

IN THE NATIONAL GREEN TRIBUNAL, NEW DELHI

INDEX

IN

RESPONSE AFFIDAVIT OF
UTTARAKHAND POLLUTION CONTROL BOARD

Original Application No. 518 of 2022

Vivek Verma

.....Applicant

Versus

State of Uttarakhand

.....Respondent

Sr. No.	Description of Documents	Page No(s)
1.	Index	1 - 1
2.	Response Affidavit	2 - 6
4.	Annexure No. 1: Copies of third party analysis reports of water quality status of Nainital Lake, Naukuchiatal, Bheemtal and Sattal.	7 - 22
5.	Annexure No. 2: Copies of analysis reports of drains.	23 - 30
6.	Annexure No. 3: Copies of letters dated 08.01.2024 & 04.04.2024 of UKPCB.	31 - 35

Dated: April, 2024

Advocate
(Counsel for the UKPCB)

IN THE NATIONAL GREEN TRIBUNAL, NEW DELHI

IN

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.....Respondent



AFFIDAVIT of Dr. Parag Madhukar Dhakate, aged about 47 years, S/o Shri M. B. Dhakate presently posted as Member Secretary, Uttarakhand Pollution Control Board, Dehradun.



[Signature]
Deponent

I, the above-named deponent does hereby solemnly affirm and state on oath as under: -

[Signature]

1. That the deponent is presently posted as the Member Secretary, Uttarakhand Pollution Control Board, Dehradun and is competent to sign and swear the instant response affidavit.
2. That the above noted Original Application was listed for hearing on 20.02.2024, wherein the Hon'ble National Green Tribunal was pleased to issue inter alia following directions:

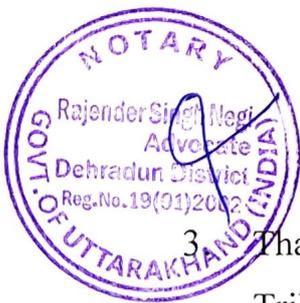
“

5. Vide order dated 28.11.2023 the respondents were also directed to file their response to the recommendations made by the amicus curie but no response has been filed.

6. Learned Counsel for the respondents seek time for filing of response to the same.

7. Response to the recommendations made by the amicus curie be filed within one month by email at judicial-ngt@gov.in preferably in the form of searchable PDF/OCR Supported PDF and not in the form of Image PDF.

.....”



3 That in compliance of order dated 28.11.2023 passed by the Hon'ble Tribunal, Action Taken report has been filed by the Respondent Board on 18.02.2024 which also included the action taken on recommendation made by the amicus curie.

[Handwritten signature]

4. That, in pursuance of recommendations of amicus curie, following action have been taken by the respondent Board:

- i. Water quality monitoring of Nainital Lake, Naukuchiatal, Bheemtal and Sattal is being carried out by the UKPCB on monthly basis. Analysis data is being regularly uploaded in the web site of Board at: <https://ueppcb.uk.gov.in/pages/display/96-water-quality-data>.
- ii. That the respondent Board has also engaged the third party laboratory for sampling and analysis of Nainital Lake, Naukuchiatal, Bheemtal and Sattal in the month of December, 2023 and April, 2024. Analysis reports shown BOD values 2.0 or <2.0 mg/L, dissolved oxygen ranged between 3.8 mg/L to 8.8 mg/L, while fecal coliform were absent in all samples analyzed. Copies of analysis reports is being marked and filed as **Annexure No. 1 (colly)** to this affidavit.
- iii. That it is to mention that inspection of drains were carried out with Amicus Curie on 30.12.2023. During the inspection it was observed that most of the drains are non-perennial and water flows in these drain during rains only. No waste water/sewage discharge was found in drains leading to Nainital Lake. It is to state that drain no. 23 carries natural spring water from China Peak to Nainital Lake. Water sample analysis of drain indicates BOD values ranged <2.0 mg/L to 3.2 mg/L, dissolved oxygen ranged between 5.6 mg/L to 7.4 mg/L, while Fecal coliform were

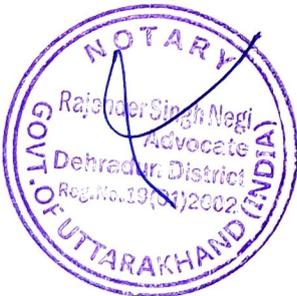
Page 4 of 6



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absent in all samples analyzed. Analysis reports indicated that no sewage is being discharged in to the Nainital Lake through drain. Copies of analysis reports is being marked and filed as **Annexure No. 2 (colly)** to this affidavit.

- iv. That the respondent Board has issued necessary directions to Executive Officer, Nagar Palika Parisad, Nainital for ensuring the compliance of Rule-20 of the Solid Waste Management Rules, 2016 as amended vide letters dated 08.01.2024 & 04.04.2024. Necessary instructions were also issued Executive Engineer, Irrigation Department, Nainital for ensuring compliance of order passed by the Hon'ble Tribunal. Vide letters dated 08.01.2024 & 04.04.2024. Copies of letter dated 08.01.2024 & 04.04.2024 is being marked and filed as **Annexure No. 3 (colly)** to this affidavit.
5. That the deponent is a responsible Government servant having the highest regards for the Hon'ble Tribunal and orders passed by them. The deponent has always made his sincerest efforts to carry out the orders passed by this Hon'ble Tribunal in its letter and spirit and shall continue to do so in the future.




Deponent

Verification:

I, Sunilki Sah..... do hereby declare that the person making this affidavit and alleging himself to be Dr. Parag Madhukar Dhakate is the same person who is known to me from the papers produced by him before me in this case.

Sunilki
.....

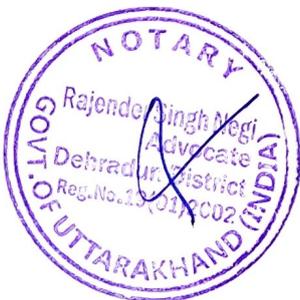
Advocate

Enrol. No. D/12580/2022

Solemnly affirmed before me on this 22 day of April, 2024 at about 6:30 AM/PM by the deponent who has been identified by the aforesaid advocate. I have satisfied myself by examining the deponent who understood the contents of this affidavit, which has been read over and explained to him.

Notary

[Handwritten signature]



23/30/24
This affidavit is sworn before me by
Shri. Dr. Parag Madhukar Dhakate
who is identified by Shri.
at Dehradun on.....

23/4/24
(Rajender Singh Negi)
Advocate & Notary, Dehradun

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**TEST CERTIFICATE**

Date: 28/01/24

Date: 23/01/24

File No.

File Sl. No.

Test Report of	Report Code	Date of Issue
Surface Water Quality Analysis	W-010124-05	09/01/2024

ISSUED TO: M/S. Uttrakhand Pollution Control Board.**ADDRESS: Awas-Vikas Colony, Haldwani, Distt-Nainital, Uttarakhand****Sampling & Analysis Data**

Sample Description	: Surface Water
Sampling Location	: Nainital Lake
Sample Quantity	: 2.0 Ltr.+500 ml
Sample Drown By	: NTL Representative
Sample Drown On	: 30/12/2023
Sample Received On	: 01/01/2024
Analysis Duration	: 01/01/2024 to 08/01/2024
Sample Marking & Packing	: Plastic+ Glass Bottle (SW-5)

RESULTS

S.No.	Parameter	Units	Test Method	Results	Standards as Per IS:2296 Class-B Limits
1.	pH	-	IS:3025(Part-11)	8.02	8.5
2.	Temperature	°C	IS:3025(Part-9)	11.0	---
3.	Turbidity	NTU	IS:3025(Part-10)	<1.0	---
4.	Electric Conductivity @25°C	µS/cm	IS:3025(Part-14)	460.0	---
5.	Sulphate (SO ₄)	mg/l	IS:3025(Part-24)	26.0 ✓	---
6.	Nitrate (NO ₃)	mg/l	IS:3025(Part-34)	2.80 ✓	---
7.	Total Hardness (as CaCO ₃)	mg/l	IS:3025(Part-21)	180.0	---
8.	Chloride (as Cl)	mg/l	IS:3025(Part-32)	13	---
9.	Fluoride (as F)	mg/l	APHA 4500F	BDL(DL<1.0)	1.5
10.	COD (as O ₂)	mg/l	APHA-5220 B	6.0	---
11.	Iron (as Fe)	mg/l	IS:3025(Part-53)	0.09	---
12.	Dissolve Oxygen	mg/l	IS-3025(Part-38)	3.8	5.0 Min
13.	Total Dissolved Solid	mg/l	IS:3025(Part-16)	308.0	----
14.	Total Suspended Solid	mg/l	IS:3025(Part-17)	BDL(<5.0)	---
15.	BOD (3 days at 27°C)	mg/l	IS:3025 (P-44)	2.0	3.0
16.	Calcium (as Ca)	mg/l	IS:3025(Part-40)	42.0	---
17.	Magnesium (as Mg)	mg/l	IS:3025(Part-46)	18.3	---
18.	Arsenic (as As)	mg/l	IS:3025(Part-37)	BDL(<0.01)	0.2

Laboratory : GT-20, Sector-117, NOIDA, Gautam Budh Nagar - 201301**Branch Office :****HARIDWAR | RUDRAPUR | CHANDIGARH | DEHRADUN | PUNE****E.: noida.laboratory@gmail.com, info@noidalabs.com W.: www.noidalabs.com**

456

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19.	Lead (as Pb)	mg/l	IS:3025(Part-47)	BDL(<0.01)	---
20.	Copper (as Cu)	mg/l	IS:3025(Part-42)	BDL(<0.010)	---
21.	Zinc (as Zn)	mg/l	IS:3025(Part-49)	BDL (<0.1)	---
22.	Manganese (as Mn)	mg/l	IS:3025(Part-59)	BDL(<0.010)	---
23.	Total Chromium (as Cr)	mg/l	IS:3025(Part-52)	BDL(<0.01)	---
24.	Sodium (as Na)	mg/l	IS:3025(Part-45)	2.20	---
25.	Potassium (as K)	mg/l	IS:3025(Part-45)	0.50	---
26.	Total Alkalinity (as CaCO ₃)	mg/l	IS:3025(Part-23)	126.0	---
27.	Phosphate (as P)	mg/l	IS:3025(Part-31)	BDL(<0.01)	---
28.	Nitrite (as NO ₂)	mg/l	IS:3025(Part-34)	BDL(<0.05)	---

Microbiological Parameters

29.	Faecal Coliform	MPN/100 ml	IS-1622	Absent	---
30.	Total Coliform	MPN/100ml	IS-1622	Absent	500

****End of Report******Notes:**

1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
2. Responsibility of the Laboratory is limited to the invoiced amount only.
3. This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.
4. This test report will not be used for any publicity/legal purpose.

CHECKED BY

Anjali

AUTHORIZED SIGNATORY

**Laboratory :** GT-20, Sector-117, NOIDA, Gautam Budh Nagar - 201301**Branch Office :****HARIDWAR | RUDRAPUR | CHANDIGARH | DEHRADUN | PUNE****E.:** noida.laboratory@gmail.com, info@noidalabs.com **W.:** www.noidalabs.com



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TEST CERTIFICATE

Lab No. 2639-1488
Date: 25/01/24
File No. Lab
File Sl. No.

Test Report of	Report Code	Date of Issue
Surface Water Quality Analysis	W-010124-03	09/01/2024

ISSUED TO: M/S. Utrakhand Pollution Control Board.

ADDRESS: Awas-Vikas Colony, Haldwani, Distt-Nanital, Uttarakhand

Sampling & Analysis Data

Sample Description : Surface Water
 Sampling Location : Naukuchiyatal Lake
 Sample Quantity : 2.0 Ltr.+500 ml
 Sample Drown By : NTL Representative
 Sample Drown On : 30/12/2023
 Sample Received On : 01/01/2024
 Analysis Duration : 01/01/2024 to 08/01/2024
 Sample Marking & Packing : Plastic+ Glass Bottle (SW-3)

RESULTS

S.No.	Parameter	Units	Test Method	Results	Standards as Per IS:2296 Class-B Limits
1.	pH	-	IS:3025(Part-11)	7.74	8.5
2.	Temperature	°C	IS:3025(Part-9)	12.0	---
3.	Turbidity	NTU	IS:3025(Part-10)	Clear	---
4.	Electric Conductivity @25°C	µS/cm	IS:3025(Part-14)	210.0	---
5.	Sulphate (SO4)	mg/l	IS:3025(Part-24)	6.0	---
6.	Nitrate (NO3)	mg/l	IS:3025(Part-34)	1.50	---
7.	Total Hardness (as CaCO3)	mg/l	IS:3025(Part-21)	78.0	---
8.	Chloride (as Cl)	mg/l	IS:3025(Part-32)	11.0	---
9.	Fluoride (as F)	mg/l	APHA 4500F	BDL(DL<1.0)	1.5
10.	COD (as O2)	mg/l	APHA-5220 B	4.0	---
11.	Iron (as Fe)	mg/l	IS:3025(Part-53)	0.06	---
12.	Dissolve Oxygen	mg/l	IS-3025(Part-38)	8.4	5.0 Min
13.	Total Dissolved Solid	mg/l	IS:3025(Part-16)	140.0	----
14.	Total Suspended Solid	mg/l	IS:3025(Part-17)	BDL(<5.0)	---
15.	BOD (3 days at 27°C)	mg/l	IS:3025 (P-44)	BDL(<2.0)	3.0
16.	Calcium (as Ca)	mg/l	IS:3025(Part-40)	18.0	---
17.	Magnesium (as Mg)	mg/l	IS:3025(Part-46)	8.0	---
18.	Arsenic (as As)	mg/l	IS:3025(Part-37)	BDL(<0.01)	0.2

Laboratory : GT-20, Sector-117, NOIDA, Gautam Budh Nagar - 201301

Branch Office :

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TEST CERTIFICATE

19.	Lead (as Pb)	mg/l	IS:3025(Part-47)	BDL(<0.01)	---
20.	Copper (as Cu)	mg/l	IS:3025(Part-42)	BDL(<0.010)	---
21.	Zinc (as Zn)	mg/l	IS:3025(Part-49)	0.10	---
22.	Manganese (as Mn)	mg/l	IS:3025(Part-59)	BDL(<0.010)	---
23.	Total Chromium (as Cr)	mg/l	IS:3025(Part-52)	BDL(<0.01)	---
24.	Sodium (as Na)	mg/l	IS:3025(Part-45)	BDL (<1.0)	---
25.	Potassium (as K)	mg/l	IS:3025(Part-45)	BDL (<1.0)	---
26.	Total Alkalinity (as CaCO ₃)	mg/l	IS:3025(Part-23)	80.0	---
27.	Phosphate (as P)	mg/l	IS:3025(Part-31)	BDL(<0.01)	---
28.	Nitrite (as NO ₂)	mg/l	IS:3025(Part-34)	BDL(<0.05)	---
Microbiological Parameters					
29.	Faecal Coliform	MPN/100 ml	IS-1622	Absent	---
30.	Total Coliform	MPN/100ml	IS-1622	Absent	500

****End of Report****

Notes:

1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
2. Responsibility of the Laboratory is limited to the invoiced amount only.
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Checked by
Anjali
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AUTHORIZED SIGNATORY

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TEST CERTIFICATE

2641-1482
25/01/24
lab

Test Report of	Report Code	Date of Issue
Surface Water Quality Analysis	W-010124-04	09/01/2024

ISSUED TO: M/S. Uttarakhand Pollution Control Board.

ADDRESS: Awas-Vikas Colony, Haldwani, Distt-Nanital, Uttarakhand

Sampling & Analysis Data

Sample Description	: Surface Water
Sampling Location	: Bhimtal Lake
Sample Quantity	: 2.0 Ltr.+500 ml
Sample Drown By	: NTL Representative
Sample Drown On	: 30/12/2023
Sample Received On	: 01/01/2024
Analysis Duration	: 01/01/2024 to 08/01/2024
Sample Marking & Packing	: Plastic+ Glass Bottle (SW-4)

RESULTS

S.No.	Parameter	Units	Test Method	Results	Standards as Per IS:2296 Class-B Limits
1.	pH	-	IS:3025(Part-11)	7.33	8.5
2.	Temperature	°C	IS:3025(Part-9)	13.0	---
3.	Turbidity	NTU	IS:3025(Part-10)	Clear	---
4.	Electric Conductivity @25°C	µS/cm	IS:3025(Part-14)	180.0	---
5.	Sulphate (SO4)	mg/l	IS:3025(Part-24)	4.0	---
6.	Nitrate (NO3)	mg/l	IS:3025(Part-34)	1.20	---
7.	Total Hardness (as CaCO3)	mg/l	IS:3025(Part-21)	70.0	---
8.	Chloride (as Cl)	mg/l	IS:3025(Part-32)	11.0	---
9.	Fluoride (as F)	mg/l	APHA 4500F	BDL(DL<1.0)	1.5
10.	COD (as O2)	mg/l	APHA-5220 B	4.0	---
11.	Iron (as Fe)	mg/l	IS:3025(Part-53)	0.07	---
12.	Dissolve Oxygen	mg/l	IS-3025(Part-38)	8.4	5.0 Min
13.	Total Dissolved Solid	mg/l	IS:3025(Part-16)	125	----
14.	Total Suspended Solid	mg/l	IS:3025(Part-17)	BDL(<5.0)	---
15.	BOD (3 days at 27°C)	mg/l	IS:3025 (P-44)	BDL(<2.0)	3.0
16.	Calcium (as Ca)	mg/l	IS:3025(Part-40)	22.0	---
17.	Magnesium (as Mg)	mg/l	IS:3025(Part-46)	3.65	---
18.	Arsenic (as As)	mg/l	IS:3025(Part-37)	BDL(<0.01)	0.2

Laboratory : GT-20, Sector-117, NOIDA, Gautam Budh Nagar - 201301

Branch Office :

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19.	Lead (as Pb)	mg/l	IS:3025(Part-47)	BDL(<0.01)	---
20.	Copper (as Cu)	mg/l	IS:3025(Part-42)	BDL(<0.010)	---
21.	Zinc (as Zn)	mg/l	IS:3025(Part-49)	0.10	---
22.	Manganese (as Mn)	mg/l	IS:3025(Part-59)	BDL(<0.010)	---
23.	Total Chromium (as Cr)	mg/l	IS:3025(Part-52)	BDL(<0.01)	---
24.	Sodium (as Na)	mg/l	IS:3025(Part-45)	1.8	---
25.	Potassium (as K)	mg/l	IS:3025(Part-45)	0.41	---
26.	Total Alkalinity (as CaCO ₃)	mg/l	IS:3025(Part-23)	92.0	---
27.	Phosphate (as P)	mg/l	IS:3025(Part-31)	BDL(<0.01)	---
28.	Nitrite (as NO ₂)	mg/l	IS:3025(Part-34)	BDL(<0.05)	---
Microbiological Parameters					
29.	Faecal Coliform	MPN/100 ml	IS-1622	Absent	---
30.	Total Coliform	MPN/100ml	IS-1622	Absent	500

****End of Report******Notes:**

1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
2. Responsibility of the Laboratory is limited to the invoiced amount only.
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Checked by
Anjali
CHECKED BY


AUTHORIZED SIGNATORY

Laboratory : GT-20, Sector-117, NOIDA, Gautam Budh Nagar - 201301**Branch Office :****HARIDWAR | RUDRAPUR | CHANDIGARH | DEHRADUN | PUNE****E.:** noida.laboratory@gmail.com, info@noidalabs.com **W.:** www.noidalabs.com



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TEST CERTIFICATE

2642-1483
25/01/24
Lab

Test Report of	Report Code	Date of Issue
Surface Water Quality Analysis	W-010124-06	09/01/2024

ISSUED TO: M/S. Uttrakhand Pollution Control Board.

ADDRESS: Awas-Vikas Colony, Haldwani, Distt-Nanital, Uttarakhand

Sampling & Analysis Data

Sample Description	: Surface Water
Sampling Location	: Sattal Lake
Sample Quantity	: 2.0 Ltr.+500 ml
Sample Drown By	: NTL Representative
Sample Drown On	: 30/12/2023
Sample Received On	: 01/01/2024
Analysis Duration	: 01/01/2024 to 08/01/2024
Sample Marking & Packing	: Plastic+ Glass Bottle (SW-6)

RESULTS

S.No.	Parameter	Units	Test Method	Results	Standards as Per IS:2296 Class-B Limits
1.	pH	-	IS:3025(Part-11)	7.08	8.5
2.	Temperature	°C	IS:3025(Part-9)	11.0	---
3.	Turbidity	NTU	IS:3025(Part-10)	<1.0	---
4.	Electric Conductivity @25°C	µS/cm	IS:3025(Part-14)	140.0	---
5.	Sulphate (SO4)	mg/l	IS:3025(Part-24)	7.5	---
6.	Nitrate (NO3)	mg/l	IS:3025(Part-34)	1.50	---
7.	Total Hardness (as CaCO3)	mg/l	IS:3025(Part-21)	56.0	---
8.	Chloride (as Cl)	mg/l	IS:3025(Part-32)	9.0	---
9.	Fluoride (as F)	mg/l	APHA 4500F	BDL(DL<1.0)	1.5
10.	COD (as O2)	mg/l	APHA-5220 B	4.0	---
11.	Iron (as Fe)	mg/l	IS:3025(Part-53)	0.06	---
12.	Dissolve Oxygen	mg/l	IS-3025(Part-38)	8.8	5.0 Min
13.	Total Dissolved Solid	mg/l	IS:3025(Part-16)	97.0	----
14.	Total Suspended Solid	mg/l	IS:3025(Part-17)	BDL(<5.0)	---
15.	BOD (3 days at 27°C)	mg/l	IS:3025 (P-44)	BDL(<2.0)	3.0
16.	Calcium (as Ca)	mg/l	IS:3025(Part-40)	12.0	---
17.	Magnesium (as Mg)	mg/l	IS:3025(Part-46)	6.32	---
18.	Arsenic (as As)	mg/l	IS:3025(Part-37)	BDL(<0.01)	0.2

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19.	Lead (as Pb)	mg/l	IS:3025(Part-47)	BDL(<0.01)	---
20.	Copper (as Cu)	mg/l	IS:3025(Part-42)	BDL(<0.010)	---
21.	Zinc (as Zn)	mg/l	IS:3025(Part-49)	BDL (<0.1)	---
22.	Manganese (as Mn)	mg/l	IS:3025(Part-59)	BDL(<0.010)	---
23.	Total Chromium (as Cr)	mg/l	IS:3025(Part-52)	BDL(<0.01)	---
24.	Sodium (as Na)	mg/l	IS:3025(Part-45)	1.0	---
25.	Potassium (as K)	mg/l	IS:3025(Part-45)	BDL(<0.10)	---
26.	Total Alkalinity (as CaCO ₃)	mg/l	IS:3025(Part-23)	66.0	---
27.	Phosphate (as P)	mg/l	IS:3025(Part-31)	BDL(<0.01)	---
28.	Nitrite (as NO ₂)	mg/l	IS:3025(Part-34)	BDL(<0.05)	---
Microbiological Parameters					
29.	Faecal Coliform	MPN/100 ml	IS-1622	Absent	---
30.	Total Coliform	MPN/100ml	IS-1622	Absent	500

****End of Report****

Notes:

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Test Report of	Report Code	Date of Issue
Surface Water Quality Analysis	W-130424-05	16/04/2024

ISSUED TO: M/S. Uttarakhand Pollution Control Board.

ADDRESS: Awas-Vikas Colony, Haldwani, Distt-Nanital, Uttarakhand

Sampling & Analysis Data

Sample Description	: Surface Water
Sampling Location	: Nainital Lake
Sample Quantity	: 2.0 Ltr.+500 ml
Sample Drawn By	: NTL Representative
Sample Drawn On	: 12/04/2024
Sample Received On	: 13/04/2024
Analysis Duration	: 13/04/2024 to 16/04/2024
Sample Marking & Packing	: Plastic+ Glass Bottle (SW-5)

RESULTS

S.No.	Parameter	Units	Test Method	Results	Standards as Per IS:2296 Class-B Limits
1.	pH	-	IS:3025(Part-11)	7.85	6.5 - 8.5
2.	Temperature	°C	IS:3025(Part-9)	16.0	---
3.	Turbidity	NTU	IS:3025(Part-10)	<1.0	---
4.	Electric Conductivity @25°C	µS/cm	IS:3025(Part-14)	489.0	---
5.	Sulphate (SO4)	mg/l	IS:3025(Part-24)	27.0	---
6.	Nitrate (NO3)	mg/l	IS:3025(Part-34)	3.12	---
7.	Total Hardness (as CaCO3)	mg/l	IS:3025(Part-21)	186.0	---
8.	Chloride (as Cl)	mg/l	IS:3025(Part-32)	15	---
9.	Fluoride (as F)	mg/l	APHA 4500F	BDL(DL<1.0)	1.5
10.	COD (as O2)	mg/l	APHA-5220 B	7.0	---
11.	Iron (as Fe)	mg/l	IS:3025(Part-53)	0.15	---
12.	Dissolve Oxygen	mg/l	IS-3025(Part-38)	8.0	5.0 Min
13.	Total Dissolved Solid	mg/l	IS:3025(Part-16)	315.0	----
14.	Total Suspended Solid	mg/l	IS:3025(Part-17)	BDL(<5.0)	---
15.	BOD (3 days at 27°C)	mg/l	IS:3025 (P-44)	2.2	3.0
16.	Calcium (as Ca)	mg/l	IS:3025(Part-40)	48.0	---

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17.	Magnesium (as Mg)	mg/l	IS:3025(Part-46)	16.0	---
18.	Arsenic (as As)	mg/l	IS:3025(Part-37)	BDL(<0.01)	0.2
19.	Lead (as Pb)	mg/l	IS:3025(Part-47)	BDL(<0.01)	---
20.	Copper (as Cu)	mg/l	IS:3025(Part-42)	BDL(<0.010)	---
21.	Zinc (as Zn)	mg/l	IS:3025(Part-49)	BDL (<0.1)	---
22.	Manganese (as Mn)	mg/l	IS:3025(Part-59)	BDL(<0.010)	---
23.	Total Chromium (as Cr)	mg/l	IS:3025(Part-52)	BDL(<0.01)	---
24.	Sodium (as Na)	mg/l	IS:3025(Part-45)	2.60	---
25.	Potassium (as K)	mg/l	IS:3025(Part-45)	0.48	---
26.	Total Alkalinity (as CaCO ₃)	mg/l	IS:3025(Part-23)	154.0	---
27.	Phosphate (as P)	mg/l	IS:3025(Part-31)	BDL(<0.01)	---
28.	Nitrite (as NO ₂)	mg/l	IS:3025(Part-34)	BDL(<0.05)	---
Microbiological Parameters					
29.	Faecal Coliform	MPN/100 ml	IS-1622	Absent	---
30.	Total Coliform	MPN/100ml	IS-1622	Absent	500

****End of Report****

Notes:

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Surface Water Quality Analysis	W-130424-03	16/04/2024

ISSUED TO: M/S. Uttrakhand Pollution Control Board.

ADDRESS: Awas-Vikas Colony, Haldwani, Distt-Nanital, Uttarakhand

Sampling & Analysis Data

Sample Description	: Surface Water
Sampling Location	: Naukuchiyatal Lake
Sample Quantity	: 2.0 Ltr.+500 ml
Sample Drawn By	: NTL Representative
Sample Drawn On	: 12/04/2024
Sample Received On	: 13/04/2024
Analysis Duration	: 13/04/2024 to 16/04/2024
Sample Marking & Packing	: Plastic+ Glass Bottle (SW-3)

RESULTS

S.No.	Parameter	Units	Test Method	Results	Standards as Per IS:2296 Class-B Limits
1.	pH	-	IS:3025(Part-11)	7.84	6.5 - 8.5
2.	Temperature	⁰ C	IS:3025(Part-9)	17.0	---
3.	Turbidity	NTU	IS:3025(Part-10)	Clear	---
4.	Electric Conductivity @25 ⁰ C	μS/cm	IS:3025(Part-14)	216.0	---
5.	Sulphate (SO ₄)	mg/l	IS:3025(Part-24)	5.8	---
6.	Nitrate (NO ₃)	mg/l	IS:3025(Part-34)	1.46	---
7.	Total Hardness (as CaCO ₃)	mg/l	IS:3025(Part-21)	85.0	---
8.	Chloride (as Cl)	mg/l	IS:3025(Part-32)	12.0	---
9.	Fluoride (as F)	mg/l	APHA 4500F	BDL(DL<1.0)	1.5
10.	COD (as O ₂)	mg/l	APHA-5220 B	6.5	---
11.	Iron (as Fe)	mg/l	IS:3025(Part-53)	0.08	---
12.	Dissolve Oxygen	mg/l	IS-3025(Part-38)	8.0	5.0 Min
13.	Total Dissolved Solid	mg/l	IS:3025(Part-16)	138.0	----
14.	Total Suspended Solid	mg/l	IS:3025(Part-17)	BDL(<5.0)	---
15.	BOD (3 days at 27 ⁰ C)	mg/l	IS:3025 (P-44)	BDL(<2.0)	3.0
16.	Calcium (as Ca)	mg/l	IS:3025(Part-40)	23.0	---

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17.	Magnesium (as Mg)	mg/l	IS:3025(Part-46)	6.65	---
18.	Arsenic (as As)	mg/l	IS:3025(Part-37)	BDL(<0.01)	0.2
19.	Lead (as Pb)	mg/l	IS:3025(Part-47)	BDL(<0.01)	---
20.	Copper (as Cu)	mg/l	IS:3025(Part-42)	BDL(<0.010)	---
21.	Zinc (as Zn)	mg/l	IS:3025(Part-49)	0.08	---
22.	Manganese (as Mn)	mg/l	IS:3025(Part-59)	BDL(<0.010)	---
23.	Total Chromium (as Cr)	mg/l	IS:3025(Part-52)	BDL(<0.01)	---
24.	Sodium (as Na)	mg/l	IS:3025(Part-45)	BDL (<1.0)	---
25.	Potassium (as K)	mg/l	IS:3025(Part-45)	BDL (<1.0)	---
26.	Total Alkalinity (as CaCO ₃)	mg/l	IS:3025(Part-23)	92.0	---
27.	Phosphate (as P)	mg/l	IS:3025(Part-31)	BDL(<0.01)	---
28.	Nitrite (as NO ₂)	mg/l	IS:3025(Part-34)	BDL(<0.05)	---
Microbiological Parameters					
29.	Faecal Coliform	MPN/100 ml	IS-1622	Absent	---
30.	Total Coliform	MPN/100ml	IS-1622	Absent	500

****End of Report****

Notes:

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Surface Water Quality Analysis	W-130424-04	16/04/2024

ISSUED TO: M/S. Uttrakhand Pollution Control Board.

ADDRESS: Awas-Vikas Colony, Haldwani, Distt-Nanital, Uttarakhand

Sampling & Analysis Data

Sample Description	: Surface Water
Sampling Location	: Bhimtal Lake
Sample Quantity	: 2.0 Ltr.+500 ml
Sample Drawn By	: NTL Representative
Sample Drawn On	: 12/04/2024
Sample Received On	: 13/04/2024
Analysis Duration	: 13/04/2024 to 16/04/2024
Sample Marking & Packing	: Plastic+ Glass Bottle (SW-4)

RESULTS

S.No.	Parameter	Units	Test Method	Results	Standards as Per IS:2296 Class-B Limits
1.	pH	-	IS:3025(Part-11)	7.46	6.5 - 8.5
2.	Temperature	°C	IS:3025(Part-9)	16.0	---
3.	Turbidity	NTU	IS:3025(Part-10)	Clear	---
4.	Electric Conductivity @25°C	µS/cm	IS:3025(Part-14)	189.0	---
5.	Sulphate (SO4)	mg/l	IS:3025(Part-24)	4.2	---
6.	Nitrate (NO3)	mg/l	IS:3025(Part-34)	1.36	---
7.	Total Hardness (as CaCO3)	mg/l	IS:3025(Part-21)	85.0	---
8.	Chloride (as Cl)	mg/l	IS:3025(Part-32)	12.0	---
9.	Fluoride (as F)	mg/l	APHA 4500F	BDL(DL<1.0)	1.5
10.	COD (as O2)	mg/l	APHA-5220 B	6.0	---
11.	Iron (as Fe)	mg/l	IS:3025(Part-53)	0.05	---
12.	Dissolve Oxygen	mg/l	IS-3025(Part-38)	7.8	5.0 Min
13.	Total Dissolved Solid	mg/l	IS:3025(Part-16)	121	----
14.	Total Suspended Solid	mg/l	IS:3025(Part-17)	BDL(<5.0)	---
15.	BOD (3 days at 27°C)	mg/l	IS:3025 (P-44)	BDL(<2.0)	3.0
16.	Calcium (as Ca)	mg/l	IS:3025(Part-40)	28.0	---

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17.	Magnesium (as Mg)	mg/l	IS:3025(Part-46)	3.63	---
18.	Arsenic (as As)	mg/l	IS:3025(Part-37)	BDL(<0.01)	0.2
19.	Lead (as Pb)	mg/l	IS:3025(Part-47)	BDL(<0.01)	---
20.	Copper (as Cu)	mg/l	IS:3025(Part-42)	BDL(<0.010)	---
21.	Zinc (as Zn)	mg/l	IS:3025(Part-49)	0.14	---
22.	Manganese (as Mn)	mg/l	IS:3025(Part-59)	BDL(<0.010)	---
23.	Total Chromium (as Cr)	mg/l	IS:3025(Part-52)	BDL(<0.01)	---
24.	Sodium (as Na)	mg/l	IS:3025(Part-45)	1.6	---
25.	Potassium (as K)	mg/l	IS:3025(Part-45)	0.25	---
26.	Total Alkalinity (as CaCO ₃)	mg/l	IS:3025(Part-23)	97.0	---
27.	Phosphate (as P)	mg/l	IS:3025(Part-31)	BDL(<0.01)	---
28.	Nitrite (as NO ₂)	mg/l	IS:3025(Part-34)	BDL(<0.05)	---
Microbiological Parameters					
29.	Faecal Coliform	MPN/100 ml	IS-1622	Absent	---
30.	Total Coliform	MPN/100ml	IS-1622	Absent	500

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Surface Water Quality Analysis	W-130424-06	16/04/2024

ISSUED TO: M/S. Uttrakhand Pollution Control Board.

ADDRESS: Awas-Vikas Colony, Haldwani, Distt-Nanital, Uttarakhand

Sampling & Analysis Data

Sample Description	: Surface Water
Sampling Location	: Sattal Lake
Sample Quantity	: 2.0 Ltr.+500 ml
Sample Drawn By	: NTL Representative
Sample Drawn On	: 12/04/2024
Sample Received On	: 13/04/2024
Analysis Duration	: 13/04/2024 to 16/04/2024
Sample Marking & Packing	: Plastic+ Glass Bottle (SW-6)

RESULTS

S.No.	Parameter	Units	Test Method	Results	Standards as Per IS:2296 Class-B Limits
1.	pH	-	IS:3025(Part-11)	7.38	6.5 - 8.5
2.	Temperature	°C	IS:3025(Part-9)	15.0	---
3.	Turbidity	NTU	IS:3025(Part-10)	<1.0	---
4.	Electric Conductivity @25°C	µS/cm	IS:3025(Part-14)	136.0	---
5.	Sulphate (SO4)	mg/l	IS:3025(Part-24)	7.2	---
6.	Nitrate (NO3)	mg/l	IS:3025(Part-34)	1.80	---
7.	Total Hardness (as CaCO3)	mg/l	IS:3025(Part-21)	62.0	---
8.	Chloride (as Cl)	mg/l	IS:3025(Part-32)	10.0	---
9.	Fluoride (as F)	mg/l	APHA 4500F	BDL(DL<1.0)	1.5
10.	COD (as O2)	mg/l	APHA-5220 B	4.0	---
11.	Iron (as Fe)	mg/l	IS:3025(Part-53)	0.08	---
12.	Dissolve Oxygen	mg/l	IS-3025(Part-38)	8.2	5.0 Min
13.	Total Dissolved Solid	mg/l	IS:3025(Part-16)	89.0	----
14.	Total Suspended Solid	mg/l	IS:3025(Part-17)	BDL(<5.0)	---

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15.	BOD (3 days at 27°C)	mg/l	IS:3025 (P-44)	BDL(<2.0)	3.0
16.	Calcium (as Ca)	mg/l	IS:3025(Part-40)	18.0	---
17.	Magnesium (as Mg)	mg/l	IS:3025(Part-46)	4.11	---
18.	Arsenic (as As)	mg/l	IS:3025(Part-37)	BDL(<0.01)	0.2
19.	Lead (as Pb)	mg/l	IS:3025(Part-47)	BDL(<0.01)	---
20.	Copper (as Cu)	mg/l	IS:3025(Part-42)	BDL(<0.010)	---
21.	Zinc (as Zn)	mg/l	IS:3025(Part-49)	BDL (<0.1)	---
22.	Manganese (as Mn)	mg/l	IS:3025(Part-59)	BDL(<0.010)	---
23.	Total Chromium (as Cr)	mg/l	IS:3025(Part-52)	BDL(<0.01)	---
24.	Sodium (as Na)	mg/l	IS:3025(Part-45)	1.5	---
25.	Potassium (as K)	mg/l	IS:3025(Part-45)	BDL(<0.10)	---
26.	Total Alkalinity (as CaCO ₃)	mg/l	IS:3025(Part-23)	62.0	---
27.	Phosphate (as P)	mg/l	IS:3025(Part-31)	BDL(<0.01)	---
28.	Nitrite (as NO ₂)	mg/l	IS:3025(Part-34)	BDL(<0.05)	---
Microbiological Parameters					
29.	Faecal Coliform	MPN/100 ml	IS-1622	Absent	---
30.	Total Coliform	MPN/100ml	IS-1622	Absent	500

****End of Report****

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2643-1489
Date: 28/01/24
File No: Lab
Date of Issue: 09/01/2024

Test Report of	Report Code	Date of Issue
Surface Water Quality Analysis	W-010124-01	09/01/2024

ISSUED TO: M/S. Uttrakhand Pollution Control Board.

ADDRESS: Awas-Vikas Colony, Haldwani, Distt-Nainital, Uttarakhand

Sampling & Analysis Data

Sample Description	: Surface Water
Sampling Location	: Near Forest CAMPA scheme, Mallital, District-Nainital
Sampling Point	: Natural Water Source (Nala No. 23)
Sample Quantity	: 2.0 Ltr.+500 ml
Sample Drown By	: NTL Representative
Sample Drown On	: 30/12/2023
Sample Received On	: 01/01/2024
Analysis Duration	: 01/01/2024 to 08/01/2024
Sample Marking & Packing	: Plastic+ Glass Bottle (SW-1)

RESULTS

S.No.	Parameter	Units	Test Method	Results	Standards as Per IS:2296 Class-A Limits
1.	pH	-	IS:3025(Part-11)	7.31	8.5
2.	Temperature	°C	IS:3025(Part-9)	13.0	---
3.	Turbidity	NTU	IS:3025(Part-10)	Clear	---
4.	Electric Conductivity @25°C	µS/cm	IS:3025(Part-14)	210.0	---
5.	Sulphate (SO4)	mg/l	IS:3025(Part-24)	5.5	400
6.	Nitrate (NO3)	mg/l	IS:3025(Part-34)	0.12	20
7.	Total Hardness (as CaCO3)	mg/l	IS:3025(Part-21)	118.0	300
8.	Chloride (as Cl)	mg/l	IS:3025(Part-32)	7.0	250
9.	Fluoride (as F)	mg/l	APHA 4500F	0.14	1.5
10.	COD (as O2)	mg/l	APHA-5220 B	BDL (<4.0)	---
11.	Iron (as Fe)	mg/l	IS:3025(Part-53)	0.085	0.30
12.	Dissolve Oxygen	mg/l	IS-3025(Part-38)	7.4	6.0 Min
13.	Total Dissolved Solid	mg/l	IS:3025(Part-16)	130.0	500
14.	Total Suspended Solid	mg/l	IS:3025(Part-17)	BDL(<5.0)	---
15.	BOD (3 days at 27°C)	mg/l	IS:3025 (P-44)	BDL(<2.0)	2.0
16.	Calcium (as Ca)	mg/l	IS:3025(Part-40)	48.0	80.0

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17.	Magnesium (as Mg)	mg/l	IS:3025(Part-46)	3.8	24.28
18.	Arsenic (as As)	mg/l	IS:3025(Part-37)	BDL(<0.01)	0.05
19.	Lead (as Pb)	mg/l	IS:3025(Part-47)	BDL(<0.01)	0.10
20.	Copper (as Cu)	mg/l	IS:3025(Part-42)	BDL(<0.010)	1.50
21.	Zinc (as Zn)	mg/l	IS:3025(Part-49)	BDL(<0.10)	15.0
22.	Manganese (as Mn)	mg/l	IS:3025(Part-59)	BDL(<0.010)	0.50
23.	Total Chromium (as Cr)	mg/l	IS:3025(Part-52)	BDL(<0.01)	---
24.	Sodium (as Na)	mg/l	IS:3025(Part-45)	BDL (<1.0)	---
25.	Potassium (as K)	mg/l	IS:3025(Part-45)	BDL (<1.0)	---
26.	Total Alkalinity (as CaCO ₃)	mg/l	IS:3025(Part-23)	110.0	---
27.	Phosphate (as P)	mg/l	IS:3025(Part-31)	BDL(<0.01)	---
28.	Nitrite (as NO ₂)	mg/l	IS:3025(Part-34)	BDL(<0.05)	---

Microbiological Parameters

29.	Faecal Coliform	MPN/100 ml	IS-1622	Absent	---
30.	Total Coliform	MPN/100ml	IS-1622	Absent	50

****End of Report****

Notes:

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TEST CERTIFICATE

Lab No. 2644-1485
Date: 28/01/24
File No. lab
File Sl. No. lab

Test Report of	Report Code	Date of Issue
Surface Water Quality Analysis	W-010124-02	09/01/2024

ISSUED TO: M/S. Uttrakhand Pollution Control Board.

ADDRESS: Awas-Vikas Colony, Haldwani, Distt-Nanital, Uttarakhand

Sampling & Analysis Data

Sample Description : Surface Water
 Sampling Location : Near Naina Devi Temple, Mallital, District-Nainital
 Sampling Point : Natural Water Source (Nala No. 23)
 Sample Quantity : 2.0 Ltr.+500 ml
 Sample Drown By : NTL Representative
 Sample Drown On : 30/12/2023
 Sample Received On : 01/01/2024
 Analysis Duration : 01/01/2024 to 08/01/2024
 Sample Marking & Packing : Plastic+ Glass Bottle (SW-2)

RESULTS

S.No.	Parameter	Units	Test Method	Results	Standards as Per IS:2296 Class-B Limits
1.	pH	-	IS:3025(Part-11)	7.89	8.5
2.	Temperature	°C	IS:3025(Part-9)	13.0	---
3.	Turbidity	NTU	IS:3025(Part-10)	<1.0	---
4.	Electric Conductivity @25°C	µS/cm	IS:3025(Part-14)	780.0	---
5.	Sulphate (SO4)	mg/l	IS:3025(Part-24)	8.12	---
6.	Nitrate (NO3)	mg/l	IS:3025(Part-34)	0.38	---
7.	Total Hardness (as CaCO3)	mg/l	IS:3025(Part-21)	362.0	---
8.	Chloride (as Cl)	mg/l	IS:3025(Part-32)	16.0	---
9.	Fluoride (as F)	mg/l	APHA 4500F	0.28	1.5
10.	COD (as O2)	mg/l	APHA-5220 B	8.0	---
11.	Iron (as Fe)	mg/l	IS:3025(Part-53)	BDL (<0.1)	---
12.	Dissolve Oxygen	mg/l	IS-3025(Part-38)	5.2	5.0 Min
13.	Total Dissolved Solid	mg/l	IS:3025(Part-16)	529.0	----
14.	Total Suspended Solid	mg/l	IS:3025(Part-17)	BDL(<5.0)	---
15.	BOD (3 days at 27°C)	mg/l	IS:3025 (P-44)	2.8	3.0

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16.	Calcium (as Ca)	mg/l	IS:3025(Part-40)	94.0	---
17.	Magnesium (as Mg)	mg/l	IS:3025(Part-46)	30.9	---
18.	Arsenic (as As)	mg/l	IS:3025(Part-37)	BDL(<0.01)	0.2
19.	Lead (as Pb)	mg/l	IS:3025(Part-47)	BDL(<0.01)	---
20.	Copper (as Cu)	mg/l	IS:3025(Part-42)	BDL(<0.010)	---
21.	Zinc (as Zn)	mg/l	IS:3025(Part-49)	BDL (<0.1)	---
22.	Manganese (as Mn)	mg/l	IS:3025(Part-59)	BDL(<0.010)	---
23.	Total Chromium (as Cr)	mg/l	IS:3025(Part-52)	BDL(<0.01)	---
24.	Sodium (as Na)	mg/l	IS:3025(Part-45)	BDL (<1.0)	---
25.	Potassium (as K)	mg/l	IS:3025(Part-45)	BDL (<1.0)	---
26.	Total Alkalinity (as CaCO ₃)	mg/l	IS:3025(Part-23)	242.0	---
27.	Phosphate (as P)	mg/l	IS:3025(Part-31)	BDL(<0.01)	---
28.	Nitrite (as NO ₂)	mg/l	IS:3025(Part-34)	BDL(<0.05)	---
Microbiological Parameters					
29.	Faecal Coliform	MPN/100 ml	IS-1622	Absent	---
30.	Total Coliform	MPN/100ml	IS-1622	120	500

****End of Report****

Notes:

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Test Report of	Report Code	Date of Issue
Surface Water Quality Analysis	W-130424-01	16/04/2024

ISSUED TO: M/S. Uttrakhand Pollution Control Board.

ADDRESS: Awas-Vikas Colony, Haldwani, Distt-Nanital, Uttarakhand

Sampling & Analysis Data

Sample Description	: Surface Water
Sampling Location	: Near Forest CAMPA scheme, Mallital, District-Nainital
Sampling Point	: Natural Water Source (Nala No. 23)
Sample Quantity	: 2.0 Ltr.+500 ml
Sample Drawn By	: NTL Representative
Sample Drawn On	: 12/04/2024
Sample Received On	: 13/04/2024
Analysis Duration	: 13/04/2024 to 16/04/2024
Sample Marking & Packing	: Plastic+ Glass Bottle (SW-1)

RESULTS					
S.No.	Parameter	Units	Test Method	Results	Standards as Per IS:2296 Class-A Limits
1.	pH	-	IS:3025(Part-11)	7.42	6.5 - 8.5
2.	Temperature	°C	IS:3025(Part-9)	16.0	---
3.	Turbidity	NTU	IS:3025(Part-10)	Clear	---
4.	Electric Conductivity @25°C	µS/cm	IS:3025(Part-14)	218.0	---
5.	Sulphate (SO4)	mg/l	IS:3025(Part-24)	5.2	400
6.	Nitrate (NO3)	mg/l	IS:3025(Part-34)	0.16	20
7.	Total Hardness (as CaCO3)	mg/l	IS:3025(Part-21)	125.0	300
8.	Chloride (as Cl)	mg/l	IS:3025(Part-32)	8.8	250
9.	Fluoride (as F)	mg/l	APHA 4500F	0.16	1.5
10.	COD (as O2)	mg/l	APHA-5220 B	BDL (<4.0)	---
11.	Iron (as Fe)	mg/l	IS:3025(Part-53)	0.096	0.30
12.	Dissolve Oxygen	mg/l	IS-3025(Part-38)	7.2	6.0 Min
13.	Total Dissolved Solid	mg/l	IS:3025(Part-16)	140.0	500
14.	Total Suspended Solid	mg/l	IS:3025(Part-17)	BDL(<5.0)	---
15.	BOD (3 days at 27°C)	mg/l	IS:3025 (P-44)	BDL(<2.0)	2.0
16.	Calcium (as Ca)	mg/l	IS:3025(Part-40)	52.0	80.0

Laboratory : GT-20, Sector-117, NOIDA, Gautam Budh Nagar - 201301

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17.	Magnesium (as Mg)	mg/l	IS:3025(Part-46)	1.21	24.28
18.	Arsenic (as As)	mg/l	IS:3025(Part-37)	BDL(<0.01)	0.05
19.	Lead (as Pb)	mg/l	IS:3025(Part-47)	BDL(<0.01)	0.10
20.	Copper (as Cu)	mg/l	IS:3025(Part-42)	BDL(<0.010)	1.50
21.	Zinc (as Zn)	mg/l	IS:3025(Part-49)	BDL(<0.10)	15.0
22.	Manganese (as Mn)	mg/l	IS:3025(Part-59)	BDL(<0.010)	0.50
23.	Total Chromium (as Cr)	mg/l	IS:3025(Part-52)	BDL(<0.01)	---
24.	Sodium (as Na)	mg/l	IS:3025(Part-45)	BDL (<1.0)	---
25.	Potassium (as K)	mg/l	IS:3025(Part-45)	BDL (<1.0)	---
26.	Total Alkalinity (as CaCO ₃)	mg/l	IS:3025(Part-23)	115.0	---
27.	Phosphate (as P)	mg/l	IS:3025(Part-31)	BDL(<0.01)	---
28.	Nitrite (as NO ₂)	mg/l	IS:3025(Part-34)	BDL(<0.05)	---
Microbiological Parameters					
29.	Faecal Coliform	MPN/100 ml	IS-1622	Absent	---
30.	Total Coliform	MPN/100ml	IS-1622	Absent	50

****End of Report****

Notes:

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Arjuli

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Test Report of	Report Code	Date of Issue
Surface Water Quality Analysis	W-130424-02	16/04/2024

ISSUED TO: M/S. Uttrakhand Pollution Control Board.

ADDRESS: Awas-Vikas Colony, Haldwani, Distt-Nainital, Uttarakhand

Sampling & Analysis Data

Sample Description	: Surface Water
Sampling Location	: Near Naina Devi Temple, Mallital, District-Nainital
Sampling Point	: Natural Water Source (Nala No. 23)
Sample Quantity	: 2.0 Ltr.+500 ml
Sample Drawn By	: NTL Representative
Sample Drawn On	: 12/04/2024
Sample Received On	: 13/04/2024
Analysis Duration	: 13/04/2024 to 16/04/2024
Sample Marking & Packing	: Plastic+ Glass Bottle (SW-2)

RESULTS

S.No.	Parameter	Units	Test Method	Results	Standards as Per IS:2296 Class-B Limits
1.	pH	-	IS:3025(Part-11)	7.65	6.5 - 8.5
2.	Temperature	^o C	IS:3025(Part-9)	18.0	---
3.	Turbidity	NTU	IS:3025(Part-10)	<1.0	---
4.	Electric Conductivity @25 ^o C	μS/cm	IS:3025(Part-14)	812.0	---
5.	Sulphate (SO ₄)	mg/l	IS:3025(Part-24)	10.16	---
6.	Nitrate (NO ₃)	mg/l	IS:3025(Part-34)	0.45	---
7.	Total Hardness (as CaCO ₃)	mg/l	IS:3025(Part-21)	385.0	---
8.	Chloride (as Cl)	mg/l	IS:3025(Part-32)	14.0	---
9.	Fluoride (as F)	mg/l	APHA 4500F	0.26	1.5
10.	COD (as O ₂)	mg/l	APHA-5220 B	10.0	---
11.	Iron (as Fe)	mg/l	IS:3025(Part-53)	BDL (<0.1)	---
12.	Dissolve Oxygen	mg/l	IS-3025(Part-38)	5.6	5.0 Min
13.	Total Dissolved Solid	mg/l	IS:3025(Part-16)	522.0	----
14.	Total Suspended Solid	mg/l	IS:3025(Part-17)	BDL(<5.0)	---
15.	BOD (3 days at 27 ^o C)	mg/l	IS:3025 (P-44)	3.2	3.0

Laboratory : GT-20, Sector-117, NOIDA, Gautam Budh Nagar - 201301

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16.	Calcium (as Ca)	mg/l	IS:3025(Part-40)	81.0	---
17.	Magnesium (as Mg)	mg/l	IS:3025(Part-46)	44.1	---
18.	Arsenic (as As)	mg/l	IS:3025(Part-37)	BDL(<0.01)	0.2
19.	Lead (as Pb)	mg/l	IS:3025(Part-47)	BDL(<0.01)	---
20.	Copper (as Cu)	mg/l	IS:3025(Part-42)	BDL(<0.010)	---
21.	Zinc (as Zn)	mg/l	IS:3025(Part-49)	BDL (<0.1)	---
22.	Manganese (as Mn)	mg/l	IS:3025(Part-59)	BDL(<0.010)	---
23.	Total Chromium (as Cr)	mg/l	IS:3025(Part-52)	BDL(<0.01)	---
24.	Sodium (as Na)	mg/l	IS:3025(Part-45)	BDL (<1.0)	---
25.	Potassium (as K)	mg/l	IS:3025(Part-45)	BDL (<1.0)	---
26.	Total Alkalinity (as CaCO ₃)	mg/l	IS:3025(Part-23)	260.0	---
27.	Phosphate (as P)	mg/l	IS:3025(Part-31)	BDL(<0.01)	---
28.	Nitrite (as NO ₂)	mg/l	IS:3025(Part-34)	BDL(<0.05)	---
Microbiological Parameters					
29.	Faecal Coliform	MPN/100 ml	IS-1622	Absent	---
30.	Total Coliform	MPN/100ml	IS-1622	110	500

****End of Report****

Notes:

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“गौरा देवी पर्यावरण भवन”

46बी, आई.टी. पार्क, सहस्त्रधारा रोड़, देहरादून

E-mail : msukpcb@yahoo.com, दूरभाष : 0135-2607092

पत्रांक : यूकेपीसीबी / एच.ओ. / सा0-183-615 / 2024 / 1224,

दिनांक 08.01.2024

स्पीड पोस्ट / ई-मेल द्वारा

एन0जी0टी0 मीटर

सेवा में,

अधिकासी अधिकारी
नगर पालिका परिषद
नैनीताल।

विषय:- मा0 एन0जी0टी0 में योजित मूल आवेदन सं0-518/2022 Vivek Verma Vs State of Uttarakhand & Ors. के सम्बन्ध में।

महोदय,

उपरोक्त विषयक मा0 एन0जी0टी0 द्वारा पारित आदेश दिनांक 28.11.2023 का सन्दर्भ ग्रहण करने का कष्ट करें। मा0 एन0जी0टी0 द्वारा अन्य निर्देशों के साथ-साथ निम्नलिखित निर्देश निर्गत किये गये हैं:-

25. In his report, the Amicus Curie has made observations regarding dumping of garbage on the road sides in Nainital. The District Magistrate, Nainital and the Commissioner Municipal Corporation, Nainital are directed to ensure that such garbage dumped on the road sides is removed immediately on regular basis and they are also directed to take requisite steps for setting up of a Control Room and create web-portal on the website of Municipal Corporation, Nainital or District Administration where citizens can make complaints with photos of garbage dumping. Some official may be specially deputed for the purpose of looking into the complaints and informing the concerned officers/officials for taking remedial action. The information regarding action taken on the complaints be conveyed to the concerned complainant and be also uploaded on the website. The District Magistrate, Nainital and the Commissioner Municipal Corporation, Nainital are also directed to consider installation of CCTV cameras, if not already installed and authorize user of CCTV cameras if already installed at places of unauthorized dumping of garbage and CCTV footage may be utilized for imposing appropriate environmental damage compensation on persons dumping garbage at such places. All garbage collection vehicles may be fitted with GPS to monitor door to door collection of solid waste and its transportation to the MRF/processing centers.

26. The District Magistrate, Nainital and the Commissioner Municipal Corporation, Nainital are directed to file Action taken report in this regard within two months through E-filing portal (not through E-mail) in the form of searchable PDF/OCR Support PDF (not in the form of Image PDF).

मा0 एन0जी0टी0 द्वारा पारित आदेश की प्रति इस आशय के साथ प्रेषित है कि कृपया निर्गत निर्देशों का अनुपालन सुनिश्चित करते हुए Action Taken Report ससमय मा0 एन0जी0टी0 में दाखिल करने का कष्ट करें। सुलभ सन्दर्भ हेतु मा0 एन0जी0टी0 द्वारा पारित आदेश की प्रति संलग्न है।

कृपया पर्यावरण (संरक्षण) अधिनियम, 1986 के अन्तर्गत प्रख्यापित ठोस अपशिष्ट प्रबंधन नियम, 2016 के नियम 20 की ओर आपका ध्यान आकृष्ट किया जाता है। नियम-20 के अनुसार:-

20. पर्वतीय क्षेत्रों में ठोस अपशिष्ट प्रबंधन के मानदंड और की जाने वाली कार्रवाईयां:- पर्वतीय क्षेत्रों में स्थानीय प्राधिकरणों के कर्तव्य और दायित्व निम्नलिखित अतिरिक्त खंडों के सहित नियम 15 में उल्लिखित के समान होंगे:-

क्रमशः पृष्ठ-2

01C

(क) पर्वत पर भरण स्थल के संनिर्माण से बचना होगा। प्रसंस्करण सुविधा से अवशिष्ट अपशिष्ट और निष्क्रिय अपशिष्ट का संग्रहण करने के लिए एक उपयुक्त निकटतम अवस्थान पर एक अंतरण स्थान स्थापित किया जाएगा। स्वास्थ्यकर भरण की स्थापना करने के लिए 25 किलोमीटर के भीतर पहाड़ी के नीचे समतल भूमि क्षेत्र में योग्य भूमि का पहचान की जाएगी। अंतरण स्थान से अवशिष्ट अपशिष्ट का निपटान इस स्वास्थ्यकर भरण स्थल पर किया जाएगा।

(ख) ऐसी भूमि उपलब्ध न होने की दशा में निष्क्रिय और अवशिष्ट अपशिष्ट के लिए क्षेत्रीय स्वास्थ्यकर भरण स्थल स्थापित करने के प्रयास किए जाएंगे।

(ग) स्थानीय निकाय उपविधि बनाएगा और नागरिकों को गलियों में अपशिष्ट फेंकने से प्रतिषिद्ध करने तथा पर्यटकों को गलियों में या पहाड़ियों से नीचे न फेंकने किसी अपशिष्ट जैसे कागज, पानी की बोतल, शराब की बोतल, सॉफ्ट ड्रिंक के केन, टेट्रा पैक, अन्य कोई प्लास्टिक या कागज अपशिष्ट के स्थान पर सभी पर्यटक स्थलों पर स्थानीय निकाय द्वारा रखे गए कूड़ेदान में फेंकने के निर्देश देना।

(घ) स्थानीय निकाय द्वारा, पर्वतीय क्षेत्रों का भ्रमण करने वाले सभी पर्यटकों को उपविधियों के अधीन ठोस अपशिष्ट प्रबंधन के उपबंधों को नगर में प्रवेश बिंदु के साथ-साथ होटलों तथा अतिथि गृहों इत्यादि के माध्यम से, जहां वे ठहरते हैं और पर्यटन स्थलों पर उपयुक्त विज्ञापन बोर्ड लगाकर, व्यवस्था करेगा।

(ङ) स्थानीय निकाय ठोस अपशिष्ट प्रबंधन सेवाएं संवहनीय बनाने को प्रवेश द्वार पर पर्यटक से ठोस प्रबंधन प्रभार उदगृहीत कर सकेगा।

(च) भूमि समनुदेशन का प्रभारी विभाग विकेन्द्रीकृत अपशिष्ट प्रसंस्करण सुविधाओं की स्थापना के लिए पर्वतों पर उपयुक्त स्थल की पहचान और आबंटन करेगा। स्थानीय निकाय द्वारा ऐसी सुविधाएं स्थापित की जाएंगी। पर्वतीय स्थान का अनुकूलतम उपयोग करने के लिए सीढ़ी उद्यान प्रणाली को अपनाया जा सकेगा।

अग्रेतर ठोस अपशिष्ट प्रबंधन नियम, 2016 के नियम-15 के अन्तर्गत स्थानीय निकाय क्षेत्र में जनित ठोस अपशिष्ट पदार्थों के समुचित एकत्रीकरण, परिवहन, प्रसंस्करण एवं निस्तारण हेतु स्थानीय निकायों के दायित्व निर्धारित किये गये हैं। कृपया उपरोक्त प्रावधानों का अनुपालन सुनिश्चित करते हुए कृत कार्यवाही से इस कार्यालय को अवगत कराने का कष्ट करें।

संलग्नक: यथोपरि।

भवदीय


(एसओ के० पटनायक)
सदस्य सचिव

पत्रांक : यूकेपीसीबी / एच.ओ. / सा०-183-615 / 2024 / तददिनांकित।

प्रतिलिपि:-

1. जिलाधिकारी, नैनीताल को सूचनार्थ प्रेषित।
2. क्षेत्रीय अधिकारी, उत्तराखण्ड प्रदूषण नियंत्रण बोर्ड, काशीपुर, जिला ऊधमसिंहनगर को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।


सदस्य सचिव

प० २



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481

मुख्यालय
उत्तराखण्ड प्रदूषण नियंत्रण बोर्ड

“गौरा देवी पर्यावरण भवन”

46बी, आई.टी. पार्क, सहस्त्रधारा रोड, देहरादून
E-mail : msukpcb@yahoo.com, दूरभाष : 0135-2607092

पत्रांक : यूकेपीसीबी/एच.ओ./सा0-183-615/2024/1229,

दिनांक 08.01.2024

स्पीड पोस्ट/ई-मेल द्वारा

एन0जी0टी0 मैटर

सेवा में,

श्री ए0 के0 वर्मा
अधिकासी अभियन्ता
उत्तराखण्ड सिंचाई विभाग,
सिंचाई खण्ड, नैनीताल।

विषय:- मा0 एन0जी0टी0 में योजित मूल आवेदन सं0-518/2022 Vivek Verma Vs State of Uttarakhand & Ors. के सम्बन्ध में।

महोदय,

उपरोक्त विषयक मा0 एन0जी0टी0 द्वारा पारित आदेश दिनांक 28.11.2023 का सन्दर्भ ग्रहण करने का कष्ट करें। मा0 एन0जी0टी0 द्वारा नालों के माध्यम से सीवेज आदि का नैनीझील में निस्तारण के सम्बन्ध में आवश्यक निर्देश निर्गत किये गये हैं। सीवेज, ठोस अपशिष्ट आदि नैनीझील एवं अन्य झीलों में निस्तारित न हो, उक्त सम्बन्ध में निम्नलिखित बिन्दुओं पर कार्यवाही अपेक्षित है।

1. नैनीझील तथा अन्य झीलों को प्रदूषण मुक्त रखने हेतु Display Board/Sinage/Wall Painting आदि के माध्यम से जन-जागरूकता की कार्यवाही की जाये।
2. झीलों में नाव यात्रा हेतु खाद्य सामग्री, पानी/पेय पदार्थों की बोतले आदि की अनुमति प्रदान न की जाये तथा झीलों में उक्त के प्रयोग को प्रतिबंधित किया जाये। उल्लंघन की दशा में यात्री/नाव चालक पर अर्थदण्ड आरोपित किया जाये।

आपसे अनुरोध है कि कृपया उपरोक्त बिन्दुओं पर कार्यवाही करते हुए कृत कार्यवाही से इस कार्यालय को अवगत कराने का कष्ट करें। शुभ सन्दर्भ हेतु मा0 एन0जी0टी0 द्वारा पारित आदेश की प्रति संलग्न है।
संलग्नक: यथोपरि।

भवदीय

(एस0 के0 पटनायक)

सदस्य सचिव

पत्रांक : यूकेपीसीबी/एच.ओ./सा0-183-615/2024/ तददिनांकित।

प्रतिलिपि:-

1. जिलाधिकारी, नैनीताल को सूचनार्थ प्रेषित।
2. अधिकासी अधिकारी, नगर पालिका परिषद, नैनीताल को इस अनुरोध के साथ की उपरोक्त बिन्दुओं पर नगर पालिका स्तर से भी कार्यवाही करने का कष्ट करें।
3. क्षेत्रीय अधिकारी, उत्तराखण्ड प्रदूषण नियंत्रण बोर्ड, काशीपुर, जिला ऊधमसिंहनगर को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।

सदस्य सचिव



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मुख्यालय
उत्तराखण्ड प्रदूषण नियंत्रण बोर्ड
"गौरा देवी पर्यावरण भवन"
46बी, आई.टी. पार्क, सहस्त्रधारा रोड़, देहरादून
E-mail : msukpcb@yahoo.com, दूरभाष : 0135-2607092

पत्रांक : यूकेपीसीबी/एच.ओ./सा0-183-615/2024/14.

दिनांक 04.2024

स्पीड पोस्ट/ई-मेल द्वारा

एन0जी0टी0 मैटर
अनुस्मारक-01

सेवा में,

अधिशासी अधिकारी
नगर पालिका परिषद
नैनीताल।

विषय:- मा0 एन0जी0टी0 में योजित मूल आवेदन सं0-518/2022 Vivek Verma Vs State of Uttarakhand & Ors. के सम्बन्ध में।

महोदय,

उपरोक्त विषयक मा0 एन0जी0टी0 में पारित आदेश दिनांक 28.11.2023 के क्रम में इस कार्यालय के पत्र सं0 यूकेपीसीबी/एच.ओ./सा0-183-615/2024/1227 दिनांक 08.01.2024 का सन्दर्भ ग्रहण करने का कष्ट करें (छायाप्रति संलग्न)। प्रकरण पर कृत कार्यवाही की आख्या इस कार्यालय में अप्राप्त है। आपसे पुनः अनुरोध है कि कृपया प्रकरण में कृत कार्यवाही से इस कार्यालय को अवगत कराने का कष्ट करें।

अवगत हों कि विषयगत प्रकरण में दिनांक 20.02.2024 को मा0 एन0जी0टी0 द्वारा amicus curie द्वारा सुझाये गये बिन्दुओं पर Response दाखिल किये जाने हेतु निर्देशित किया गया है। अतः प्रकरण में प्राथमिकता के आधार पर कार्यवाही अपेक्षित है। कृपया प्रकरण में कृत कार्यवाही की आख्या ई-मेल (rskathiat2009@gmail.com) के माध्यम से भी प्रेषित करने का कष्ट करें।

प्रकरण की महत्ता के दृष्टिगत आपका व्यक्तिगत ध्यानाकर्षण अपेक्षित है।

संलग्नक: यथोपरि।

भवदीय


(डा0 पराग मधुकर धकाते)
सदस्य सचिव

पत्रांक : यूकेपीसीबी/एच.ओ./सा0-183-615/2024/ तददिनांकित।

07C L

प्रतिलिपि:-

1. जिलाधिकारी, नैनीताल को सूचनार्थ प्रेषित।
2. क्षेत्रीय अधिकारी, उत्तराखण्ड प्रदूषण नियंत्रण बोर्ड, हल्द्वानी, जिला नैनीताल को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।


सदस्य सचिव

07C L



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मुख्यालय
उत्तराखण्ड प्रदूषण नियंत्रण बोर्ड
"गौरा देवी पर्यावरण भवन"
46बी, आई.टी. पार्क, सहस्त्रधारा रोड़, देहरादून
E-mail : msukpcb@yahoo.com, दूरभाष : 0135-2607092

पत्रांक : यूकेपीसीबी/एच.ओ./सा0-183-615/2024/15,
स्पीड पोस्ट/ई-मेल द्वारा

दिनांक 04.04.2024

एन0जी0टी0 मैटर
अनुस्मारक-01

सेवा में,

श्री ए0 के0 वर्मा
अधिकासी अभियन्ता
उत्तराखण्ड सिंचाई विभाग,
सिंचाई खण्ड, नैनीताल।

विषय:- मा0 एन0जी0टी0 में योजित मूल आवेदन सं0-518/2022 Vivek Verma Vs State of Uttarakhand
& Ors. के सम्बन्ध में।

महोदय,

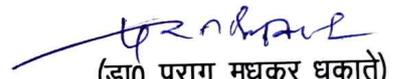
उपरोक्त विषयक मा0 एन0जी0टी0 में पारित आदेश दिनांक 28.11.2023 के क्रम में इस कार्यालय के पत्र सं0 यूकेपीसीबी/एच.ओ./सा0-183-615/2024/1229 दिनांक 08.01.2024 का सन्दर्भ ग्रहण करने का कष्ट करें (छायाप्रति संलग्न)। प्रकरण पर कृत कार्यवाही की आख्या इस कार्यालय में अप्राप्त है। आपसे पुनः अनुरोध है कि कृपया प्रकरण में कृत कार्यवाही से इस कार्यालय को अवगत कराने का कष्ट करें।

अवगत हों कि विषयगत प्रकरण में दिनांक 20.02.2024 को मा0 एन0जी0टी0 द्वारा amicus curie द्वारा सुझाये गये बिन्दुओं पर Response दाखिल किये जाने हेतु निर्देशित किया गया है। अतः प्रकरण में प्राथमिकता के आधार पर कार्यवाही अपेक्षित है। कृपया प्रकरण में कृत कार्यवाही की आख्या ई-मेल (rskathiat2009@gmail.com) के माध्यम से भी प्रेषित करने का कष्ट करें।

प्रकरण की महत्ता के दृष्टिगत आपका व्यक्तिगत ध्यानाकर्षण अपेक्षित है।

संलग्नक: यथोपरि।

भवदीय


(डा0 पराग मधुकर घकाते)
सदस्य सचिव

पत्रांक : यूकेपीसीबी/एच.ओ./सा0-183-615/2024/ तददिनांकित।

07/04/24

प्रतिलिपि:-

1. जिलाधिकारी, नैनीताल को सूचनार्थ प्रेषित।
2. अधिकासी अधिकारी, नगर पालिका परिषद, नैनीताल को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।
3. क्षेत्रीय अधिकारी, उत्तराखण्ड प्रदूषण नियंत्रण बोर्ड, हल्द्वानी जिला नैनीताल को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।


सदस्य सचिव

07/04/24