       | 1.0   | 1.0        |
|      |  | Total Coliform           | 2.0       | 2.0       | 2.0   | 2.0        |
|      |  | Fecal Coliform           | 2.0       | 2.0       | 2.0   | 2.0        |
| 2    | River Yamuna D/s at Sayanchatti, District Uttarkashi | pH                       | 7.88      | 7.88      | 7.88  | 7.88       |
|      |  | Dissolved Oxygen         | 10.6      | 10.6      | 10.6  | 10.6       |
|      |  | Biological Oxygen Demand | 1.0       | 1.0       | 1.0   | 1.0        |
|      |  | Total Coliform           | 2.0       | 2.0       | 2.0   | 2.0        |
|      |  | Fecal Coliform           | 2.0       | 2.0       | 2.0   | 2.0        |
| 3    | River Yamuna U/s at Lakhwar Dam, District Dehradun   | pH                       | 7.57      | 7.46      | 0.44  | 8.01       |
|      |  | Dissolved Oxygen         | 8.6       | 10        | 0.61  | 9.15       |
|      |  | Biological Oxygen Demand | 0.8       | 1.0       | 0.1   | 0.95       |
|      |  | Total Coliform           | 2.0       | 2.0       | 14    | 9.0        |
|      |  | Fecal Coliform           | 2.0       | 2.0       | 3.5   | 3.75       |
| 4    | River Yamuna U/s at Dakpathar Dam, District Dehradun | pH                       | 7.74      | 8.25      | 0.22  | 8.04       |
|      |  | Dissolved Oxygen         | 8.2       | 9.0       | 0.34  | 8.55       |
|      |  | Biological Oxygen Demand | 1.0       | 1.2       | 0.1   | 1.15       |
|      |  | Total Coliform           | 2.0       | 2.0       | 14.70 | 59.15      |
|      |  | Fecal Coliform           | 2.0       | 2.0       | 6.55  | 31.75      |



# WATER QUALITY BULLETIN

## UTTARAKHAND 2020-2021

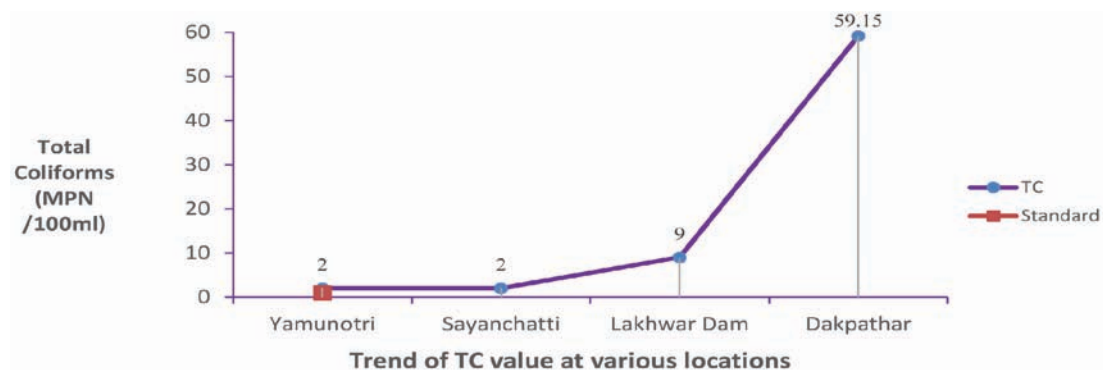
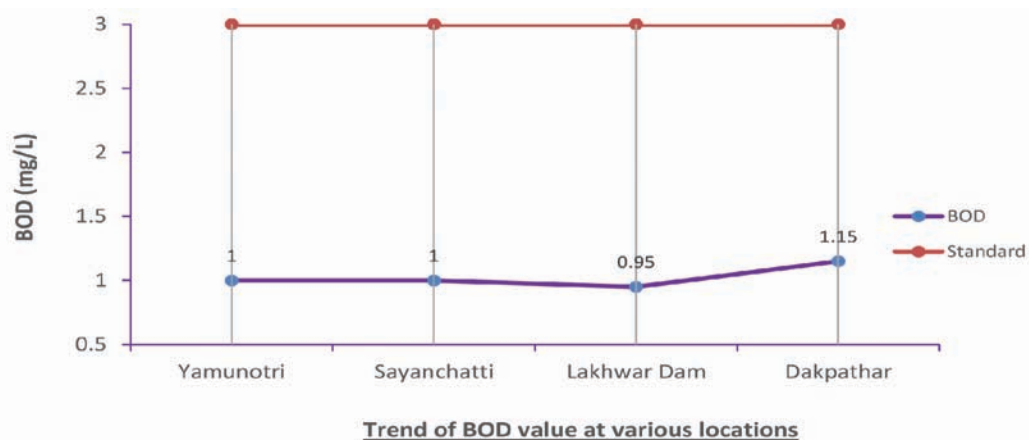
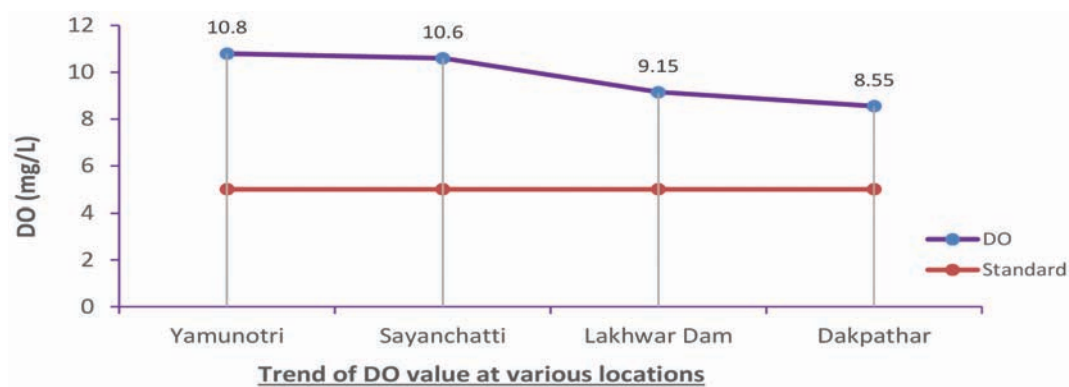
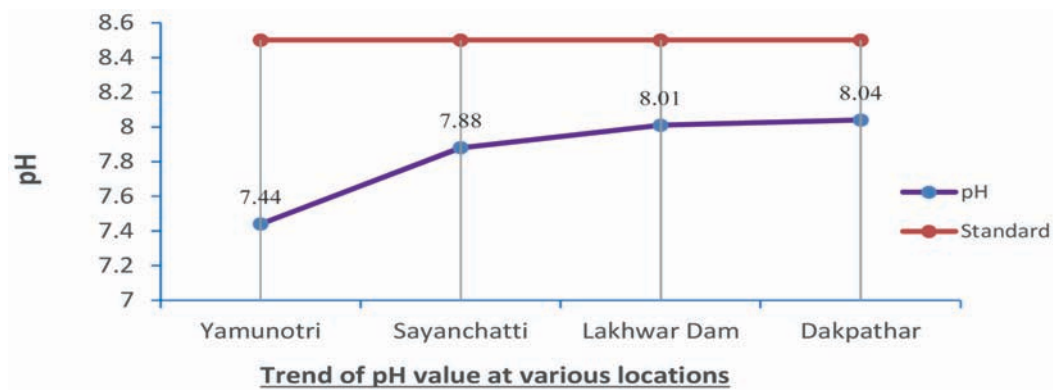
The graphical representation of trends of various parameters is shown as follows :-



# WATER QUALITY BULLETIN

## UTTARAKHAND 2020-2021

The graphical representation of trends of various parameters is shown as follows :-





# WATER QUALITY BULLETIN

## UTTARAKHAND 2020-2021

The water quality of the river Alaknanda, Bhagirathi, Ganga and Yamuna at various monitoring locations is compared with the designated best use criteria. The designated best use quality/class of the water is as follows:-

| S.N. | Monitoring Locations  | Primary quality criteria |              |              |            | Quality/<br>Class | Designated best use  |
|------|---|--------------------------|--------------|--------------|------------|-------------------|--|
|      |   | pH                       | DO           | BOD          | TC         |                   |  |
| 1    | River Alaknanda after confluence to River Dhauli Ganga at Vishnuprayag            | 7.11                     | 8.2          | 1.0          | 2.0        | A                 | Drinking water source without conventional treatment, but with chlorination. |
| 2    | River Alaknanda after confluence to River Nandakini at Nandaprayag                | 7.11                     | 8.2          | 1.0          | 2.0        | A                 | Drinking water source without conventional treatment, but with chlorination. |
| 3    | River Alaknanda after confluence to River Pindar at Karanaprayag                  | 7.45                     | 9.2          | 1.0          | 21         | A                 | Drinking water source without conventional treatment, but with chlorination. |
| 4    | River Alaknanda after confluence to River Mandakini at Rudraprayag                | 7.49                     | 10           | 1.0          | 2.0        | A                 | Drinking water source without conventional treatment, but with chlorination. |
| 5    | Bhagirathi D/s Uttarkashi   | 7.0                      | 7.8          | 1.0          | 2.0        | A                 | Drinking water source but with chlorination. without conventional treatment, |
| 6    | River Ganga after confluence to River Bhagirathi and River Alaknanda at Devprayag | 7.3                      | 9.0          | 0.8          | 2.0        | A                 | Drinking water source without conventional treatment, but with chlorination. |
| 7    | River Ganga D/S Rishikesh   | 7.1                      | 8.4          | 0.8          | 30         | A                 | Drinking water source without conventional treatment, but with chlorination. |
| 8    | River Ganga D/s Bisharpur Kundi at Haridwar                                       | 7.18                     | 8.6          | 1.0          | 70         | B                 | Outdoor bathing (organized).   |
| 9    | River Yamuna U/s at Yamunotri, District Uttarkashi                                | 7.44                     | 10.8         | 1.0          | 2.0        | A                 | Drinking water source without conventional treatment, but with Chlorination. |
| 10.  | River Yamuna D/s at Sayanchatti District Uttarkashi                               | 7.88                     | 10.6         | 1.0          | 2.0        | A                 | Drinking water source without conventional treatment, but with chlorination  |
| 11.  | River Yamuna U/s at Lakhwar Dam District Dehradun                                 | 8.01                     | 9.15         | 0.95         | 9.0        | A                 | Drinking water source without conventional treatment but with chlorination   |
| 12.  | River Yamuna U/s at Dakpathar, District Dehradun                                  | 8.04                     | 8.55         | 1.15         | 59.15      | B                 | Outdoor bathing (organized)  |
|      | <b>DBU criteria values :- "A"</b>   | <b>6.5-8.5</b>           | <b>&gt;6</b> | <b>&lt;2</b> | <b>50</b>  |                   |  |
|      | <b>DBU criteria values :- "B"</b>   | <b>6.5-8.5</b>           | <b>&gt;5</b> | <b>&lt;3</b> | <b>500</b> |                   |  |



**Uttarakhand Pollution Control Board**

Gaura Devi Bhawan,  
46 B IT Park Sahasthradhar,  
Dehradun, Uttarakhand

[msukpcb@yahoo.com](mailto:msukpcb@yahoo.com)

Web: [www.ueppcb.uk.gov.in](http://www.ueppcb.uk.gov.in)