

IN THE HON'BLE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH AT NEW DELHI

O.A No.- 728/2023

IN THE MATTER OF:-

IN RE: NEWS ITEM APPEARING IN HINDUSTAN DATED
30.11.2023 TITLED "ARSENIC FOUND IN GROUND
WATER IN 25 STATES, FLUORIDE IN 27 STATES.
GOVT."

... PETITIONER

VERSUS

STATE OF ANDHRA PRADESH & ORS.

... RESPONDENTS

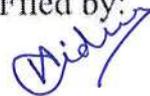
INDEX

S NO.	PARTICULARS	PAGE NO.
1.	COMPLIANCE REPORT AS PER ORDER DATED 20.12.2023 BY WAY OF AFFIDAVIT ON BEHALF OF THE RESPONDENT NO. 22	1-9
2.	ANNEXURE R-1 ORDER DT. 20.12.2023 OF THIS HON'BLE TRIBUNAL	10-21
3.	ANNEXURE R-2	22-24

	MINUTES OF MEETINGS DATED 08.01.2024	
4.	ANNEXURE R-3 LOCATION OF CONTAMINATION SOURCES	25-27
5.	ANNEXURE R-4 LAB REPORTS OF UTTARAKHAND JAL SANSTHAN	28-82
6.	ANNEXURE R-5 LAB REPORTS OF UTTARAKHAND JAL NIGAM	83-102
7.	ANNEXURE R-6 STATUS REPORT OF IDENTIFIED LOCATIONS OF CONTAMINATION	103-109
8.	ANNEXURE R-7 REPORTS OF UTTARAKHAND POLLUTION CONTROL BOARD	110-132

New Delhi
Dated: 14/2/24

Filed by:



(Nidhi Banga)

Senior Panel Counsel

Counsel for the Respondent No. 22

M-132, FF, GK-II,

New Delhi-110048

Mob. No. 9999221769

e-mail: nblawfirm@yahoo.com

IN THE HON'BLE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH AT NEW DELHI

O.A No.- 728/2023



IN THE MATTER OF:-

**IN RE: NEWS ITEM APPEARING IN HINDUSTAN DATED
30.11.2023 TITLED "ARSENIC FOUND IN GROUND
WATER IN 25 STATES, FLUORIDE IN 27 STATES.
GOVT."**

... PETITIONER

VERSUS

STATE OF ANDHRA PRADESH & ORS.

... RESPONDENTS

**COMPLIANCE REPORT AS PER ORDER DATED
20.12.2023 BY WAY OF AFFIDAVIT ON BEHALF OF THE
RESPONDENT NO. 22**

I, Arvind Singh Hyanki, aged 59 years, working as Secretary,
Department of Drinking water & Sanitation, Govt. of Uttarakhand
having office at Secretariat, Dehradun, Uttarakhand do hereby
solemnly affirm and declare as under:-

1. That I am working as Secretary, Department of
Drinking water & Sanitation, Govt. of Uttarakhand.



(Handwritten signature)

That in my above-mentioned official capacity, I am acquainted with the facts and circumstances of the present matter based on record and information made available by the concerned departments, as such I am competent to file the present compliance affidavit on behalf of the respondent no. 22 i.e State of Uttarakhand in the above-mentioned matter.

2. That with reference to the Original Application no. 728/2023 with regard to Arsenic and fluoride contamination, this Hon'ble Tribunal was pleased to pass the order dt. 20.12.2023 and also issue certain directions. That after hearing the matter on 20.12.2023, this Hon'ble Tribunal was pleased to pass the directions in relation to the State of Uttarakhand. Order dt. 20.12.2023 of the Hon'ble Tribunal is annexed herewith as **Annexure R-1**.
3. That para 3 and 4 of the order dt. 20.12.2023 observes with regards to arsenic and fluoride levels in the state of Uttarakhand:

Table-1: Districts having Arsenic >0.01 mg/L, in Ground Water in Different States of India

S. No	State	Parts of Districts having As> 10 ppb (0.01 mg/l)	No of Districts
22	Uttarakhand	Dehradun, Udham Singh Nagar, Haridwar, Almora, Uttarakashi	5



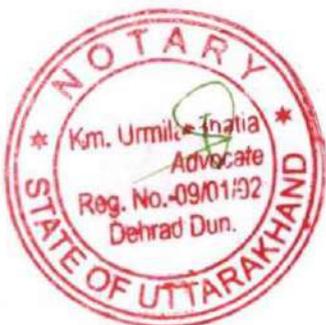
[Handwritten signature]

Table-2: Districts having localized occurrence of fluoride >1.5 mg/L, in Ground Water in India

S. No	State	Parts of Districts having Fluoride > 1.5 mg/L	No of Districts
25	Uttarakhand	Uttarakashi	1

4. That in para 6 of order dt. 20.12.2023 the Hon'ble tribunal observes: *"We may also notice at this stage that the problem of contamination of ground water due to arsenic in the context of certain Districts of State of UP and some other States like Assam, Bihar, Jharkhand, Karnataka, Punjab and West Bengal was considered by this Tribunal in O.A. No. 384/2019, Mrs. Sunita Pandey & Anr. vs. Union of India & Ors. & while disposing of the matter finally vide judgment dated 01.02.2021, the Tribunal directed as under:-*

"16. In view of the above, let further steps in the matter be taken by the concerned States which may be monitored by the MoJS at the National level and by the Chief Secretaries of the concerned States, particularly in West Bengal and Punjab. The Chief Secretary, UP may sort out inter-departmental responsibilities and ensure compliance with regard to dismantling of hand pumps in arsenic effected habitations, along with action on other recommendations of the Oversight Committee. The



b

CGWA, the CPCB and concerned State PCBs/PCCs may monitor water quality in the affected areas and compile the relevant data and place on a common portal for future reference and remedial action.

Due attention may be given to cover other geogenic contaminants like fluoride, nitrate and other contaminants harmful to human and animal health as well as for irrigation. CPCB and SPCBs/PCCs may give emphasis to remediate identified contaminated sites having potential threats to groundwater contamination as directed vide order dated 29.01.2021 in OA No. 804/2018, Rajive Narayan & Anr. vs. Union of India & Ors.

MoJS may, in contaminated areas where there is geogenic contamination, explore possibility of rain water harvesting systems for recharging and dilution of the contaminated water and also avoid in excessive abstraction of groundwater, so that building of contaminants does not take place”.

REPORT BY STATE OF UTTARAKHAND:

1. That in compliance with the aforesaid observations by Hon'ble NGT, a meeting was conducted by Secretary, Department of Drinking Water on dated 08-01-2024, with various stakeholders such as Uttarakhand Jal Nigam, Uttarakhand Jal Sansthan, Pollution Control Board of State and others and concerned departments were directed to take



A handwritten signature in blue ink, appearing to be "Dk".

necessary actions in this regard. Minutes of meetings dated 08.01.2024 is annexed herewith as **Annexure R-2**.

2. That the locations of contaminated sources (arsenic & fluoride contamination) available with CGWB was shared to the departments with suggestive remedial measures. A copy of Location of contaminated sources is annexed herewith as **Annexure R-3**.
3. That as suggested by the CGWB the following remedial measures may be taken to sort out Arsenic/fluoride contamination in ground water.
 - (i) The first and foremost task is to identify the handpump, tubewell and other ground water abstraction structure where Arsenic/ fluoride concentration is above the maximum permissible limit defined by BIS (IS 10500 - 91). Arsenic field-testing kit could prove to a very useful instrument to commence the detailed investigations in these areas.
 - (ii) Certain hand pumps/TWs yielding water with higher Arsenic/ fluoride concentration may be demarcated like being painted red etc. These markings would indicate that these pumps are not fit to be used for catering to human needs.
 - (iii) Many low-cost filters using activated alumina working on principle of adsorption- ion exchange may be used to provide safe drinking water to people.
 - (iv) Arsenic contamination in ground water is generally limited to shallow aquifer. It is suggested that



tubewell may be constructed tapping deeper aquifer with cement sealing.

4. That the Implementing Agencies have taken note of the remedial measures suggested by CGWB above. The status regarding the arsenic and fluoride contamination in the State of Uttarakhand is as under: -

- (i) As per the report of CGWB, Arsenic contamination has been found in 34 locations spread over five districts as mentioned in Table-1 above. It is also reported that there were 03 spring sources and 31 handpumps affected by arsenic.
- (ii) It is submitted that all these locations have been covered with piped water supply (PWS) facilities under Jal Jeevan Mission and other programs of Govt. of India as well as the State. The Water Quality has been ensured as per BIS 10500, regular quality monitoring is being done at sources and delivery points through NABL accredited labs of Uttarakhand Jal Sansthan.
- (iii) As per table-2 quoted above only one spring source at Gangnani, (Hot spring of Uttarkashi district) has been found to have a fluoride concentration more than 1.5 mg/l but it is not being used for drinking purposes. Advisory in this regard through Sign boards/wall painting etc. has been issued by the concerned department (Reports of Uttarakhand Jal Sansthan is Annexed as **Annexure R-4**) and the local people have been advised not to use this water for



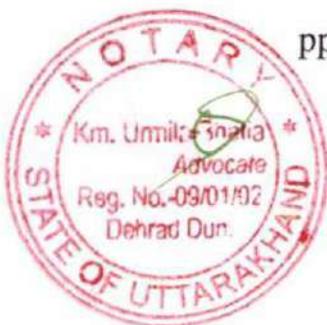
drinking purposes. Safe drinking water has been ensured at this place through Piped water supply facility.

- (iv) As far as Drinking water in the State is concerned, all the sources under Jal Jeevan Mission have been tested as per protocol mentioned in the operational guidelines of Jal Jeevan Mission. They have been found to be safe for Drinking as per BIS 10500.
5. That similarly, drinking water facility in urban and semi urban area is also being regularly monitored even at delivery points. The sources have been found safe as per lab reports available with Uttarakhand Jal Sansthan and Uttarakhand Jal Nigam (reports annexed herewith as **Annexure R-4 & Annexure R-5** respectively).
6. That it is further submitted that Arsenic contamination is in shallow aquifer only as per CGWB report for Uttarakhand, whereas deep bored tubewells have been constructed to supply drinking water in these locations. Further, these PWS sources in deeper strata have been found to be safe for drinking purposes. However, resampling at regular intervals for water quality monitoring at these sources shall be done in future to ensure safe drinking water.
7. That it is also submitted that the mentioned locations of contamination in report of CGWB have been revisited by implementing agencies i.e Uttarakhand Jal Nigam and Uttarakhand Jal Sansthan. Samples from all 31 Hand pump sources mentioned in the report are being tested again as a



confirmatory measure. The status report for these identified locations is annexed herewith as **Annexure R-6**.

8. That many handpumps which have been found to be contaminated, have already been abandoned by the departments. Direction has been issued to the departments to abandon those handpumps which show contamination in water quality monitoring in due course. Local people are being advised to use the PWS facility only, available in their locations and not to use those handpumps which have been found to be contaminated in testing reports.
9. That finally it is reiterated that as per the reports made available by different agencies working in water sector, all the schemes with PWS facilities in the rural as well as urban area are safe for drinking. Further, precautionary measures such as regular testing of water samples is being adopted by the concerned departments.
10. That in compliance with the observation of Hon'ble NGT in para no. 6 of order dt. 20.12.2023, it is further submitted that water quality testing reports for various locations are already uploaded on WQMIS (Water Quality Management Information System) portal of Jal Jeevan Mission, Ministry of Jal Shakti (GOI) and it is in public domain.
11. That it is further added that there is no excessive extraction of ground water in the state as per CGWB report which may lead to any such contamination like arsenic and fluoride.
12. That 3 springs located in the districts of Almora, Uttarkashi and Dehradun having, arsenic contamination more than 10 ppb as mentioned in CGWB report, are not in use for



drinking purposes. However, an Advisory in this regard through Sign boards/wall painting etc. has been issued by the concerned department (Reports of Uttarakhand Jal sansthan annexed as Annexure R-4) and the local people have been advised not to use this water for drinking purposes. Safe drinking water has been ensured at this place through Piped water supply (PWS) facility.

13. That it is further submitted that detailed reports containing the location of the sources, the presence of contaminants, etc. have been annexed herewith as Annexure R-4 (Uttarakhand Jal Sansthan), Annexure R-5 (Uttarakhand Jal Nigam) & Annexure R-7 (Uttarakhand Pollution Control Board). Uttarakhand Pollution Control Board also monitors the water quality and no contamination has been reported as per Annexure R-7.


Deponent

VERIFICATION

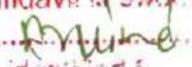
Verified at New Delhi on this day of 13/02/2024 that the contents of the above Affidavit are true and correct to my knowledge and belief, as per the official record.

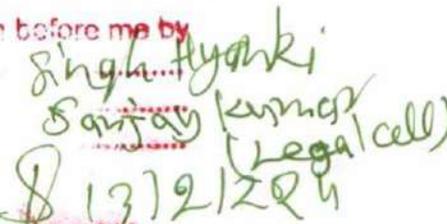

Deponent

Identified by


(SANJAY KUMAR)
Legal Cell
Uttarakhand Jal Sansthan
Dehradun.



This affidavit is sworn before me by
Shri. 
Who is identified by
at Dehradun.


13/2/2024
KM. URMILASHATIA
Advocate & NOTARY, Dehradun

ANNEXURE R-1

Item No. 16

Court No. 2

**BEFORE THE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI**

Original Application No. 728/2023

In re: News item appearing in Hindustan dated 30.11.2023 titled "Arsenic found in groundwater in 25 States, fluoride in 27 States: Govt."

Date of hearing: 20.12.2023

**CORAM: HON'BLE MR. JUSTICE SUDHIR AGARWAL, JUDICIAL MEMBER
HON'BLE DR. A. SENTHIL VEL, EXPERT MEMBER**

Respondent: Mr. Gigi. C. George, Adv. for CGWA

ORDER

1. This original application under Section 14 and 15 of National Green Tribunal Act, 2010 (hereinafter referred to as '**NGT Act, 2010**') has been registered by exercising *suo moto* jurisdiction based on the newspaper report published in Business Standard under the heading "Arsenic found in groundwater in 25 States, fluoride in 27 States: Govt.". The report says that Arsenic has been detected in ground water in parts of 230 Districts and 25 States and fluoride in 469 Districts and 27 States and statement to this effect was made by Union Minister of State for Jal Shakti and Rajya Sabha. It is also stated that ground water contamination reported by Central Ground Water Board (hereinafter referred to as '**CGWB**') is mostly geogenic in nature and does not show significant change over the years. The newspaper item states that studies indicate occurrence of arsenic and fluoride in ground water beyond permissible limits set by the Bureau of Indian Standards for human consumption in isolated pockets of various States and Union Territories.

2. On the advance notice issued to Central Ground Water Authority (hereinafter referred to as '**CGWA**'), it has submitted its report dated

18.12.2023 wherein presence of arsenic in various Districts and 25 States and fluoride in various Districts and 27 States is admitted. It is also admitted that both the chemicals/metals have very serious toxic effects on human body and health and cause health hazards. Relevant extracts from the report is reproduced as under:-

“2. Monitoring and Studies on Ground Water Quality By CGWB

Water being State subject, study on ground water quality and making available safe water to public falls under States' mandate. Being the apex organization for ground water, Central Ground Water Board (CGWB) generates ground water quality data on a regional scale during various scientific studies and ground water quality monitoring throughout the country. The periodic monitoring of water quality is done by CGWB once in every year during the pre-monsoon season in which water samples are collected from about 17500 water quality monitoring stations of CGWB spread over the country and chemical analysis is carried out. The water quality monitoring stations comprise of various sources of ground water viz. dugwells, borewells, tubewells, piezometers and springs etc. CGWB has 16 chemical laboratories in different states of the country for water sample analysis, out of which 10 laboratories are NA131, accredited. The total number of samples analysed in these chemical laboratories are in the range of 27500-32500 annually. The laboratories of CGWB analyse the ground water samples for 15 major chemical parameters which include (pH, EC, Ca, Mg, TII, Na, K., F, CO₃, HCO₃, SO₄, Cl, NO₃, SiO₂, PO₄) and heavy/trace elements (Fe, Mn, Cu, Zn, Cd, Cr, Pb, As & U) on need basis.

Apart from routine regional scale ground water quality monitoring CGWB has also taken up various studies on ground water quality and contamination of ground water as mentioned below:

- *Under the National Aquifer Mapping Programme (NAQUIM) of CGWB, special attention is being given to the aspect of ground water quality including contamination by toxic substances such as Arsenic (As) and Fluoride (F) in ground water.*
- *CGWB along with National Institute of Hydrology (NIH-1) prepared a report on " Mitigation and Remedy of Ground Water menace in India: A Vision Document" in 2010.*
- *The study on identification of Arsenic hotspots throughout the country has been started from 2015 by CGWB. Since then, periodic monitoring of As is being done in the identified hot spot states.*
- *An MoU was signed between CGWB & GSI on 05-01-2022 for five years. Study on Uranium, Lead, Arsenic, Fluoride and Mercury*

contamination of Ground Water the parts of Punjab, Haryana, Andhra Pradesh, Uttar Pradesh, Bihar, Chhattisgarh, Jharkhand and Assam will be taken up. The studies taken up regarding Arsenic and Fluoride contamination are as follows:

- Study on Uranium, Lead, Arsenic, Fluoride and Mercury Contamination of Ground Water in the industrial area of North Guwahati, Kamrup, Assam.
- Reassessment of Arsenic contamination in Patna & I3hojpur District, Bihar.
- Tracing the source of Uranium in ground water resources of Biharsarif and Roh block in Nawada district of Bihar.
- Geo-environmental appraisal of Fluoride contamination and assessment of toxic heavy metals in I3agbahara area, Mahasamund district, Chhattisgarh.
- Assessment of fluoride contamination in surface and groundwater and its management in Jharkhand.
- Study on Uranium, Fluoride contamination of Ground Water in Mathura, Hathras and Aligarh Districts, Uttar Pradesh.

3. Arsenic (As) contamination of Ground Water in India

Arsenic is a naturally occurring trace element found in rocks, soils and the water in contact with them. Arsenic has been recognized as a toxic element and is considered a human health hazard. The maximum permissible limit of Arsenic for drinking purpose is 0.01 mg/L (or 10 ppb) as per I3IS (Bureau of Indian Standards) Drinking Water Standards (IS 10500:2012). The BIS permissible limit of Arsenic was revised from 0.05 mg/L (50 ppb) to 0.01 mg/L (10 ppb) in the year 2015.

Arsenic hotspots of India

The occurrence of Arsenic in ground water was first reported in 1980 in West Bengal in India. Occurrence of Arsenic in groundwater, in excess to the permissible limit of 10 ppb in the Ganges-Brahmaputra fluvial plains in India covering seven states namely. West-Bengal, Jharkhand, Bihar, Uttar Pradesh in flood plain of Ganga River; Assam and Manipur in flood plain of I3rahamaputra and Imphal rivers and Rajnandgaon in Chhattisgarh. The most affected areas are on the eastern side of Bhagirathi River in the districts of Malda, Murshidabad, Nadia, North 24 Parganas and South 24 Parganas and western side of the districts of Howrah, Hugli and Bardhaman. The occurrence of Arsenic in the states of Bihar, West Bengal and Uttar Pradesh is in alluvial formations. The occurrence of Arsenic in ground water is mainly in the aquifers upto 100 m depth. The deeper aquifers are free from Arsenic contamination. In the state of Chhattisgarh, it is in the volcanic rocks exclusively confined to N-S trending Dongargarh-Kotri ancient rift zone. It has also been reported in Golaghat, Jorhat, Lakhimpur, Nagaon, Nalbari, Sibsagar, Sonitpur district of Assam.

Central Ground Water Board is in the process of continuously updating its database on the locations of Arsenic contamination

based on its annual quality data. The number of district included in the list has increased since the permissible limit was revised from 50 ppb to 10 ppb by BIS in 2015. The state-wise districts where cases of Arsenic > 0.01 mg/l, have been recorded in ground water are given in Table-1.

Table-1: Districts having Arsenic >0.01 mg/L, in Ground Water in Different States of India

Sl. No.	State	Parts of Districts having As > 10 ppb (0.01 mg/l)	No of Districts
1.	Andhra Pradesh	Ananthapur, Last Godavari, Guntur, Krishna, Kurnool, Nellore, Prakasam	7
2.	Assam	Baksha, Barpeta, Bongaigaon, Cachar, Darrang, Dhemaji, Dibrugarh, Dhubri, Goalpara, Golaghat, Hailakandi, Jorhat, Kamrup, Karimganj, Lakhimpur, Morigaon, Nagaon, Nalbari, Sivsagar, Sonitpur, Biswanth	21
3.	Bihar	Araria, Begusarai, Bhagalpur, Bhojpur, Buxar, Darbhanga, Katihar, Khagaria, Kishanganj, Lakhisarai, Munger, Patna, Purnea, Samastipur, Saran, Vaishali, E.Champaran, Gopalganj, Sheohar, Supaul, Madhepura, Muzaffarpur, Saharsa, Siwan, W. Champaran, Sitamarhi, Madhubani.	27
4.	Chhattisgarh	Rajnandgon, Raipur, Raigarh, Koriya	4
5.	Delhi	East Delhi, North East Delhi, South east Delhi, Central, Nazul Land	5
6.	Gujarat	Amreli, Anand, Bharuch, Bhavnagar, Dahod, Gandhinagar, Kachchh, Mehesana, Patan, Rajkot, Surendranagar, Vadodara	12
7.	Haryana	Ambala, Bhiwani, Faridabad, Fatehabad, Jhissar, Jhajjar, Jind, Karnal, Panipat, Rohtak, Sirsa, Sonapat, Yamunanagar, Mahendergarh, Palwal, Panchkula, Rewari, Kaithal	18
8.	Himachal Pradesh	Kangra	1
9.	Jammu & Kashmir	Jammu, Kathua, Rajouri	3
10.	Jharkhand	Sahebganj, Lohardaga, Godda, Dhanbad	4
11.	Karnataka	Raichur, Gadag, Yadgir	3
12.	Kerala	Kollam	1
13.	Madhya Pradesh	Betul, Burhanpur, Chhindwara, Dhar, Khandwa, Mandsaur, Morena, Neemuch, Umariya	9
14.	Manipur	Bishnupur, Thoubal	2
15.	Odisha	Bhadrak, Gajapati, Ganjam, Jagatsinghpur, Kendrapara	5
16.	Punjab	Mansa, Amritsar, Bhatinda, Fazilka, Ferozpur, Gurdaspur,	17

		Hoshiarpur, Kapurthala, Ropar, Faridkot, Nawashahar, Sangrur, TaranTaran, SAS Nagar, Pathankot, Patiala, Chandigarh	
17.	Rajasthan	Ganganagar, Pali, Bikaner, Banswara, Bhilwara, Churu, Hanumangarh, Jodhpur, Sirohi, Tonk.	10
18.	Tamil Nadu	Ariyalur, Perambalur, Dindigul, Cuddalore, Nagapattinam, Ramnathapuram, Tiruvallur, Tirunetveli, Thiruvarur, Trichchirappalli, Tuticorin, Sivaganga, Chennai, Dharmapuri	14
19.	Telangana	Nalgonda	1
20.	Tripura	North Tripura, Gomati and South Tripura	3
21.	Uttar Pradesh	Bahraich, Balia, Balrampur, Bareilly, Basti, Bijnor, Chandauli, Ghazipur, Gonda, Gorakhpur, LakhimpurKheri, Meerut, Mirzapur, Moradabad, Rai Bareilly, SantKabirNagar, Shajahanpur, Siddaithnagar, SantRavidas Nagar, Unnao, Azamgarh, Rampur, Badaun, Deoria, Jhansi, Kausambi., Kushinagar, Pilibhit, Banda, Sitapur, HardoiMuzaffarnagar, Sultanpur, Faizabad, Pratapgarh, Maunath Bhanjan, Barabanki, Maharajgang, Nagar, Ayodhya, Bulandsahr, Firozabad, Farrukhabad, Hapur, Kannauj	45
22.	Uttarakhand	Dehradun, Udham Singh Nagar, Haridwar, Almora, Uttarkashi	5
23.	West Bengal	Purba Bardhaman, Dakshin Dinajpur, Hooghly, Howrah, Malda, Murshidabad, Nadia, N-24 Parganas, S- 24 Parganas, Coochbehar, Uttar Dinajpur	11
24.	Daman & Diu	Diu	1
25.	Puducherry	Pondicherry	1
	Total	25 States/UTs	230 Districts

Thus there are 230 districts in 25 states/UTs across the country where instances of one or more Arsenic contamination have been detected.

4. Fluoride (F) contamination of Ground Water in India

Fluorine is the most electronegative and reactive of all elements that occur naturally within many types of rock. It exists in the form of fluorides in a number of minerals of which fluorspar, cryolite, fluorite and fluorapatite are the most common. The fluoride found in groundwater is naturally occurring from the breakdown of rocks and soils or weathering and deposition of atmospheric particles. Most of the fluorides are sparingly soluble and are present in ground water in small amounts.

It is well known that small amounts of fluoride (less than 1.0 mg/L) have proven to be beneficial in reducing tooth decay. Community water supplies commonly are treated with NO or fluorosilicates to maintain fluoride levels ranging from 0.8 to 1.2 mg/L, to reduce the incidence of dental caries. However, high concentrations such as 1.5 mg/L and above have resulted in staining of tooth enamel while at still higher levels of fluoride ranging between 5.0 and 10 mg/L, further pathological changes such as stiffness of the back and difficulty in performing natural movements may take place.

BIS has recommended an upper desirable limit of 1.0 mg/L of fluoride in drinking water, which can be extended to 1.5 mg/L of fluoride in case no alternative source of water is available. Water with concentration of fluoride more than 1.5 mg/L, are not suitable for drinking purposes.

The fluoride content in groundwater from observation wells in a major part of the country is found to be less than 1.0 mg/L. The distribution of ground water samples with fluoride concentration more than 1.5 mg/L at several locations in the States of Andhra Pradesh, Gujarat, Karnataka, Madhya Pradesh, Rajasthan, Chhattisgarh, Haryana, Orissa, Punjab, Tamil Nadu, Kerala, Telangana, Haryana, Uttar Pradesh West Bengal, Bihar, Delhi, Jharkhand, Maharashtra, and Assam West Bengal where the fluoride in ground water exceeds 1.5 mg/L. The state-wise districts where instances of Arsenic > 0.01 mg/L in ground water have been recorded are given in **Table-2**.

Table-2: Districts having localized occurrence of Fluoride (>1.5mg/L) in groundwater in India

Sl. No	State	Parts of Districts having Fluoride (>1.5mg/L)	No of Districts
1.	Andhra Pradesh	Alluri Sitharama Raju, Ananthapur, Annamayya, Bapatla, Chittoor, Guntur, Krishna, Kurnool, NTR District, Palnadu, Prakasam, Sirkakulam, SPS Nellore, Sri Balaji Dist, Sri Satyasai District, Visakhapatnam, Vizianagaram, West-Godavari, YSR, Kadapa.	19
2.	Assam	Bangiagaon, Cachar, Dhubri, Dibrugarh, Goalpara, Hailakandi, Kamrup, Karbi Anglong, Lakhimpur, Nagaon, Golaghat, Karimganj, Sivasagar, Jorhat, Sonitpur, Morigaon, Darrang	17
3.	Bihar	Aurangabad, Banka, Bhagalpur, Gaya, Jamui, Kaimur (Bhabua), Munger, Nawada, Rohtas, Jahanabad, Lakhisarai, Sheikhpura, Nalanda, Saharsa, Supaul, Samastipur, Sheikhpura, Nalanda, Muzaffarpur	19
4.	Chhattisgarh	Bastar, Balod, Balrampur, Bemetra, Bijapur, Durg, Kanker, Kondagaon, Korba, Koriya, Raigarh, Surajpur, Surguja, Jashpur, Dhamtari, Mahasamund, Rajnandgaon, Bilaspur, Raipur, Mungeli, Janjgir - Champa, Raigarh, Gariyabandh	23
5.	Delhi	East Delhi, New Delhi, North West Delhi, Central, South Delhi, South West Delhi, North Delhi, West Delhi	8
6.	Gujarat	Ahmedabad, Amreli, Anand, Aravalli, Banaskantha, Bharuch, Bhavnagar, Chota Udaipur, Dahod, Gandhinagar, Jamnagar, Junagadh, Kachchh, Kheda, Mehesana, Panchmahals, Patan, Porbandar,	30

		<i>Rajkot, Sabarkantha, Surendranagar, Vadodara, Naysari, Surat, Val sad, Botad, Morvi, Dev Bhumi Dwarka, Gir Somnath, Mahisagar</i>	
7.	<i>Haryana</i>	<i>Ambala, Bhiwani, Fatehabad, Faridabad, Gurgaon, Hissar, Jhajjar, Jind, Kaithal, Karnal, Kurukshetra, Mahendergarh, Panchkula, Palwal, Panipat, Rewari, Rohtak, Sirsa, Sonapat, Yamuna Nagar, Mcwat</i>	21
8.	<i>Himachal Pradesh</i>	<i>Sirmour, Una</i>	2
9.	<i>Jammu & Kashmir</i>	<i>Jammu, Kathua, Udhampur, Samba</i>	4
10.	<i>Jharkhand</i>	<i>Bokaro, Chatra, Deoghar, Dhanbad, Garhwa, Giridih, Godda, Gumla, Jamtara, Koderma, Pakur, Palamu, Ramgarh, Ranchi, Sahebganj, Khunti, Latchar</i>	17
11.	<i>Karnataka</i>	<i>Bagalkot, Bangalore-Rural, Bangalore-Urban, Belgaum, Bellary, Bidar, Bijapur, Chikaballapur Chamarajanagar, Chikmagalur, Chitradurga, Davanagere, Dharwad, Dakshina Kannada, Gadag, Gulburga, Hassan, Haveri, Kolar, Koppal, Mandya, Mysore, Raichur, Ramnagara, Shimoga, Tumkur, Yadgir, Uttara Kannada, Udupi, Kodagu, Vijayanagara</i>	31
12.	<i>Kerala</i>	<i>Palakkad, Alappuzha, Idukki, Ernakulum, Thiruvananthpuram, Malappuram</i>	6
13.	<i>Madhya Pradesh</i>	<i>Alirajpur, Balaghat, Barwani, Betul, Bhind, Bhopal, Chhatarpur, Chhindwara, Datia, Dewas, Dhar, Dindori, Guna, Gwalior, Harda, Jabalpur, Jhabua, Khargon, Mandla, Mandsaur, Morena, Narsinhpur, Neemuch, Panna, Raisen, Rajgarh, Ratlam, Sagar, Satna, Schore, Sconi, Shandol, Shajapur, Sheopur, Sidhi, Shivpuri, Singrauli, tJajain, Vidisha, Anuppur, Indore, Khandwa, Tikkamgarh, Umaria</i>	44
14.	<i>Maharashtra</i>	<i>Ahmednagar, Amravati, Beed, Chandrapur, Bhandara, Dhule, Gadchiroli, Gondia, Jalna, Nagpur, Nanded, Parbhani, Ratnagiri, Sangli, Satara, Sindhudurg, Solapur, Wardha, Washim, Yavatmal, Hingoli, Nandurbar</i>	22
15.	<i>Manipur</i>	<i>Thoubal</i>	1
16.	<i>Meghalaya</i>	<i>East Jaintia, West Garo Hills, Ri Bhoi, North Garo Hillls, Khowai.</i>	5
17.	<i>Nagaland</i>	<i>Dimapur, Phek, Kohima</i>	3
18.	<i>Odisha</i>	<i>Angul, Balasore, Bhadrak, Bargarh, Bolangir, Boudh, Cuttack, Deogarh, Dhenkanal, Jajpur, Kandhamal, Kconjhar, Khurda, Mayurbhanj, Nayagarh, Nuapada, Ganjam, Jagatsinghpur, Kalahandi, Koraput, Puri, Rayagada, Sambalpur, Sonapur, Sundargarh, Gajapati</i>	26
19.	<i>Punjab</i>	<i>Amritsar, Barnala, Bhatinda, Fazilka, Faridkot, Fatehgarh Sahib, Firozpur, Gurdaspur, Jalandhar, Ludhiana, Mansa, Moga, Muktsar, Pathankot, Patiala, Ropar, Sangrur, SAS Nagar (Mohali), Tarn-Taran</i>	19
20.	<i>Rajasthan</i>	<i>Ajmer, Alwar, Banswara, Bartner, Bharatpur, Baran, Bhilwara, Bikaner, Bundi, Chittaurgarh, Churu, Dausa, Dhaulpur, Dungarpur, Ganganagar, Hanumangarh, Jaipur, Jaisalmer, Jalore, Jhalawar Jhunjhunu, Jodhpur, Karauli, Kota, Nagaur, Pali, Pratapgarh, Rajsamand, Sirohi, Sikar, Sawai Madhopur, Tank, Udaipur</i>	33
21.	<i>Tamil Nadu</i>	<i>Coimbatore, Dharmapuri, Dindigul, Erode, Karur, Kancheepuram, Krishnagiri, Namakkal, Madurai, Puddukotai, Ramanathanpuram, Salem, Sivagangai, Theni, Thiruvannamalai, Tiruchirapally, Thirunelveli, Tirupur, Veilore, Cuddalore, Perambalur, Thanjavur, Thiruvarur, Tuticorin, Virudhunagar, Tiruvallur, Madurai,</i>	30

		Chennai, Kanyakumari,	
22.	Telangana	Adilabad, Bhadrachari, Hanamkonda, Hyderabad, Jagtial, Jangaon, Karimnagar, Khammam, Komarambhem, Mahabubabad, Mahabubnagar, Mancherial, Medak, Medchal, Mulugu, Nagarkurnool, Nalgonda, Narayanpur, Nirmal, Nizamabad, Peddapalle, Rajanna, Rangareddy, Sangareddy, Siddipet, Suryapet, Vikarabad, Warangal, Yadadri.	29
23.	Tripura	Unakoti, Khowai and North Tripura	3
24.	Uttar Pradesh	Agra, Aligarh, Allahabad, Auraiya, Azamgarh, Banda, Bulandshahar, Chitrakoot, Etah, Etawah, Farrukhabad, Fatehpur, Firozabad, G B Nagar, Ghazipur, Gonda, Ghaziabad, Hamirpur, Hathras, Jaunpur, Kannauj, Kanpur Nagar, Kasganj (Kashiram Nagar), Lalitpur, Mahoba, Mainpuri, Mathura, MaunathBhanjan, Pratapgarh, Rai Bareilly, Shajahanpur, Sonbhadra, Sultanpur, Varanasi and Unnao, Chandauli, Gonda, Hardoi, Sitapur, Jalaun, Amroha, Kanpur Dehat, Rampur	43
25.	Uttarakhand	Uttarkashi	1
26.	West Bengal	Bankura, Bardhaman, Birbhum, Dakshin Dinajpur, Malda, Purulia, Uttar Dinajpur, South 24 Praganas, Nadia, Murshidabad, Paschim Medinipur, Paschim Bardhaman	12
27.	DNH, Daman & Diu	Dadra and Nagar Haveli	1
	Total	27 States/UTs	469 Districts

Thus there are 469 districts in 27 states/UTs across the country where instances of one or more Fluoride contamination have been detected.

5. Mitigation of Ground Water Contamination by As and F

The studies on arsenic and fluoride contamination indicate that occurrence of these contamination in various parts of the country are mostly geogenic in nature, which means these constituents are already in the rock and soil matrix and they get in to the ground water through various chemical processes. There is no conclusive evidence regarding increase in concentration of these contaminants over time. However, when the contaminant is in the ground water, it has the tendency to spread along with the flow of ground water.

Various steps have been taken by the Central Government for facilitating ground water quality improvement/ remediation of contamination in the country, as given below:

1. Data on ground water quality available with CGWB are being shared with concerned State Governments for taking necessary remedial measures such as prohibition of contaminated sources of ground water for drinking purposes and finding alternate sources for drinking water supply.
2. CGWB constructs wells for Exploration of Ground Water. Successful contamination-free wells are handed over to the State Governments for gainful utilization.

3. *Under the National Aquifer Mapping Programme (NAQUIM) of CGWB, special attention is being given to the aspect of ground water quality including contamination by toxic substances such as Arsenic in ground water. Further, under NAQUIM, CGWB constructs arsenic safe exploratory wells in arsenic affected parts of the States of West Bengal, Bihar and Uttar Pradesh. The arsenic safe deeper aquifer zones have been identified and wells have been constructed tapping the arsenic safe deeper aquifers using innovative cement sealing technique. So far, 522 exploratory wells tapping arsenic safe aquifers have been constructed under NAQUIM programme including 40 in Bihar, 188 in West Bengal and 294 in Uttar Pradesh. In addition, the innovative cement sealing technique of CGWB has been shared with the state agencies to utilize to construct arsenic free wells.*
4. *Awareness generation programs/ workshop on various aspects of ground water including preventing ground water pollution and safe use of contaminated water are being conducted by CGWB periodically.*
5. *Department of Water Resources, River Development and Ganga Rejuvenation, Ministry of Jal Shakti has issued guidelines for control and regulation of groundwater extraction with pan-India applicability notified on 24 September 2020. The guidelines include clauses on 'Measures to be adopted to ensure prevention from pollution in the plant premises of polluting industries/projects'. It is pointed out that ground water in and around polluting industries like Tannery, Slaughter Houses, Dye, Chemical, Coal-washery, other hazardous units, etc. and is generally observed to be polluted. In order to prevent further deterioration of ground water quality in such places, it is essential to take necessary measures for well head protection, such as Tube well/ bore well to be constructed at the place which is hygienically maintained, RCC (Reinforced Concrete Cement) grouting around tubewell, no recharge measures within the plant premises etc."*

3. From the report we find that while presence of toxic elements like arsenic and fluoride in ground water, contaminating it and also causing serious toxic effects to human body are admitted but no effective steps have been taken by CGWA, though under law, it is the body responsible for regulating ground water. Report says that water is the subject of State and therefore, CGWA on its own is not capable of taking any serious action in matter but this contention has been rejected long back by the Supreme Court in MC Mehta vs. UOI, (1997) 11 SCC 312 and order of

this Tribunal dated 25.02.2022 in OA 176/2015, Shailesh Singh vs. Hotel Holiday Regency. We are surprised that after such a long time, even today, CGWA has the audacity of shirking away from its own statutory responsibility and obligations and taking such flimsy grounds which have already been rejected by the Apex Court itself.

4. Be that as it may since, various States are involved in the matter, we find it appropriate to implead them as they all are necessary parties and hear the matter after notice to them.

5. Let following be impleaded as respondents:-

1. State of Andhra Pradesh through Chief Secretary, Amaravati, 1st Block, 1st Floor, A.P Secretariat Office, Velagapudi-522023;
2. State of Assam through Chief Secretary, Dispur, Block- C, 3rd Floor, Assam Sachivalaya, Dispur, Guwahati-781006;
3. State of Bihar through Chief Secretary, Patna, Main Secretariat, Patna-800015;
4. State of Chhattisgarh through Chief Secretary, Raipur, Mahanadi Bhawan, Mantralaya, Naya Raipur-492002;
5. UT Delhi (Delhi) through Chief Secretary, Delhi Secretariat, IP Estate, New Delhi-110002;
6. State of Gujarat (Gandhinagar) through Chief Secretary, 1st Block, 5th Floor, Sachivalaya, Gandhinagar-382010;
7. State of Haryana (Chandigarh) through Chief Secretary, 4th Floor, Haryana Civil Secretariat, Sector-1, Chandigarh-160019;
8. State of Himachal Pradesh (Shimla) through Chief Secretary,
9. UT Jammu & Kashmir through Chief Secretary Government of Himachal Pradesh, H.P. Secretariat, Shimla-171002;
10. State of Jharkhand (Ranchi) through Chief Secretary, 1st Floor, Project Building, Dhurwa, Ranchi -834004;
11. State of Karnataka (Bengaluru) through Chief Secretary, Room No. 320, 3rd Floor, Vidhana Soudha, Bengaluru-560001;
12. State of Kerala (Thiruvananthapuram) through Chief Secretary, Government of Kerala, Secretariat, Thiruvananthapuram-695001;
13. State of Madhya Pradesh (Bhopal) through Chief Secretary, MP Mantralaya, Vallabh Bhavan, Bhopal-462004;
14. State of Manipur (Imphal) through Chief Secretary, South Block, Old Secretariat, Imphal-795001;
15. State of Odisha (Bhubaneswar) through Chief Secretary, General Administration Department, Odisha Secretariat, Bhubaneswar-751001;
16. State of Punjab (Chandigarh) through Chief Secretary, Chandigarh-160001;

17. State of Rajasthan (Jaipur) through Chief Secretary, Secretariat, Jaipur-302005;
18. State of Tamil Nadu (Chennai) through Chief Secretary, Secretariat, Chennai-600009;
19. State of Telangana(Hyderabad) through Chief Secretary, Block C, 3rd Floor, Telangana, Secretariat, Khairatabad, Hyderabad;
20. State of Tripura (Agartala) through Chief Secretary, New Secretariat Complex, PO:Secretariat, Agartala-799010;
21. State of Uttar Pradesh (Lucknow) through Chief Secretary, 1st Floor, Room No. 110, Lalbahadur Sastri Bhawan, Uttar Pradesh Secretariat, Lucknow-226001;
22. State of Uttarakhand (Dehradun) through Chief Secretary, 4 Subhash Road, Uttarakhand Secretariat, Dehradun-248001;
23. State of West Bengal (Kolkata) through Chief Secretary, Nabanna, 13th Floor, 325, Sarat Chatterjee Road, Mandirtala, Shibpur, Howrah-711102;
24. UT DNH Daman & Diu (Daman) through Chief Secretary, Daman & Diu; Secretariat, Fort Area, Moti Daman, Daman (U.T.) - 396220
25. UT Puducherry (Pondicherry) through Chief Secretary, Chief Secretariat, Goubert Avenue, -605001;
26. State of Maharashtra (Mumbai) through Chief Secretary, CS Office Main Building, Mantralaya, 6th Floor, Madame Cama Road, Mumbai-400032;
27. State of Meghalaya (Shillong) through Chief Secretary, Main Secretariat Building, Rilang Building, Room No. 321, Meghalaya Secretariat, Shillong-793001;
28. State of Nagaland (Kohima) through Chief Secretary, Civil Secretariat, Kohima-797004;
29. CGWA through Member Secretary,18/11, Jamnagar House, Man Singh Road. New Delhi-110011;
30. MoEF&CC through its Secretary, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi-110003.

6. We may also notice at this stage that the problem of contamination of ground water due to arsenic in the context of certain Districts of State of UP and some other States like Assam, Bihar, Jharkhand, Karnataka, Punjab and West Bengal was considered by this Tribunal in O.A. No. 384/2019, Mrs. Sunita Pandey & Anr. vs. Union of India & Ors. & while disposing of the matter finally vide judgment dated 01.02.2021, the Tribunal directed as under:-

“16. In view of the above, let further steps in the matter be taken by the concerned States which may be monitored by the MoJS at the National level and by the Chief Secretaries of the concerned States, particularly in West Bengal and Punjab. The Chief Secretary, UP may sort out inter-departmental responsibilities and ensure compliance with regard to dismantling of hand pumps in arsenic

affected habitations, along with action on other recommendations of the Oversight Committee. The CGWA, the CPCB and concerned State PCBs/PCCs may monitor water quality in the affected areas and compile the relevant data and place on a common portal for future reference and remedial action.

Due attention may be given to cover other geogenic contaminants like fluoride, nitrate and other contaminants harmful to human and animal health as well as for irrigation. CPCB and SPCBs/PCCs may give emphasis to remediate identified contaminated sites having potential threats to groundwater contamination as directed vide order dated 29.01.2021 in OA No. 804/2018, Rajive Narayan & Anr. vs. Union of India & Ors.

MoJS may, in contaminated areas where there is geogenic contamination, explore possibility of rain water harvesting systems for recharging and dilution of the contaminated water and also avoiding excessive abstraction of groundwater, so that building of contaminants does not take place.”

7. The issue raised in the present matter with regard to presence of arsenic and fluoride in ground water in such large number of States and Districts is very serious and requires urgent preventive and protective steps by all concerned authorities.
8. Let Notices be issued to all the above respondents. Response may be filed by above respondents within one month after receipt of notice, by e-mail at judicial-ngt@gov.in preferably in the form of searchable PDF/ OCR Support PDF and not in the form of Image PDF.
9. List this matter on 15.02.2024.

Sudhir Agarwal, JM

Dr. A. Senthil Vel, EM

December 20, 2023
Original Application No. 728/2023
SN

मा0 राष्ट्रीय हरित प्राधिकरण द्वारा स्वतः संज्ञान लेकर पंजीकृत मूल आवेदन संख्या-728/2023 In re : News item Appearing in Hindustan dated 30.11.2023 titled " Arsenic found in groundwater in 25 State, Fluoride in 27 state : Govt " में मा0प्राधिकरण द्वारा पारित आदेश दिनांक 20.12.2023 के क्रम में कार्यवाही हेतु सचिव, पेयजल एवं स्वच्छता विभाग, उत्तराखण्ड शासन की अध्यक्षता में दिनांक 08.01.2024 को आहूत बैठक का कार्यवृत्त :-

बैठक में उपस्थित अधिकारीगण :-

1. श्रीमती नीलिमा गर्ग, मुख्य महाप्रबन्धक, उत्तराखण्ड जल संस्थान, देहरादून।
2. श्री बी0 के0 पाण्डे, मुख्य अभियन्ता/अपर परियोजना निदेशक जल जीवन मिशन, देहरादून।
3. श्री एस. के. शर्मा, अपर परियोजना निदेशक, (अनुश्रवण एवं मूल्यांकन), जल जीवन मिशन, देहरादून।
4. श्री संजय सिंह, मुख्य अभियन्ता, उत्तराखण्ड पेयजल निगम देहरादून।
5. श्री मनीष सेमवाल, सचिव अप्रैजल, उत्तराखण्ड जल संस्थान, देहरादून।
6. प्रतिनिधि, उत्तराखण्ड प्रदूषण बोर्ड, देहरादून।

सर्वप्रथम सचिव महोदय को अवगत कराया गया कि मा0 राष्ट्रीय हरित प्राधिकरण में मूल आवेदन संख्या-728/2023 In re : News item Appearing in Hindustan dated 30.11.2023 titled " Arsenic found in groundwater in 25 State, Fluoride in 27 state : Govt ", "हिन्दुस्तान" समाचार पत्र में प्रकाशित रिपोर्ट, जिसमें यह उल्लेख किया गया है कि 230 जनपदों तथा 25 राज्यों के कुछ हिस्सों तथा 469 जनपदों एवं 27 राज्यों में क्रमशः भूजल में आर्सेनिक तथा फ्लोराइड पाया गया, के संदर्भ में पंजीकृत है।

2. यह भी अवगत कराया गया कि केन्द्रीय भूजल बोर्ड के अनुसार भूजल संदूषण, अधिकांशतः भूगर्भिक प्रकृति के हैं तथा विभिन्न राज्यों तथा केन्द्रशासित प्रदेशों में भूजल में आर्सेनिक एवं फ्लोराइड की मात्रा, भारतीय मानक ब्यूरो द्वारा निर्धारित अनुमेय सीमा से अधिक है तथा भूजल में इन संदूषण तत्वों की उपस्थिति मानव शरीर पर गम्भीर विषाक्त प्रभाव डाल रहे हैं।

3. मा0प्राधिकरण द्वारा मूल आवेदन संख्या-228/2023 में दिनांक 20.12.2023 को निम्नवत आदेश पारित किये गये हैं :-

".....The issue raised in the present matter with regard to presence of arsenic and fluoride in ground water in such large number of States and Districts is very serious and requires urgent preventive and protective steps by all concerned authorities. Let Notices be issued to all the above respondents. Response may be filed by above respondents within one month after receipt of notice,by e-mail at judicial-ngt@gov.in

(1)

preferably in the form of searchable PDF/ OCR Support PDF and not in the form of Image PDF. List this matter on 15.02.2024.”

4. मा0प्राधिकरण द्वारा मूल आवेदन संख्या-228/2023 में उपरोक्तानुसार पारित आदेश दिनांक 20.12.2023 की उपरोक्तानुसार वस्तुस्थिति स्पष्ट किये जाने के उपरान्त राज्यान्तर्गत पाँच जनपदों में जल स्रोतों में आर्सेनिक तथा एक जनपद उत्तरकाशी में फ्लोराइड की मात्रा भूजल में निर्धारित मानकों से अधिक पाये जाने के सम्बन्ध में निम्नलिखित निर्देश दिये गये हैं:-

1. मिशन निदेशक, जल जीवन मिशन, उत्तराखण्ड जल संस्थान, उत्तराखण्ड पेयजल निगम केन्द्रीय भूजल बोर्ड कार्यालय से सम्पर्क कर उनके द्वारा जल स्रोतों के किये गये सभी परीक्षणों का ब्यौरा तत्काल प्राप्त करेंगे, जिससे यह ज्ञात हो सके कि उनके द्वारा किन स्रोतों/हैण्डपम्प/नलकूप आदि का परीक्षण किया गया है ?
2. जल जीवन मिशन के अन्तर्गत जो गांव उत्तराखण्ड जल संस्थान एवं उत्तराखण्ड पेयजल निगम को अन्तर्गत आवंटित हैं, उन गांव के प्रदूषित जल स्रोतों की आर्सेनिक तथा फ्लोराइड की भूजल में मात्रा मानकों से अधिक होने के संदर्भ में स्थलीय जांच कराये।

(कार्यवाही-उत्तराखण्ड जल संस्थान तथा उत्तराखण्ड पेयजल निगम)

3. ऐसी पेयजल व्यवस्था, जो हैण्डपम्प आधारित हो, के पेयजल में आर्सेनिक/फ्लोराइड की मात्रा मानकों से अधिक पाये जाने पर उन्हें बन्द करवाया जाए तथा ऐसे प्राकृतिक जल स्रोत, जिसके पेयजल में आर्सेनिक/फ्लोराइड की मात्रा अनुमेय सीमा से अधिक पायी जाय, वहां पर इस सूचना का बोर्ड लगाया जाय कि उस जल स्रोत का पानी पीने योग्य नहीं है।

(कार्यवाही-उत्तराखण्ड जल संस्थान तथा उत्तराखण्ड पेयजल निगम)

4. जल स्रोतों की लोकेशन कोऑर्डिनेट के साथ ही फोटोग्राफ खींची जाये।

(कार्यवाही-उत्तराखण्ड जल संस्थान तथा उत्तराखण्ड पेयजल निगम)

5. यह भी हो सकता है कि किसी गांव में अधिष्ठापित हैण्डपम्प में आर्सेनिक की मात्रा अधिक पायी गयी हो, किन्तु उस गांव में अन्य हैण्डपम्प भी अधिष्ठापित किये गये हों, ऐसी दशा में यह आवश्यक होगा कि सभी हैण्डपम्पों के पेयजल का परीक्षण कराया जाये।

(कार्यवाही- उत्तराखण्ड पेयजल निगम)

6. जल स्रोतों, जिसमें आर्सेनिक/फ्लोराइड मानक से अधिक पाये गये हों तथा जल स्रोतों का पानी पीने के लिये प्रयोगमें लाया जा रहा हो, ऐसे जल स्रोतों की जांच कर यह भी उल्लेख किया जाए कि सम्बन्धित ग्राम में आमजन के लिये पेयजल की क्या व्यवस्था की गयी है ? यदि पीने के पानी की कोई वैकल्पिक व्यवस्था है, तो उस पानी की जांच को भी उपरोक्त परीक्षण में सम्मिलित किया जाय।

(कार्यवाही- उत्तराखण्ड जल संस्थान)

(2)

7. उपरोक्त बिन्दुओं के सम्बन्ध में केन्द्रीय भूजल बोर्ड से रिपोर्ट प्राप्त कर उसके आधार पर मूल आवेदन संख्या-228/2023 में अगली सुनवाई दिनांक 15.01.2024 से पूर्व यथोचित कार्यवाही कर अनुपालन आख्या दिनांक 15.01.2024 तक शासन को उपलब्ध करायी जायेगी।

अन्त में उपस्थित सभी अधिकारीगणों को धन्यवाद ज्ञापित करते हुए बैठक का समापन किया गया।

Signed by Arvind Singh
Hyanki

Date: 12-01-2024 16:03:57

(अरविन्द सिंह ह्याँकी)

सचिव।

उत्तराखण्ड शासन

पेयजल एवं स्वच्छता अनुभाग-1

संख्या :- 67 -2024/67072/2024

देहरादून : दिनांक 12 जनवरी, 2024

प्रतिलिपि निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित :-

1. अध्यक्ष, उत्तराखण्ड प्रदूषण नियन्त्रण बोर्ड, देहरादून।
2. प्रबन्ध निदेशक, उत्तराखण्ड पेयजल निगम, देहरादून।
3. मुख्य महाप्रबन्धक, उत्तराखण्ड जल संस्थान, देहरादून।
4. मिशन निदेशक, जल जीवन मिशन, देहरादून।
5. निदेशक, स्वजल परियोजना, देहरादून।
6. गार्ड फाइल।

(अरविन्द सिंह ह्याँकी)

सचिव।

(3)

3



संख्या 4(65)/के.भू.ज.बो/उ.क्षे. तक 22 - 419

भारत सरकार
जल शक्ति मंत्रालय
जल संसाधन, नदी विकास एवं गंगा संरक्षण विभाग
केन्द्रीय भूमि जल बोर्ड, उत्तरांचल क्षेत्र
419 ए, कांवली रोड बल्लीवाला, देहरादून

दिनांक -
26 JAN 2024

सेवा में,
श्री बी के पाण्डेय
मुख्य अभियन्ता/अपर परियोजना निदेशक
राज्य जल व स्वच्छता विभाग
देहरादून

विषय : मान राष्ट्रीय हरित प्राधिकरण के OA 728/2023 के संबंध में।

सन्दर्भ: पत्रांक-756/JJM-37 /2023-24 दि 10.01.2024

Sir

Kindly refer to above reference, it is hereby stated that Central Ground Water Board monitors groundwater levels four times a year (Jan, May, August and November) and collects groundwater samples during pre- monsoon period (May) every year through various groundwater monitoring stations such as handpumps, dugwell, spring etc distributed all across the Uttarakhand State. Apart from routine ground water quality monitoring, CGWB has also taken up various studies such as National Aquifer Mapping Programme(NAQUIM) etc.

Arsenic is a toxic element founds in rocks, soils and the water. The BIS permissible limit of Arsenic was revised from 50 ppb to 10 ppb in the year 2015. The detail of arsenic contaminated ground water samples (containing Arsenic more than 10 ppb) collected and analysed during 2019 -22, are furnished in Table - 1.

TABLE 1: Distribution of Arsenic in shallow aquafer in Uttarakhand State (2019-2022)

District	Block	Location	Latitude	Longitude	Types of Structure	Concentration of Arsenic (ppb)
Dehradun	Sahaspur	Redapur	30.40583	77.86333	HP	11.5
Dehradun	Doiwala	Duggiawala	30.17222	78.23361	HP	11.45
Dehradun	Raipur	Maldeota	30.34389	78.12028	HP	22.86
Dehradun	Raipur	Soda Saroli	30.27667	78.13944	Spring	28.54
Dehradun	Vikas Nagar	Judli	30.42389	77.69556	HP	71.28
Dehradun	Vikasnagar	Vikas Nagar	30.47778	77.78833	HP	22.84
Dehradun	Doiwala	Lal Tappar	30.11972	78.17389	HP	36.5
Dehradun	Sahaspur	Nanda Ki Chowki	30.34667	77.94667	HP	56.4
Almora	Hawalbagh	Dhara Naula	29.57083	79.67639	Spring	56.64
Haridwar	Bhagwanpur	Chudiala	29.91000	77.76778	HP	11.43
Haridwar	Bahadrabad	Bandarjud	30.05306	77.93861	HP	23.20
Haridwar	Khanpur	Goverdhanpur	29.70972	77.96389	HP	13.05
Haridwar	Laksar	Laksar	29.75861	78.03667	HP	13.08
Haridwar	Bhagwanpur	Bahabalpur	29.98722	77.81028	HP	25.43
Haridwar	Khanpur	Dallawala	29.56667	78.02500	HP	33.60
Haridwar	Bahadrabad	Bahadrabad	29.91750	78.04389	HP	20.28
Haridwar	Laksar	Bhikampur	29.75000	78.14167	HP	13.89
Haridwar	Roorkee	Mohammadpur	29.71583	77.96139	HP	14.96
Haridwar	Khanpur	Khanpur	29.59667	78.00972	HP	13.10
Haridwar	Bahadrabad	Bhogpur	29.77750	78.16889	HP	12.74
U S Nagar	Kashipur	Dhanauri Patti	29.27083	79.01583	HP	13.13
U S Nagar	Sitarganj	Bidora	28.93694	79.76667	HP	21.03
U S Nagar	Jaspur	Jaspur	29.27861	78.83417	HP	22.77
U S Nagar	Kashipur	Durgapur	29.29750	78.95667	HP	45.30
U S Nagar	Jaspur	Bichai	80.09417	29.04083	HP	62.54
U S Nagar	Kashipur	Shand Khera	79.01361	29.17556	HP	69.79
U S Nagar	Khatima	Kanchanpuri (Majhola)	28.83111	79.89750	HP	16.48
U S Nagar	Khatima	Khatima	28.91917	79.96611	HP	16.90
U S Nagar	Khatima	Barianjariya	28.87139	79.92250	HP	17.93
U S Nagar	Rudrapur	Kichha	28.90944	79.52222	HP	16.33
U S Nagar	Sitarganj	Sitarganj	28.92222	79.70417	HP	18.64
Uttarkashi	Bhatwari	maneri	30.73972	78.52472	HP	12.35
Uttarkashi	Bhatwari	Charethi	30.82111	78.62639	HP	12.60
Uttarkashi	Bhatwari	Ganganani	30.90306	78.68000	Spring	19.27

Most of the fluoride found in groundwater is naturally occurring from the breakdown of rocks and soils or weathering and deposition of atmospheric particles. BIS has recommended an upper desirable limit of 1.0 mg/L of F⁻ as desirable concentration of fluoride in drinking water, which can be extended to 1.5 mg/L of F in case no alternative source of water is available. Water having fluoride concentration of more than 1.5 mg/L are not suitable for drinking purposes.

The fluoride content in groundwater from observation wells in a major part of the state is found to be less than 1.5 mg/L. However, only one sample (Ganganani, Hot spring of Uttarkashi district) is showing fluoride concentration more than 1.5 mg/l

TABLE 2: Distribution of Fluoride in shallow aquifer in Uttarakhand State (2019-2022)

District	Block	Location	Latitude	Longitude	Types of Structure	Concentration of Fluoride (ppm)
Uttarkashi	Bhatwari	Ganganani	30.90306	78.68000	Spring	3.60

Remedial Measures for Arsenic/Fluoride Contamination in Ground water

Following remedial measures may be taken to sort out Arsenic/fluoride contamination in ground water.

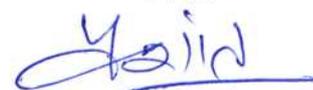
1). The first and the foremost task is to identify the handpump, tubewell and other ground water abstraction structure where Arsenic/ fluoride concentration is above the maximum permissible limit defined by BIS (IS 10500 – 91). Arsenic field-testing kit could prove to a very useful instrument to commence the detailed investigations in these areas.

2) Certain hand pumps/TWs yielding water with higher Arsenic/ fluoride concentration may be demarcated like being painted red etc. These markings would indicate that these pumps are not fit to be used for catering to human needs.

3) Many low cost filters using activated alumina working on principle of adsorption- ion exchange may be used to provide safe drinking water to people.

4) Arsenic contamination in ground water is generally limited to shallow aquifer. It is suggested that tubewell may constructed tapping deeper aquifer with cement sealing.

भवदीय



(प्रशांत राय)

क्षेत्रीय निदेशक



उत्तराखण्ड जल संस्थान
जलभवन' बी-ब्लॉक, नेहरू कॉलोनी, देहरादून।

ANNEXURE R-4

पत्रांक: 9103 / JJM- Arsenic & Fluoride / 2023-24 /

दिनांक 06/02/2024

सेवा में,

मिशन निदेशक,
राज्य जल एवं स्वच्छता मिशन,
75/38, इंदर रोड़,
देहरादून।

विषय:- मा0 राष्ट्रीय हरित प्राधिकरण के QA 728/2023 के सम्बन्ध में।

महोदय,

उपरोक्त विषयक कृपया राज्य जल एवं स्वच्छता मिशन, देहरादून के पत्रांक- 1844/JJM-332/2023-24 दिनांक 01.02.2024 का संदर्भ ग्रहण करने का कष्ट करेंगे। पत्र के क्रम में संज्ञान में लाना है कि मा0 राष्ट्रीय हरित प्राधिकरण में मूल आवेदन संख्या- 728/2023 In re: News item Appearing in Hindustan dated 30-11-2023 titled "Arsenic found in groundwater in 25 State, Fluoride in 27 State: Govt", हिन्दुस्तान समाचार पत्र में प्रकाशित रिपोर्ट, जिसमें यह उल्लेख किया गया है कि 230 जनपदों तथा 25 राज्यों के कुछ हिस्सों तथा 469 जनपदों एवं 27 राज्यों में क्रमशः भूजल में आर्सेनिक तथा फ्लोराइड पाया गया, के संदर्भ में पंजीकृत है।

उक्त के परिपेक्ष्य में केन्द्रीय भूजल बोर्ड कार्यालय से संपर्क कर उनके द्वारा जल स्रोतों के किये गये सभी परीक्षणों का वर्ष 2019 से 2022 तक का ब्यौरा प्राप्त किया गया, जो कि निम्नानुसार है:-

Arsenic Affected

2019				
STATE	DISTRICT	BLOCK	LOCATION	Value (ppb)
Uttarakhand	Dehradun	Sahaspur	Redapur	11.05
Uttarakhand	Haridwar	Bhagwanpur	Chudiala	11.43
Uttarakhand	Dehradun	Doiwala	Duggiawala (Dujiyawala)	11.45
Uttarakhand	Udham Singh Nagar	Kashipur	Dhanauri Patti	13.13
Uttarakhand	Udham Singh Nagar	Sitarganj	Bidora	21.03
Uttarakhand	Udham Singh Nagar	Jaspur	Jaspur	22.77
Uttarakhand	Dehradun	Raipur	Maldeota	22.86
Uttarakhand	Haridwar	Bahadradabad	Bandarjud	23.20
Uttarakhand	Dehradun	Raipur	Soda Saroli	28.54
Uttarakhand	Udham Singh Nagar	Kashipur	Durgapur	45.30
Uttarakhand	Udham Singh Nagar	Jaspur	Bichai	62.54
Uttarakhand	Udham Singh Nagar	Kashipur	Shand Khara	69.79
Uttarakhand	Dehradun	Vikas Nagar	Judli	71.28
2020				
STATE	DISTRICT	BLOCK	LOCATION	Value (ppb)
Uttarakhand	Udham Singh Nagar	Khatima	Kanchanpuri (Majhola)	16.48
Uttarakhand	Udham Singh Nagar	Khatima	Khatima	16.90
Uttarakhand	Udham Singh Nagar	Khatima	Barianjariya	17.93
Uttarakhand	Dehradun	Vikasnagar	Vikash Nagar	22.84
Uttarakhand	Dehradun	Doiwala	Lal Tappar	36.50
Uttarakhand	Dehradun	Sahaspur	Nanda Ki Chowki	56.43
2021				
STATE	DISTRICT	BLOCK	LOCATION	Value (ppb)
Uttarakhand	Uttarkashi	Bhatwari	maneri	12.35
Uttarakhand	Uttarkashi	Bhatwari	Charethi	12.60
Uttarakhand	Haridwar	Khanpur	Goverdhanpur	13.05
Uttarakhand	Haridwar	Laksar	Laksar	13.08
Uttarakhand	Udham Singh Nagar	Rudrapur	Kichha	16.33
Uttarakhand	Udham Singh Nagar	Khatima	Barianjariya	16.76
Uttarakhand	Udham Singh Nagar	Sitarganj	Sitarganj	18.64
Uttarakhand	Uttarkashi	Bhatwari	Ganganani	19.27
Uttarakhand	Haridwar	Bhagwanpur	Bahabalpur	25.43
Uttarakhand	Haridwar	Khanpur	Dallawala	33.60
Uttarakhand	Almora	Hawalbagh	Dhara Naula	56.64

104

2022				
STATE	DISTRICT	BLOCK	LOCATION	Value (ppb)
Uttarakhand	Almora	Hawalbagh	DharaNaula	69.71
Uttarakhand	Haridwar	Bhagwanpur	Bahabalpur	31.20
Uttarakhand	Haridwar	Khanpur	Govardhanpur	12.67
Uttarakhand	Haridwar	Roorkee	Mohammadpur	14.96
Uttarakhand	Haridwar	Khanpur	Dallawala	46.67
Uttarakhand	Haridwar	Khanpur	Khanpur	13.10
Uttarakhand	Haridwar	Bahadradab	Bahadradab	20.28
Uttarakhand	Haridwar	Laksar	Bhikampur	13.89
Uttarakhand	Haridwar	Bahadradab	Bhogpur	12.74
Uttarakhand	Uttarkashi	Bhatwari	Ganganani	28.11

Fluoride Affected

STATE	DISTRICT	BLOCK	LOCATION	2019
Uttarakhand	Uttarkashi	Bhatwari	Ganganani Spring outlet 1	4.42
STATE	DISTRICT	BLOCK	LOCATION	2020
				NIL
STATE	DISTRICT	BLOCK	LOCATION	2021
				NIL
STATE	DISTRICT	BLOCK	LOCATION	2022
Uttarakhand	Uttarkashi	Bhatwari	Ganganani	2.80

उपरोक्त परिपेक्ष्य में मूल आवेदन स०-728/2023, में मा० राष्ट्रीय हरित प्राधिकरण, नई दिल्ली द्वारा पारित आदेश दिनांक 20-12-2023 के क्रम में सचिव पेयजल, उत्तराखण्ड शासन महोदय की अध्यक्षता में दिनांक 08-01-2024, को एक बैठक आहूत की गयी थी। उक्त बैठक में लिये निर्णय के क्रम में पेयजल एवं स्वच्छता अनुभाग-1, उत्तराखण्ड शासन द्वारा अपने पत्र स०-67-2024/67072/2024 दिनांक 12-01-2024, से जारी निर्देशों के बिन्दु-4 (1, 2) (3) व (4) पर कार्यवाही हेतु जल संस्थान एवं जल निगम को निर्देशित किया गया। बिन्दु-4 (5), पर जल निगम तथा बिन्दु-4(6) पर कार्यवाही हेतु जल संस्थान को निर्देशित किया, के अनुक्रम में बिन्दुवार आख्या निम्नानुसार है:-

बिन्दु संख्या-4 (1): मिशन निदेशक, जल जीवन मिशन, उत्तराखण्ड जल संस्थान, उत्तराखण्ड पेयजल निगम केन्द्रीय भूजल बोर्ड कार्यालय से संपर्क कर उनके द्वारा जल स्रोतों के किये गये सभी परीक्षणों का ब्यौरा तत्काल प्राप्त करेंगे, जिससे यह ज्ञात हो सके कि उनके द्वारा किन स्रोतों/हैंडपम्प/नलकूप आदि का परीक्षण किया गया है ?

विभागीय आख्या:- शासन के निर्देशों के क्रम में इस कार्यालय के पत्र स०-8680 दिनांक 18-01-2024 द्वारा क्षेत्रीय निदेशक, केन्द्रीय भूजल बोर्ड, देहरादून को उनके द्वारा वर्ष 2019 से 2022 तक जनपद देहरादून, अल्मोडा, हरिद्वार, उधमसिंह नगर तथा उत्तरकाशी में भू-जल में किये गये परीक्षणों का ब्यौरा (Latitude and Longitude)वार उपलब्ध कराये जाने हेतु अनुरोध किया गया, के क्रम में केन्द्रीय भूमि जल बोर्ड, देहरादून द्वारा कार्यालय पत्र संख्या-4/65/के०भू०ज०बो०/उ०क्षे० तक 22-418, दिनांक 26.01.2024, के द्वारा उक्त जनपदों में किये गये परीक्षणों का ब्यौरा (Latitude and Longitude)वार उपलब्ध कराया गया, में जल संस्थान की 08 पेयजल योजनाओं का विवरण निम्नानुसार है:-

District	Block	Location	Latitude	Logitude	Types of Structure	Concentration of Arsenic (ppb)	Village	Implementing Agency	Scheme Name	Water Quality Status		Status	Remarks
										Arsenic	Flouride		
Dehradun	Shaspur	Redapur	30.40583	77.86333	HP	11.5	Charra	UJN					Action related to hand pump is to be taken by Jal Nigam
Dehradun	Doiwala	Duggiwala	30.17222	78.23361	HP	11.45	Badkot	UJS	Barkot w/s scheme	Not Detected	Not Detected	65% work completed	
Dehradun	Raipur	Maldeota	30.34389	78.12028	HP	22.86	Khewa Maldevta	UJN					Action related to hand pump is to be taken by Jal Nigam
Dehradun	Raipur	Soda Saroli	30.27667	78.13944	Spring	28.54	Soda Saroli	UJN					
Dehradun	Vikasnagar	Judli	30.42389	77.69556	HP	71.28	Aaduwalla	UJS	Aaduwalla w/s scheme	Not Detected	Not Detected	100% work completed	
Dehradun	Vikasnagar	Vikas Nagar	30.47778	77.78833	HP	22.84						In Urban Area	Action related to hand pump is to be taken by Jal Nigam
Dehradun	Doiwala	Lal Tappar	30.11972	78.17389	HP	36.5	Majri Grant	UJS	Majrigrant w/s scheme	Not Detected	Not Detected	90% work completed	
Dehradun	Shaspur	Nanda Ki Chowki	30.34667	77.94667	HP	56.4	Kolhu pani	UJN					Action related to hand pump is to be taken by Jal Nigam
Almora	Hawalbagh	Dhara Naula	29.57083	79.67639	Spring	56.64						In Urban Area	Water supply already exist. In re-confirmatory test of arsenic, result found under permissible limit but for villagers awareness, information board has been imposed.

Haridwar	Bhagwanpur	Chudiala	29.91000	77.76778	HP	11.43	Chudiala	UJN						Action related to hand pump is to be taken by Jal Nigam
Haridwar	Bhahadradab	Bandarjud	30.05306	77.93861	HP	23.20	Bandarjud	UJN						Action related to hand pump is to be taken by Jal Nigam
Haridwar	Khanpur	Goverdhanpur	29.70972	77.96389	HP	13.05	Goverdhanpur	UJS	Goverdhanpur w/s scheme	Not Detected	Not Detected	100% work completed		
Haridwar	Lakshar	Lakshar	29.75861	78.03667	HP	13.08							In Urban Area.	Action related to hand pump is to be taken by Jal Nigam
Haridwar	Bhagwanpur	Bahabalpur	29.98722	77.81028	HP	25.43	Bahabalpur	UJN						Action related to hand pump is to be taken by Jal Nigam
Haridwar	Khanpur	Dallawala	29.56667	78.02500	HP	33.60	Dallawala	PIU, AMURT Roorkee						Action related to hand pump is to be taken by Jal Nigam
Haridwar	Bhahadradab	Bhahadradab	29.91750	78.04389	HP	20.28	Bhahadradab	World Bank						Action related to hand pump is to be taken by Jal Nigam
Haridwar	Lakshar	Bhikampur	29.75000	78.14167	HP	13.89	Bhikampur	UJN						Action related to hand pump is to be taken by Jal Nigam
Haridwar	Roorkee	Mohammadpur	29.71583	77.96139	HP	14.96	Mohammadpur	UJS	Mohammadpur Panda w/s scheme	Not Detected	Not Detected	70% work completed		
Haridwar	Khanpur	Khanpur	29.59667	78.00972	HP	13.10	Khanpur	PIU, AMURT Roorkee						Action related to hand pump is to be taken by Jal Nigam
Haridwar	Bhahadradab	Bhogpur	29.77750	78.16889	HP	12.74	Bhogpur	UJN						Action related to hand pump is to be taken by Jal Nigam
US Nagar	Kashipur	Dhanauri Patti	29.27083	79.01583	HP	13.13	Dhanauri Patti	UJS	Bhogpur w/s scheme	Not Detected	Not Detected	76% work completed		
US Nagar	Sitarganj	Bidora	28.93694	79.76667	HP	21.03	Bidora	UJN						Action related to hand pump is to be taken by Jal Nigam
US Nagar	Jaspur	Jaspur	29.27861	78.83417	HP	22.77	Jaspur	UJN						Action related to hand pump is to be taken by Jal Nigam
US Nagar	Kashipur	Durgapur	29.29750	78.95667	HP	45.30	Durgapur	UJS	Navalpur w/s scheme	Not Detected	Not Detected	80% work completed		
US Nagar	Jaspur	Bichai	80.09417	29.04083	HP	62.54	Bichai	UJN						Action related to hand pump is to be taken by Jal Nigam
US Nagar	Kashipur	Shand Khera	79.01361	29.17556	HP	69.79	Shand Khera	UJN						Action related to hand pump is to be taken by Jal Nigam
US Nagar	Khatima	Kanchanpuri (Majhola)	28.83111	79.89750	HP	16.48	Pachpeda	UJN						Action related to hand pump is to be taken by Jal Nigam
US Nagar	Khatima	Khatima	28.91917	79.96611	HP	16.90							In Urban Area.	Action related to hand pump is to be taken by Jal Nigam
US Nagar	Khatima	Barianjariya	28.87139	79.92250	HP	17.93	Barianjariya	UJN						Action related to hand pump is to be taken by Jal Nigam
US Nagar	Rudrapur	Kichha	28.90944	79.52222	HP	16.33							In Urban Area.	Action related to hand pump is to be taken by Jal Nigam
US Nagar	Sitarganj	Sitarganj	28.92222	79.70417	HP	18.64							In Urban Area.	Action related to hand pump is to be taken by Jal Nigam
Uttarkashi	Bhatwari	Meneri	30.73972	78.52472	HP	12.35	Meneri	UJN						In re-confirmatory test of arsenic, result found under permissible limit but at present Hand pumps have been closed. Water is supplied from this village is from Nargada source.
Uttarkashi	Bhatwari	Charethi	30.82111	78.62639	HP	12.60	Charethi	UJS	Bhatwari w/s scheme	Not Detected	Not Detected	100% work completed		In re-confirmatory test of arsenic, result found under permissible limit but at present Hand pumps have been closed. Water is supplied from this village is from Nargada source.
Uttarkashi	Bhatwari	Ganganani	30.90306	78.68000	Spring	19.27	Hurri	UJN					Hot Spring Source	In re-confirmatory test of arsenic, result found under permissible limit but for villagers awareness, information board has been imposed for not using water for drinking.
District	Block	Location	Latitude	Logitude	Types of Structure	Concentration of Arsenic (ppb)	Village	Implementing Agency	Scheme Name	Water Quality Status		Status	Remarks	
										Arsenic	Flouride			
Uttarkashi	Bhatwari	Ganganani	30.90306	78.68000	Spring	3.6	Hurri	UJN		Detected	-	Hot Spring Source	Information board has been imposed for not using water for drinking.	

संज्ञान में लाना है कि जिन राजस्व ग्रामों में जल संस्थान द्वारा Piped Water सम्बन्धी कार्य सम्पादित किये जा रहे हैं तथा सम्बन्धित स्रोतों एवं उनके निकटतम स्रोतों जहाँ से पेयजल आपूर्ति सुनिश्चित की जा रही है, का परीक्षण सम्पादित किया गया है, के जल परीक्षण रिपोर्ट निर्धारित मानकों के अन्तर्गत ही पाये गये हैं (रिपोर्ट संलग्न)।

जनपद अल्मोड़ा की धारानौला में आर्सेनिक पाये जाने के कारण सम्बन्धित नौला का पानी पीने के उपयोग में नहीं लिया जा रहा है, जिस हेतु इस सम्बन्ध में सम्बन्धित स्रोत पर सूचना पट्ट के साथ ही स्थलीय जन समुदाय को सूचित करने का कार्य सम्पादित किया गया है।

जनपद उत्तरकाशी की मनेरी तथा चडेथी में स्थित हैण्डपम्पों में आर्सेनिक पाये जाने के कारण दोनों हैण्डपम्पों के पेयजल को आमजन के उपयोग हेतु बन्द किया जाना सम्बन्धित अधिशासी अभियन्ता द्वारा अवगत कराते हुये सम्बन्धित ग्रामों के सैम्पल जिला स्तरीय जल गुणवत्ता परीक्षण प्रयोगशाला, देहरादून में भेजा गया, का परीक्षण किये जाने उपरान्त सम्बन्धित ग्रामों के स्रोतों में आर्सेनिक नहीं पाया गया है (रिपोर्ट संलग्न) तथा गंगनानी में स्थित स्प्रिंग में आर्सेनिक व फ्लोराइड तत्व अनुमंय सीमा से अधिक पाये जाने के कारण जल संस्थान की सम्बन्धित शाखा द्वारा उक्त स्प्रिंग के पेयजल को भी आमजन के लिये बन्द करते हुए सम्बन्धित पेयजल को उपयोग में नहीं लिया जाना सम्बन्धित अधिशासी अभियन्ता द्वारा अवगत कराते हुये सम्बन्धित स्रोत पर सूचना पट्ट के साथ ही स्थलीय जन समुदाय को सूचित करने का कार्य सम्पादित किया गया है (रिपोर्ट संलग्न)।

ग्राम गंगनानी में अन्य पेयजल स्रोत नरगढा नामक तोक से उक्त गांव के आमजन को पेयजल की आपूर्ति की जा रही है तथा ग्राम मनेरी तथा चडेथी में पेयजल की आपूर्ति वैकल्पिक व्यवस्था के माध्यम से उपलब्ध कराई जा रही है।

उक्त के अतिरिक्त यह भी संज्ञान में लाना है कि उत्तराखण्ड राज्य में भारत सरकार का महत्वपूर्ण/समयबद्ध कार्यक्रम "जल जीवन मिशन" प्रभावी है। कार्यक्रम के अन्तर्गत भारत सरकार द्वारा ग्रामीण जनता के बेहतर जीवन यापन कराये जाने के ध्येय से जल को बुनियादी आवश्यकताओं में प्राथमिकता प्रदान करने हेतु जल जीवन मिशन कार्यक्रम के (WQM&S) मद से सम्बन्धित समस्त गतिविधियों के संचालन हेतु विशेष बल दिया जाता है, जिसके अन्तर्गत जनता को गुणवत्ता युक्त जलापूर्ति कराया जाना प्राविधानित है।

उपरोक्त परिपेक्ष्य में राज्य में जल संस्थान की अधिष्ठापित 27 (01 राज्य स्तरीय, 13 जनपदीय एवं 13 उपखण्डीय) जल गुणवत्ता परीक्षण प्रयोगशालाओं में जल स्रोतों व उनके जल नमूनों का परीक्षण कार्य सम्पादित कराया जाता है ताकि आमजन को शुद्ध पेयजल आपूर्ति सुनिश्चित कराई जा सके। भारत सरकार द्वारा जारी दिशा-निर्देशिकानुसार ग्रामीण क्षेत्र के प्रत्येक परिवारों, स्कूलों एवं आंगनवाड़ी केन्द्रों में FTK's & Bacteriological Vial के माध्यम से पानी की गुणवत्ता सुनिश्चित किये जाने का प्राविधान है ताकि प्रत्येक ग्रामीण क्षेत्रों में शुद्ध एवं गुणवत्ता युक्त पेयजल की आपूर्ति सुनिश्चित हो सके एवं दूषित पानी से होने वाली बीमारियों के सम्बन्ध में ग्रामीणों को जागरूक किया जा सके तथा फील्ड स्तर पर ग्रामीणों द्वारा ही दूषित पानी की गुणवत्ता की जांच सुनिश्चित की जा सके। यदि किसी स्रोत एवं जल नमूनों के परीक्षण की मात्रा निर्धारित पैरामीटर से अधिक पायी जाती है तो सम्बन्धित का Re-Confirmatory परीक्षण किया जाता है।

बिन्दु संख्या-4 (2): जल जीवन मिशन के अन्तर्गत जो गांव उत्तराखण्ड जल संस्थान एवं उत्तराखण्ड पेयजल निगम को आवंटित है, उन गांव के प्रदूषित जल स्रोतों की आर्सेनिक तथा फ्लोराइड की भूजल में मात्रा मानकों से अधिक होने के संदर्भ में स्थलीय जांच करायें।

विभागीय आख्या: शासन द्वारा दिये गये निर्देशों के क्रम में उत्तराखण्ड जल संस्थान को आवंटित ग्रामों के प्रदूषित जल स्रोतों व उनके निकटतम स्रोतों जहां से पेयजल आपूर्ति सुनिश्चित की जा रही है, की आर्सेनिक सम्बन्धी परीक्षण कार्य सम्पादित कराया गया जो कि निर्धारित मानकों के अन्तर्गत ही पाया गया है (जनपदवार किये गये स्रोतों की परीक्षण रिपोर्ट संलग्न)।

संज्ञान में लाना है कि राज्य में नगरीय एवं ग्रामीण क्षेत्रों हेतु भारत सरकार एवं विश्व बैंक मिशन द्वारा वित्त पोषित परियोजनायें संचालित है, को वित्तीय वर्ष 2023-24 तक पूर्ण किया जाना लक्षित है। कार्यक्रमों के अन्तर्गत प्रदेश स्तर पर योजनाओं का निर्माण/सुदृढीकरण कार्य सम्पादित कराये जा रहे है तथा सम्बन्धित योजना से Piped Water supply के माध्यम से जलापूर्ति सुनिश्चित की जा रही है तथा सम्बन्धित योजनाओं का नियमित रूप से जल गुणवत्ता परीक्षण कार्य भी सम्पादित कराया जाता रहता है।

बिन्दु संख्या-4 (3): ऐसी पेयजल व्यवस्था, जो हैण्डपम्प आधारित हो, के पेयजल में आर्सेनिक/फ्लोराइड की मात्रा मानकों से अधिक पाये जाने पर उन्हें बन्द करवाया जाए तथा ऐसे प्राकृतिक जल स्रोत, जिसके पेयजल में आर्सेनिक/फ्लोराइड की मात्रा अनुमेदय सीमा से अधिक पायी जाये, वहां पर इस सूचना का बोर्ड लगाया जाये कि उस जल स्रोत का पानी पीने योग्य नहीं है।

विभागीय आख्या: संज्ञान में लाना है कि जनपद उत्तरकाशी की मनेरी तथा चडेथी में स्थित हैण्डपम्पों में आर्सेनिक पाये जाने के कारण दोनो हैण्डपम्पों के पेयजल को आमजन के उपयोग हेतु बन्द किया जाना सम्बन्धित अधिशासी अभियन्ता द्वारा अवगत कराते हुये सम्बन्धित ग्रामों के सैम्पल जिला स्तरीय जल गुणवत्ता परीक्षण प्रयोगशाला, देहरादून में भेजा गया, का परीक्षण किये जाने उपरान्त सम्बन्धित ग्रामों के स्रोतों में आर्सेनिक नहीं पाया गया है *(रिपोर्ट संलग्न)* तथा गंगनानी में स्थित स्प्रिंग में आर्सेनिक व फ्लोराइड तत्व अनुमंय सीमा से अधिक पाये जाने के कारण जल संस्थान की सम्बन्धित शाखा द्वारा उक्त स्प्रिंग के पेयजल को भी आमजन के लिये बन्द करते हुए सम्बन्धित पेयजल को उपयोग में नहीं लिया जाना सम्बन्धित अधिशासी अभियन्ता द्वारा अवगत कराते हुये सम्बन्धित स्रोत पर सूचना पट्ट के साथ ही स्थलीय जन समुदाय को सूचित करने का कार्य सम्पादित किया गया है *(रिपोर्ट संलग्न)*।

ग्राम गंगनानी में अन्य पेयजल स्रोत नरगढा नामक तोक से उक्त गांव के आमजन को पेयजल की आपूर्ति की जा रही है तथा ग्राम मनेरी तथा चडेथी में पेयजल की आपूर्ति वैकल्पिक व्यवस्था के माध्यम से उपलब्ध कराई जा रही है।

बिन्दु संख्या-4 (4): जल स्रोतों की लोकेशन को ऑर्डिनेट के साथ ही फोटोग्राफ खींची जाये।

विभागीय आख्या: प्रदेश में भारत सरकार का महत्वकांक्षी कार्यक्रम "जल जीवन मिशन" संचालित है। कार्यक्रम के अन्तर्गत समस्त पेयजल योजनाओं की Geo-tagging भारत सरकार की वैबसाईट ejalshakti.gov.in पर किये जाने का प्राविधान है, के कम में पेयजल योजनाओं की Geo-tagging का कार्य गतिमान है। वर्तमान में प्रदेश स्तर पर कुल 2573 पेयजल योजनाओं की Geo-tagging भारत सरकार की वैबसाईट ejalshakti.gov.in पर की जा चुकी है। शेष पर कार्यवाही गतिमान है।

बिन्दु संख्या-4 (5): जल स्रोतों, जिसमें आर्सेनिक/फ्लोराइड मानक से अधिक पाये गये हो तथा जल स्रोतों का पानी पीने के लिये प्रयोग में लाया जा रहा हो, ऐसे जल स्रोतों की जांच कर यह भी उल्लेख किया जाए कि सम्बन्धित ग्राम में आमजन के लिये पेयजल की क्या व्यवस्था की गयी है ? यदि पीने के पानी की कोई वैकल्पिक व्यवस्था है, तो उस पानी की जांच को भी उपरोक्त परीक्षण में सम्मिलित किया जाये।

विभागीय आख्या: बिन्दु संख्या-4 (3) में उल्लिखित जनपद उत्तरकाशी के मनेरी तथा चडेथी में स्थित हैण्डपम्पों में आर्सेनिक पाये जाने के कारण दोनो हैण्डपम्पों के पेयजल को आमजन के उपयोग हेतु बन्द किया जा चुका है तथा गंगनानी में स्थित स्प्रिंग में आर्सेनिक व फ्लोराइड तत्व अनुमंय सीमा से अधिक पाये जाने के कारण सम्बन्धित स्रोत के पानी को पीने के उपयोग में न लिये जाने हेतु सूचना पट्ट के साथ ही स्थलीय जन समुदाय को सूचित करने का कार्य सम्पादित किया गया है।

संज्ञान में लाना है कि मा0 राष्ट्रीय हरित प्राधिकरण में मूल आवेदन संख्या- 728/2023 में Tribunal द्वारा निम्नवत निर्देशित किया गया है:-

1. In view of the above, let further steps in the matter be taken by the concerned States which may be monitored by the MoJS at the National level and by Chief Secretaries of the concerned sates.

जल शक्ति मंत्रालय, राष्ट्रीय जल जीवन मिशन, भारत सरकार, नई दिल्ली के ejalshakti.gov.in वैबसाईट पर Other application में राज्य स्तर पर हो रहे जल स्रोतों एवं उनके नमूनों की जांच के परीक्षण अद्यतन हेतु WQMIS portal तैयार किया गया है, में राज्य में किये गये जल परीक्षण की रिपोर्ट प्रदर्शित होती है, की मॉनिटरिंग भारत सरकार तथा राज्य सरकार स्तर से दैनिक रूप में की जाती है।

2. Ensure compliance with regard to dismantling of hand pumps in arsenic affected habitations.

उत्तराखण्ड जल संस्थान को आवंटित ग्रामों के प्रदूषित जल स्रोतों व उनके निकटतम स्रोतों जहां से पेयजल आपूर्ति सुनिश्चित की जा रही है, की आर्सेनिक सम्बन्धी परीक्षण कार्य सम्पादित कराया गया जो कि निर्धारित मानकों के अन्तर्गत ही पाई गई है। जनपद उत्तरकाशी में दोनो हैण्डपम्पों में आर्सेनिक पाये जाने के कारण दोनो हैण्डपम्पों के पेयजल को आमजन के उपयोग हेतु बन्द किया जा चुका है।

3. Monitor water quality in the affected areas and compile the relevant data and place on a common portal for future reference and remedial actions.

जल शक्ति मंत्रालय, राष्ट्रीय जल जीवन मिशन, भारत सरकार, नई दिल्ली के ejalshakti.gov.in वैबसाईट के माध्यम से जल परीक्षण रिपोर्ट का अनुश्रवण किया जाता रहा है, जहां भी Contamination पाया जाता है तत्समय ही सम्बन्धित स्रोत व उनके जल नमूनों को Remedial Action लेते हुये पुनः परीक्षण रिपोर्ट भारत सरकार की वैबसाईट पर अंकित की जाती है।

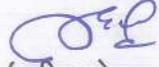
4. MoJS may, in contaminated areas where there is geogenic contamination, explore possibility of rain water harvesting systems for recharging and dilution of the contaminated water and also avoiding excessive abstraction of groundwater, so that building of contaminants does not take place.

प्रदेश में वर्तमान तक किसी भी पेयजल योजनाओं में Arsenic नहीं पाया गया है तथा न ही भू-जल दोहन का प्रकरण संज्ञान में आया है।

अतः जनपद अल्मोड़ा एवं जनपद उत्तरकाशी में स्थित धारानौला एवं मनेरी तथा चडेथी स्थित हैण्डपम्प व गंगनानी स्प्रिंग में आर्सेनिक व फ्लोराइड की मात्रा अनुमन्य सीमा से अधिक पाये जाने पर हैण्डपम्प तथा अन्य स्रोत के पानी को पीने के उपयोग में नहीं लिया जा रहा है तथा उक्त के सम्बन्ध में सम्बन्धित स्थल पर सूचना पट्ट के साथ ही स्थलीय जन समुदाय को सूचित कराया जा चुका है।

अतः सूचनार्थ प्रेषित।

भवदीय


(मनीष सेमवाल)
सचिव अप्रैजल

OK

संख्या एवं दिनांक तदैव:

प्रतिलिपि : निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित:-

1. मुख्य महाप्रबन्धक, महोदया उत्तराखण्ड जल संस्थान, देहरादून को सादर सूचनार्थ प्रेषित।
2. महाप्रबन्धक (मु0), उत्तराखण्ड जल संस्थान, देहरादून।
3. वरिष्ठ लेखाधिकारी (जे0जे0एम0), उत्तराखण्ड जल संस्थान, देहरादून।
4. सहायक लेखाधिकारी (जे0जे0एम0), उत्तराखण्ड जल संस्थान, देहरादून।


सचिव अप्रैजल
OK

Jal Jeevan Mission
Department of Drinking Water & Sanitation
Ministry of Jal Shakti

Status of geo-tagged water sources

Note : All JJM scheme and other than JJM scheme where FHTC has been given.

State: Uttarakhand, Scheme type: All (SVS and MVS), All (Approved/Unapproved)

Format FUA3

S. No.	District Name	SVS (Single village scheme)				Remaining
		Total number of PWS Schemes	Number of PWS Schemes with source	Total number of sources	Total number of geo-tagged sources	
Total		A	B	C	D	E(C-D)
		26,566	25,395	27,092	2,573	24,519
1	Almora	2,660	2,592	3,688	121	3,567
2	Bageshwar	1,414	1,273	1,161	72	1,089
3	Chamoli	2,082	2,032	1,730	130	1,600
4	Champawat	1,543	1,393	1,390	91	1,299
5	Dehradun	1,407	1,384	1,408	177	1,231
6	Hardwar	629	629	973	234	739
7	Nainital	1,483	1,439	1,784	158	1,626
8	PAURI GARHWAL	4,121	3,986	4,343	763	3,580
9	Pithoragarh	2,802	2,726	2,922	246	2,676
10	Rudraprayag	1,571	1,459	1,221	91	1,130
11	Tehri Garhwal	3,703	3,535	3,271	186	3,085
12	Udham Singh Nagar	779	723	968	213	755
13	Uttarkashi	2,372	2,224	2,233	91	2,142
	Total	26,566	25,395	27,092	2,573	24,519

Source: <https://ejalshakti.gov.in>

Report Printed On 06/02/2024 05:02:02



उत्तराखण्ड जल संस्थान

कार्यालय अधिशासी अभियन्ता, अनुरक्षण खण्ड,
निकट विकास भवन लदाड़ी, उत्तरकाशी-249193



दूरभाष नं० :- 01374222206(काया) 01374222370(गैवरा)

ई-मेल:- ceuki-ujs-uk@nic.in ujsultarkashi@gmail.com

पत्रांक २५३९ /क्लोरीनेशन/2023-24

दिनांक 30/01 2024

सेवा में,

सचिव (अप्रैजल)
उत्तराखण्ड जल संस्थान
जल भवन, बी ब्लॉक नेहरू कॉलोनी,
देहरादून ।

विषय:- केंद्रीय भूमि जल बोर्ड के अनुसार उत्तराखण्ड राज्य के भूजल में आर्सेनिक एवं फ्लोराइड की मात्रा भारतीय मानक ब्यूरो द्वारा निर्धारित अनुमेय सीमा से अधिक होने के सम्बन्ध में।

महोदय,

उपरोक्त विषयक आपके कार्यालय पत्रांक 8823/JJM-Arsenic & Fluoride/2023-24 दिनांक 27.01.2024 के सम्बन्ध में सादर अवगत कराना है कि वर्तमान में मनेरी एवं चडेथी में स्थित हैण्डपम्पों में आर्सेनिक पाये जाने के कारण दोनों हैण्ड पम्पों का उपयोग बन्द है तथा गंगनानी में स्थित स्प्रिंग में आर्सेनिक एवं फ्लोराइड पाये जाने के कारण जल संस्थान द्वारा यह पेयजल के रूप में उपयोग नहीं किया जाता है। ग्राम गंगनानी में अन्य पेयजल स्रोत नरगड़ा नामक तोक से जलापूर्ति की जाती है।

अतः उपरोक्त क्रम में सादर सूचनार्थ ।

भवदीय

(एल०सी० रमोला)
अधिशासी अभियन्ता

पृ०सं० एवं दिनांक तदैव

प्रतिलिपि:- निम्न को सादर सूचनार्थ प्रेषित ।

1. मुख्य महाप्रबन्धक, महोदय उत्तराखण्ड जल संस्थान, देहरादून।
2. महाप्रबन्धक (मु०), महोदय उत्तराखण्ड जल संस्थान, देहरादून।
3. अधीक्षण अभियन्ता, महोदय उत्तराखण्ड जल संस्थान नई टिहरी।

अधिशासी अभियन्ता

☀ चैतावनी ☀

नोंले का पानी पीने योग्य नहीं है। कृपया इस
पानी का उपयोग पेयजल के रूप में नहीं करें,

अधिरासी अभियन्ता,
जल संस्थान अल्मोड़ा (उत्तराखण्ड)

धन्यवाद

14 Jan 2024 3:19:08 p
29°35'58.428"N 79°39'48.984"

Dharanau

Bak

Kumaon Divisio

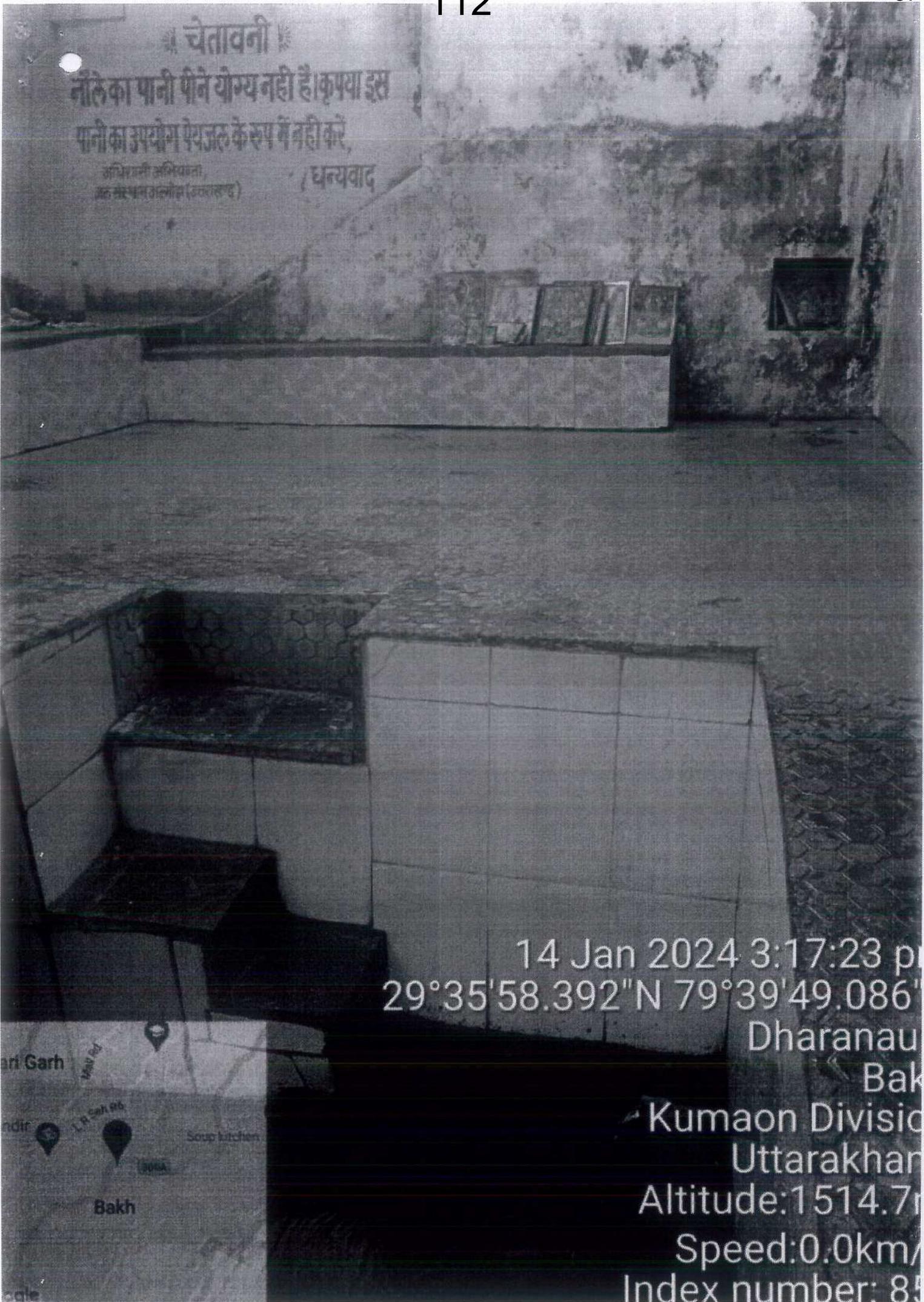
Uttarakhar

Altitude: 1515.2m

Speed: 2.6km/h

Index number: 85





अल्मोड़ा में हैं 53 प्राकृतिक जल स्रोत

संवाद न्यूज एजेंसी

अल्मोड़ा। नगर सहित इससे सटे क्षेत्रों में 53 नौले-धारे हैं। इनसे हर रोज बड़ी आबादी अपनी प्यास बुझाती है। कई होटलों में भी इन जल स्रोतों के पानी का उपयोग खाना, चाय बनाने के साथ ही पीने के लिए होता है।



चेतावनी
नौले का पानी पीने योग्य नहीं है। इसका इस
पानी का इस्तेमाल केवल मवेशी के, पशुवार

इस प्राकृतिक जल स्रोत में मिला है कोलीफॉर्म बैक्टीरिया। संवाद

■ ट्रीटमेंट होना
मुश्किल : जल संस्थान के मुताबिक पूरे में नगर की सीमित आबादी के बीच यह नौले-धारे शुद्ध थे। अब नगर की आबादी खाड़ी बढ़ी है और प्राकृतिक जल स्रोतों के आसपास कंक्रीट का जाल बिछ चुका है। ऐसे में सीवर सहित अन्य गंदगी जमीन के भीतर रिस कर इन जल स्रोतों में मिल रही है। ऐसे में इनका ट्रीटमेंट करना लगभग असंभव है।

वन संपदा जलकर राख हो गई है।

प्रशासन को जंगल में आग लगने

नौलों का पानी भी पीने लायक नहीं

अल्मोड़ा के 10 प्राकृतिक जलस्रोतों में मिला कोलीफॉर्म बैक्टीरिया

संजय नथाल

अल्मोड़ा। नौलों की नगरी के नाम से प्रसिद्ध अल्मोड़ा में प्राकृतिक नौलों-धारों का पानी भी दूषित हो रहा है। अब इन नौलों का पानी पीने योग्य नहीं हो रहा है। इन स्रोतों के पानी में कोलीफॉर्म बैक्टीरिया मौजूद है। जल संस्थान की जांच में इसकी पुष्टि हुई है। इन स्रोतों में 30 से 50 एम्पीएन कोलीफॉर्म पाया गया है।

नगर में पीलिया, टायफाइड, डायरिया के बढ़ते मरीजों की संख्या को देखते हुए जल संस्थान ने सात से 10 जनवरी के बीच नगर के प्राकृतिक जल स्रोतों के पानी के सैंपल लेकर जांच की। इसकी रिपोर्ट आने पर चिंतजनक तथ्य सामने आए हैं। 15 में से 10 नौलों-धारों में कोलीफॉर्म

30

से 50

एम्पीएन

कोलीफॉर्म

पाया गया

■ इन स्रोतों की हुई जांच : फलसीमा बंड नौला, गोलना करडिया धारा, तल्ला ओढ़खोला राजपुर नौला, सरसों, बाड़ीबगीचा के तीन, धारानौला, गणेशीगर, मुरली मनोहर जोशी वार्ड डोबा नौला

कोलीफॉर्म बैक्टीरिया

मिश्रित पानी का उपयोग

स्वास्थ्य की दृष्टि से सही नहीं है। इससे पीलिया, टायफाइड,

डायरिया, आंतों में सूजन और घाव, मूत्र विकार हो सकते हैं।

जल स्रोतों का पानी छानकर और उबालकर ही सेवन करें।

- डॉ. आरसी पंत सीएमओ

कहां कितना बैक्टीरिया मिला

पांच जल स्रोतों में बैक्टीरिया की मात्रा अधिक है तो पांच में थोड़ा कम। धारानौला के नौले में

सबसे अधिक मात्रा 49.50,

मुरली मनोहर वार्ड के डोबानौला में 35.25

एम्पीएन कोलीफॉर्म मिला है। इसके अलावा आठ

अन्य नौले-धारे हैं जिनमें यह बैक्टीरिया मिला है।

ऐसे में जल संस्थान ने इन प्राकृतिक जल स्रोतों के

पानी को पीने योग्य ही नहीं बताया है। विभाग ने

चेतावनी बोर्ड लगा दिए हैं। जल संस्थान जल्द ही

अन्य प्राकृतिक जल स्रोतों के पानी के सैंपल लेगा।

विभाग की सलाह

जल संस्थान के एई

मंजुल मेहता का कहना

है कि नगर में 10

प्राकृतिक जल स्रोतों

पानी में कोलीफॉर्म

बैक्टीरिया मिला है।

स्रोतों पर चेतावनी

लगाए गए हैं। अन्य

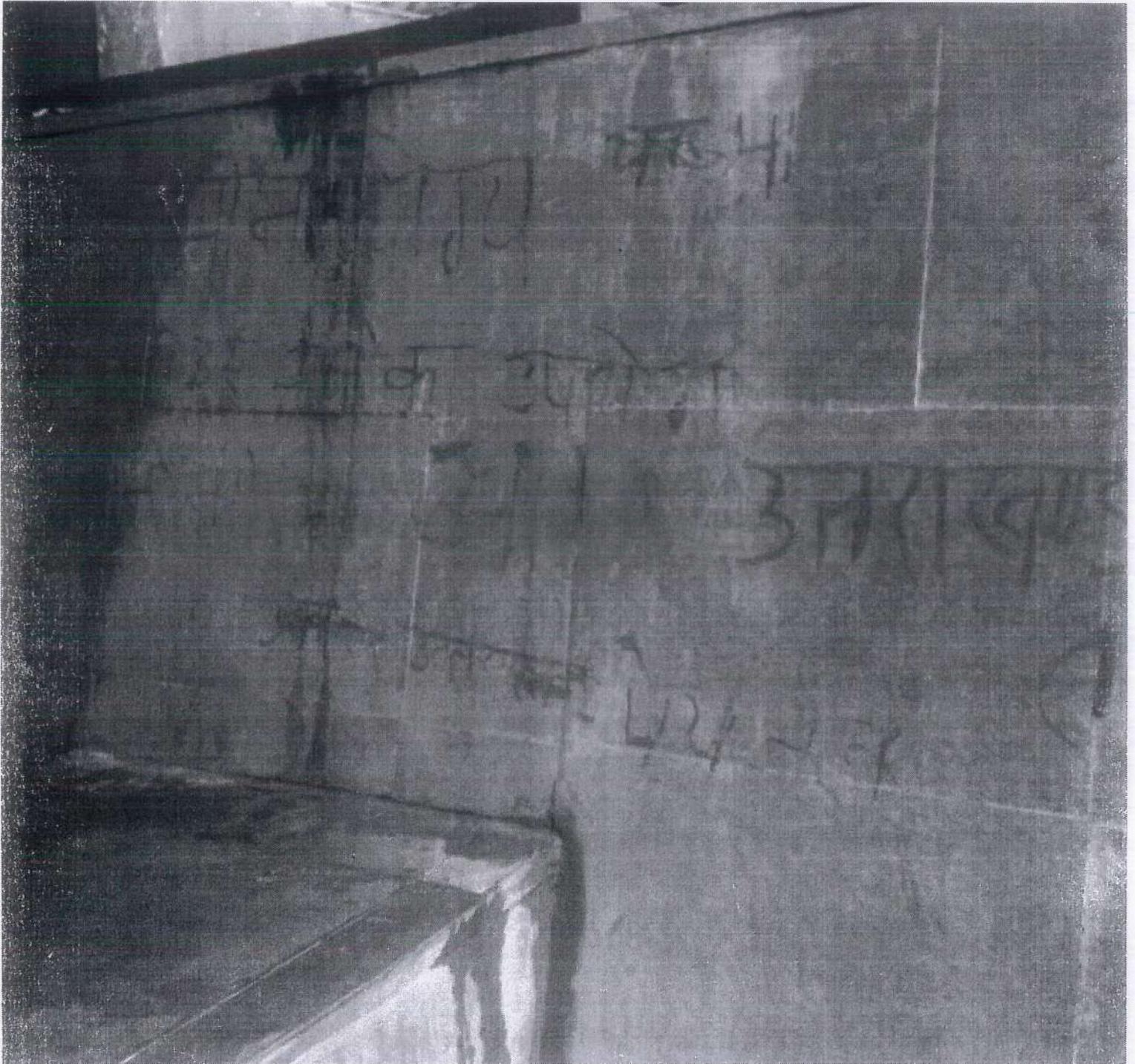
स्रोतों के पानी की भी

सैंपलिंग होगी।

Ganguani Location (Bhatwari Block)
Uttarkashi

यह पानी पीने योग्य नहीं
कृपया इस पानी का उपयोग पेपलर रूप में नहीं करें

Gangnani Location (Bhatwani Block)
Uttamgarhi





117

District Level Water Quality Testing and Monitoring Laboratory

Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun

Ph (O): 0135-2746137, E-mail: eenorth-ujs-uk@nic.in

Dated: 01/02/2024

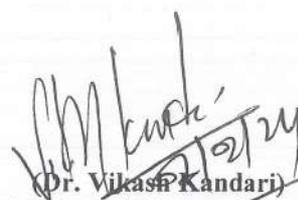
TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Uttarakashi		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Chedhti/Source
Reference Sample Identification:	DLWQTML/UJS/01	Date of Start of Analysis: 31/01/2024	
		Date of End of Analysis: 01/02/2024	
Date and Time of Sample Received: 31/01/24 & 02:25 PM	Sample Collected by:	Customer	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:201 2	Permissible Limit (BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, ppb	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


 (Dr. Vikash Kandari)
 Technical Manager, Lab



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun
 Ph (O): 0135-2746137, E-mail: eenorth-ujs-uk@nic.in

Dated: 01/02/2024

TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Uttarakashi		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Spring/ Gangnani Inlet
Reference Sample Identification:	DLWQTML/UJS/02		Date of Start of Analysis: 31/01/2024
			Date of End of Analysis: 01/02/2024
Date and Time of Sample Received: 31/01/24 & 02:25 PM	Sample Collected by:	Customer	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit (BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, ppb	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


 (Dr. Vikash Kandari)
 Technical Manager, Lab

-End of Report -


District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun

 Ph (O): 0135-2746137, E-mail: eenorth-ujs-uk@nic.in
Dated: 01/02/2024
TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Uttarakashi		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Source Maneri
Reference Sample Identification:	DLWQTML/UJS/03		Date of Start of Analysis: 31/01/2024
			Date of End of Analysis: 01/02/2024
Date and Time of Sample Received: 31/01/24 & 02:25 PM	Sample Collected by:		Customer

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:201 2	Permissible Limit (BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, ppb	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not to be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


(Dr. Vikash Kandari)
Technical Manager, Lab

-End of Report -



**District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, Almora**

Phone No.: 05962-2234049, E-mail: eealm.uj.s.uk@gmail.com

Test Report ID: 688 /UJS/DLWQTML/2023-24

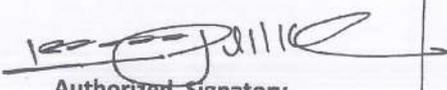
Dated:08/01/2024

WATER QUALITY TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Almora		
Type of Source (Surface Water/ Ground Water/ Sub-Surface Water)	DRINKING WATER	SAMPLE DESCRIPTION	ONE WATER SAMPLE COLLECTED FROM FALSEEMA BAND NAULA, BLOCK-HAWALBAGH, ALMORA.
Reference Sample Identification:	DLWQTML/UJS/ALM/EE-01	DATE OF START OF ANALYSIS 08/01/2024	
		DATE OF END OF ANALYSIS 08/01/2024	
Date and Time of Sample Received: 07/01/2024 06:00PM	Sample Collected by:	Mr. Tarun Bisht (Sampling Assistant)	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As Per IS 10500:2012 (BIS)	Permissible Limit (BIS) in the Absence of alternative source	Std. Test Method
1.	Arsenic, mg/l,	Not Detected	0.01	No Relaxation	APHA 3500-As B


(Lab Chemist)
Pappu Bisht
Lab U. J. S., Almora


Authorized Signatory
(Assistant Engineer)
Authorized Signatory
District Water Quality Testing
Monitoring Laboratory
Uttarakhand Jal Sansthan, Almora

-End of Report-

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after fifteen days from the date of issue of test certificate, unless otherwise agreed with customer.
4. Result apply to the sample as received.
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer.



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, Almora
 Phone No.: 05962-2234049, E-mail: eealm.ujs.uk@gmail.com

Test Report ID: 689 /UJS/DLWQTML/2023-24

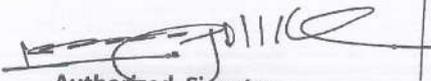
Dated:08/01/2024

WATER QUALITY TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Almora		
Type of Source (Surface Water/ Ground Water/ Sub-Surface Water)	DRINKING WATER	SAMPLE DESCRIPTION	ONE WATER SAMPLE COLLECTED FROM GOLNA KARADIYA NAULA, BLOCK-HAWALBAGH, ALMORA.
Reference Sample Identification:	DLWQTML/UJS/ALM/EE-02	DATE OF START OF ANALYSIS 08/01/2024	
		DATE OF END OF ANALYSIS 08/01/2024	
Date and Time of Sample Received: 07/01/2024 06:00PM	Sample Collected by:	Mr. Tarun Bisht (Sampling Assistant)	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As Per IS 10500:2012 (BIS)	Permissible Limit (BIS) in the Absence of alternative source	Std. Test Method
1.	Arsenic, mg/l,	Not Detected	0.01	No Relaxation	APHA 3500-As B


 (Lab Chemist)
 Pappu Bisht
 Lab U. J. S., Almora


 Authorized Signatory
 (Assistant Engineer)
 Authorised Signatory
 District Water Quality Testing
 Monitoring Laboratory
 Uttarakhand Jal Sansthan, Almora

-End of Report-

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after fifteen days from the date of issue of test certificate, unless otherwise agreed with customer.
4. Result apply to the sample as received.
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer.



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, Almora
 Phone No.: 05962-2234049, E-mail: eealm.ujs.uk@gmail.com

Test Report ID: 690 /UJS/DLWQTML/2023-24

Dated:08/01/2024

WATER QUALITY TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Almora		
Type of Source (Surface Water/ Ground Water/ Sub-Surface Water)	DRINKING WATER	SAMPLE DESCRIPTION	ONE WATER SAMPLE COLLECTED FROM GOLNA KARADIYA DHARA, BLOCK-HAWALBAGH , ALMORA.
Reference Sample Identification:	DLWQTML/UJS/ALM/EE-03		DATE OF START OF ANALYSIS 08/01/2024
			DATE OF END OF ANALYSIS 08/01/2024
Date and Time of Sample Received: 07/01/2024 06:00PM	Sample Collected by:	Mr. Tarun Bisht (Sampling Assistant)	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As Per IS 10500:2012 (BIS)	Permissible Limit (BIS) in the Absence of alternative source	Std. Test Method
1.	Arsenic, mg/l,	Not Detected	0.01	No Relaxation	APHA 3500-As B


 (Lab Chemist)
 Pappu Bisht
 Lab U. J. S., Almora


 Authorized Signatory
 (Assistant Engineer)
 Authorised Signatory
 District Water Quality Testing
 Monitoring Laboratory
 Uttarakhand Jal Sansthan, Almora

-End of Report-

- The results listed refer only to tested sample and applicable parameters.
- This certificate is not to be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
- The samples will be destroyed after fifteen days from the date of issue of test certificate, unless otherwise agreed with customer.
- Result apply to the sample as received.
- The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer.



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, Almora
 Phone No.: 05962-2234049, E-mail: eealm.ujs.uk@gmail.com

Test Report ID: 691 /UJS/DLWQTML/2023-24

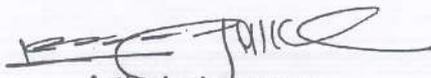
Dated:08/01/2024

WATER QUALITY TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Almora		
Type of Source (Surface Water/ Ground Water/Sub-Surface Water)	DRINKING WATER	SAMPLE DESCRIPTION	ONE WATER SAMPLE COLLECTED FROM TALLA ODHKHOLA NAULA (RAJPUR WARD), BLOCK- HAWALBAGH, ALMORA.
Reference Sample Identification:	DLWQTML/UJS/ALM/EE-04	DATE OF START OF ANALYSIS 08/01/2024	
		DATE OF END OF ANALYSIS 08/01/2024	
Date and Time of Sample Received: 07/01/2024 06:00PM	Sample Collected by:	Mr. Mohan Giri (Sampling Assistant)	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As Per IS 10500:2012 (BIS)	Permissible Limit (BIS) in the Absence of alternative source	Std. Test Method
1.	Arsenic, mg/l,	Not Detected	0.01	No Relaxation	APHA 3500-As B


 (Lab Chemist)
 Pappu Bisht
 Lab U. J. S., Almora


 Authorized Signatory
 (Assistant Engineer)
 Authorised Signatory
 District Water Quality Testing
 Monitoring Laboratory
 Uttarakhand Jal Sansthan, Almora

-End of Report-

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after fifteen days from the date of issue of test certificate, unless otherwise agreed with customer.
4. Result apply to the sample as received.
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer.



**District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, Almora**

Phone No.: 05962-2234049, E-mail: eealm.ujs.uk@gmail.com

Test Report ID: 692 /UJS/DLWQTML/2023-24

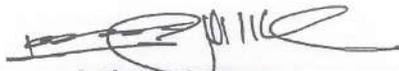
Dated:08/01/2024

WATER QUALITY TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Almora		
Type of Source (Surface Water/ Ground Water/ Sub-Surface Water)	DRINKING WATER	SAMPLE DESCRIPTION	ONE WATER SAMPLE COLLECTED FROM SARSO NAULA (RAMNAULA), BLOCK-HAWALBAGH, ALMORA.
Reference Sample Identification:	DLWQTML/UJS/ALM/EE-05		DATE OF START OF ANALYSIS 08/01/2024
			DATE OF END OF ANALYSIS 08/01/2024
Date and Time of Sample Received: 07/01/2024 06:00PM	Sample Collected by:	Mr. Mohan Giri (Sampling Assistant)	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As Per IS 10500:2012 (BIS)	Permissible Limit (BIS) in the Absence of alternative source	Std. Test Method
1.	Arsenic, mg/l,	Not Detected	0.01	No Relaxation	APHA 3500-As B


 (Lab Chemist)
 Pappu Bisht
 Lab U. J. S., Almora


 Authorized Signatory
 (Assistant Engineer)
 Authorized Signatory
 District Water Quality Testing
 Monitoring Laboratory
 Uttarakhand Jal Sansthan, Almora

-End of Report-

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after fifteen days from the date of issue of test certificate, unless otherwise agreed with customer.
4. Result apply to the sample as received.
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer.



**District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, Almora**

Phone No.: 05962-2234049, E-mail: cealm.ujs.uk@gmail.com

Test Report ID: 693 /UJS/DLWQTML/2023-24

Dated:08/01/2024

WATER QUALITY TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Almora		
Type of Source (Surface Water/ Ground Water/ Sub-Surface Water)	DRINKING WATER	SAMPLE DESCRIPTION	ONE WATER SAMPLE COLLECTED FROM BARI BAGHICHA NAULA 1 ST , BLOCK-HAWALBAGH, ALMORA.
Reference Sample Identification:	DLWQTML/UJS/ALM/EE-06		DATE OF START OF ANALYSIS 08/01/2024
			DATE OF END OF ANALYSIS 08/01/2024
Date and Time of Sample Received: 07/01/2024 06:00PM	Sample Collected by:	Mr. Mohan Giri (Sampling Assistant)	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As Per IS 10500:2012 (BIS)	Permissible Limit (BIS) in the Absence of alternative source	Std. Test Method
1.	Arsenic, mg/l,	Not Detected	0.01	No Relaxation	APHA 3500-As B


(Lab Chemist)
Pappu Bisht
Lab U. J. S., Almora


Authorized Signatory
(Assistant Engineer)
Authorized Signatory
District Water Quality Testing
Monitoring Laboratory
Uttarakhand Jal Sansthan, Almora

-End of Report-

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after fifteen days from the date of issue of test certificate, unless otherwise agreed with customer.
4. Result apply to the sample as received.
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer.



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, Almora
 Phone No.: 05962-2234049, E-mail: cealm.ujs.uk@gmail.com

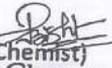
Test Report ID: 695 /UJS/DLWQTML/2023-24

Dated:08/01/2024

WATER QUALITY TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Almora		
Type of Source (Surface Water/ Ground Water/ Sub-Surface Water)	DRINKING WATER	SAMPLE DESCRIPTION	ONE WATER SAMPLE COLLECTED FROM DHARANAULA NAULA ,1ST, BLOCK-HAWALBAGH , ALMORA.
Reference Sample Identification:	DLWQTML/UJS/ALM/EE-08		DATE OF START OF ANALYSIS 08/01/2024
			DATE OF END OF ANALYSIS 08/01/2024
Date and Time of Sample Received: 07/01/2024 06:00PM	Sample Collected by:	Mr. Mohan Giri (Sampling Assistant)	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As Per IS 10500:2012 (BIS)	Permissible Limit (BIS) in the Absence of alternative source	Std. Test Method
1.	Arsenic, mg/l,	Not Detected	0.01	No Relaxation	APHA 3500-As B


 (Lab Chemist)
 Pappu Bisht
 Lab U. J. S., Almora


 Authorized Signatory
 (Assistant Engineer)
 Authorised Signatory
 District Water Quality Testing
 Monitoring Laboratory
 Uttarakhand Jal Sansthan, Almora

-End of Report-

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not to be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after fifteen days from the date of issue of test certificate, unless otherwise agreed with customer.
4. Result apply to the sample as received.
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer.



**District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, Almora**

Phone No.: 05962-2234049, E-mail: eealm.ujs.uk@gmail.com

Test Report ID: 696 /UJS/DLWQTML/2023-24

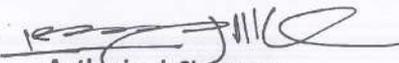
Dated:08/01/2024

WATER QUALITY TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Almora		
Type of Source (Surface Water/ Ground Water/Sub-Surface Water)	DRINKING WATER	SAMPLE DESCRIPTION	ONE WATER SAMPLE COLLECTED FROM DHARANAULA NAULA ,2ND, (GANESHI GAIR), BLOCK- HAWALBAGH , ALMORA.
Reference Sample Identification:	DLWQTML/UJS/ALM/EE-09		DATE OF START OF ANALYSIS 08/01/2024
			DATE OF END OF ANALYSIS 08/01/2024
Date and Time of Sample Received: 07/01/2024 06:00PM	Sample Collected by:	Mr. Mohan Giri (Sampling Assistant)	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As Per IS 10500:2012 (BIS)	Permissible Limit (BIS) in the Absence of alternative source	Std. Test Method
1.	Arsenic, mg/l,	Not Detected	0.01	No Relaxation	APHA 3500-As B


(Lab Chemist)
Pappu Bisht
Lab U. J. S., Almora


Authorized Signatory
(Assistant Engineer)
Authorised Signatory
District Water Quality Testing
Monitoring Laboratory
Uttarakhand Jal Sansthan, Almora

-End of Report-

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after fifteen days from the date of issue of test certificate, unless otherwise agreed with customer.
4. Result apply to the sample as received.
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer.



**District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, Almora**

Phone No.: 05962-2234049, E-mail: eealm.ujs.uk@gmail.com

Test Report ID: 697 /UJS/DLWQTML/2023-24

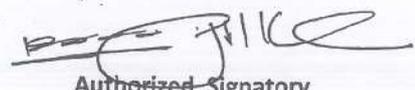
Dated:08/01/2024

WATER QUALITY TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Almora		
Type of Source (Surface Water/ Ground Water/ Sub-Surface Water)	DRINKING WATER	SAMPLE DESCRIPTION	ONE WATER SAMPLE COLLECTED FROM DOBA NAULA ,(WARD MURLIMANO HAR), BLOCK- HAWALBAGH, ALMORA.
Reference Sample Identification:	DLWQTML/UJS/ALM/EE-10		DATE OF START OF ANALYSIS 08/01/2024
			DATE OF END OF ANALYSIS 08/01/2024
Date and Time of Sample Received: 07/01/2024 06:00PM	Sample Collected by: Mr. Tarun Bisht (Sampling Assistant)		

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As Per IS 10500:2012 (BIS)	Permissible Limit (BIS) in the Absence of alternative source	Std. Test Method
1.	Arsenic, mg/l,	Not Detected	0.01	No Relaxation	APHA 3500-As B


(Lab Chemist)
Pappu Bisht
Lab U. J. S., Almora


Authorized Signatory
(Assistant Engineer)
Authorised Signatory
District Water Quality Testing
Monitoring Laboratory
Uttarakhand Jal Sansthan, Almora

-End of Report-

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after fifteen days from the date of issue of test certificate, unless otherwise agreed with customer.
4. Result apply to the sample as received.
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer.



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun
 Ph (O): 0135-2746137, E-mail: eenorth-ujs-uk@nic.in

Dated: 19/01/2024

TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Haridwar.		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Chudiala T/W
Reference Sample Identification:	DLWQTML/UJS/01		Date of Start of Analysis: 18/01/2024
Date and Time of Sample Received: 18/01/24 & 11:45 AM	Sample Collected by:	Date of End of Analysis: 19/01/2024 Customer	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit (BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not to be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****

(Signature)
 Dr. Vikash Khandelwal
 Technical Director, Lab
 DLWQTML
 Uttarakhand Jal Sansthan



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun
Ph (O): 0135-2746137, E-mail: eenorth-ujs-uk@nic.in

Dated: 19/01/2024

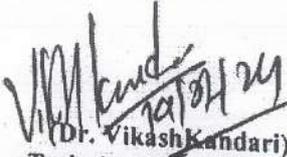
TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Haridwar.		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Bahabalpur Near Barat GharHandpump
Reference Sample Identification:	DLWQTML/UJS/02	Date of Start of Analysis:	18/01/2024
Date and Time of Sample Received: 18/01/24 & 11:45 AM	Sample Collected by:	Date of End of Analysis:	19/01/2024
		Customer	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit(BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


(Dr. Vikash Kandari)
Authorized Signature
DLWQTML
Uttarakhand Jal Sansthan



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun
 Ph (O): 0135-2746137, E-mail: eenorth-ujs-uk@nic.in

Dated: 19/01/2024

TEST REPORT

Name and Address of Organization/ Customer		Executive Engineer, Uttarakhand Jal Sansthan, Haridwar	
Product Description	Drinking Water	Sample Description	One Water Sample collected from Roorkee (Mohammadpur Near School Handpump)
Reference Sample Identification:	DLWQTML/UJS/03		Date of Start of Analysis: 18/01/2024
Date and Time of Sample Received: 18/01/24 & 11:45 AM	Sample Collected by:	Customer	
		Date of End of Analysis: 19/01/2024	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit(BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not detected	0.01	No Relaxation	APHA 3500-As B

- 1 The results listed refer only to tested sample and applicable parameters.
- 2 This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
- 3 The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
- 4 The results apply to the sample as received
- 5 The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****

(Signature)
 (Dr. Vikash Khandari)
 Authorized Signature
 DLWQTML
 Uttarakhand Jal Sansthan



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun
 Ph (O): 0135-2746137, E-mail: eenorth-ujs-uk@nic.in

Dated: 19/01/2024

TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Haridwar.		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Khanpur (Handpump)
Reference Sample Identification:	DLWQTML/UJS/04		Date of Start of Analysis: 18/01/2024
Date and Time of Sample Received: 18/01/24 & 11:45 AM	Sample Collected by:	Customer	
		Date of End of Analysis: 19/01/2024	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit(BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


 (Dr. Vikash Kandari)
 Technical Manager, Lab
 Authorized Signature
 DLWQTML
 Uttarakhand Jal Sansthan.



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun
 Ph (O): 0135-2746137, E-mail: eenorth-ujs-uk@nic.in

Dated: 19/01/2024

TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan. Haridwar.		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Goverdhanpur Tubewell
Reference Sample Identification:	DLWQTML/UJS/05		Date of Start of Analysis: 18/01/2024
			Date of End of Analysis: 19/01/2024
Date and Time of Sample Received: 18/01/24 & 11:45 AM	Sample Collected by:	Customer	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit(BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****

(Handwritten Signature)
 (Dr. Vikash Khandari)
 Authorized Manager, Lab
 DLWQTML
 Uttarakhand Jal Sansthan



134

District Level Water Quality Testing and Monitoring Laboratory

Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun

Ph (O): 0135-2746137, E-mail: eenorth-ujs-uk@nic.in

Dated: 19/01/2024

TEST REPORT

Name and Address of Organization/ Customer		Executive Engineer, Uttarakhand Jal Sansthan, Haridwar.	
Product Description	Drinking Water	Sample Description	One Water Sample collected from Roorkee, Mohammadpur W/Scheme
Reference Sample Identification:	DLWQTML/UJS/01		Date of Start of Analysis: 18/01/2024
			Date of End of Analysis: 19/01/2024
Date and Time of Sample Received: 18/01/24 & 04:40 PM		Sample Collected by:	Customer

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit (BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, ppb	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


 (Dr. Vikash Kandari)
 Technical Manager, Lab



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun
 Ph (O): 0135-2746137, E-mail: cenorth-ujs-uk@nic.in

Dated: 29/12/2023

TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Dehradun.		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Khushalpur, Shaspur
Reference Sample Identification:	DLWQTML/UJS/EE-03		Date of Start of Analysis: 28/12/2023
			Date of End of Analysis: 29/12/2023
Date and Time of Sample Received: 28/12/23 & 10:40 AM	Sample Collected by:	Customer	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit (BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not Detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


 Vikash Kandari
 Technical Manager, Lab
 DLWQTML
 Uttarakhand Jal Sansthan
 Dehradun



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun
 Ph (O): 0135-2746137, E-mail: ecnorth-ujs-uk@nic.in

Dated: 29/12/2023

TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Dehradun.		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Laxmipur, Shaspur
Reference Sample Identification:	DLWQTML/UJS/EE-04		Date of Start of Analysis: 28/12/2023
			Date of End of Analysis: 29/12/2023
Date and Time of Sample Received: 28/12/23 & 10:40 AM	Sample Collected by:		Customer

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit (BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not to be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


 (Dr. Vikash Kandari)
 Technical Manager, Lab
 DLWQTML
 Uttarakhand Jal Sansthan
 Dehradun



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun
 Ph (O): 0135-2746137, E-mail: cenorth-ujs-uk@nic.in

Dated: 29/12/2023

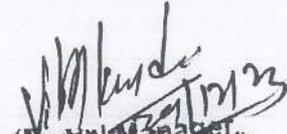
TEST REPORT

Name and Address of Organization/ Customer		Executive Engineer, Uttarakhand Jal Sansthan, Dehradun.	
Product Description	Drinking Water	Sample Description	One Water Sample collected from Hukumatpur, Shaspur
Reference Sample Identification:	DLWQTML/UJS/EE-05		Date of Start of Analysis: 28/12/2023
			Date of End of Analysis: 29/12/2023
Date and Time of Sample Received: 28/12/23 & 10:40 AM		Sample Collected by:	Customer

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit (BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


 Technical Manager (i)
 DLWQTML
 Uttarakhand Jal Sansthan
 Dehradun



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun
 Ph (O): 0135-2746137, E-mail: cenorth-ujs-uk@nic.in

Dated: 29/12/2023

TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Dehradun.		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Chharba, Shaspur
Reference Sample Identification:	DLWQTML/UJS/EE-06		Date of Start of Analysis: 28/12/2023
			Date of End of Analysis: 29/12/2023
Date and Time of Sample Received: 28/12/23 & 10:40 AM	Sample Collected by:	Customer	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit (BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,		0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


 Technical Manager,
 (UJS/EE-06)
 Utrakhand Jal Sansthan
 Dehradun

-End of Report-



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun
 Ph (O): 0135-2746137, E-mail: cenorth-uj-s-uk@nic.in

Dated: 29/12/2023

TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Dehradun.		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Selqui Handpump Shaspur
Reference Sample Identification:	DLWQTML/UJS/EE-02		Date of Start of Analysis: 28/12/2023
Date and Time of Sample Received: 28/12/23 & 10:40 AM	Sample Collected by:	Date of End of Analysis: 06/01/2023	
		Customer	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit (BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not Detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not to be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****

(Signature)
 Technical Manager
 (Dr. Vijay Kantari)
 DLWQTML
 Uttarakhand Jal Sansthan
 Dehradun



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun
 Ph (O): 0135-2746137, E-mail: cenorth-ujs-uk@nic.in

Dated: 29/12/2023

TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Dehradun.		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Shankarpur, Tubewell, Shaspur
Reference Sample Identification:	DLWQTML/UJS/EEN-03		Date of Start of Analysis: 28/12/2023
			Date of End of Analysis: 29/12/2023
Date and Time of Sample Received: 28/12/23 & 10:40 AM	Sample Collected by:		Customer

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit (BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


 Technical Manager
 (Dr. V. K. Mandari)
 Technical Manager
 Uttarakhand Jal Sansthan
 Dehradun



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun
 Ph (O): 0135-2746137, E-mail: eenorth-ujs-uk@nic.in

Dated: 29/12/2023

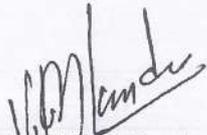
TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Dehradun.		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Shankarpur, Tubewell, Shaspur
Reference Sample Identification:	DLWQTML/UJS/EEN-03	Date of Start of Analysis:	28/12/2023
		Date of End of Analysis:	29/12/2023
Date and Time of Sample Received: 28/12/23 & 10:40 AM	Sample Collected by:	Customer	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit (BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


 (Dr. Vikash Kandari)
 Technical Manager Lab
 DLWQTML
 Uttarakhand Jal Sansthan
 Dehradun



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun
 Ph (O): 0135-2746137, E-mail: eenorth-ujs-uk@nic.in

Dated: 19/01/2024

TEST REPORT

Name and Address of Organization/ Customer:	Executive Engineer, Uttarakhand Jal Sansthan, Dehradun.		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Soda Saroli (Hand Pump)
Reference Sample Identification:	DLWQTML/UJS/01		Date of Start of Analysis: 18/01/2024
Date and Time of Sample Received: 18/01/24 & 11:45 AM	Sample Collected by:	Customer	
		Date of End of Analysis: 19/01/2024	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:201 2	Permissible Limit(BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****

V. Kash Kangari
 (Dr. Vikash Kangari)
 Authorized Signature
 DLWQTML
 Uttarakhand Jal Sansthan



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun
 Ph (O): 0135-2746137, E-mail: eenorth-ujs-uk@nic.in

Dated: 19/01/2024

TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Dehradun.		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Soda Saroli (Hand Pump-02)
Reference Sample Identification:	DLWQTML/UJS/02		Date of Start of Analysis: 18/01/2024
Date and Time of Sample Received: 18/01/24 & 11:45 AM	Sample Collected by:	Date of End of Analysis: 19/01/2024	
		Customer	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit(BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not to be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


 (Dr. Vikash Khandari)
 Authorised Signatory
 DLWQTML
 Uttarakhand Jal Sansthan



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun
 Ph (O): 0135-2746137, E-mail: eenorth-ujs-uk@nic.in

Dated: 19/01/2024

TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Dehradun.		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Soda Saroli (Tubewell)
Reference Sample Identification:	DLWQTML/UJS/03		Date of Start of Analysis: 18/01/2024
			Date of End of Analysis: 19/01/2024
Date and Time of Sample Received: 18/01/24 & 11:45 AM	Sample Collected by:	Customer	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit(BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not to be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


 Anil Khandari
 Authorized Signature
 Technical Manager, Lab
 DLWQTML
 Uttarakhand Jal Sansthan



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun
 Ph (O): 0135-2746137, E-mail: eenorth-ujs-uk@nic.in

Dated: 19/01/2024

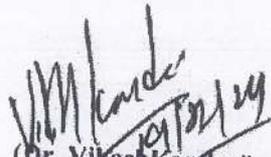
TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Dehradun.		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Maldevta (Hand Pump)
Reference Sample Identification:	DLWQTML/UJS/04	Date of Start of Analysis:	18/01/2024
Date and Time of Sample Received: 18/01/24 & 11:45 AM	Sample Collected by:	Date of End of Analysis:	19/01/2024
		Customer	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit(BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not detected	0.01 ✓	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


 (Dr. Vikash Kandari)
 Technical Manager, Lab
 Authorized Signature
 DLWQTML
 Uttarakhand Jal Sansthan



District Level Water Quality Testing and Monitoring Laboratory
 Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun
 Ph (O): 0135-2746137, E-mail: eenorth-ujs-uk@nic.in

Dated: 19/01/2024

TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Dehradun.		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Maldevta (Tubewell)
Reference Sample Identification:	DLWQTML/UJS/05		Date of Start of Analysis: 18/01/2024
Date and Time of Sample Received: 18/01/24 & 11:45 AM	Sample Collected by:	Date of End of Analysis: 19/01/2024	
		Customer	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:201 2	Permissible Limit(BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not to be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


 (Dr. Vikash Kandari)
 Authorized Signature
 DLWQTML
 Uttarakhand Jal Sansthan,



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun
 Ph (O): 0135-2746137, E-mail: eenorth-ujs-uk@nic.in

Dated: 19/01/2024

TEST REPORT

Name and Address of Organization/ Customer		Assistant Engineer, Uttarakhand Jal Sansthan, Rishikesh.	
Product Description	Drinking Water	Sample Description	One Water Sample collected from Doiwala, Mazargrant (Dujiyawala)
Reference Sample Identification:	DLWQTML/UJS/04		Date of Start of Analysis: 18/01/2024
			Date of End of Analysis: 19/01/2024
Date and Time of Sample Received: 18/01/24 & 11:45 AM	Sample Collected by:	Customer	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit (BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not to be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


 (Dr. Vikash Khandari)
 Technical Manager, Lab
Authorized Signature
DLWQTML
 Uttarakhand Jal Sansthan



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun
 Ph (O): 0135-2746137, E-mail: eenorth-ujs-uk@nic.in

Dated: 19/01/2024

TEST REPORT

Name and Address of Organization/ Customer	Assistant Engineer, Uttarakhand Jal Sansthan, Rishikesh.		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Doiwala (Badkot mazari Dujiyawala)
Reference Sample Identification:	DLWQTML/UJS/05		Date of Start of Analysis: 18/01/2024
			Date of End of Analysis: 19/01/2024
Date and Time of Sample Received: 18/01/24 & 10:30 AM	Sample Collected by:	Customer	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit (BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


 (Dr. Vikash Kandari)
 Technical Manager, Lab
 Authorized Signature
 DLWQTML
 Uttarakhand Jal Sansthan



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun
 Ph (O): 0135-2746137, E-mail: eenorth-ujs-uk@nic.in

Dated: 19/01/2024

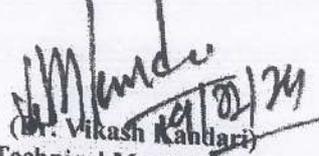
TEST REPORT

Name and Address of Organization/ Customer	Assistant Engineer, Uttarakhand Jal Sansthan, Rishikesh.		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Doiwala (Lal Tappad)
Reference Sample Identification:	DI.WQTML/UJS/01		Date of Start of Analysis: 18/01/2024
Date and Time of Sample Received: 18/01/24 & 10:30 AM	Sample Collected by:	Customer	
			Date of End of Analysis: 19/01/2024

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit (BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not detected	0.01	No Relaxation	APHA 3500-As B

- 1 The results listed refer only to tested sample and applicable parameters.
- 2 This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
- 3 The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
- 4 The results apply to the sample as received
- 5 The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


 (Dr. Vikash Khandari)
 Technical Manager, Lab
 Authorized Signature
 DLWQTML
 Uttarakhand Jal Sansthan



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun
 Ph (O): 0135-2746137, E-mail: eenorth-ujs-uk@nic.in

Dated: 19/01/2024

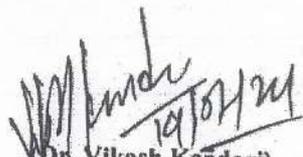
TEST REPORT

Name and Address of Organization/ Customer		Assistant Engineer, Uttarakhand Jal Sansthan, Rishikesh.		
Product Description		Drinking Water	Sample Description	One Water Sample collected from Doiwala (Lal Tappad Tubewell)
Reference Sample Identification:		DL.WQTML/UJS/03		Date of Start of Analysis: 18/01/2024
Date and Time of Sample Received: 18/01/24 & 10:30AM		Sample Collected by:		Date of End of Analysis: 19/01/2024
				Customer

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit (BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L.	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not to be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


 Dr. Vikash Kandari
 Technical Manager, Lab
 Authorized Signature
 DLWQTML
 Uttarakhand Jal Sansthan



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun
 Ph (O): 0135-2746137, E-mail: eenorth-ujs-uk@nic.in

Dated: 19/01/2024

TEST REPORT

Name and Address of Organization/ Customer	Assistant Engineer, Uttarakhand Jal Sansthan, Rishikesh.		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Doiwala, Mazarigrant (Lal Tappad)
Reference Sample Identification:	DLWQTML/UJS/02		Date of Start of Analysis: 18/01/2024
Date and Time of Sample Received: 18/01/24 & 10:30 AM		Sample Collected by:	Customer
			Date of End of Analysis: 19/01/2024

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit (BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not to be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


 (Dr. Vikash Kantari)
 Technical Manager, Lab
 Authorized Signature
 DLWQTML
 Uttarakhand Jal Sansthan



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun
 Ph (O): 0135-2746137, E-mail: eenorth-ujs-uk@nic.in

Dated: 19/01/2024

TEST REPORT

Name and Address of Organization/ Customer	Assistant Engineer, Uttarakhand Jal Sansthan, Vikasnagar.		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Judli, Aaduwala w/s scheme
Reference Sample Identification:	DLWQTML/UJS/01		Date of Start of Analysis: 18/01/2024
			Date of End of Analysis: 19/01/2024
Date and Time of Sample Received: 18/01/24 & 12:30 PM	Sample Collected by:	Customer	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit (BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, ppb	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


 (Dr. Vikash Kandari)
 Technical Manager, Lab

-End of Report -



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, Rudrapur (U.S.Nagar)
 Ph (O): 059444-250631, E-mail: ceudmujs@gmail.com

Dated: 17/01/2024

WATER QUALITY TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Rudrapur (U.S.Nagar)		
Product Description	Drinking Water	Sample Description	One water sample Submitted From Kabristan Tank Block- Sitarganj Tubewell
Reference Sample Identification:	DLWQ1ML.UJS.EF/02		Date of Start of Analysis: 12/01/2024 Date of End of Analysis: 15/01/2024
Date and Time of Sample Received:	12.01.2024 & 11:30AM	Sample Collected by:	Customer

Sr. No.	Parameters	Results	Acceptable Limit(BIS)	Permissible Limit(BIS) in the Absence of alternative Source	Std. Test Method
1.	Arsenic,mg/l	Not Detected	0.01	No Relaxation	APHA 3500-A:3

Remark: Above received water sample conforms to IS: 10500-2012 for drinking purpose with respect to above tests.

P. S.
Chemist

संयोजक
 सारदा प्रबोधशाला
 जल संस्था
 रुद्रपुर नगर

-End of Report-

- The results listed refer only to tested sample and applicable parameters.
- The certificate is not to be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
- The samples will be destroyed after fifteen days from the date of issue of test certificate, unless otherwise agreed with customer.
- The results Apply to the Sample as received.



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, Rudrapur (U.S.Nagar)
 Ph (O): 059444-250631, E-mail: ccudmujs@gmail.com

Dated: 16/01/2024

WATER QUALITY TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Rudrapur (U.S.Nagar)		
Product Description	Drinking Water	Sample Description	One water sample Submitted From Kichha (Jal-kal) Block-Rudrapur Tubewell
Reference Sample Identification:	DLWQTML/UJS/EE/01		Date of Start of Analysis: 10.01.2024
			Date of End of Analysis : 15.01.2024
Date and Time of Sample Received: 10.01.2024 & 11:30AM	Sample Collected by:	Customer	

Sr. No.	Parameters	Results	Acceptable Limit(BIS)	Permissible Limit(BIS) in the Absence of alternative Source	Std. Test Method
1.	Arsenic, mg/l	Not Detected	0.01	No Relaxation	APHA 3500-AsB

Remark: Above received water sample conforms to IS: 10500-2012 for drinking purpose with respect to above tests.

Bh
Chemist

लैब कॅमिस्ट
 शाखा प्रयोगशाला
 उत्तराखण्ड जल संस्थान
 अखण्ड सिंह नगर

-End of Report-

- The results listed refer only to tested sample and applicable parameters.
- This certificate is not to be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
- The samples will be destroyed after fifteen days from the date of issue of test certificate, unless otherwise agreed with customer.
- The results Apply to the Sample as received.



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, Rudrapur (U.S. Nagar)
 Ph (O): 059444-250631, E-mail: ceudmujs@gmail.com

Dated: 17/01/2024

WATER QUALITY TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Rudrapur (U.S. Nagar)		
Product Description	Drinking Water	Sample Description	One water sample Submitted From Bidora Block-Sitarganj Tubewell
Reference Sample Identification:	DLWQTML/UJS/EE/02		Date of Start of Analysis: 12.01.2024
			Date of End of Analysis : 15.01.2024
Date and Time of Sample Received: 12.01.2024 & 11:30AM	Sample Collected by:		Customer

Sr. No.	Parameters	Results	Acceptable Limit(BIS)	Permissible Limit(BIS) in the Absence of alternative Source	Std. Test Method
1	Arsenic, mg/l	Not Detected	0.01	No Relaxation	APHA 3500-As B

Remark: Above received water sample conforms to IS: 10500-2012 for drinking purpose with respect to above tests.

Psh
Chemist

लाल कमिन्ड
 शाखा प्रयोगशाला
 उत्तराखण्ड जल संस्थान
 ऊना सिटी नगर

-End of Report-

- The results listed refer only to tested sample and applicable parameters.
- This certificate is not to be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
- The samples will be destroyed after fifteen days from the date of issue of test certificate, unless otherwise agreed with customer.
- The results Apply to the Sample as received.



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, Rudrapur (U.S.Nagar)
 Ph (O): 059444-250631, E-mail: ceudmujs@gmail.com

Dated: 17/01/2024

WATER QUALITY TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Rudrapur (U.S.Nagar)		
Product Description	Drinking Water	Sample Description	One water sample Submitted From Jal - Kal Parisor Block-Khatima Tubewell
Reference Sample Identification:	DLWQTML/UJS/EE/02		Date of Start of Analysis: 11.01.2024 Date of End of Analysis : 15.01.2024
Date and Time of Sample Received: 11.01.2024 & 11:30AM	Sample Collected by:		Customer

Sr. No.	Parameters	Results	Acceptable Limit(BIS)	Permissible Limit(BIS) in the Absence of alternative Source	Std. Test Method
1.	Arsenic,mg/l	Not Detected	0.01	No Relaxation	APHA 3500-As B

Remark: Above received water sample conforms to IS: 10500-2012 for drinking purpose with respect to above tests.

Bh
Chemist
 लेव केमिस्ट
 शाखा प्रयोगशाला
 उत्तराखण्ड जल संस्थान
 ऊधम सिंह नगर

-End of Report-

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not to be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after fifteen days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results Apply to the Sample as received.



157

District Level Water Quality Testing and Monitoring Laboratory

Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun

Ph (O): 0135-2746137, E-mail: eenorth-ujs-uk@nic.in

Dated: 19/01/2024

TEST REPORT

Name and Address of Organization/ Customer		Executive Engineer, Uttarakhand Jal Sansthan, Udham Singh Nagar.	
Product Description	Drinking Water	Sample Description	One Water Sample collected from Durgapur,
Reference Sample Identification:	DLWQTML/UJS/01		Date of Start of Analysis: 18/01/2024
			Date of End of Analysis: 19/01/2024
Date and Time of Sample Received: 18/01/24 & 02:50 PM		Sample Collected by:	Customer

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit (BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, ppb	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


 (Dr. Vikash Kandari)
 Technical Manager, Lab

-End of Report -



कार्यालय - 2678078
- 2672404

उत्तराखण्ड पेयजल संसाधन विकास एवं निर्माण निगम

प्रधान कार्यालय 11-मोहिनी रोड, देहरादून

पत्रांक. 91/2024/उ.सं.अ.वु.जी.सी.ए.सं.सा.भा.च/38 दिनांक. 9/12/2024
ई-मेल द्वारा

सेवा में,

मुख्य अभियन्ता,
राज्य जल एवं स्वच्छता मिशन,
75/38-इन्दर रोड,
देहरादून (उत्तराखण्ड)।

विषय : मा0 राष्ट्रीय हरित प्राधिकरण, भारत सरकार, नई दिल्ली में योजित मूल आवेदन संख्या-728/2023 के अनुपालन के सम्बन्ध में।

महोदय,

उपरोक्त विषयक मा0 राष्ट्रीय हरित प्राधिकरण, भारत सरकार, नई दिल्ली में योजित मूल आवेदन संख्या-728/2023 In re : News item appearing in Hindustan dated 30.11.2023 titled "Arsenic found in groundwater in 25 State, Fluoride in 27 State: Govt" में मा0 प्राधिकरण द्वारा पारित आदेश दिनांक 20.12.2023 के अनुपालन में केन्द्रीय भूमि जल बोर्ड, देहरादून के पत्रांक-4(65)/के.भू.ज.बो./उ.क्षे.तक 22-49, दिनांक 26.01.2024 द्वारा इंगित सभी परीक्षण स्थलों की सूची एवं उपचारात्मक उपाय राज्य जल एवं स्वच्छता मिशन, देहरादून को प्रेषित है तथा उनके माध्यम से प्रधान कार्यालय, उत्तराखण्ड पेयजल निगम, देहरादून को प्राप्त हुई है।

उक्त के अनुपालन में अवगत कराना है, कि उत्तराखण्ड राज्यान्तर्गत आर्सेनिक प्रभावित 34 स्थलों में से पेयजल निगम के कार्य क्षेत्रान्तर्गत निम्नानुसार कुल चिन्हित 30 स्थलों में से 8 स्थलों की जल परीक्षण रिपोर्ट में आर्सेनिक नहीं पाया गया है तथा शेष 22 चिन्हित स्थलों के जल नमूने परीक्षण हेतु प्रयोगशाला को प्रेषित किए जा चुके हैं, यदि परीक्षण रिपोर्ट में आर्सेनिक की मात्रा मानकों से अधिक पाई जाती है, तो उन हैण्ड पम्पों पर लाल रंग से चेतावनी अंकित करते हुए पेयजल हेतु प्रतिबन्धित कर दिया जायेगा।

क्र0	जनपद का नाम	चिन्हित स्थलों की संख्या	अद्यतन स्थिति
1	देहरादून	8	4 स्थलों की जल परीक्षण रिपोर्ट में आर्सेनिक नहीं पाया गया है तथा शेष 4 स्थलों के जल नमूने परीक्षण हेतु प्रेषित है।
2	हरिद्वार	11	4 स्थलों की जल परीक्षण रिपोर्ट में आर्सेनिक नहीं पाया गया है तथा शेष 7 स्थलों के जल नमूने परीक्षण हेतु प्रेषित है।
3	ऊधमसिंह नगर	11	सभी स्थलों के जल नमूने परीक्षण हेतु प्रेषित है।
	कुल	30	

उल्लेखनीय है, कि जल जीवन मिशन के अन्तर्गत उक्तानुसार जनपदों में गहरे नलकूप आधारित पेयजल योजनाओं के निर्माण कार्य गतिमान हैं, जिनमें शीघ्र ही जलापूर्ति प्रारम्भ कर दी जायेगी, जिसके पश्चात हैण्ड पम्प पर पेयजल हेतु निर्भरता समाप्त हो जायेगी।

संलग्नक-उपरोक्तानुसार (8 स्थलों की जल परीक्षण रिपोर्ट)

भवदीय,

(संजय सिंह)

01. मुख्य अभियन्ता (मु0)

पृ0सं0 एवं दिनांक तदैव :-

1. प्रतिलिपि सचिव महोदय, पेयजल एवं स्वच्छता विभाग, उत्तराखण्ड शासन, देहरादून के संज्ञानार्थ प्रेषित।
2. प्रतिलिपि मुख्य वैयक्तिक अधिकारी, प्रबन्ध निदेशक, उत्तराखण्ड पेयजल निगम, देहरादून को प्रबन्ध निदेशक महोदय के अवलोकनार्थ प्रेषित।

01. मुख्य अभियन्ता (मु0)

“जल संचय-जीवन संचय” “कृपया जल स्रोतों को प्रदूषित होने से बचाइये।”



Dated: 19/01/2024

TEST REPORT

Name and Address of Organization/ Customer		Executive Engineer, Uttarakhand Jal Sansthan, Dehradun.	
Product Description	Drinking Water	Sample Description	One Water Sample collected from Soda Saroli (Hand Pump)
Reference Sample Identification:	DLWQTML/UJS/01	Date of Start of Analysis: 18/01/2024	
		Date of End of Analysis: 19/01/2024	
Date and Time of Sample Received: 18/01/24 & 11:45 AM		Sample Collected by:	Customer

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit(BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not to be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


(Dr. Vikash Kandari)
Authorized Signet Lab
DLWQTML
Uttarakhand Jal Sansthan



Dated: 19/01/2024

TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Dehradun.		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Soda Saroli (Hand Pump-02)
Reference Sample Identification:	DLWQTML/UJS/02		Date of Start of Analysis: 18/01/2024
			Date of End of Analysis: 19/01/2024
Date and Time of Sample Received: 18/01/24 & 11:45 AM	Sample Collected by:	Customer	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit(BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


 (Dr. Vikash Kandari)
 Technical Manager, Lab
DLWQTML
Uttarakhand Jal Sansthan



Dated: 19/01/2024

TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Dehradun.		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Soda Saroli (Tubewell)
Reference Sample Identification:	DLWQTML/UJS/03		Date of Start of Analysis: 18/01/2024 Date of End of Analysis: 19/01/2024
Date and Time of Sample Received: 18/01/24 & 11:45 AM	Sample Collected by:	Customer	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit(BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


Dr. Nikesh Kandan
Technical Manager, Lab
DLWQTML
Uttarakhand Jal Sansthan



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun
 Ph (O): 0135-2746137, E-mail: eenorth-ujs-uk@nic.in

Dated: 19/01/2024

TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Dehradun.		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Maldevta (Hand Pump)
Reference Sample Identification:	DLWQTML/UJS/04	Date of Start of Analysis:	18/01/2024
		Date of End of Analysis:	19/01/2024
Date and Time of Sample Received: 18/01/24 & 11:45 AM	Sample Collected by:	Customer	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit(BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****

(Signature)
 (Dr. Vikash Khandari)
 Technical Manager, Lab
 Authorized Signature
 DLWQTML
 Uttarakhand Jal Sansthan



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun
 Ph (O): 0135-2746137, E-mail: eenorth-ujs-uk@nic.in

Dated: 19/01/2024

TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Dehradun.		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Maldevta (Tubewell)
Reference Sample Identification:	DLWQTML/UJS/05	Date of Start of Analysis: 18/01/2024	
		Date of End of Analysis: 19/01/2024	
Date and Time of Sample Received: 18/01/24 & 11:45 AM	Sample Collected by:	Customer	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit(BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


 (Dr. Vikash Kandari)
 Technical Manager, Lab
 Authorized Signature
 DLWQTML
 Uttarakhand Jal Sansthan,



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun
 Ph (O): 0135-2746137, E-mail: eenorth-ujs-uk@nic.in

Dated: 19/01/2024

TEST REPORT

Name and Address of Organization/ Customer	Assistant Engineer, Uttarakhand Jal Sansthan, Rishikesh.		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Doiwala, Mazargrant (Dujiyawala)
Reference Sample Identification:	DLWQTML/UJS/04		Date of Start of Analysis: 18/01/2024
Date and Time of Sample Received: 18/01/24 & 11:45 AM	Sample Collected by:	Date of End of Analysis: 19/01/2024	
		Customer	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit (BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


 (Dr. Vikash Kandari)
 Technical Manager, Lab
 Authorized Signature
 DLWQTML
 Uttarakhand Jal Sansthan



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun
 Ph (O): 0135-2746137, E-mail: eenorth-ujs-uk@nic.in

Dated: 19/01/2024

TEST REPORT

Name and Address of Organization/ Customer	Assistant Engineer, Uttarakhand Jal Sansthan, Rishikesh.		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Doiwala (Badkot mazari Dujjiyawala)
Reference Sample Identification:	DLWQTML/UJS/05		Date of Start of Analysis: 18/01/2024
			Date of End of Analysis: 19/01/2024
Date and Time of Sample Received: 18/01/24 & 10:30 AM	Sample Collected by:		Customer

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit (BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not to be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


 (Dr. Vikash Kandari)
 Technical Manager, Lab
 Authorized Signature
 DLWQTML
 Uttarakhand Jal Sansthan



District Level Water Quality Testing and Monitoring Laboratory

Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun

Ph (O): 0135-2746137, E-mail: eenorth-ujs-uk@nic.in

Dated: 19/01/2024

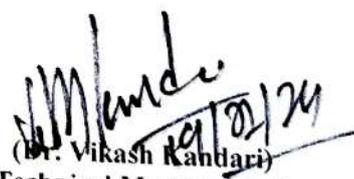
TEST REPORT

Name and Address of Organization/ Customer	Assistant Engineer, Uttarakhand Jal Sansthan, Rishikesh.		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Doiwala (Lal Tappad)
Reference Sample Identification:	DL.WQTML/UJS/01		Date of Start of Analysis: 18/01/2024
Date and Time of Sample Received: 18/01/24 & 10:30 AM	Sample Collected by:	Customer	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:201 2	Permissible Limit (BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not detected	0.01	No Relaxation	APHA 3500-As B

- The results listed refer only to tested sample and applicable parameters.
- This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
- The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
- The results apply to the sample as received
- The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


 (Mr. Vikash Kantari)
 Technical Manager, Lab
 Authorized Signature
 DLWQTML
 Uttarakhand Jal Sansthan



District Level Water Quality Testing and Monitoring Laboratory

Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun

Ph (O): 0135-2746137, E-mail: eenorth-ujs-uk@nic.in

Dated: 19/01/2024

TEST REPORT

Name and Address of Organization/ Customer	Assistant Engineer, Uttarakhand Jal Sansthan, Rishikesh.		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Doiwala (Lal Tappad Tubewell)
Reference Sample Identification:	DLWQTML/UJS/03		Date of Start of Analysis: 18/01/2024
			Date of End of Analysis: 19/01/2024
Date and Time of Sample Received: 18/01/24 & 10:30AM	Sample Collected by:	Customer	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit (BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L.	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not to be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


 (Dr. Vikash Kandari)
 Technical Manager, Lab
 Authorized Signature
 DLWQTML
 Uttarakhand Jal Sansthan

-End of Report-



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun
 Ph (O): 0135-2746137, E-mail: eenorth-ujs-uk@nic.in

Dated: 19/01/2024

TEST REPORT

Name and Address of Organization/ Customer	Assistant Engineer, Uttarakhand Jal Sansthan, Rishikesh.		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Doiwala, Mazarigrant (Lal Tappad)
Reference Sample Identification:	DLWQTML/UJS/02		Date of Start of Analysis: 18/01/2024
Date and Time of Sample Received: 18/01/24 & 10:30 AM	Sample Collected by:	Customer	
		Date of End of Analysis: 19/01/2024	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:201 2	Permissible Limit (BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


 (Dr. Vikash Kandari)
 Technical Manager, Lab
 Authorized Signature
 DLWQTML
 Uttarakhand Jal Sansthan



Dated: 19/01/2024

TEST REPORT

Name and Address of Organization/ Customer		Executive Engineer, Uttarakhand Jal Sansthan, Haridwar.	
Product Description	Drinking Water	Sample Description	One Water Sample collected from Khanpur (Handpump)
Reference Sample Identification:	DLWQTML/UJS/04		Date of Start of Analysis: 18/01/2024
			Date of End of Analysis: 19/01/2024
Date and Time of Sample Received: 18/01/24 & 11:45 AM		Sample Collected by:	Customer

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit(BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


(Dr. Vikash Khandari)
Technical Manager, Lab
Authorized Signature
DLWQTML
Uttarakhand Jal Sansthan.



Dated: 19/01/2024

TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Haridwar.		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Goverdhanpur Tubewell
Reference Sample Identification:	DLWQTML/UJS/05		Date of Start of Analysis: 18/01/2024
			Date of End of Analysis: 19/01/2024
Date and Time of Sample Received: 18/01/24 & 11:45 AM	Sample Collected by:	Customer	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit(BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


(Dr. Vikash Kandari)
Technical Manager, Lab
Authorized Signature
DLWQTML
Uttarakhand Jal Sansthan



District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun
 Ph (O): 0135-2746137, E-mail: eenorth-ujs-uk@nic.in

Dated: 19/01/2024

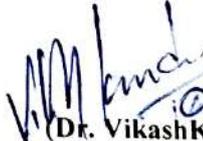
TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Haridwar.		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Chudiala T/W
Reference Sample Identification:	DLWQTML/UJS/01		Date of Start of Analysis: 18/01/2024
			Date of End of Analysis: 19/01/2024
Date and Time of Sample Received: 18/01/24 & 11:45 AM	Sample Collected by:	Customer	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit(BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


 (Dr. Vikash Kandan)
 Technical Manager, Lab
 DLWQTML
 Uttarakhand Jal Sansthan



Dated: 19/01/2024

TEST REPORT

Name and Address of Organization/ Customer		Executive Engineer, Uttarakhand Jal Sansthan, Haridwar.	
Product Description	Drinking Water	Sample Description	One Water Sample collected from Bahabalpur Near Barat Ghar Handpump
Reference Sample Identification:	DLWQTML/UJS/02		Date of Start of Analysis: 18/01/2024
Date and Time of Sample Received: 18/01/24 & 11:45 AM		Sample Collected by:	Customer
			Date of End of Analysis: 19/01/2024

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit(BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not to be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


(Dr. Vikash Kandari)
Technical Manager, Lab
Authorized Signature
DLWQTML
Uttarakhand Jal Sansthan



Dated: 19/01/2024

TEST REPORT

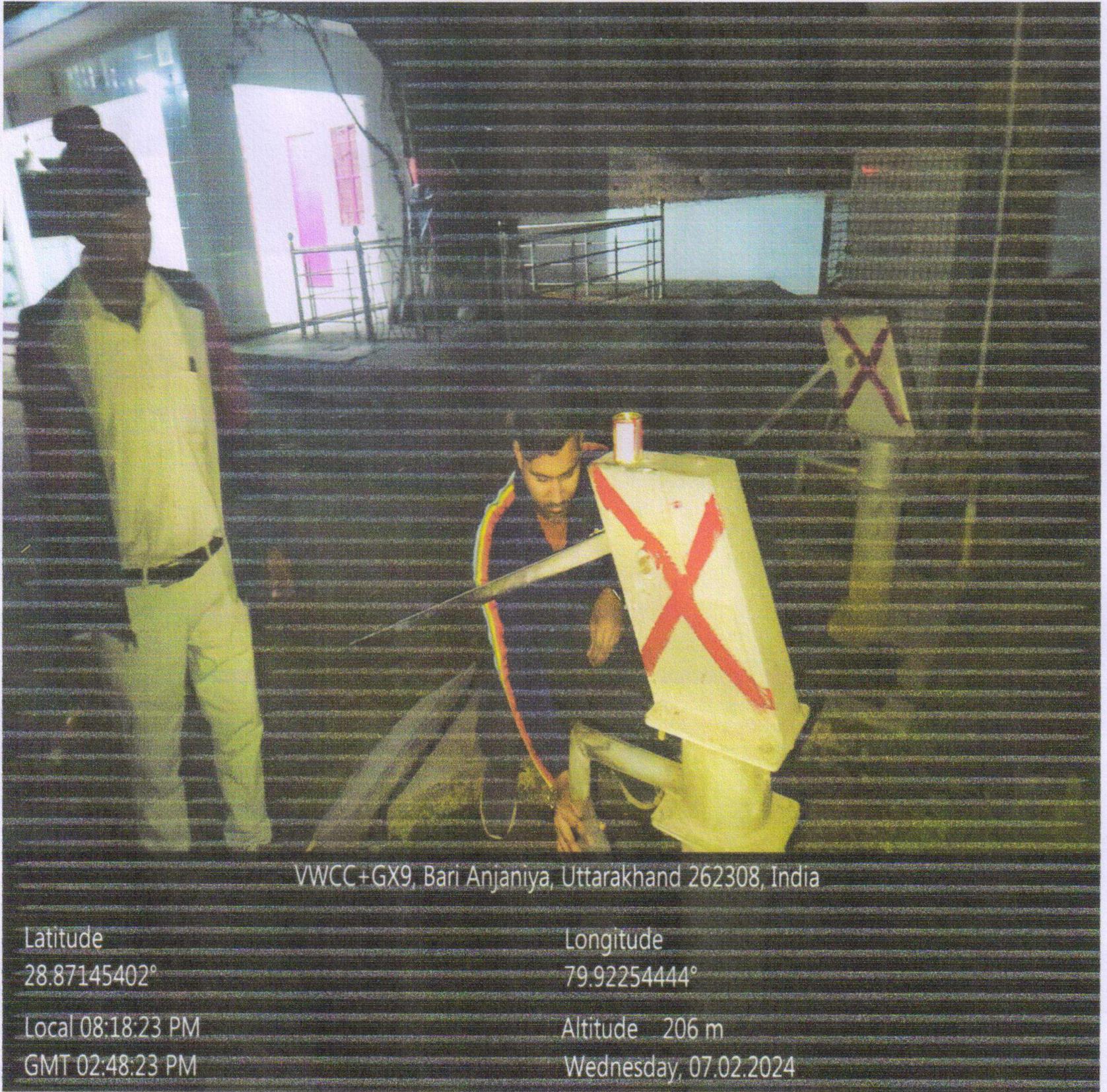
Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Haridwar		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Roorkee(Mohammadpur Near School Handpump
Reference Sample Identification:	DLWQTML/UJS/03		Date of Start of Analysis: 18/01/2024
			Date of End of Analysis: 19/01/2024
Date and Time of Sample Received: 18/01/24 & 11:45 AM		Sample Collected by:	Customer

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:201 2	Permissible Limit(BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


(Dr. Vikash Kandari)
Technical Manager, Lab
Authorized Signature
DLWQTML
Uttarakhand Jal Sansthan



Bari Anjaniya-I
Khatima Udham Singh Nagar



RVMX+59C, Bhansha, Satramil, Uttarakhand 262308, India

Latitude

28.83181224°

Longitude

79.89787891°

Local 08:49:53 PM

GMT 03:19:53 PM

Altitude 199 m

Wednesday, 07.02.2024

Bari Anjaniya-II

Khatima Udham Singh Nagar



RVMX+59C, Bhansha, Satramil, Uttarakhand 262308, India

Latitude
28.83181224°

Longitude
79.89787891°

Local 08:49:53 PM
GMT 03:19:53 PM

Altitude 199 m
Wednesday, 07.02.2024

Kanchanpuri (Mjhola) Khatima Udham Singh Nagar



Dohra, Uttarakhand, India
WQP8+PG, Dohra, Uttarakhand 262311, India
Lat 28.936822°
Long 79.766547°
08/02/24 11:10 AM GMT +05:30

Google

GPS Map Camera

Bidaura Sitarganj Udham Singh Nagar

Status of identified locations having Arsenic contamination as reported by CGWB

S. No	District	Block	Location	Latitude	Longitude	Types of Structure	Concentration of Arsenic (ppb)	Implementing agency	Test conducted for samples from Hand pumps/Spring			PWS facility provided		Remarks
									Source of sampling	Report Status	Date of report	Yes/No	Report Status	
1	Dehradun	Sahaspur	Redapur	30.40583	77.86333	HP	1.5	UJN	Hand pump	Report Awaited		Yes	ok	1. PWS source has been tested and there is no arsenic contamination. 2. Water quality monitoring is being conducted through Labs, Field testing Kits (FTKs) & Pollution control board.
2	Dehradun	Doiwala	Duggiwala	30.17222	78.23361	HP	1.45	UJS	Hand pump	Report Awaited		Yes	ok	
3	Dehradun	Raipur	Maldevta	30.34389	78.12028	HP	22.86	UJN	Hand pump	Not Detected	19-01-2024	Yes	ok	
4	Dehradun	Raipur	Soda Saroli	30.27667	78.13944	Spring	28.54	UJN	Spring	Report Awaited		Yes	ok	
5	Dehradun	Vikas Nagar	Judli	30.42389	77.69556	HP	71.28	UJS	Hand pump	Report Awaited		Yes	ok	
6	Dehradun	Vikasnagar	Vikas Nagar	30.47778	77.78833	HP	22.84	UJN	Hand pump	Report Awaited		Yes	ok	
7	Dehradun	Doiwala	Lal Tappar	30.11972	78.17389	HP	36.5	UJS	Hand pump	Report Awaited		Yes	ok	
8	Dehradun	Sahaspur	Nanda Ki Chowki	30.34667	77.94667	HP	56.4	UJN	Hand pump	Report Awaited		Yes	ok	
9	Almora	Hawalbagh	Dhara Naula	29.57083	79.67639	Spring	56.64	UJN	Spring	Not Detected	08-01-2024	Yes	ok	
10	Haridwar	Bhagwanpur	Chudiala	29.91000	77.76778	HP	1.43	UJN	Hand pump	Report Awaited		Yes	ok	
11	Haridwar	Bahadrabad	Bandarjud	30.05306	77.93861	HP	23.20	UJN	Hand pump	Report Awaited		Yes	ok	
12	Haridwar	Khanpur	Goverdhanpur	29.70972	77.96389	HP	13.05	UJS	Hand pump	Report Awaited		Yes	ok	
13	Haridwar	Laksar	Laksar	29.75861	78.03667	HP	13.08	UJN	Hand pump	Report Awaited		Yes	ok	
14	Haridwar	Bhagwanpur	Bahabalpur	29.98722	77.81028	HP	25.43	UJN	Hand pump	Not Detected	19-01-2024	Yes	ok	
15	Haridwar	Khanpur	Dallawala	29.56667	78.02500	HP	33.60	UJN	Hand pump	Report Awaited		Yes	ok	
16	Haridwar	Bahadrabad	Bahadrabad	29.91750	78.04389	HP	20.28	UJN	Hand pump	Report Awaited		Yes	ok	
17	Haridwar	Laksar	Bhikampur	29.75000	78.14167	HP	13.89	UJN	Hand pump	Report Awaited		Yes	ok	
18	Haridwar	Roorkee	Mohammadpur	29.71583	77.96139	HP	14.96	UJS	Hand pump	Not Detected	19-01-2024	Yes	ok	
19	Haridwar	Khanpur	Khanpur	29.59667	78.00972	HP	13.10	UJN	Hand pump	Not Detected	19-01-2024	Yes	ok	
20	Haridwar	Bahadrabad	Bhogpur	29.77750	78.16889	HP	12.74	UJN	Hand pump	Report Awaited		Yes	ok	
21	U S Nagar	Kashipur	Dhanauri Patti	29.27083	79.01583	HP	13.13	UJS	Hand pump	Report Awaited		Yes	ok	
22	U S Nagar	Sitarganj	Bidora	28.93694	79.76667	HP	21.03	UJN	Hand pump	Report Awaited		Yes	ok	
23	U S Nagar	Jaspur	Jaspur	29.27861	78.83417	HP	22.77	UJN	Hand pump	Report Awaited		Yes	ok	
24	U S Nagar	Kashipur	Durgapur	29.29750	78.95667	HP	45.30	UJS	Hand pump	Report Awaited		Yes	ok	
25	U S Nagar	Jaspur	Bichai	80.09417	29.04083	HP	62.54	UJN	Hand pump	Report Awaited		Yes	ok	
26	U S Nagar	Kashipur	Shand Khera	79.01361	29.17556	HP	69.79	UJN	Hand pump	Report Awaited		Yes	ok	
27	U S Nagar	Khatima	Kanchanpuri (Maihola)	28.83111	79.89750	HP	16.48	UJN	Hand pump	Report Awaited		Yes	ok	
28	U S Nagar	Khatima	Khatima	28.91917	79.96611	HP	16.90	UJN	Hand pump	Report Awaited		Yes	ok	
29	U S Nagar	Khatima	Barianjariya	28.87139	79.92250	HP	17.93	UJN	Hand pump	Report Awaited		Yes	ok	
30	U S Nagar	Rudrapur	Kichha	28.90944	79.52222	HP	16.33	UJN	Hand pump	Report Awaited		Yes	ok	
31	U S Nagar	Sitarganj	Sitarganj	28.92222	79.70417	HP	18.64	UJN	Hand pump	Report Awaited		Yes	ok	
32	Uttarkashi	Bhatwari	maneri	30.73972	78.52472	HP	12.35	UJN	Hand pump	Report Awaited		Yes	ok	
33	Uttarkashi	Bhatwari	Charethi	30.82111	78.62639	HP	12.60	UJS	Hand pump	Report Awaited		Yes	ok	
34	Uttarkashi	Bhatwari	Ganganani	30.90306	78.68000	Spring	19.27	UJN	Spring	Not Detected	01-02-2024	Yes	ok	



District Level Water Quality Testing and Monitoring Laboratory
 Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun
 Ph (O): 0135-2746137, E-mail: cenorth-ujs-uk@nic.in

Dated: 19/01/2024

TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Dehradun.		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Maldevta (Hand Pump)
Reference Sample Identification:	DLWQTML/UJS/04	Date of Start of Analysis:	18/01/2024
		Date of End of Analysis:	19/01/2024
Date and Time of Sample Received: 18/01/24 & 11:45 AM	Sample Collected by:	Customer	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit(BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not to be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


 (Dr. Vikash Khandari)
 Technical Manager Lab
 Authorized Signature
 DLWQTML
 Uttarakhand Jal Sansthan



**District Level Water Quality Testing and Monitoring Laboratory
Uttarakhand Jal Sansthan, Almora**

Phone No.: 05962-2234049, E-mail: eealm.ujs.uk@gmail.com

Test Report ID: 696 /UJS/DLWQTML/2023-24

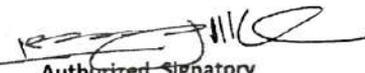
Dated:08/01/2024

WATER QUALITY TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Almora		
Type of Source (Surface Water/ Ground Water/ Sub-Surface Water)	DRINKING WATER	SAMPLE DESCRIPTION	ONE WATER SAMPLE COLLECTED FROM DHARANAULA NAULA ,2ND, (GANESHI GAIR), BLOCK- HAWALBAGH , ALMORA.
Reference Sample Identification:	DLWQTML/UJS/ALM/EE-09		DATE OF START OF ANALYSIS 08/01/2024
			DATE OF END OF ANALYSIS 08/01/2024
Date and Time of Sample Received: 07/01/2024 06:00PM	Sample Collected by:	Mr. Mohan Giri (Sampling Assistant)	

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As Per IS 10500:2012 (BIS)	Permissible Limit (BIS) in the Absence of alternative source	Std. Test Method
1.	Arsenic, mg/l,	Not Detected	0.01	No Relaxation	APHA 3500-As B


 (Lab Chemist)
 Pappu Bisht
 Lab U. J. S., Almora


 Authorized Signatory
 (Assistant Engineer)
 Authorised Signatory
 District Water Quality Testing
 Monitoring Laboratory
 Uttarakhand Jal Sansthan, Almora

-End of Report-

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after fifteen days from the date of issue of test certificate, unless otherwise agreed with customer.
4. Result apply to the sample as received.
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer.



Dated: 19/01/2024

TEST REPORT

Name and Address of Organization/ Customer		Executive Engineer, Uttarakhand Jal Sansthan, Haridwar.	
Product Description	Drinking Water	Sample Description	One Water Sample collected from Bahabalpur Near Barat Ghar Handpump
Reference Sample Identification:		DLWQTML/UJS/02	Date of Start of Analysis: 18/01/2024
Date and Time of Sample Received: 18/01/24 & 11:45 AM		Sample Collected by:	Customer
			Date of End of Analysis: 19/01/2024

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit(BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


 (Dr. Vikash Khandari)
 Technical Manager, Lab
 Authorized Signature
DLWQTML
 Uttarakhand Jal Sansthan



District Level Water Quality Testing and Monitoring Laboratory
 Uttarakhand Jal Sansthan, 32, Rajpur
 Ph (O): 0135-2746137, E-mail: eenorth-ujs-uk@ujs.org

Laboratory
 in

Dated: 19/01/2024

TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Haridwar		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Roorkee Mohammadpur Near School Handpump
Reference Sample Identification:	DLWQTML/UJS/03		Date of Start of Analysis: 18/01/2024
Date and Time of Sample Received: 18/01/24 & 11:45 AM	Sample Collected by:	Customer	
			Date of End of Analysis: 19/01/2024

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit(BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not detected	0.01	No Relaxation	APHA 3500-As B

- 1 The results listed refer only to tested sample and applicable parameters.
- 2 This certificate is not be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
- 3 The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
- 4 The results apply to the sample as received
- 5 The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****

(Signature)
 (Dr. Vikash Khandari)
 Authorized Signature
 DLWQTML
 Uttarakhand Jal Sansthan



District Level Water Quality Testing and Monitoring Laboratory
 Uttarakhand Jal Sansthan, 32, Rajpur Road, Dehradun
 Ph (O): 0135-2746137, E-mail: cenorth-ujs-uk@nic.in

Dated: 19/01/2024

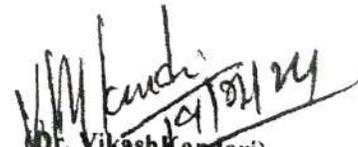
TEST REPORT

Name and Address of Organization/ Customer	Executive Engineer, Uttarakhand Jal Sansthan, Haridwar.		
Product Description	Drinking Water	Sample Description	One Water Sample collected from Khanpur (Handpump)
Reference Sample Identification:	DL.WQTML/UJS/04	Date of Start of Analysis:	18/01/2024
		Date of End of Analysis:	19/01/2024
Date and Time of Sample Received: 18/01/24 & 11:45 AM	Sample Collected by:	Customer	

SX	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit(BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, mg/L,	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not to be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received.
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer.

**** End of Report****


 (Dr. Vikash Kandari)
 Technical Manager, Lab
 Authorized Signature
 DLWQTML
 Uttarakhand Jal Sansthan.



Dated: 01/02/2024

TEST REPORT

Name and Address of Organization/ Customer		Executive Engineer, Uttarakhand Jal Sansthan, Uttarakashi	
Product Description	Drinking Water	Sample Description	One Water Sample collected from Spring/ Gangnani Inlet
Reference Sample Identification:	DLWQTML/UJS/02		Date of Start of Analysis: 31/01/2024 Date of End of Analysis: 01/02/2024
Date and Time of Sample Received: 31/01/24 & 02:25 PM		Sample Collected by:	Customer

SN	Water Quality Parameters Under Chemical Scope	Results	Acceptable Limit As per IS 10500:2012	Permissible Limit (BIS) in the Absence of alternative source	Std. Test Method
1	Arsenic, ppb	Not detected	0.01	No Relaxation	APHA 3500-As B

1. The results listed refer only to tested sample and applicable parameters.
2. This certificate is not to be reproduced wholly or in parts promotional publicity or legal purpose without permission of authority of testing laboratory.
3. The samples will be destroyed after Seven days from the date of issue of test certificate, unless otherwise agreed with customer.
4. The results apply to the sample as received
5. The Laboratory is responsible for all the information provided in the report, except when information is provided by the customer

**** End of Report****


(Dr. Vikash Kandari)
Technical Manager, Lab



185

मुख्यालय

उत्तराखण्ड प्रदूषण नियंत्रण बोर्ड

"गौरा देवी पर्यावरण भवन"

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

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

110

पत्रांक : यूकेपीसीबी/एच.ओ./कोर्ट सेल/सा0-02/2024/1528

दिनांक 08.02.2024

सेवा में,

सचिव

पेयजल

उत्तराखण्ड शासन, देहरादून।

मा0 एन0जी0टी0 मैटर

ANNEXURE R-7

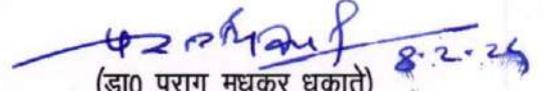
विषय:- मा0 एन0जी0टी0 में योजित मूल आवेदन सं0 728/2023 In re: News item appearing in Hindustan dated 30-11-2023 titled "Arsenic found in groundwater in 25 States, fluoride in 27 States: Govt." के सम्बन्ध में।

महोदय,

कृपया उपरोक्त विषयक मा0 एन0जी0टी0 द्वारा पारित आदेश दिनांक 20.12.2023 के अनुपालन में सचिव, पेयजल की अध्यक्षता में आयोजित बैठक का सन्दर्भ ग्रहण करना चाहें। अवगत होना चाहें कि उत्तराखण्ड प्रदूषण नियंत्रण बोर्ड द्वारा राज्य के विभिन्न जनपदों के 46 चिन्हित स्थलों से भू-जल के नमूनों का एकत्रण एवं विश्लेषण किया जाता है। वर्ष 2021, 2022 एवं 2023 में भू-जल के नमूनों की विश्लेषण आख्या अवलोकनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित है। उक्त आंकड़े राज्य बोर्ड की वेबसाइट: <https://ueppcb.uk.gov.in/pages/display/100-ground-water> पर उपलब्ध हैं।

संलग्नक: यथोपरि।

भवदीय,


(डा0 पराग मधुकर धकाते) 8.2.24
सदस्य सचिव

D/C dr

Ground Water Quality Analysis Report New (October 2021)

S.No.	Monitoring Location	Parameters																																
		pH	Total Dissolved Solids (mg/l)	Electrical Conductivity	Biochemical Oxygen Demand	Chemical Oxygen Demand	Total Hardness(mg/l)	Calcium	Magnesium	Total Alkalinity(mg/l)	P - Alkalinity	Chloride (mg/l)	Fluoride(mg/l)	Nitrate - N(mg/l)	Nitrite - N(mg/l)	Sulphate (mg/l)	Phosphate(mg/l)	Sodium(mg/l)	Potassium(mg/l)	Sodium Adsorption Ratio	Arsenic(mg/l)	Nickel(mg/l)	Copper(mg/l)	Mercury(mg/l)	Chromium(mg/l)	Cadmium	Zinc(mg/l)	Lead(mg/l)	Iron(mg/l)	Total Kjeldahl Nitrogen	Aldrin(µg/l)	Hexa chlorobenzene(µg/l)	Alpha Endosulphan(µg/l)	Beta Endosulphan(µg/l)
Requirement(acceptable limit)	6.5-8.5	500	N/A	N/A	N/A	200	N/A	N/A	200	N/A	250	1	45	N/A	200	N/A	N/A	N/A	N/A	0.01	0.02	0.05	0.001	N/A	0.003	5	0.01	0.3	N/A	0.03	0.01	0.4	0.4	
Permissible limit	No relaxation	2000	N/A	N/A	N/A	600	N/A	N/A	600	N/A	1000	1.5	No relaxation	N/A	400	N/A	N/A	N/A	N/A	0.05	No relaxation	1.5	No relaxation	N/A	No relaxation	15	No relaxation	No relaxation	N/A	N/A	N/A	N/A	N/A	
District - Chamoli																																		
1	Handpump, Joshimath town	6.91	142	220	BDL	BDL	120	80	40	70	ND	15	0.28	0.04	0.05	44.95	0.15	16.2	6.4	0.64	BDL	BDL	0.035	BDL	0.25	BDL	1.9	BDL	1.34	5.6	BDL	BDL	BDL	BDL
2	Handpump, Gopeshwar town	6.82	191	289	BDL	BDL	120	100	20	57	ND	42	0.43	0.02	0.04	52.78	0.21	33.6	9.3	1.33	BDL	BDL	0.036	BDL	3	BDL	0.81	BDL	1.64	5.43	BDL	BDL	BDL	BDL
District - Rudraprayag																																		
3	Handpump, Augestmuni town	7.05	137	205	BDL	BDL	122	100	22	97	ND	12	0.36	0.02	0.06	29.41	0.19	15.1	1.4	0.59	BDL	BDL	0.001	BDL	BDL	BDL	BDL	BDL	0.91	3.92	BDL	BDL	BDL	BDL
4	Handpump, Rudraprayag town	6.75	258	391	BDL	BDL	260	230	30	230	ND	33	0.44	0.03	0.05	45.31	0.12	18.9	1.1	0.5	BDL	BDL	0.0011	BDL	BDL	BDL	0.7	BDL	4.34	4.6	BDL	BDL	BDL	BDL
District - Uttarkashi																																		
5	Handpump, Chinyalisaur	7.24	267	415	BDL	BDL	156	110	46	132	ND	9	0.86	0.07	0.08	46.21	0.17	21.6	1.4	0.74	BDL	BDL	0.07	BDL	BDL	BDL	1.96	BDL	2.12	4.24	BDL	BDL	BDL	BDL
6	Handpump, Uttarkashi	7.62	202	317	BDL	BDL	150	94	56	111	ND	10	0.73	0.08	0.04	52.11	0.14	8.8	1.6	0.31	BDL	BDL	0.007	BDL	BDL	BDL	0.62	BDL	0.75	5.81	BDL	BDL	BDL	BDL
District- Tehri																																		
7	Handpump, Bhagirathipuram, tehri	7.08	385	252	BDL	BDL	160	120	40	101	ND	21	0.37	0.06	0.04	36.91	0.14	18.1	0.6	0.62	BDL	BDL	0.038	BDL	0.32	BDL	0.51	BDL	0.82	5.32	BDL	BDL	BDL	BDL
8	Handpump, New tehri	7.1	67	107	BDL	BDL	40	20	20	40	ND	4	0.69	0.09	0.06	35.29	0.13	15.8	0.6	1.08	BDL	BDL	0.017	BDL	0.31	BDL	0.16	BDL	0.31	4.48	BDL	BDL	BDL	BDL
District - Pauri Garhwal																																		
9	Handpump, Kotdwar Town	7.48	437	662	BDL	BDL	280	200	80	252	ND	20	0.58	0.09	0.03	30.16	0.13	22.3	1.4	0.57	BDL	BDL	0.013	BDL	0.42	BDL	0.69	BDL	1.24	5.6	BDL	BDL	BDL	BDL
10	Handpump near Siggadi Industrial Area, Kotdwar	7.19	363	572	BDL	BDL	280	24	40	160	ND	12	0.63	0.06	0.05	23.26	0.16	23.26	0.16	0.58	BDL	BDL	0.018	BDL	BDL	BDL	0.83	BDL	2.24	5.43	BDL	BDL	BDL	BDL
District - Dehradun																																		
11	Pharma city, Selaqui, Dehradun	5.68	177	268	BDL	BDL	116	66	50	64	ND	19	0.72	0.03	0.06	39.43	0.11	20.6	1.3	0.82	BDL	BDL	0.02	BDL	0.28	BDL	BDL	BDL	0.18	4.28	BDL	BDL	BDL	BDL

12	Hand pump,Selaqui, Industrial Area-1	6.08	160	250	BDL	BDL	156	74	82	70	ND	11	0.49	0.06	0.05	240.26	0.23	15.1	0.9	0.52	BDL	BDL	0.017	BDL	0.31	BDL	BDL	BDL	0.14	4.6	BDL	BDL	BDL	BDL
13	Hand pump,Selaqui, Industrial Area-2	5.98	183	283	BDL	BDL	96	80	16	74	ND	18	0.4	0.08	0.08	213.17	0.18	19.5	1.1	0.86	BDL	BDL	0.036	BDL	0.32	BDL	BDL	BDL	0.32	4.8	BDL	BDL	BDL	BDL
14	MSW Landfill site, Sisambada,Dehradun-1 ,North side	6.11	169	266	BDL	BDL	90	70	20	98	ND	7	0.46	0.1	0.09	220.11	0.16	19.8	1.1	0.9	BDL	BDL	0.016	BDL	0.26	BDL	BDL	BDL	0.06	5.89	BDL	BDL	BDL	BDL
15	MSW Landfill site, Sisambada,Dehradun-1 ,South side	6.17	175	264	BDL	BDL	100	80	20	101	ND	7	0.52	0.09	0.07	49.63	0.13	17	1.1	0.73	BDL	BDL	0.014	BDL	0.33	BDL	BDL	BDL	0.05	7	BDL	BDL	BDL	BDL
District - Udham Singh Nagar																																		
16	HP at Santipuri Kiccha - 2	7	235	360	2	4.8	188	127	61	204	ND	20	0.55	0.05	0.05	18.63	0.05	10.3	0.9	0.58	ND	ND	0.001	BDL	ND	ND	1.42	ND	2.13	4.24	ND	ND	ND	ND
17	HP at Santipuri Kiccha - 1	7.1	227	330	2.4	9	193	140	53	216	ND	17	0.39	0.06	0.07	33.95	0.08	11.7	0.8	0.36	ND	ND	0.001	BDL	ND	ND	1.45	ND	1.81	4.76	ND	ND	ND	ND
18	HP at Pantnagar Industrial Area - 2	7.4	196	280	2.2	6	205	114	91	184	ND	18	0.77	0.03	0.08	39.44	0.1	20.9	0.9	0.63	ND	ND	0.001	BDL	ND	ND	0.56	ND	0.22	4.49	ND	ND	ND	ND
19	HP at Pantnagar Industrial Area - 1	7	206	320	2	4.8	186	132	54	192	ND	16	0.82	0.05	0.03	19.28	0.11	18.2	0.9	0.57	ND	ND	0.001	BDL	ND	ND	0.009	ND	0.1	4.22	ND	ND	ND	ND
20	HP at Sitarganj Industrial Area - 2	7.2	272	410	3.2	15.3	223	168	54	234	ND	23	0.65	0.07	0.06	20.97	0.07	11.2	0.7	0.32	ND	ND	0.001	BDL	ND	ND	1.45	ND	1.88	5.87	ND	ND	ND	ND
21	HP near Sitarganj Industrial Area - 1	7.5	270	400	2.6	10.5	209.2	152	57	240	ND	26	0.63	0.03	0.04	24.86	0.03	33.2	0.6	0.99	ND	ND	0.001	BDL	ND	ND	0.18	ND	1.92	5.06	ND	ND	ND	ND
22	HP near Gurudwara, Muradabad Road, Kashipur	7.3	218	320	1.6	8	232.8	120	112	200	ND	24	0.5	0.04	0.06	44.5	0.18	58.2	1.3	1.65	ND	ND	0.001	BDL	ND	ND	0.06	ND	0.08	3.92	ND	ND	ND	ND
23	HP near Kendriya Vidyalaya, Bazpur Road, Kashipur	7.2	256	370	2.2	6	180	128	51	196	ND	18	0.45	0.6	0.3	26.72	0.05	16.9	0.7	0.54	ND	ND	0.001	BDL	ND	ND	0.43	ND	0.2	4.19	ND	ND	ND	ND
24	HP near I.G.L Lagoon, Chamalida, Kashipur	7.8	210	320	2.4	10	190	104	86	172	ND	22	0.41	0.06	0.04	19.71	0.05	13.4	1	0.51	ND	ND	0.001	BDL	ND	ND	1.4	ND	0.21	4.49	ND	ND	ND	ND
25	HP at Chaiti Chauraha, Bajpur Road, Kashipur	7.2	218	320	6	14.4	186	90	96	220	ND	16	0.51	0.05	0.04	38.11	0.05	3	2.8	1.21	ND	ND	0.001	BDL	ND	ND	0.08	ND	0.72	3.93	ND	ND	ND	ND
26	HP near Govt Primary School, Kashipur	7.5	234	340	1.8	7	215	136	79	220	ND	17	0.44	0.03	0.03	7.92	0.08	26.9	1.6	0.23	ND	ND	0.001	BDL	ND	ND	0.32	ND	0.11	3.64	ND	ND	ND	ND
27	HP at Industrial Area, Mahuakheraganj, Kashipur	7.4	318	490	5.2	12	168	112	56	258	ND	15	0.46	0.06	0.05	25.45	0.08	23	1.8	0.76	ND	ND	0.001	BDL	ND	ND	0.45	ND	0.17	4.21	ND	ND	ND	ND
28	HP near old Industrial Area, Kashipur near IGL	7.2	603	910	3.8	8	215	151	64	270	ND	14	0.53	0.07	0.03	21.18	0.04	17.4	0.7	0.51	ND	ND	0.001	BDL	ND	ND	0.08	ND	0.28	5.04	ND	ND	ND	ND
District - Haridwar																																		
29	HP at CHC, Bhagwanpur Industrial Area - 1	7.5	190	297	BDL	ND	200	122	78	182	ND	4	0.06	BDL	0.08	9.97	0.08	37	1.5	1.13	ND	ND	0.0005	BDL	ND	ND	ND	ND	0.63	4.24	ND	ND	ND	ND
30	HP at Sikendrabad, Lakeshwari, Bhagwanpur Industrial - 2	7.4	138	217	BDL	ND	213	169	44	94	ND	9	0.18	BDL	0.11	2.52	0.1	33.7	2.3	1	ND	ND	0.001	BDL	ND	ND	ND	ND	0.06	5.04	ND	ND	ND	ND
31	HP at Ramnagar Roorkee Industrial are -1	7.3	209	328	BDL	ND	298	188	110	205	ND	10	0.26	BDL	0.13	2.82	0.11	16.2	3.7	0.4	ND	ND	0.001	BDL	ND	ND	0.11	ND	1.77	5.8	ND	ND	ND	ND
32	HP at Village Sunhera, Roorkee Industrial Area - 2	7.5	183	286	BDL	ND	157	81	76	163	ND	ND	0.13	BDL	0.09	11.94	0.1	41.5	2.3	1.44	ND	ND	0.001	BDL	ND	ND	ND	ND	0.07	4.76	ND	ND	ND	ND

33	HP at Roshnabad, Collectorate, SIDCUL, Industrial Area - 1	6.9	599	937	BDL	ND	380	300	80	350	ND	95	0.01	0.27	0.15	126.62	0.07	45.8	0.8	1.02	ND	ND	0.044	BDL	ND	ND	1.02	ND	2.21	4.2	ND	ND	ND	ND
34	HP at Saleempur Mahdood Chowk, SIDCUL Industrial Area - 2	7.5	239	374	BDL	ND	246	230	16	305	ND	15	0.11	BDL	0.11	8.27	0.09	12.4	1.4	0.33	ND	ND	0.0016	BDL	ND	ND	1.02	ND	1.28	3.64	ND	ND	ND	ND
35	HP near Municipal Solid Waste Landfill Site, Sarai, Jawalapur Haridwar - 1	7	275	430	BDL	ND	322	234	88	260	ND	20	0.07	2.27	0.09	41.76	0.04	18.7	2	0.45	ND	ND	0.01	BDL	ND	ND	0.54	ND	0.78	4.23	ND	ND	ND	ND
36	HP near Municipal Solid Waste Landfill Site, Sarai, Jawalapur Haridwar - 2	7.3	349	546	BDL	ND	408	318	90	285	ND	40	0.42	4.2	0.08	70.54	0.12	17.2	1.3	0.36	ND	ND	0.001	BDL	ND	ND	ND	ND	0.13	4.48	ND	ND	ND	ND
District - Pithoragarh																																		
37	HP at Pithoragarh Town near Chandrabhaga, Pithoragarh	7.36	133	210	1	4	170	92	78	146	ND	17	0.52	0.08	0.05	33.27	0.11	32.05	7.25	1.06	ND	ND	0.016	BDL	0.02	ND	ND	ND	0.33	4.49	ND	ND	ND	ND
38	HP at Pithoragarh Town near Pithoragarh fort, Pithoragarh	7.71	127	190	1.2	3	152	88	64	132	ND	15	0.48	0.09	0.04	41.26	0.09	25	9.11	0.87	ND	ND	0.023	BDL	0.02	ND	ND	ND	0.07	5.31	ND	ND	ND	ND
District - Almora																																		
39	HP at Almora Town- 2 near jai shri college, Khatyari, Almora	7.18	113	160	1.2	4	168	92	76	128	ND	19	0.63	0.06	0.08	22.4	0.15	43	11.1	1.43	ND	ND	0.023	BDL	ND	ND	ND	ND	0.09	4.21	ND	ND	ND	ND
40	HP at Almora Town- 1 near Pataldevi, Almora	6.95	147	220	1.6	5	186	102	84	160	ND	19	0.6	0.03	0.03	27.94	0.13	28	4.2	5.08	ND	ND	0.004	BDL	ND	ND	ND	ND	0.08	4.76	ND	ND	ND	ND
District - Nainital																																		
41	HP at Ramnagar Town near Govt PG College, Ramnagar	7.72	147	230	1	4	174	96	78	170	ND	21	0.58	0.06	0.05	52.63	0.16	21	4.5	0.68	ND	ND	0.016	BDL	0.03	ND	ND	ND	0.09	5.6	ND	ND	ND	ND
42	HP at Nainital Town near Sariyatal	7.39	125	210	0.8	3	194	106	88	148	ND	25	0.49	0.05	0.06	51.11	0.19	17	4.8	0.52	ND	ND	0.0117	BDL	0.06	ND	ND	ND	0.07	5.32	ND	ND	ND	ND
District - Bageshwar																																		
43	HP at Bageshwar Town - 1 near Kaffligair	7.57	126	180	1.2	4	168	96	72	126	ND	17	0.4	0.09	0.03	27.6	0.18	12.3	5.4	0.41	ND	ND	0.027	BDL	ND	ND	0.04	ND	0.09	4.47	ND	ND	ND	ND
44	HP at Baheshwar Town - 2 near Roadways station, Bageshwar	7.23	103	140	1	3	152	84	68	120	ND	13	0.55	0.11	0.04	72.09	0.11	21.5	1.2	0.75	ND	ND	0.014	BDL	ND	ND	ND	ND	0.08	5.08	ND	ND	ND	ND
District - Champawat																																		
45	HP at Champawat Town - 1 near Shivmandir	7.28	108	140	0.8	3	180	94	86	110	ND	17	0.71	0.13	0.06	35.25	0.13	22.4	14.4	0.72	ND	ND	0.0312	BDL	ND	ND	ND	ND	0.05	5.87	ND	ND	ND	ND
46	HP at Champawat Town - 2 near Gas Station Lohagat	6.93	111	160	1.2	4	194	102	92	140	ND	19	0.52	0.09	0.07	25.7	0.16	29.9	1.2	0.71	ND	ND	0.018	BDL	ND	ND	ND	ND	0.07	4.75	ND	ND	ND	ND

UTTARAKHAND POLLUTION CONTROL BOARD
Gaura Devi Parayavaran Bhawan 46-B, SIDCUL, IT Park, Sahasrtradhara Road
Dehradun (Uttarakhand)



उत्तराखण्ड प्रदूषण नियंत्रण बोर्ड
गौरा देवी पर्यावरण भवन
46-बी, सिडकुल, आई.टी. पार्क, सहस्रत्राघारा रोड, देहरादून (उत्तराखण्ड)

Central Laboratory
www.ueppcb.gov.in

Ground Water Quality Analysis Report- Post Monsoon, 2022 (October-November 2022)

Parameters	Date	Colour	Odour	Temp.	pH	Total Dissolved Solids (mg/l)	Electrical Conductivity(µs/cm)	Chemical Oxygen Demand(mg/l)	Total Hardness(mg/l)	Calcium Hardness(mg/l)	Magnesium Hardness (mg/l)	Total Alkalinity(mg/l)	Chloride (mg/l)	Fluoride(mg/l)	Nitrate - N(mg/l)	Nitrite - N(mg/l)	Sulphate (mg/l)	Phosphate(mg/l)	Sodium(mg/l)	Potassium(mg/l)	Sodium Adsorption Ratio	Arsenic(mg/l)	Nickel(mg/l)	Copper(mg/l)	Mercury(mg/l)	Chromium(mg/l)	Cadmium(mg/l)	Zinc(mg/l)	Lead(mg/l)	Iron(mg/l)	
Drinking Water Requirement (acceptable limit) as per BIS IS 10500:2012					6.5-8.5	500	N/A	N/A	200	N/A	N/A	200	250	1	45	N/A	200	N/A	N/A	N/A	N/A	0.01	0.02	0.05	0.001	N/A	0.003	5	0.01	0.3	
Drinking water Permissible limit(as per BIS IS 10500:2012)					NR	2000	N/A	N/A	600	N/A	N/A	600	1000	1.5	NR	N/A	400	N/A	N/A	N/A	N/A	0.05	NR	1.5	NR	N/A	NR	15	NR	NR	
Lowest Detection Limit					2	10 mg/l	05 µs/cm	05 mg/l	10 mg/l	5 mg/l	4 mg/l	20 mg/l	5 mg/l	0.2 mg/l	0.3 mg/l	0.02 mg/l	5 mg/l	0.2 mg/l	5 mg/l	1 mg/l	N/A	0.01	0.1	0.03	0.001	0.06	0.02	0.01	0.1	0.06	
S.No	Monitoring Location																														
District - Chamoli																															
1	Handpump, near patrol pump, Joshimath	14.10.22	Clear	Odourfree	14	7.12	99	164	BDL	70	51	19	102	10	BDL	BDL	BDL	6.26	BDL	16.5	BDL	0.85	ND	ND	0.4	ND	ND	ND	ND	ND	1.07
2	Handpump, near Gopinath mandir, Gopeshwar	14.10.22	Clear	Odourfree	14	7.19	129	230	BDL	71	61	10	95	23	0.21	BDL	0.6	10.66	BDL	25.1	11	1.29	ND	ND	0.08	ND	ND	ND	ND	ND	0.99
District - Rudraprayag																															
3	Handpump, near Mandhakini ghat, Augestmuni	11.10.22	Clear	Odourfree	12	7.89	102	187	BDL	77	58	19	94	9	0.36	BDL	BDL	5.77	BDL	11.9	2.7	0.58	ND	ND	ND	ND	ND	ND	0.63	ND	3.62
4	Handpump, near Bus Stand, Rudraprayag town	11.10.22	Clear	Odourfree	13	7.6	113	201	BDL	105	78	27	103	13	0.33	BDL	BDL	BDL	BDL	11.2	2	0.47	ND	ND	ND	ND	ND	ND	ND	ND	2.07
District - Uttarkashi																															
5	Handpump near market, Chinyalisaur	15.10.22	Clear	Odourfree	13	7.37	108	175	BDL	61	42	19	110	BDL	0.33	BDL	BDL	53.31	BDL	18.5	1.9	1.02	ND	ND	ND	ND	ND	ND	0.42	BDL	0.7
6	Handpump near market, Uttarkashi	15.10.22	Clear	Odourfree	14	7.43	140	241	BDL	95	76	19	131	24	0.29	BDL	0.4	82.58	0.23	17.7	12.6	0.78	ND	ND	ND	ND	ND	ND	0.95	BDL	1.82
District- Tehri																															
7	Handpump, Bhagirathipuram, Tehri	10.10.22	Light yellow	Odourfree	10	7.45	152	281	BDL	162	126	36	98	17	0.05	BDL	BDL	BDL	BDL	21	BDL	0.71	ND	BDL	0.04	ND	ND	ND	0.41	ND	2.61
8	Handpump, near Chamund, New tehri	10.10.22	Clear	Odourfree	12	7.37	35	58.3	BDL	47	28	19	38	BDL	BDL	BDL	BDL	33.73	BDL	12.8	BDL	0.8	ND	BDL	BDL	ND	ND	ND	ND	ND	3.11
District - Pauri Garhwal																															
9	Handpump near Devi Mandir, Kotdwar	01.10.22	Light yellow	Odourfree	15	7.34	219	472	BDL	272	210	62	255	20	0.31	BDL	BDL	17.5	BDL	16.1	1.6	0.42	ND	BDL	0.06	ND	ND	ND	2.34	ND	3.84
10	Handpump near Hanuman Mandhir, Siggadi Industrial Area, Kotdwar	01.10.22	Light yellow	Odourfree	15	7.54	201	421	6	230	195	35	235	11	0.25	BDL	BDL	21.95	BDL	19.2	1.8	0.54	ND	BDL	BDL	ND	ND	ND	0.72	ND	2.43

[Signature]

[Signature]

	Parameters	Date	Colour	Odour	Temp.	pH	Total Dissolved Solids (mg/l)	Electrical Conductivity(µs/cm)	Chemical Oxygen Demand(mg/l)	Total Hardness(mg/l)	Calcium Hardness(mg/l)	Magnesium Hardness (mg/l)	Total Alkalinity(mg/l)	Chloride (mg/l)	Fluoride(mg/l)	Nitrate - N(mg/l)	Nitrite - N(mg/l)	Sulphate (mg/l)	Phosphate(mg/l)	Sodium(mg/l)	Potassium(mg/l)	Sodium Adsorption Ratio	Arsenic(mg/l)	Nickel(mg/l)	Copper(mg/l)	Mercury(mg/l)	Chromium(mg/l)	Cadmium(mg/l)	Zinc(mg/l)	Lead(mg/l)	Iron(mg/l)	
District - Dehradun																																
11	Handpump near Rusan Pharma, Pharma city, Selaqui, Dehradun	06.10.22	Light yellow	Odourfree	14	6.95	113	200	BDL	121	106	15	88	11	0.38	BDL	BDL	25.73	BDL	16	1.1	0.63	ND	0.28	0.08	ND	ND	ND	ND	ND	ND	9.11
12	Handpump near Old Police Station, Selaqui, Industrial Area-1	06.10.22	Clear	Odourfree	15	5.96	100	178	BDL	82	62	20	68	20	0.48	BDL	BDL	14.82	BDL	19.3	1	0.92	ND	0.32	0.06	ND	ND	ND	0.9	ND	3.68	
13	Handpump near Honeywell Pvt. Ltd., Selaqui, Industrial Area-2	06.10.22	Light yellow	Odourfree	14	6.22	105	195	BDL	76	67	9	72	16	0.43	BDL	BDL	13.04	BDL	19.1	1	0.95	ND	0.22	0.07	ND	ND	ND	0.23	ND	3.85	
14	MSW Landfill site, Sisambada, Dehradun-1, North side	06.10.22	Clear	Odourfree	14	7.14	35	78	BDL	85	65	20	87	BDL	0.41	BDL	BDL	BDL	BDL	17.2	BDL	0.8	ND	0.26	0.05	ND	ND	ND	ND	ND	8.36	
15	MSW Landfill site, Sisambada, Dehradun-1, South side	06.10.22	Clear	Odourfree	15	6.4	93	165	BDL	83	66	17	92	9	0.36	BDL	BDL	BDL	BDL	17.5	BDL	0.83	ND	0.21	0.06	ND	ND	ND	ND	ND	6.72	
District - Udham Singh Nagar																																
16	Handpump at Santipuri Kiccha - 2, U.S. Nagar	14-10-2022	Clear	Odourfree	26	7.2	221	344	BDL	121	101	20	136	15	0.29	BDL	0.03	19.92	BDL	10.4	2.8	0.41	ND	ND	ND	ND	ND	ND	0.16	ND	1.08	
17	Handpump at Santipuri Kiccha - 1, U.S. Nagar	14-10-2022	Clear	Odourfree	26	7.7	230	348	11	165	142	23	188	13	0.37	BDL	BDL	18.99	BDL	11	4	0.37	ND	ND	ND	ND	ND	ND	0.69	ND	0.73	
18	Handpump at Pantnagar Industrial Area - 2, U.S. Nagar	14-10-2022	Clear	Odourfree	26	7.5	205	295	13	122	85	37	182	15	0.33	BDL	0.02	16.57	BDL	14	3.5	0.54	ND	ND	ND	ND	ND	ND	0.21	ND	2.06	
19	Handpump at Pantnagar Industrial Area - 1, U.S. Nagar	14-10-2022	Clear	Odourfree	26	7.4	214	313	BDL	142	128	14	216	12	0.33	BDL	0.16	13.71	BDL	12.7	4.3	0.46	ND	ND	ND	ND	ND	ND	0.16	ND	0.95	
20	Handpump at Sitarganj Industrial Area - 2, U.S. Nagar	14-10-2022	Clear	Odourfree	26	6.8	288	426	BDL	230	159	71	250	18	0.37	BDL	BDL	80.54	BDL	39.2	1.8	1.12	ND	ND	ND	ND	ND	ND	0.69	ND	1.33	
21	Handpump near Sitarganj Industrial Area - 1, U.S. Nagar	14-10-2022	Clear	Odourfree	26	6.8	266	402	BDL	290	105	185	508	22	0.3	BDL	BDL	16.02	BDL	26.1	7.4	0.66	ND	ND	ND	ND	ND	ND	0.21	ND	2.36	
22	Handpump near Gurudwara, Muradabad Road, Kashipur, U.S. Nagar	15-10-2022	Clear	Odourfree	26	7.3	214	332	BDL	250	229	21	378	39	0.37	BDL	0.023	70.29	BDL	73.2	2.7	2	ND	ND	ND	ND	ND	ND	4.34	ND	1.36	
23	Handpump near Kendriya Vidyalaya, Bazpur Road, Kashipur, U.S. Nagar	15-10-2022	Clear	Odourfree	26	7.3	262	356	11	138	123	15	200	13	0.28	BDL	0.08	16.97	BDL	17.3	2	0.63	ND	ND	ND	ND	ND	ND	0.63	ND	BDL	
24	Handpump near I.G.L Lagoon, Chamalida, Kashipur, U.S. Nagar	15-10-2022	Clear	Odourfree	26	7.5	204	446	BDL	163	145	18	155	14	0.41	BDL	0.09	7.25	BDL	15.9	2	0.54	ND	ND	ND	ND	ND	ND	0.12	ND	1.24	
25	Handpump at Chaiti Chauraha, Bajpur Road, Kashipur, U.S. Nagar	15-10-2022	Clear	Odourfree	25	7.3	222	328	BDL	130	109	21	264	15	0.29	BDL	BDL	7.32	BDL	32	15.3	1.21	ND	ND	ND	ND	ND	ND	0.18	ND	1.36	
26	Handpump near Govt Primary School, Kashipur, U.S. Nagar	15-10-2022	Clear	Odourfree	25	7.4	241	338	8	174	128	46	274	20	0.3	BDL	0.03	10.67	BDL	37.3	2.2	1.22	ND	ND	ND	ND	ND	ND	ND	ND	1.24	
27	Handpump at Industrial Area, Mahuakheraganj, Kashipur, U.S. Nagar	15-10-2022	Clear	Odourfree	26	7.6	312	432	10	121	90	31	233	12	0.28	BDL	BDL	BDL	BDL	35.2	2.9	1.38	ND	ND	ND	ND	ND	ND	ND	ND	0.97	
28	Handpump near old Industrial Area, Kashipur near IGL, U.S. Nagar.	15-10-2022	Clear	Odourfree	25	7.3	578	818	9	163	145	18	198	9	0.2	BDL	BDL	12.33	BDL	18.3	7.6	0.62	ND	ND	ND	ND	ND	ND	ND	ND	1.14	
District - Haridwar																																
29	Handpump at CHC, Bhagwanpur Industrial Area - 1	14-10-2022	Clear	Odourfree	20	8.1	484	757	5	74	32	42	270	28	0.9	0.358	BDL	BDL	2.04	48.2	1.5	2.44	ND	ND	ND	ND	ND	ND	0.46	ND	3.85	
30	Handpump at Sikendarpur, Lakeshwari, Bhagwanpur Industrial Area - 2	14-10-2022	Light Brown	Odourfree	20.5	7.9	455	712	6	60	25	35	208	26	0.84	0.398	BDL	6.06	1.62	54.5	1.5	3.06	ND	ND	0.06	ND	ND	ND	0.1	ND	2.9	
31	Handpump at Ramnagar Roorkee Industrial Area -1	14-10-2022	Clear	Odourfree	20.1	8	570	892	8	76	29	47	288	36	0.74	0.243	BDL	6.93	1.34	30.9	3.9	1.54	ND	ND	0.06	ND	ND	ND	0.1	ND	2.9	

Atkhat

Drum

	Parameters	Date	Colour	Odour	Temp.	pH	Total Dissolved Solids (mg/l)	Electrical Conductivity(µs/cm)	Chemical Oxygen Demand(mg/l)	Total Hardness(mg/l)	Calcium Hardness(mg/l)	Magnesium Hardness (mg/l)	Total Alkalinity(mg/l)	Chloride (mg/l)	Fluoride(mg/l)	Nitrate - N(mg/l)	Nitrite - N(mg/l)	Sulphate (mg/l)	Phosphate(mg/l)	Sodium(mg/l)	Potassium(mg/l)	Sodium Adsorption Ratio	Arsenic(mg/l)	Nickel(mg/l)	Copper(mg/l)	Mercury(mg/l)	Chromium(mg/l)	Cadmium(mg/l)	Zinc(mg/l)	Lead(mg/l)	Iron(mg/l)
32	Handpump at Village Sunhera, Roorkee Industrial Area - 2	14-10-2022	Clear	Odourfree	19.4	8.1	464	725	6	70	24	46	232	14	0.88	0.352	BDL	BDL	1.98	55.3	2.4	2.87	ND	ND	ND	ND	ND	ND	ND	ND	2.07
33	Handpump at Roshnabad, Collectorate, SIDCUL, Industrial Area - 1	07-10-2022	Clear	Odourfree	19.7	8	563	880	6	80	34	46	314	46	0.98	BDL	ND	BDL	1.4	13.8	1.5	0.67	ND	ND	ND	ND	ND	ND	1.69	ND	2.68
34	Handpump at Saleempur Mahdood Chowk, SIDCUL Industrial Area - 2	07-10-2022	Clear	Odourfree	20.9	7.6	1299	2030	10	140	56	84	288	68	1.13	0.774	BDL	42.37	1.42	33.6	1.1	1.23	ND	ND	ND	ND	ND	ND	ND	ND	2.17
35	Handpump near Municipal Solid Waste Landfill Site, Near Model Primary School, Sarai, Jawalapur Haridwar	07-10-2022	Clear	Odourfree	19.3	7.6	730	1142	8	94	36	58	286	30	0.25	0.56	BDL	32.92	1.7	23.4	2.3	1.1	ND	ND	ND	ND	ND	0.6	ND	3.15	
36	Handpump near Municipal Solid Waste Landfill Site, Near Jhanda Chowk, Sarai, Jawalapur Haridwar	07-10-2022	Clear	Odourfree	18.9	7.5	889	1390	4	98	34	64	238	54	0.86	0.794	0.273	61.8	1.49	20.2	1.5	0.89	ND	ND	ND	ND	ND	ND	ND	3.17	
District - Pithoragarh																															
37	Handpump at Pithoragarh Town near Chandrabhaga, Pithoragarh	19-10-2022	Clear	Odourfree	13	6.95	149	220	BDL	186	110	76	142	18	0.36	BDL	BDL	22.68	BDL	28.4	4.2	0.9	ND	ND	0.17	ND	ND	ND	ND	ND	1.33
38	Handpump at Pithoragarh Town near Pithoragarh fort, Pithoragarh	19-10-2022	Clear	Odourfree	14	7.33	134	190	BDL	171	113	58	106	13	0.25	BDL	0.04	BDL	BDL	11.2	3.4	0.37	ND	ND	0.18	ND	ND	ND	ND	ND	2.38
District - Almora																															
39	Handpump near jai shri college, Khatyari, Almora	20-10-2022	Clear	Odourfree	14	7.71	109	160	BDL	152	84	68	102	11	0.31	BDL	0.04	BDL	BDL	41.5	14.3	1.45	ND	ND	0.14	ND	ND	ND	ND	ND	1.61
40	Handpump near Pataldevi, Almora	20-10-2022	Clear	Odourfree	14	6.76	128	190	BDL	214	118	96	124	13	0.26	BDL	0.031	BDL	BDL	14.2	5.8	0.42	ND	ND	0.12	ND	ND	ND	ND	ND	0.9
District - Nainital																															
41	Handpump at Ramnagar Town near Govt PG College, Ramnagar	20-10-2022	Clear	Odourfree	19	7.86	210	320	BDL	202	128	74	214	25	0.3	BDL	BDL	18.49	BDL	12.8	4.2	0.39	ND	ND	0.12	ND	ND	ND	ND	ND	1.19
42	Handpump at Nainital Town near Sariyatal	20-10-2022	Clear	Odourfree	15	7.51	178	260	BDL	138	76	62	136	15	0.2	BDL	BDL	16.41	BDL	16.2	4.4	0.59	ND	ND	BDL	ND	ND	ND	ND	ND	1.36
District - Bageshwar																															
43	Handpump near Kafalgair, Bageshwar	10-11-2022	Clear	Odourfree	14	8.16	135	210	BDL	188	120	68	166	25	0.22	BDL	BDL	28.33	BDL	12.1	11	0.38	ND	ND	0.033	ND	ND	BDL	0.95	ND	2.86
44	Handpump near Roadways station, Bageshwar	10-11-2022	Clear	Odourfree	14	7.47	187	280	BDL	225	133	92	182	19	BDL	BDL	BDL	28.66	0.28	11.1	9.7	0.32	ND	ND	BDL	ND	ND	BDL	1.38	BDL	2.35
District - Champawat																															
45	Handpump near Shivmandir, Champawat	11-11-2022	Clear	Odourfree	14	7.69	121	180	BDL	168	92	76	158	11	0.25	BDL	0.25	26.38	BDL	10.8	8.7	0.36	ND	ND	0.03	ND	ND	BDL	2.33	BDL	3.11
46	Handpump near Gas Station Lohaghat, Champawat	11-11-2022	Clear	Odourfree	15	7.55	108	160	BDL	152	88	64	134	15	BDL	BDL	BDL	29.62	BDL	10.7	8.2	0.37	ND	ND	0.048	ND	ND	BDL	2.31	BDL	2.11

Note- Abbreviations- N/A= Not Applicable

ND= Not Detected

BDL= Below Detection Limit

NR= No relaxation

(Neeraj Khatani)
JRF

23/12/22

(Pardeep Chauhan)
LA(Amit Pokhriyal)
AEE

UTTARAKHAND POLLUTION CONTROL BOARD
Gauradevi Parayavaran Bhawan
46-B, SIDCUL, IT Park, Sahasradhara Road, DEHRADUN (Uttarakhand)



उत्तराखण्ड प्रदूषण नियंत्रण बोर्ड
गीरादेवी पर्यावरण भवन
46-बी, सिडकुल, आई.टी. पार्क, सहस्रधारा रोड, देहरादून (उत्तराखण्ड)

Ground Water Quality Analysis Report- Pre Monsoon (May-June 2023)																	Annexure-1								
Parameters	Date of Monitoring	Colour	Odour	Weather	Temp. (°C)	pH	Total Dissolved Solids (mg/L)	Electrical Conductivity(µs/cm)	Chemical Oxygen Demand(mg/L)	Total Hardness(mg/L)	Calcium Hardness(mg/L)	Magnesium Hardness (mg/L)	Total Alkalinity(mg/L)	Chloride (mg/L)	Fluoride(mg/L)	Nitrate - N(mg/L)	Nitrite - N(mg/L)	Sulphate (mg/L)	Phosphate(mg/L)	Sodium(mg/L)	Potassium(mg/L)	Sodium Adsorption Ratio	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)	
Acceptable limit as per BIS IS 10500:2012			→			6.5-8.5	500	N/A	N/A	200	N/A	N/A	200	250	1	45	N/A	200	N/A	N/A	N/A	N/A	NR	NR	
Permissible limit as per BIS IS 10500:2012			→			NR	2000	N/A	N/A	600	N/A	N/A	N/A	1000	1.5	NR	N/A	400	N/A	N/A	N/A	N/A	NR	NR	
Lowest Detection limit			→			2	10 mg/l	05 µs/cm	05 mg/l	10 mg/l	5 mg/l	4 mg/l	5 mg/l	5 mg/l	0.2 mg/l	0.3 mg/l	0.02 mg/l	5 mg/l	0.2 mg/l	5 mg/l	1 mg/l	N/A	1.8	1.8	
S.No	Monitoring Location																								
District - Chamoli																									
1	Handpump, near patrol pump, Joshimath	09-05-2023	Clear	Odourfree	Clear	13	7.40	113	172	BDL	70	58	12	82	15	0.30	BDL	BDL	36.52	BDL	14.20	1.60	0.74	BDL	BDL
2	Handpump, near Gopinath mandir, Gopeshwar	09-05-2023	Clear	Odourfree	Clear	14	7.40	234	351	BDL	110	85	25	90	38	BDL	BDL	0.10	48.96	BDL	35.80	12.90	1.48	BDL	BDL
District - Rudraprayag																									
3	Handpump, near Mandhakini ghat, Augestmuni	15-05-2023	Clear	Odourfree	Clear	13	7.90	73	110	BDL	92	80	12	90	17	0.33	BDL	BDL	33.1	BDL	8.5	2.3	0.38	BDL	BDL
4	Handpump, near Bus Stand, Rudraprayag town	15-05-2023	Clear	Odourfree	Clear	14	7.80	97	146	BDL	98	85	13	90	9	0.36	BDL	BDL	20.24	BDL	9	2.6	0.39	BDL	BDL
District - Uttarkashi																									
5	Handpump near market, Chinyalisaur	03-05-2023	Clear	Odourfree	Clear	19	6.80	148	224	BDL	92	70	22	108	11	BDL	BDL	BDL	40.85	BDL	17	2.10	0.77	BDL	BDL
6	Handpump near market, Uttarkashi	03-05-2023	Turbid	Odourfree	Clear	20	6.70	177	270	BDL	130	105	25	115	24	BDL	BDL	BDL	61.52	BDL	14.10	7.40	0.54	BDL	BDL
District- Tehri																									
7	Handpump, Bhagirathipuram, Tehri	03-05-2023	clear	Odourfree	Clear	20	7.10	242	365	BDL	190	160	30	216	14	BDL	BDL	BDL	5.62	BDL	27.20	1.90	0.86	BDL	BDL
8	Handpump, near Chamund, New tehri	03-05-2023	Clear	Odourfree	Clear	20	7.10	50	77	BDL	47	30	17	40	7	BDL	BDL	BDL	6.84	BDL	8.30	BDL	0.52	BDL	BDL
District - Pauri Garhwal																									
9	Handpump near Devi Mandir, Kotdwar	03-05-2023	clear	Odourfree	Clear	21	7.20	279	419	BDL	225	210	15	264	17	0.40	BDL	0.07	28.79	BDL	11.10	1.50	0.32	BDL	BDL
10	Handpump near Hanuman Mandhir, Siggadi Industrial Area, Kotdwar	03-05-2023	clear	Odourfree	Clear	20	7.50	246	371	BDL	244	223	21	260	27	0.30	BDL	0.09	25.74	BDL	15.80	1.60	0.44	BDL	BDL

Arish

ho

S.No	Monitoring Location	Date of Monitoring	Colour	Odour	Weather	Temp. (°C)	pH	Total Dissolved Solids (mg/L)	Electrical Conductivity(µs/cm)	Chemical Oxygen Demand(mg/L)	Total Hardness(mg/L)	Calcium Hardness(mg/L)	Magnesium Hardness (mg/L)	Total Alkalinity(mg/L)	Chloride (mg/L)	Fluoride(mg/L)	Nitrate - N(mg/L)	Nitrite - N(mg/L)	Sulphate (mg/L)	Phosphate(mg/L)	Sodium(mg/L)	Potassium(mg/L)	Sodium Adsorption Ratio	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)
District - Dehradun																									
11	Handpump near Rusan Pharma, Pharma city, Selaqui, Dehradun	11-05-2023	clear	Odourfree	Clear	19	6.65	74	113	5.60	68	56	12	59	10	0.30	BDL	0.11	195.5	BDL	9.40	BDL	0.49	BDL	BDL
12	Handpump near Old Police Station, Selaqui, Industrial Area-1	11-05-2023	Clear	Odourfree	Clear	19	6.71	118	179	BDL	68	62	6	54	19	0.40	BDL	0.10	200.11	BDL	BDL	1.30	0.79	BDL	BDL
13	Handpump near Honeywell Pvt. Ltd., Selaqui, Industrial Area-2	11-05-2023	clear	Odourfree	Clear	20	6.59	93	145	5.20	72	65	7	58	21	BDL	BDL	0.08	58.77	BDL	9.20	1.30	0.47	BDL	BDL
14	MSW Landfill site, Sisambada, Dehradun-1, North side	11-05-2023	Clear	Odourfree	Clear	18	6.80	105	155	5.20	69	57	12	101	24	BDL	BDL	0.10	260.52	BDL	12.50	BDL	0.65	BDL	BDL
15	MSW Landfill site, Sisambada, Dehradun-1, South side	11-05-2023	Clear	Odourfree	Clear	18	6.56	89	138	5.60	71	64	7	95	24	0.30	BDL	0.08	77.42	BDL	11.9	BDL	0.61	BDL	BDL
District - Haridwar																									
16	Handpump at CHC, Bhagwanpur Industrial Area - 1	31-05-2023	Clear	Odourfree	Clear	27.6	7.30	302	472	8	44	18	26	218	10	BDL	BDL	1.23	8	BDL	49.25	11.86	3.21	BDL	BDL
17	Handpump at Sikendarpur, Lakeshwari, Bhagwanpur Industrial Area- 2	31-05-2023	clear	Odourfree	Clear	25.7	7.90	227	356	BDL	60	10	50	225	15	BDL	BDL	1.20	6	BDL	45.96	5.49	2.57	BDL	BDL
18	Handpump at Ramnagar Roorkee Industrial Area -1	31-05-2023	Clear	Odourfree	Clear	27	6.90	321	502	6	80	20	60	300	15	0.32	BDL	1.08	6.80	BDL	27.09	11.90	1.31	BDL	BDL
19	Handpump at Village Sunhera, Roorkee Industrial Area - 2	31-05-2023	Clear	Odourfree	Clear	27	7.80	310	485	BDL	62	18	44	240	16	0.22	BDL	0.25	10	BDL	40.93	6.59	2.25	BDL	BDL
20	Handpump at Roshnabad, Collectorate, SIDCUL, Industrial Area - 1	31-05-2023	Clear	Odourfree	Clear	27.5	7.80	400	625	8	85	58	27	295	22	0.42	BDL	1.80	6.80	BDL	18.50	4.04	0.87	BDL	BDL
21	Handpump at Saleempur Mahdood Chowk, SIDCUL Industrial Area - 2	31-05-2023	Clear	Odourfree	Clear	28	7.50	779	1218	9.20	140	94	46	310	50	BDL	0.86	2.34	5.80	BDL	41.50	3.99	1.52	BDL	BDL
22	Handpump near Municipal Solid Waste Landfill Site, Near Model Primary School, Sarai, Jawalapur Haridwar	01-06-2023	Clear	Odourfree	Clear	27	7.70	437	684	7.80	86	56	30	258	26	BDL	BDL	1.06	28	BDL	27.60	5.39	1.29	BDL	BDL
23	Handpump near Municipal Solid Waste Landfill Site, Near Jhanda Chowk, Sarai, Jawalapur Haridwar	01-06-2023	Clear	Odourfree	Clear	27.4	7.60	560	874	10	102	66	36	296	31	0.45	0.32	1.04	45	BDL	21.70	2.91	0.93	BDL	BDL
District - Udham Singh Nagar																									
24	Handpump at Santipuri Kiccha - 1, U.S. Nagar	30-05-2023	Clear	Odourless	Clear	28	7.30	234	337	8	182	141	41	92	16	BDL	BDL	BDL	27.62	BDL	11.40	1.60	0.36	BDL	BDL
25	Handpump at Santipuri Kiccha - 2, U.S. Nagar	30-05-2023	Clear	Odourless	Clear	26	7.40	222	328	BDL	163	119	44	88	23	0.38	0.32	BDL	36.91	BDL	7.90	1.40	0.27	BDL	BDL
26	Handpump at Pantnagar Industrial Area - 1, U.S. Nagar	30-05-2023	Clear	Odourless	Clear	26	7.40	246	382	BDL	196	135	61	80	25	0.65	BDL	0.06	34.67	BDL	9.80	2.30	0.30	BDL	BDL
27	Handpump at Pantnagar Industrial Area - 2, U.S. Nagar	30-05-2023	Clear	Odourless	Clear	26	7.20	254	404	BDL	215	167	48	85	18	0.74	BDL	0.04	27.99	BDL	12.50	2.30	0.37	BDL	BDL
28	Handpump near Sitarganj Industrial Area - 1, U.S. Nagar	30-05-2023	Clear	Odourless	Clear	26	7.10	218	335	12	188	152	36	80	11	0.21	BDL	0.06	5.72	BDL	6.60	1.20	0.21	BDL	BDL

Ashish

Anur

S.No	Monitoring Location	Date of Monitoring	Colour	Odour	Weather	Temp. (°C)	pH	Total Dissolved Solids (mg/L)	Electrical Conductivity(µs/cm)	Chemical Oxygen Demand(mg/L)	Total Hardness(mg/L)	Calcium Hardness(mg/L)	Magnesium Hardness (mg/L)	Total Alkalinity(mg/L)	Chloride (mg/L)	Fluoride(mg/L)	Nitrate - N(mg/L)	Nitrite - N(mg/L)	Sulphate (mg/L)	Phosphate(mg/L)	Sodium(mg/L)	Potassium(mg/L)	Sodium Adsorption Ratio	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)
29	Handpump at Sitarganj Industrial Area - 2, U.S. Nagar	30-05-2023	Clear	Odourless	Clear	27	6.80	490	761	8	235	190	45	120	69	0.72	BDL	0.03	39.14	BDL	15.10	1.50	0.43	BDL	BDL
30	Handpump near Gurudwara, Muradabad Road, Kashipur, U.S. Nagar	29-05-2023	Clear	Odourless	Clear	28	7.10	535	788	BDL	194	130	64	104	75	0.41	BDL	BDL	71.23	BDL	86.50	1.70	2.69	BDL	BDL
31	Handpump near Kendriya Vidyalaya, Bazpur Road, Kashipur, U.S. Nagar	29-05-2023	Clear	Odourless	Clear	26	7.30	244	370	BDL	198	152	46	88	24	0.32	BDL	BDL	82.20	BDL	10.20	1.30	0.31	BDL	BDL
32	Handpump near I.G.L Lagoon, Chamalida, Kashipur, U.S. Nagar	29-05-2023	Clear	Odourless	Clear	27	7.30	198	312	BDL	237	163	74	90	15	0.55	BDL	0.03	18.26	BDL	11.80	1.60	0.33	BDL	BDL
33	Handpump at Chaiti Chauraha, Bajpur Road, Kashipur, U.S. Nagar	29-05-2023	Clear	Odourless	Clear	27	7.10	340	495	8	194	138	56	110	17	0.68	BDL	0.05	10.66	BDL	24.90	12.80	0.78	BDL	BDL
34	Handpump near Govt Primary School, Kashipur, U.S. Nagar	29-05-2023	Clear	Odourless	Clear	26	7.20	324	492	BDL	174	132	42	104	13	0.46	BDL	BDL	11.24	BDL	64.30	1.70	2.11	BDL	BDL
35	Handpump at Industrial Area, Mahuakheraganj, Kashipur, U.S. Nagar	29-05-2023	Clear	Odourless	Clear	26	7.20	294	435	8	165	130	35	106	19	0.48	BDL	0.04	5.40	BDL	28.50	2	0.96	BDL	BDL
36	Handpump near old Industrial Area, Kashipur near IGL, U.S. Nagar.	29-05-2023	Clear	Odourless	Clear	28	6.80	1085	1650	8	206	144	62	56	25	0.56	BDL	0.07	25.80	BDL	13.50	1.50	0.41	BDL	BDL
District - Pithoragarh																									
37	Handpump at Pithoragarh Town near Chandrabhaga, Pithoragarh	09-05-2023	Clear	Odourfree	Clear	17	7.61	151	230	BDL	188	106	82	164	17	0.32	BDL	BDL	27.25	BDL	5.40	1.30	0.17	BDL	BDL
38	Handpump at Pithoragarh Town near Pithoragarh fort, Pithoragarh	09-05-2023	Clear	Odourfree	Clear	16	7.26	166	250	BDL	200	114	86	178	19	0.41	BDL	0.03	28.76	BDL	37	8.20	1.13	BDL	BDL
District - Almora																									
39	Handpump near jai shri college, Khatyari, Almora	09-05-2023	Clear	Odourfree	Clear	16	7.89	140	210	BDL	182	108	74	146	18	0.25	BDL	BDL	27.32	BDL	BDL	1.10	0.10	BDL	BDL
40	Handpump near Pataldevi, Almora	09-05-2023	Clear	Odourfree	Clear	16	7.14	119	180	BDL	178	98	80	128	21	0.27	BDL	0.03	31.25	BDL	5.30	6.80	0.17	BDL	BDL
District - Nainital																									
41	Handpump at Ramnagar Town near Govt PG College, Ramnagar	09-05-2023	Clear	Odourfree	Clear	19	7.21	171	260	BDL	210	118	92	186	24	BDL	BDL	0.04	55.21	BDL	6.20	4.10	0.19	BDL	BDL
42	Handpump at Nainital Town near Sariyatal	09-05-2023	Clear	Odourfree	Clear	16	7.44	127	190	BDL	174	102	72	160	19	0.26	BDL	BDL	45.33	BDL	13.20	6.10	0.43	BDL	BDL
District - Bageshwar																									
43	Handpump near Kafilgair, Bageshwar	08-05-2023	Clear	Odourfree	Clear	17	6.93	153	230	BDL	190	112	78	172	21	0.41	BDL	BDL	30.05	BDL	15.60	8.20	0.49	BDL	BDL
44	Handpump at Bageshwar Town - 2 near Roadways station, District-Bageshwar	08-05-2023	Clear	Odourfree	Clear	18	7.75	174	260	BDL	208	122	86	184	17	0.34	BDL	0.03	62.22	BDL	17.10	3.80	0.51	BDL	BDL

Arish

Ar

S.No	Monitoring Location	Date of Monitoring	Colour	Odour	Weather	Temp. (°C)	pH	Total Dissolved Solids (mg/L)	Electrical Conductivity (µs/cm)	Chemical Oxygen Demand (mg/L)	Total Hardness (mg/L)	Calcium Hardness (mg/L)	Magnesium Hardness (mg/L)	Total Alkalinity (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Nitrate - N (mg/L)	Nitrite - N (mg/L)	Sulphate (mg/L)	Phosphate (mg/L)	Sodium (mg/L)	Potassium (mg/L)	Sodium Adsorption Ratio	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)
District - Champawat																									
45	Handpump near Shivmandir, Champawat	08-05-2023	Clear	Odourfree	Clear	16	7.37	139	210	BDL	190	108	82	168	23	0.32	BDL	BDL	25.65	BDL	10.80	8.70	0.34	BDL	BDL
46	Handpump near Gas Station Lohaghat, Champawat	08-05-2023	Clear	Odourfree	Clear	17	7.81	116	180	BDL	166	98	68	142	18	0.30	BDL	BDL	32.8	BDL	6	3.80	0.20	BDL	BDL

Note-

Abbreviations-

N/A= Not Applicable

ND= Not Detected

BDL= Below Detection Limit

NR= No Relaxation

Ashish
03/08/2023

(Ashish Rana)
Junior Research Fellow (JRF)

Pradeep Chauhan
03.08.2023

(Pradeep Chauhan)
Lab Assistant (LA)

Amit Pokhriyal
03/08/2023

(Amit Pokhriyal)
Environment Engineer (EE)

UTTARAKHAND POLLUTION CONTROL BOARD
Gauradevi Parayavaran Bhawan
46-B, SIDCUL, IT Park, Sahasrathadhara Road, DEHRADUN (Uttarakhand)



उत्तराखण्ड प्रदूषण नियंत्रण बोर्ड
गौरादेवी पर्यावरण भवन
46-बी, सिडकुल, आई.टी. पार्क, सहस्रधारा रोड, देहरादून (उत्तराखण्ड)

Ground Water Metals and Pesticides Quality Report- Pre Monsoon (May-June 2023)																								Annexure-II						
Parameters	Date of Monitoring	Colour	Odour	Weather	Temp. (°C)	Arsenic (mg/L)	Nickel (mg/L)	Copper (mg/L)	Mercury (mg/L)	Chromium (mg/L)	Cadmium (mg/L)	Zinc (mg/L)	Lead (mg/L)	Iron (mg/L)	Aldrin (µg/L)	Dieldrin (µg/L)	Alpha-BHC (µg/L)	Beta-BHC (µg/L)	Gamma-BHC (Lindane) (µg/L)	Carbaryl (Carbamate) (µg/L)	Antiofphos (µg/L)	Chlorpyrifos (µg/L)	2,4-dichloro phenoxy Acetic Acid (µg/L)	O,p -DDT (µg/L)	p,p -DDT (µg/L)	Alpha Endosulphan (µg/L)	Beta-Endosulfan (µg/L)	Malinthion (µg/L)	Methyl Parathion (µg/L)	
Acceptable limit as per BIS IS 10500:2012						0.01	0.02	0.05	0.001	N/A	0.003	5	0.01	0.3	0.03	0.03	0.01	0.04	2	NSL	NSL	30	30	1	1	0.4	0.4	190	0.3	
Permissible limit as per BIS IS 10500:2012						0.05	NR	1.5	NR	N/A	NR	15	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Lowest Detection limit						0.01	0.1	0.03	0.001	0.06	0.02	0.01	0.1	0.06	0.01	0.01	0.001	0.01	0.1	0.01	0.01	0.01	0.5	0.5	0.01	0.01	0.1	0.1	5.6	0.1
S.No	Monitoring Location																													
District - Chamoli																														
1	Handpump, near patrol pump, Joshimath	09-05-2023	Clear	Odourfree	Clear	13	ND	ND	ND	ND	ND	2.18	ND	1.62	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2	Handpump, near Gopinath mandir, Gopeshwar	09-05-2023	Clear	Odourfree	Clear	14	ND	ND	ND	ND	ND	2.61	ND	2.69	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
District - Rudraprayag																														
3	Handpump, near Mandhakini ghat, Augestmuni	15-05-2023	Clear	Odourfree	Clear	13	ND	ND	ND	ND	ND	0.53	ND	0.90	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
4	Handpump, near Bus Stand, Rudraprayag town	15-05-2023	Clear	Odourfree	Clear	14	ND	ND	ND	ND	ND	0.98	ND	1.22	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
District - Uttarkashi																														
5	Handpump near market, Chinyalisaur	03-05-2023	Clear	Odourfree	Clear	19	ND	ND	ND	ND	ND	1.95	ND	2.90	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
6	Handpump near market, Uttarkashi	03-05-2023	Turbid	Odourfree	Clear	20	ND	ND	ND	ND	ND	3.65	ND	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
District- Tehri																														
7	Handpump, Bhagirathipuram, Tehri	03-05-2023	clear	Odourfree	Clear	20	ND	ND	ND	ND	ND	1.31	ND	2.34	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
8	Handpump, near Chamund, New tehri	03-05-2023	Clear	Odourfree	Clear	20	ND	ND	ND	ND	ND	1.87	ND	2.72	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
District - Pauri Garhwal																														
9	Handpump near Devi Mandir, Kotdwar	03-05-2023	clear	Odourfree	Clear	21	ND	ND	ND	ND	ND	3.97	ND	3.13	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10	Handpump near Hanuman Mandhir, Siggadi Industrial Area, Kotdwar	03-05-2023	clear	Odourfree	Clear	20	ND	ND	ND	ND	ND	2.68	ND	2.60	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Adhich

hm

S.No	Monitoring Location	Date of Monitoring	Colour	Odour	Weather	Temp. (°C)	Arsenic (mg/L)	Nickel (mg/L)	Copper (mg/L)	Mercury (mg/L)	Chromium (mg/L)	Cadmium (mg/L)	Zinc (mg/L)	Lead (mg/L)	Iron (mg/L)	Aldrin (µg/L)	Dieldrin (µg/L)	Alpha-BHC (µg/L)	Beta-BHC (µg/L)	Gamma-BHC (Lindane) (µg/L)	Carbaryl (Carbamate) (µg/L)	Anitophos (µg/L)	Chlorpyrifos (µg/L)	2,4-dichloro phenoxy Acetic Acid (µg/L)	O,p-DDT (µg/L)	p,p-DDT (µg/L)	Alpha Endosulphan (µg/L)	Beta-Endosulfan (µg/L)	Malathion (µg/L)	Methyl Parathion (µg/L)		
District - Dehradun																																
11	Handpump near Rusan Pharma, Pharma city, Selaqui, Dehradun	11-05-2023	clear	Odourfree	Clear	19	ND	ND	ND	ND	ND	ND	2.58	ND	3.20	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
12	Handpump near Old Police Station, Selaqui, Industrial Area-1	11-05-2023	Clear	Odourfree	Clear	19	ND	ND	ND	ND	ND	ND	1.57	ND	3.28	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
13	Handpump near Honeywell Pvt. Ltd., Selaqui, Industrial Area-2	11-05-2023	clear	Odourfree	Clear	20	ND	ND	ND	ND	ND	ND	0.82	ND	3.22	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
14	MSW Landfill site, Sisambada, Dehradun-1, North side	11-05-2023	Clear	Odourfree	Clear	18	ND	ND	ND	ND	ND	ND	1.42	ND	3.09	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
15	MSW Landfill site, Sisambada, Dehradun-1, South side	11-05-2023	Clear	Odourfree	Clear	18	ND	ND	ND	ND	ND	ND	1.71	ND	2.91	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
District - Udham Singh Nagar																																
17	Handpump at Santipuri Kiccha - 1, U.S. Nagar	30-05-2023	Clear	Odourless	Clear	28	ND	ND	ND	ND	ND	ND	ND	ND	0.69	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
16	Handpump at Santipuri Kiccha - 2, U.S. Nagar	30-05-2023	Clear	Odourless	Clear	26	ND	ND	ND	ND	ND	ND	ND	ND	2.75	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
19	Handpump at Pantnagar Industrial Area - 1, U.S. Nagar	30-05-2023	Clear	Odourless	Clear	26	ND	ND	ND	ND	ND	ND	ND	ND	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
18	Handpump at Pantnagar Industrial Area - 2, U.S. Nagar	30-05-2023	Clear	Odourless	Clear	26	ND	ND	ND	ND	ND	ND	ND	ND	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
21	Handpump near Sitarganj Industrial Area - 1, U.S. Nagar	30-05-2023	Clear	Odourless	Clear	26	ND	ND	ND	ND	ND	ND	ND	ND	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
20	Handpump at Sitarganj Industrial Area - 2, U.S. Nagar	30-05-2023	Clear	Odourless	Clear	27	ND	ND	ND	ND	ND	ND	ND	ND	0.85	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
22	Handpump near Gurudwara, Muradabad Road, Kashipur, U.S. Nagar	29-05-2023	Clear	Odourless	Clear	28	ND	ND	ND	ND	ND	ND	3.69	ND	4.66	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
23	Handpump near Kendriya Vidyalaya, Bazpur Road, Kashipur, U.S. Nagar	29-05-2023	Clear	Odourless	Clear	26	ND	ND	ND	ND	ND	ND	ND	ND	0.74	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
24	Handpump near I.G.L Lagoon, Chamalida, Kashipur, U.S. Nagar	29-05-2023	Clear	Odourless	Clear	27	ND	ND	ND	ND	ND	ND	ND	ND	0.43	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
25	Handpump at Chaiti Chauraha, Bajpur Road, Kashipur, U.S. Nagar	29-05-2023	Clear	Odourless	Clear	27	ND	ND	ND	ND	ND	ND	ND	ND	2.10	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
26	Handpump near Govt Primary School, Kashipur, U.S. Nagar	29-05-2023	Clear	Odourless	Clear	26	ND	ND	ND	ND	ND	ND	ND	ND	1.36	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
27	Handpump at Industrial Area, Mahuakheraganj, Kashipur, U.S. Nagar	29-05-2023	Clear	Odourless	Clear	26	ND	ND	ND	ND	ND	ND	ND	ND	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
28	Handpump near old Industrial Area, Kashipur near IGL, U.S. Nagar.	29-05-2023	Clear	Odourless	Clear	28	ND	ND	ND	ND	ND	ND	ND	ND	0.52	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Abhishek

AS

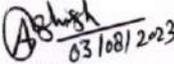
S.No	Monitoring Location	Date of Monitoring	Colour	Odour	Weather	Temp. (°C)	Arsenic (mg/L)	Nickel (mg/L)	Copper (mg/L)	Mercury (mg/L)	Chromium (mg/L)	Cadmium (mg/L)	Zinc (mg/L)	Lead (mg/L)	Iron (mg/L)	Aldrin (µg/L)	Dieldrin (µg/L)	Alpha-BHC (µg/L)	Beta-BHC (µg/L)	Gamma-BHC (Lindane) (µg/L)	Carbaryl (Carbamate) (µg/L)	Anilophos (µg/L)	Chlorpyrifos (µg/L)	2,4-dichloro phenoxy Acetic Acid (µg/L)	O,p'-DDT (µg/L)	p,p'-DDT (µg/L)	Alpha Endosulphan (µg/L)	Beta-Endosulphan (µg/L)	Malathion (µg/L)	Methyl Parathion (µg/L)			
District - Haridwar																																	
29	Handpump at CHC, Bhagwanpur Industrial Area - 1	31-05-2023	Clear	Odourfree	Clear	27.6	ND	ND	ND	ND	ND	ND	ND	ND	0.28	BDL	BDL	BDL	BDL	0.201	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
30	Handpump at Sikendarpur, Lakeshwari, Bhagwanpur Industrial Area- 2	31-05-2023	clear	Odourfree	Clear	25.7	ND	ND	ND	ND	ND	ND	ND	ND	0.79	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
31	Handpump at Ramnagar Roorkee Industrial Area -1	31-05-2023	Clear	Odourfree	Clear	27	ND	ND	ND	ND	ND	ND	ND	ND	1.77	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.372	BDL	BDL	
32	Handpump at Village Sunhera, Roorkee Industrial Area - 2	31-05-2023	Clear	Odourfree	Clear	27	ND	ND	ND	ND	ND	ND	ND	ND	0.46	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
33	Handpump at Roshnabad, Collectorate, SIDCUL, Industrial Area - 1	31-05-2023	Clear	Odourfree	Clear	27.5	ND	ND	ND	ND	ND	ND	1.55	ND	1.47	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.029	BDL	BDL	
34	Handpump at Saleempur Mahdood Chowk, SIDCUL Industrial Area - 2	31-05-2023	Clear	Odourfree	Clear	28	ND	ND	ND	ND	ND	ND	ND	ND	0.25	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.029	BDL	BDL
35	Handpump near Municipal Solid Waste Landfill Site, Near Model Primary School, Sarai, Jawalapur Haridwar	01-06-2023	Clear	Odourfree	Clear	27	ND	ND	ND	ND	ND	ND	ND	ND	0.38	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.029	BDL	BDL
36	Handpump near Municipal Solid Waste Landfill Site, Near Jhanda Chowk, Sarai, Jawalapur Haridwar	01-06-2023	Clear	Odourfree	Clear	27.4	ND	ND	ND	ND	ND	ND	ND	ND	0.95	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.029	BDL	BDL
District - Pithoragarh																																	
37	Handpump at Pithoragarh Town near Chandrabhaga, Pithoragarh	09-05-2023	Clear	Odourfree	Clear	17	ND	ND	ND	ND	ND	ND	2.21	ND	2.76	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
38	Handpump at Pithoragarh Town near Pithoragarh fort, Pithoragarh	09-05-2023	Clear	Odourfree	Clear	16	ND	ND	ND	ND	ND	ND	1.37	ND	1.03	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
District - Almora																																	
39	Handpump near jai shri college, Khatyari, Almora	09-05-2023	Clear	Odourfree	Clear	16	ND	ND	ND	ND	ND	ND	2.74	ND	6.34	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
40	Handpump near Pataldevi, Almora	09-05-2023	Clear	Odourfree	Clear	16	ND	ND	ND	ND	ND	ND	0.34	ND	2.99	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
District - Nainital																																	
41	Handpump at Ramnagar Town near Govt PG College, Ramnagar	09-05-2023	Clear	Odourfree	Clear	19	ND	ND	ND	ND	ND	ND	1.79	ND	2.04	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
42	Handpump at Nainital Town near Sariyatal	09-05-2023	Clear	Odourfree	Clear	16	ND	ND	ND	ND	ND	ND	0.96	ND	3.21	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
District - Bageshwar																																	
43	Handpump near Kafilgair, Bageshwar	08-05-2023	Clear	Odourfree	Clear	17	ND	ND	ND	ND	ND	ND	1.07	ND	2.16	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
44	Handpump at Bageshwar Town - 2 near Roadways station, District-Bageshwar	08-05-2023	Clear	Odourfree	Clear	18	ND	ND	ND	ND	ND	ND	3.51	ND	3.14	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

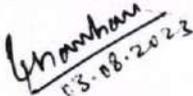
Arish

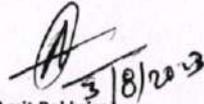
bm

S.No	Monitoring Location	Date of Monitoring	Colour	Odour	Weather	Temp. (°C)	Arsenic (mg/L)	Nickel (mg/L)	Copper (mg/L)	Mercury (mg/L)	Chromium (mg/L)	Cadmium (mg/L)	Zinc (mg/L)	Lead (mg/L)	Iron (mg/L)	Aldrin (µg/L)	Dieldrin (µg/L)	Alpha-BHC (µg/L)	Beta-BHC (µg/L)	Gamma-BHC (Lindane) (µg/L)	Carbaryl (Carbamate) (µg/L)	Anilopbos (µg/L)	Chlorpyrifos (µg/L)	2,4-dichloro phenoxy Acetic Acid (µg/L)	O,p -DDT (µg/L)	p,p -DDT (µg/L)	Alpha Endosulphian (µg/L)	Beta-Endosulfan (µg/L)	Malathion (µg/L)	Methyl Parathion (µg/L)	
District - Champawat																															
45	Handpump near Shivmandir, Champawat	08-05-2023	Clear	Odourfree	Clear	16	ND	ND	ND	ND	ND	ND	1.31	ND	3.27	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
46	Handpump near Gas Station Lohaghat, Champawat	08-05-2023	Clear	Odourfree	Clear	17	ND	ND	ND	ND	ND	ND	1.61	ND	3.15	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Note: Abbreviations- N/A= Not Applicable ND= Not Detected NSL= No Specified Limit
BDL= Below Detection Limit NR= No Relaxation


03/08/2023
Ashish Rana
Junior Research Fellow(JRF)


03-08-2023
Pradeep Chauhan
Lab Assistant (LA)


3/8/2023
Amit Pokhriyal
Environment Engineer

200

UTTARAKHAND POLLUTION CONTROL BOARD
 Gauri:AG72ra devi Parayavaran Bhawan 46-B, SIDCUL,IT Park, Sahashtradhara Road
 DEHRADUN (Uttarakhand)



उत्तराखण्ड प्रदूषण नियंत्रण बोर्ड
 गौरा देवी पर्यावरण भवन
 46-बी, सिडकुल,आई.टी. पार्क, सहस्रधारा रोड, देहरादून(उत्तराखण्ड)

Ground Water Quality Analysis Report (April 2022)

Parameters	pH	Total Dissolved Solids (mg/l)	Electrical Conductivity(µs/cm)	Chemical Oxygen Demand(mg/l)	Total Hardness(mg/l)	Calcium Hardness (mg/l)	Magnesium Hardness (mg/l)	Total Alkalinity(mg/l)	P - Alkalinity(mg/l)	Chloride (mg/l)	Fluoride(mg/l)	Nitrate - N(mg/l)	Nitrite - N(mg/l)	Sulphate (mg/l)	Phosphate(mg/l)	Sodium(mg/l)	Potassium(mg/l)	Sodium Adsorption Ratio	Arsenic(mg/l)	Nickel(mg/l)	Copper(mg/l)	Mercury(mg/l)	Chromium(mg/l)	Cadmium(mg/l)	Zinc(mg/l)	Lead(mg/l)	Iron(mg/l)	Total Kjeldahl Nitrogen (mg/l)	Aldrin(µg/l)	Endosulphan(µg/l)	Malathion(µg/l)	
																																Drinking Water Requirement (acceptable limit) as per BIS IS 10500:2012
Drinking Water Requirement (acceptable limit) as per BIS IS 10500:2012	6.5-8.5	500	N/A	N/A	200	N/A	N/A	200	N/A	250	1	45	N/A	200	N/A	N/A	N/A	N/A	0.01	0.02	0.05	0.001	N/A	0.003	5	0.01	0.3	N/A	0.03	0.4	0.4	
Drinking water Permissible limit(as per BIS IS 10500:2012)	No relaxation	2000	N/A	N/A	600	N/A	N/A	600	N/A	1000	1.5	No relaxation	N/A	400	N/A	N/A	N/A	N/A	0.05	No relaxation	1.5	No relaxation	N/A	No relaxation	15	No relaxation	No relaxation	N/A	N/A	N/A	N/A	
Lowest Detection Limit	2	10 mg/l	05 µs/cm	05 mg/l	10 mg/l	5 mg/l	4 mg/l	20 mg/l	5 mg/l	5 mg/l	0.2 mg/l	0.3 mg/l	0.02 mg/l	5 mg/l	0.2 mg/l	5 mg/l	1 mg/l	N/A	0.01	0.1	0.03	0.001	0.06	0.02	0.01	0.1	0.06	1.5 mg/l	0.05 µg/l	0.05 µg/l	0.50 µg/l	
S.No	Monitoring Location																															
	District - Chamoli																															
1	Handpump, Joshimath town	6.93	104	165	BDL	76	49	27	BDL	ND	11	0.39	BDL	BDL	22.01	BDL	16.2	9.5	0.8	ND	BDL	0.085	ND	BDL	BDL	0.702	BDL	2.62	9.56	BDL	BDL	BDL
2	Handpump, Gopeshwar town	6.55	274	384	BDL	110	84	26	72	ND	65	0.24	BDL	0.32	73.69	BDL	69.2	27.7	2.86	ND	BDL	0.34	ND	BDL	BDL	0.118	BDL	1.02	5.4	BDL	BDL	BDL
	District - Rudraprayag																															
3	Handpump, Augestmuni town	7.42	255	398	BDL	174	146	29	142	ND	50	0.4	BDL	BDL	35.71	BDL	41.6	6.3	1.36	ND	BDL	0.059	ND	BDL	BDL	0.872	BDL	2.12	7.96	BDL	BDL	BDL
4	Handpump, Rudraprayag town	8.03	320	525	BDL	236	160	76	230	ND	70	0.38	BDL	BDL	18.65	BDL	71.9	7.3	2.02	ND	BDL	BDL	ND	BDL	BDL	0.334	BDL	3.23	4.96	BDL	BDL	BDL
	District - Uttarkashi																															
5	Handpump, Chinyalisaur	8.08	149	277	BDL	178	120	58	140	ND	11.98	0.43	BDL	0.03	359.7	0.18	26.8	2.1	0.87	ND	BDL	BDL	ND	BDL	BDL	ND	BDL	0.48	6.85	BDL	BDL	BDL
6	Handpump, Uttarkashi	7.9	109	227	BDL	112	70	42	120	ND	4	0.37	BDL	0.02	357.3	BDL	16.4	2.4	0.67	ND	BDL	BDL	ND	BDL	BDL	ND	BDL	3.72	8.5	BDL	BDL	BDL

District - Tehri																																
9	Handpump, Bhagirathipuram, Tehri	7.43	312	472	BDL	186	130	56	200	ND	5	0.24	BDL	BDL	4.44	BDL	36.9	1.7	1.17	ND	BDL	BDL	ND	BDL	BDL	0.26	BDL	3.52	4.55	BDL	BDL	BDL
	Handpump, New tehri	7.8	85	133	BDL	61	40	21	53	ND	5	0.21	BDL	BDL	7.21	BDL	36.3	1.8	2.01	ND	BDL	BDL	ND	BDL	BDL	0.282	BDL	2.8	7.62	BDL	BDL	BDL
District - Pauri Garhwal																																
9	Handpump, Kotdwar Town	7.8	219	399	BDL	240	170	70	265	ND	27	0.29	BDL	0.18	9.96	BDL	34.4	1.8	0.96	ND	BDL	BDL	ND	BDL	BDL	3.619	0.316	7.07	8.41	BDL	BDL	BDL
10	Handpump near Siggadi Industrial Area, Kotdwar	7.59	257	474	BDL	133	113	30	170	ND	7	0.33	BDL	0.6	18.23	BDL	40.6	0.82	1.47	ND	BDL	BDL	ND	BDL	BDL	1.541	0.1	4.92	7.85	BDL	BDL	BDL
District - Dehradun																																
11	Handpump, Pharma city, Selaqui, Dehradun	6.7	173	260	BDL	122	68	54	80	ND	12	0.27	BDL	0.13	18.9	BDL	26.6	1.5	1.04	ND	BDL	BDL	ND	BDL	BDL	ND	BDL	0.41	7.52	BDL	BDL	BDL
12	Handpump, Selaqui, Industrial Area-1	6.55	182	274	BDL	124	83	41	90	ND	9	0.33	BDL	BDL	28.24	BDL	29.4	3.8	1.14	ND	BDL	BDL	ND	BDL	BDL	2.17	BDL	13.23	6.52	BDL	BDL	BDL
13	Handpump, Selaqui, Industrial Area-2	6.76	199	286	BDL	100	61	39	79	ND	14	0.49	BDL	0.02	11.77	BDL	28.2	3.9	1.22	ND	BDL	BDL	ND	BDL	BDL	0.108	BDL	0.06	5.5	BDL	BDL	BDL
14	MSW Landfill site, Sisambada, Dehradun-1, North side	6.94	167	266	BDL	183	152	31	97	ND	6	0.36	BDL	BDL	84.6	0.18	18.8	1.2	0.6	ND	BDL	BDL	ND	BDL	BDL	0.291	BDL	2.16	8.21	BDL	BDL	BDL
15	MSW Landfill site, Sisambada, Dehradun-1, South side	7.05	179	271	BDL	220	160	60	102	ND	7	0.48	BDL	BDL	75.08	BDL	16.9	BDL	0.49	ND	BDL	BDL	ND	BDL	BDL	ND	BDL	2.18	6.52	BDL	BDL	BDL
District - Udham Singh Nagar																																
16	Handpump at Santipuri Kiccha - 2, U.S. Nagar	7.6	216	330	5	174	112	62	200	ND	18	0.42	BDL	0.02	15.75	BDL	8.4	BDL	0.27	ND	BDL	BDL	ND	BDL	BDL	0.272	BDL	0.45	8.86	BDL	BDL	BDL
17	Handpump at Santipuri Kiccha - 1, U.S. Nagar	7.2	234	350	8	195	136	59	212	ND	16	0.4	0.7	0.06	30.8	BDL	12.5	BDL	0.38	ND	BDL	BDL	ND	BDL	BDL	0.037	BDL	0.28	10.56	BDL	BDL	BDL
18	Handpump at Pantnagar Industrial Area - 2, U.S. Nagar	7.5	200	308	5.8	202	120	82	190	ND	17	0.8	BDL	BDL	36.68	BDL	22.86	BDL	0.69	ND	BDL	BDL	ND	BDL	BDL	0.201	BDL	2.05	8.52	BDL	BDL	BDL
19	Handpump at Pantnagar Industrial Area - 1, U.S. Nagar	7.4	220	330	5.2	180	122	58	196	ND	14	0.75	BDL	0.06	17.2	0.22	16.2	BDL	0.52	ND	BDL	0.08	ND	BDL	BDL	0.025	BDL	0.12	7.52	BDL	BDL	BDL
20	Handpump at Sitarganj Industrial Area - 2, U.S. Nagar	7.2	294	440	15	200	164	36	228	ND	20	0.6	BDL	0.05	26.8	BDL	22	BDL	0.67	ND	BDL	BDL	ND	BDL	BDL	ND	BDL	0.98	6.99	BDL	BDL	BDL
21	Handpump near Sitarganj Industrial Area - 1, U.S. Nagar	7.4	276	410	11	208	164	44	246	ND	26	0.68	BDL	0.02	28.76	BDL	38.4	BDL	1.15	ND	BDL	BDL	ND	BDL	BDL	1.74	BDL	1.84	7.86	BDL	BDL	BDL
22	Handpump near Gurudwara, Muradabad Road, Kashipur, U.S. Nagar	7.2	230	350	7	214	120	94	196	ND	20	0.46	BDL	0.02	40.3	BDL	54.43	1	1.61	ND	BDL	0.177	ND	BDL	BDL	0.235	BDL	0.98	11.5	BDL	BDL	BDL
23	Handpump near Kendriya Vidyalaya, Bazpur Road, Kashipur, U.S. Nagar	Handpump was in dry condition due to which sample not taken																														
24	Handpump near I.G.L Lagoon, Chamalida, Kashipur, U.S. Nagar	7.6	220	720	9	184	110	74	160	ND	18	0.4	BDL	0.02	18	BDL	10.2	BDL	0.32	ND	BDL	BDL	ND	BDL	BDL	0.325	BDL	0.27	10.51	BDL	BDL	BDL
25	Handpump at Chaiti Chauraha, Bajpur Road, Kashipur, U.S. Nagar	7.4	216	320	12	180	100	80	224	ND	15	0.5	BDL	0.03	32.1	BDL	20.8	2.4	0.67	ND	BDL	BDL	ND	BDL	BDL	0.016	BDL	0.6	7.84	BDL	BDL	BDL

	Handpump near Govt Primary School, Kashipur, U.S. Nagar	7.5	226	346	8	220	148	72	222	ND	18	0.4	BDL	BDL	7.8	BDL	28.9	1.8	0.84	ND	BDL	BDL	ND	BDL	BDL	ND	BDL	BDL	0.89	11.3	BDL	BDL	BDL
	Handpump at Industrial Area, Mahuakheraganj, Kashipur, U.S. Nagar	7.4	290	420	10	140	120	20	244	ND	15	0.55	BDL	0.02	20.4	BDL	20	1.6	0.73	ND	BDL	0.077	ND	BDL	BDL	0.056	BDL	0.6	9.85	BDL	BDL	BDL	
	Handpump near old Industrial Area, Kashipur near IGL, U.S. Nagar.	7.5	536	800	10	218	142	76	264	ND	12	0.5	BDL	0.05	22.18	BDL	16.2	BDL	0.47	ND	BDL	BDL	ND	BDL	BDL	ND	BDL	0.42	9.52	BDL	BDL	BDL	
District - Haridwar																																	
29	Handpump at CHC, Bhagwanpur Industrial Area - 1	7.39	326	509	11	48	20	28	256	ND	12	0.17	0.24	0.17	9.10	0.15	43.5	1.7	2.73	ND	BDL	0.034	ND	BDL	BDL	0.127	BDL	1.01	5.99	BDL	BDL	BDL	
30	Handpump at Sikendrabad, Lakeshwari, Bhagwanpur Industrial Area- 2	7.4	291	455	8	70	12	58	254	ND	14	0.18	0.25	0.13	5	0.14	47.9	1.8	1.94	ND	BDL	0.046	ND	BDL	BDL	0.043	BDL	0.06	6.1	BDL	BDL	BDL	
31	Handpump at Ramnagar Roorkee Industrial Area - 1	7.2	388	606	7	84	18	66	298	ND	26	0.31	0.26	0.33	6.6	0.13	24.2	4	1.14	ND	BDL	BDL	ND	BDL	BDL	ND	0.178	ND	5.68	BDL	BDL	BDL	
32	Handpump at Village Sunhera, Roorkee Industrial Area - 2	7.6	360	563	BDL	66	22	44	320	ND	12	0.23	0.23	0.19	98.3	0.13	47.8	2.4	3.60	ND	BDL	0.04	ND	BDL	BDL	1.73	BDL	2.13	7.12	BDL	BDL	BDL	
33	Handpump at Roshnabad, Collectorate, SIDCUL, Industrial Area - 1	7.1	454	709	6	100	44	56	302	ND	18	0.56	6.55	0.11	6.11	0.05	14.3	1.6	0.62	ND	BDL	0.04	ND	BDL	BDL	ND	0.195	5.37	5.4	BDL	BDL	BDL	
34	Handpump at Saleempur Mahdood Chowk, SIDCUL Industrial Area - 2	6.98	882	1378	10	142	100	42	344	ND	114	BDL	2.4	0.39	5.7	0.19	54.7	BDL	1.98	ND	BDL	BDL	ND	BDL	BDL	0.489	BDL	3.38	6.85	BDL	BDL	BDL	
35	Handpump near Municipal Solid Waste Landfill Site, Sarai, Jawalapur Haridwar - 1	7.2	495	774	8	98	54	44	274	ND	30	BDL	5.3	0.07	38.4	0.18	23.2	2.4	1.01	ND	BDL	BDL	ND	BDL	BDL	3.01	BDL	3.57	5.67	BDL	BDL	BDL	
36	Handpump near Municipal Solid Waste Landfill Site, Sarai, Jawalapur Haridwar - 2	7.15	592	925	9	106	70	36	302	ND	52	0.39	6.20	0.05	68.3	0.14	20.5	1.7	0.86	ND	BDL	0.03	ND	BDL	BDL	0.81	BDL	0.97	4.48	BDL	BDL	BDL	
District - Pithoragarh																																	
37	Handpump at Pithoragarh Town near Chandrabhaga, Pithoragarh	7.75	137	190	BDL	176	102	74	154	ND	21	0.38	BDL	0.09	32.78	BDL	26	3.4	0.84	ND	BDL	BDL	ND	BDL	BDL	ND	BDL	0.25	5.62	BDL	BDL	BDL	
38	Handpump at Pithoragarh Town near Pithoragarh fort, Pithoragarh	7.59	155	230	BDL	168	94	78	172	ND	17	0.29	BDL	BDL	BDL	0.13	BDL	1.1	0.09	ND	BDL	0.161	ND	BDL	BDL	6.82	BDL	5.34	3.96	BDL	BDL	BDL	
District - Almora																																	
39	Handpump at Almora Town- 2 near jai shri college, Khatyari, Almora	7.36	118	170	BDL	184	96	88	166	ND	15	0.28	BDL	0.02	20.89	0.11	45.8	18.3	1.46	ND	BDL	0.033	ND	BDL	BDL	ND	BDL	2.5	3.36	BDL	BDL	BDL	
40	Handpump at Almora Town- 1 near Pataldevi, Almora	7.51	131	190	BDL	196	104	92	184	ND	17	0.23	BDL	BDL	29.65	0.12	8.2	6.6	0.25	ND	BDL	0.06	ND	BDL	BDL	ND	BDL	0.72	4.87	BDL	BDL	BDL	
District - Nainital																																	
41	Handpump at Ramnagar Town near Govt PG College, Ramnagar	7.53	163	240	BDL	190	102	88	192	ND	21	0.35	BDL	BDL	34.64	0.12	8.8	4	0.27	ND	BDL	0.036	ND	BDL	BDL	ND	BDL	0.93	4.85	BDL	BDL	BDL	

	Handpump at Nainital Town near Sariyatal	7.75	145	210	BDL	182	98	84	164	ND	25	0.22	BDL	0.0	32.85	0.12	13.5	5	0.43	ND	BDL	0.032	ND	BDL	BDL	ND	BDL	1.11	3.36	BDL	BDL	BDL
District - Bageshwar																																
	Handpump at Bageshwar Town - 1 near Kafalgair	7.31	148	210	BDL	194	108	86	186	ND	19	0.44	BDL	0.02	23.58	BDL	7.2	3.1	0.22	ND	BDL	0.395	ND	BDL	BDL	0.467	BDL	4.45	5.54	BDL	BDL	BDL
	Handpump at Bageshwar Town - 2 near Roadways station, Bageshwar	7.59	113	160	BDL	170	92	78	144	ND	21	0.31	BDL	BDL	BDL	0.25	22.8	13.7	0.75	ND	BDL	0.086	ND	BDL	BDL	0.164	BDL	2.61	4.96	BDL	BDL	BDL
District - Champawat																																
45	Handpump at Champawat Town - 1 near Shivmandir	7.43	111	160	BDL	196	104	92	152	ND	19	0.42	BDL	BDL	29.13	BDL	8.8	3.9	0.27	ND	BDL	0.482	ND	BDL	BDL	0.226	BDL	3.43	6.11	BDL	BDL	BDL
46	Handpump at Champawat Town - 2 near Gas Station Lohagat	7.11	137	190	BDL	166	98	68	160	ND	17	0.36	BDL	BDL	15.16	0.11	BDL	1.4	0.15	ND	BDL	0.534	ND	BDL	BDL	0.767	BDL	2.23	4.1	BDL	BDL	BDL

Note- Abbreviations- NA= Not Applicable

BDL= Below Detection Limit

ND= Not Detected

(Neeraj Kathari)
17/6/22
JRF

(Amit Pokriyal)
17/6/2022
AEE

(S.S. Pali)
17.6.22
Chief Environment Officer

UTTARAKHAND POLLUTION CONTROL BOARD
Gauradevi Parayavaran Bhawan
46-B, SIDCUL, IT Park, Sahasradhara Road, DEHRADUN (Uttarakhand)



Head Office

उत्तराखण्ड प्रदूषण नियंत्रण बोर्ड
गौरादेवी पर्यावरण भवन
46-बी, सिडकुल, आई.टी. पार्क, सहस्रधारा रोड, देहरादून (उत्तराखण्ड)

Ground Water Quality Analysis Report- Post Monsoon (October-December 2023)																				Annexure-I																
Parameters	Date of Monitoring	Colour	Odour	Weather	Temp. (°C)	pH	Total Dissolved Solids (mg/L)	Electrical Conductivity(µs/cm)	Chemical Oxygen Demand(mg/L)	Total Hardness(mg/L)	Calcium Hardness(mg/L)	Magnesium Hardness (mg/L)	Total Alkalinity(mg/L)	Chloride (mg/L)	Fluoride(mg/L)	Nitrate - N(mg/L)	Nitrite - N(mg/L)	Sulphate (mg/L)	Phosphate(mg/L)	Sodium(mg/L)	Potassium(mg/L)	Sodium Adsorption Ratio	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)	Arsenic (mg/L)	Nickel (mg/L)	Copper (mg/L)	Mercury (mg/L)	Chromium (mg/L)	Cadmium (mg/L)	Zinc (mg/L)	Lead (mg/L)	Iron (mg/L)			
Acceptable limit as per BIS IS 10500:2012			→			6.5-8.5	500	N/A	N/A	200	N/A	N/A	200	250	1.00	45.00	N/A	200	N/A	N/A	N/A	N/A	N/A	NR	NR	0.01	0.02	0.05	0.00	N/A	0.00	5.00	0.01	0.30		
Permissible limit as per BIS IS 10500:2012			→			NR	2000	N/A	N/A	600	N/A	N/A	N/A	1000	1.50	NR	N/A	400	N/A	N/A	N/A	N/A	N/A	NR	NR	0.05	NR	1.50	NR	N/A	NR	15	NR	NR		
Lowest Detection limit			→			2.00	10 mg/l	05 µs/cm	05 mg/l	10 mg/l	5 mg/l	4 mg/l	5 mg/l	5 mg/l	0.2 mg/l	0.3 mg/l	0.02 mg/l	5 mg/l	0.2 mg/l	5 mg/l	1 mg/l	N/A	1.80	1.80	0.01	0.10	0.03	0.001	0.06	0.02	0.01	0.10	0.06			
S.No	Monitoring Location																																			
1	Handpump, near patrol pump, Joshimath	06-11-2023	Clear	Odourfree	Clear	13	7.52	108	169	BDL	65	55	10	76	18	BDL	BDL	BDL	7.22	BDL	12.36	2.19	0.66	BDL	BDL	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.28	
2	Handpump, near Gopinath mandir, Gopeshwar	17-11-2023	Clear	Odourfree	Clear	19	7.10	122	243	BDL	100	78	22	88	32	0.21	BDL	0.21	9.50	BDL	25.12	10.16	1.08	BDL	BDL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.49
District - Rudraprayag																																				
3	Handpump, near Mandhakini ghat, Augestmuni	17-11-2023	Clear	Odourfree	Clear	18	7.08	105	208	BDL	109	90	19	108	13	0.27	BDL	BDL	5.77	BDL	BDL	1.70	0.20	BDL	BDL	ND	ND	ND	ND	ND	ND	ND	0.55	ND	0.58	
4	Handpump, near Bus Stand, Rudraprayag town	17-11-2023	Clear	Odourfree	Clear	19	7.54	115	230	BDL	130	84	46	94	18	BDL	BDL	BDL	BDL	BDL	5.60	1.50	0.21	BDL	BDL	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.74	
District - Uttarkashi																																				
5	Handpump near market, Chinyalisaur	25-11-2023	Clear	Odourfree	Clear	18	7.17	169	337	BDL	202	160	42	171	36	0.24	BDL	BDL	26.74	BDL	13.70	1.50	0.42	BDL	BDL	ND	ND	ND	ND	ND	ND	ND	0.29	BDL	0.89	
6	Handpump near market, Uttarkashi	25-11-2023	clear	Odourfree	Clear	19	7.61	120	239	BDL	128	124	04	152	27	BDL	BDL	0.31	56.84	BDL	11.19	5.12	0.43	BDL	BDL	ND	ND	ND	ND	ND	ND	ND	0.31	BDL	0.92	
District- Tehri																																				
7	Handpump, Bhagirathipuram, Tehri	02-11-2023	clear	Odourfree	Clear	21	7.34	145	290	BDL	133	125	08	105	20	BDL	BDL	BDL	15.62	BDL	29.85	3.26	1.12	BDL	BDL	ND	ND	ND	ND	ND	ND	ND	0.28	ND	0.86	
8	Handpump, near Chamund, New tehri	02-11-2023	Clear	Odourfree	Clear	20	7.38	38.0	76.6	BDL	29	25	04	27	05	BDL	BDL	BDL	9.26	BDL	6.96	BDL	0.56	BDL	BDL	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.29	
District - Pauri Garhwal																																				
9	Handpump near Devi Mandir, Kotdwar	22-11-2023	clear	Odourfree	Clear	20	7.16	230	345	BDL	198	178	20	202	14	0.23	BDL	BDL	15.42	BDL	9.14	1.20	0.28	BDL	BDL	ND	ND	ND	ND	ND	ND	ND	2.01	ND	0.84	
10	Handpump near Hanuman Mandhir, Siggadi Industrial Area, Kotdwar	22-11-2023	clear	Odourfree	Clear	19	7.24	210	315	BDL	216	195	21	223	22	BDL	BDL	BDL	18.20	BDL	12.08	1.09	0.36	BDL	BDL	ND	ND	ND	ND	ND	ND	ND	0.50	ND	0.92	

Adish

Muni

S.No	Monitoring Location	Date of Monitoring	Colour	Odour	Weather	Temp. (°C)	pH	Total Dissolved Solids (mg/L)	Electrical Conductivity(µs/cm)	Chemical Oxygen Demand(mg/L)	Total Hardness(mg/L)	Calcium Hardness(mg/L)	Magnesium Hardness (mg/L)	Total Alkalinity(mg/L)	Chloride (mg/L)	Fluoride(mg/L)	Nitrate - N(mg/L)	Nitrite - N(mg/L)	Sulphate (mg/L)	Phosphate(mg/L)	Sodium(mg/L)	Potassium(mg/L)	Sodium Adsorption Ratio	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)	Arsenic (mg/L)	Nickel (mg/L)	Copper (mg/L)	Mercury (mg/L)	Chromium (mg/L)	Cadmium (mg/L)	Zinc (mg/L)	Lead (mg/L)	Iron (mg/L)
District - Dehradun																																		
11	Handpump near Rusan Pharma, Pharma city, Selaqui, Dehradun	29-11-2023	clear	Odourfree	Clear	20	6.98	61	122	5.20	84	68	16	72	08	0.21	BDL	BDL	23.49	BDL	7.25	1.79	0.34	BDL	BDL	ND	ND	ND	ND	ND	ND	ND	ND	1.08
12	Handpump near Old Police Station, Selaqui, Industrial Area-1	29-11-2023	Clear	Odourfree	Clear	20	6.92	112	199	BDL	78	62	16	70	21	0.33	BDL	BDL	16.79	BDL	5.90	1.30	0.23	BDL	BDL	ND	ND	ND	ND	ND	ND	0.72	ND	0.98
13	Handpump near Honeywell Pvt. Ltd., Selaqui, Industrial Area-2	29-11-2023	clear	Odourfree	Clear	20	6.59	71	140	BDL	87	66	21	70	27	0.30	BDL	BDL	10.85	BDL	10.7	2.10	0.50	BDL	BDL	ND	ND	ND	ND	ND	ND	0.17	ND	1.15
14	MSW Landfill site, Sisambada, Dehradun-1, North side	29-11-2023	Clear	Odourfree	Clear	19	6.86	109	218	BDL	87	63	24	97	10	0.29	BDL	BDL	BDL	BDL	10.12	1.17	0.47	BDL	BDL	ND	ND	ND	ND	ND	ND	ND	ND	0.98
15	MSW Landfill site, Sisambada, Dehradun-1, South side	29-11-2023	Clear	Odourfree	Clear	19	6.65	105	213	5.20	79	57	22	94	08	0.22	BDL	BDL	BDL	BDL	8.89	1.39	0.43	BDL	BDL	ND	ND	ND	ND	ND	ND	ND	ND	1.19
District - Haridwar																																		
16	Handpump at CHC, Bhagwanpur Industrial Area - 1	22-12-2023	Clear	Odourfree	Clear	28	7.38	298	466	07	198	102	96	210	08	0.26	0.38	0.20	9.17	BDL	27.00	2.50	0.83	BDL	BDL	ND	ND	ND	ND	ND	ND	0.32	ND	1.06
17	Handpump at Sikendarpur, Lakeshwari, Bhagwanpur Industrial Area- 2	22-12-2023	clear	Odourfree	Clear	27	7.76	243	380	BDL	213	118	95	219	05	BDL	BDL	0.15	BDL	BDL	33.70	2.90	1.00	BDL	BDL	ND	ND	ND	ND	ND	ND	0.17	ND	1.12
18	Handpump at Ramnagar Roorkee Industrial Area -1	22-12-2023	Clear	Odourfree	Clear	28	7.84	276	432	09	290	158	132	282	12	0.21	BDL	0.13	6.82	BDL	18.20	2.80	0.46	BDL	BDL	ND	ND	ND	ND	ND	ND	0.22	ND	0.85
19	Handpump at Village Sunhera, Roorkee Industrial Area - 2	22-12-2023	Clear	Odourfree	Clear	28	7.28	299	468	06	187	120	67	301	09	BDL	BDL	0.10	9.94	0.21	31.50	5.30	1.00	BDL	BDL	ND	ND	ND	ND	ND	ND	0.13	ND	0.92
20	Handpump at Roshnabad, Collectorate, SIDCUL, Industrial Area - 1	21-12-2023	Clear	Odourfree	Clear	28	7.46	286	490	08	280	148	132	298	10	BDL	BDL	0.11	12.62	0.27	38.80	4.80	1.01	BDL	BDL	ND	ND	ND	ND	ND	ND	0.20	ND	0.75
21	Handpump at Saleempur Mahdood Chowk, SIDCUL Industrial Area - 2	21-12-2023	Clear	Odourfree	Clear	28	7.50	285	446	10	266	154	112	308	09	BDL	BDL	0.11	9.27	BDL	22.40	8.40	0.60	BDL	BDL	ND	ND	ND	ND	ND	ND	0.12	ND	1.09
22	Handpump near Municipal Solid Waste Landfill Site, Near Model Primary School, Sarai, Jawalapur Haridwar	21-12-2023	Clear	Odourfree	Clear	26	7.72	332	520	11	302	179	123	374	12	BDL	2.27	0.16	21.76	0.24	19.90	4.20	0.50	BDL	BDL	ND	ND	ND	ND	ND	ND	0.26	ND	0.65
23	Handpump near Municipal Solid Waste Landfill Site, Near Jhanda Chowk, Sarai, Jawalapur Haridwar	21-12-2023	Clear	Odourfree	Clear	26	7.49	312	489	09	310	186	124	310	13	0.22	1.21	0.19	35.54	0.22	19.60	6.30	0.48	BDL	BDL	ND	ND	ND	ND	ND	ND	0.19	ND	1.10
District - Udham Singh Nagar																																		
24	Handpump at Santipuri Kiccha - 1, U.S. Nagar	21-11-2023	Clear	Odourless	Clear	26	7.00	345	524	BDL	150	108	42	165	10	0.45	0.67	0.38	24.73	BDL	7.90	1.60	0.28	BDL	BDL	ND	ND	ND	ND	ND	ND	0.69	ND	0.92
25	Handpump at Santipuri Kiccha - 2, U.S. Nagar	21-11-2023	Clear	Odourless	Clear	26	7.40	207	305	BDL	203	155	48	125	14	0.51	1.73	0.39	25.17	BDL	6.40	2.70	0.19	BDL	BDL	ND	ND	ND	ND	ND	ND	0.16	ND	1.08

Ashish

Jm

S.No	Monitoring Location	Date of Monitoring	Colour	Odour	Weather	Temp. (°C)	pH	Total Dissolved Solids (mg/L)	Electrical Conductivity (µs/cm)	Chemical Oxygen Demand (mg/L)	Total Hardness (mg/L)	Calcium Hardness (mg/L)	Magnesium Hardness (mg/L)	Total Alkalinity (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Nitrate - N (mg/L)	Nitrite - N (mg/L)	Sulphate (mg/L)	Phosphate (mg/L)	Sodium (mg/L)	Potassium (mg/L)	Sodium Adsorption Ratio	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)	Arsenic (mg/L)	Nickel (mg/L)	Copper (mg/L)	Mercury (mg/L)	Chromium (mg/L)	Cadmium (mg/L)	Zinc (mg/L)	Lead (mg/L)	Iron (mg/L)	
26	Handpump at Pantnagar Industrial Area - 1, U.S. Nagar	21-11-2023	Clear	Odourless	Clear	26	7.70	173	262	BDL	169	132	37	145	11	0.63	1.50	0.38	17.86	BDL	8.40	2.10	0.28	BDL	BDL	ND	ND	ND	ND	ND	ND	ND	0.16	ND	0.95
27	Handpump at Pantnagar Industrial Area - 2, U.S. Nagar	21-11-2023	Clear	Odourless	Clear	26	7.10	196	285	BDL	184	126	58	115	17	0.58	1.24	0.38	15.63	BDL	7.90	2.60	0.25	BDL	BDL	ND	ND	ND	ND	ND	ND	ND	0.21	ND	1.12
28	Handpump near Sitarganj Industrial Area - 1, U.S. Nagar	21-11-2023	Clear	Odourless	Clear	26	7.20	381	562	BDL	192	154	38	180	55	0.58	BDL	0.41	22.70	BDL	20.90	1.40	0.65	BDL	BDL	ND	ND	ND	ND	ND	ND	0.21	ND	1.14	
29	Handpump at Sitarganj Industrial Area - 2, U.S. Nagar	21-11-2023	Clear	Odourless	Clear	26	7.30	278	408	BDL	224	168	56	225	15	0.25	0.94	0.35	40.03	BDL	14.40	7.00	0.42	BDL	BDL	ND	ND	ND	ND	ND	ND	0.69	ND	1.17	
30	Handpump near Gurudwara, Muradabad Road-1, Kashipur, U.S. Nagar	20-11-2023	Clear	Odourless	Clear	26	7.00	495	736	BDL	310	213	97	215	62	0.45	BDL	0.35	66.67	BDL	75.00	1.90	1.85	BDL	BDL	ND	ND	ND	ND	ND	ND	1.34	ND	1.18	
31	Handpump near Govt Primary School, Muradabad Road-2 Kashipur, U.S. Nagar	20-11-2023	Clear	Odourless	Clear	26	7.60	195	284	BDL	172	128	44	165	10	0.36	0.67	0.33	44.39	BDL	9.50	1.20	0.31	BDL	BDL	ND	ND	ND	ND	ND	ND	ND	ND	1.21	
32	Handpump near I.G.L Lagoon, Chamalida (Damauda), Kashipur, U.S. Nagar	20-11-2023	Clear	Odourless	Clear	26	7.20	165	244	BDL	140	98	42	120	08	0.66	0.51	0.31	10.70	BDL	10.70	1.50	0.39	BDL	BDL	ND	ND	ND	ND	ND	ND	0.12	ND	1.22	
33	Handpump at Chaiti Chauraha, Bajpur Road-1, Kashipur, U.S. Nagar	20-11-2023	Clear	Odourless	Clear	25	7.40	261	395	BDL	210	154	56	180	15	0.63	BDL	0.31	BDL	BDL	13.90	10.10	0.42	BDL	BDL	ND	ND	ND	ND	ND	ND	0.18	ND	1.20	
34	Handpump near Kendriya Vidyalaya, Bazpur Road-2, Kashipur, U.S. Nagar	20-11-2023	Clear	Odourless	Clear	25	7.10	248	366	BDL	215	155	60	215	10	0.58	BDL	BDL	5.24	BDL	24.10	10.30	0.71	BDL	BDL	ND	ND	ND	ND	ND	ND	0.63	ND	0.52	
35	Handpump at Industrial Area, Mahuakheraganj, Kashipur, U.S. Nagar	20-11-2023	Clear	Odourless	Clear	27	7.20	212	320	BDL	187	145	42	185	07	0.59	BDL	0.44	BDL	BDL	25.60	1.90	0.81	BDL	BDL	ND	ND	ND	ND	ND	ND	ND	ND	0.97	
36	Handpump near old Industrial Area, Kashipur near IGL, U.S. Nagar	20-11-2023	Clear	Odourless	Clear	25	7.20	203	308	BDL	183	128	55	155	13	0.47	BDL	0.31	18.43	BDL	12.10	1.40	0.39	BDL	BDL	ND	ND	ND	ND	ND	ND	ND	ND	0.79	
District - Pithoragarh																																			
37	Handpump at Pithoragarh Town near Chandrabhaga, Pithoragarh	18-10-2023	Clear	Odourfree	Clear	14	7.21	124	180	BDL	170	98	72	148	11	0.30	BDL	BDL	28.43	BDL	BDL	BDL	0.14	BDL	BDL	ND	ND	ND	ND	ND	ND	ND	1.36	ND	0.85
38	Handpump at Pithoragarh Town near Pithoragarh fort, Pithoragarh	18-10-2023	Clear	Odourfree	Clear	13	7.48	141	210	BDL	186	102	84	166	13	0.28	BDL	0.07	7.63	BDL	25.14	6.38	0.80	BDL	BDL	ND	ND	ND	ND	ND	ND	1.08	ND	0.79	
District - Almora																																			
39	Handpump near jai shri college, Khatyari, Almora	18-10-2023	Clear	Odourfree	Clear	14	7.55	129	190	BDL	164	88	76	132	13	0.22	BDL	BDL	22.41	BDL	BDL	BDL	0.16	BDL	BDL	ND	ND	ND	ND	ND	ND	1.92	ND	1.08	
40	Handpump near Pataldevi, Almora	18-10-2023	Clear	Odourfree	Clear	14	7.27	121	180	BDL	150	82	68	118	15	0.25	BDL	BDL	26.75	BDL	BDL	BDL	5.13	0.15	BDL	BDL	ND	ND	ND	ND	ND	ND	0.23	ND	1.12

Abhishek

Sharma

S.No	Monitoring Location	Date of Monitoring	Colour	Odour	Weather	Temp. (°C)	pH	Total Dissolved Solids (mg/L)	Electrical Conductivity(µs/cm)	Chemical Oxygen Demand(mg/L)	Total Hardness(mg/L)	Calcium Hardness(mg/L)	Magnesium Hardness (mg/L)	Total Alkalinity(mg/L)	Chloride (mg/L)	Fluoride(mg/L)	Nitrate - N(mg/L)	Nitrite - N(mg/L)	Sulphate (mg/L)	Phosphate(mg/L)	Sodium(mg/L)	Potassium(mg/L)	Sodium Adsorption Ratio	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)	Arsenic (mg/L)	Nickel (mg/L)	Copper (mg/L)	Mercury (mg/L)	Chromium (mg/L)	Cadmium (mg/L)	Zinc (mg/L)	Lead (mg/L)	Iron (mg/L)	
District - Nainital																																			
41	Handpump at Ramnagar Town near Govt PG College, Ramnagar	18-10-2023	Clear	Odourfree	Clear	15	7.39	153	220	BDL	196	108	88	178	17	BDL	BDL	BDL	28.96	BDL	5.74	3.14	0.18	BDL	BDL	ND	ND	ND	ND	ND	ND	ND	1.12	ND	1.09
42	Handpump at Nainital Town near Sariyatal	18-10-2023	Clear	Odourfree	Clear	13	7.85	130	190	BDL	162	94	68	132	11	BDL	BDL	BDL	27.96	BDL	11.84	5.09	0.40	BDL	BDL	ND	ND	ND	ND	ND	ND	ND	0.82	ND	0.95
District - Bageshwar																																			
43	Handpump near Kafalgair, Bageshwar	18-10-2023	Clear	Odourfree	Clear	14	7.22	133	190	BDL	178	96	82	144	13	0.28	BDL	0.08	30.74	BDL	13.74	6.71	0.45	BDL	BDL	ND	ND	ND	ND	ND	ND	ND	0.95	ND	1.18
44	Handpump at Bageshwar Town - 2 near Roadways station, District-Bageshwar	18-10-2023	Clear	Odourfree	Clear	15	6.98	145	210	BDL	190	102	88	160	15	0.32	BDL	BDL	15.26	BDL	14.92	2.82	0.47	BDL	BDL	ND	ND	ND	ND	ND	ND	1.18	ND	1.21	
District - Champawat																																			
45	Handpump near Shivmandir, Champawat	18-10-2023	Clear	Odourfree	Clear	14	7.70	115	170	BDL	156	90	66	132	11	0.35	BDL	BDL	25.73	BDL	8.98	5.12	0.31	BDL	BDL	ND	ND	ND	ND	ND	ND	1.13	ND	1.10	
46	Handpump near Gas Station Lohaghat, Champawat	18-10-2023	Clear	Odourfree	Clear	13	7.36	103	150	BDL	142	82	60	118	13	0.25	BDL	0.03	22.74	BDL	5.84	3.46	0.21	BDL	BDL	ND	ND	ND	ND	ND	ND	1.07	ND	1.15	

Note:

Abbreviations-

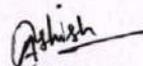
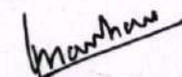
N/A= Not Applicable

BDL= Below Detection Limit

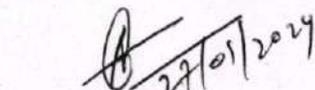
ND= Not Detected

NR= No Relaxation

NSL= No Specified Limit


Ashish Rana
Junior Research Fellow(JRF)


Pradeep Chauhan
Lab Assistant (LA)



Amit Pokhriyal
Environment Engineer (EE)