BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI

ORIGINAL APPLICATION NO. 1062 OF 2024

IN THE MATTER OF:
BHANU SAHAY .... APPLICANT

VERSUS

UNION OF INDIA & ORS. .... RESPONDENTS

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THROUGH

DATE: 27.11.2024
PLACE: NEW DELHI

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IN THE MATTER OF:

Bhanu Sahay .....Applicant

Versus

Union of India & Ors., ... Respondent(s)

Order Date- 16.08.2024

Next Listing- 28.11.2024

Response on behalf of the Uttar Pradesh Pollution Control Board as Respondent No. 05 in compliance to the order dated 16.08.2024 passed by the Hon'ble National Green Tribunal, Principal Bench, New Delhi in Original Application No. 1062 Of 2024 in the matter of Bhanu Sahay Versus Union of India & Ors.

I, Deepa Arora aged about 59 years W/o Dr. Rakesh Arora, R/o B-13, Sector-12, Noida, presently posted as Regional Officer, U.P. Pollution Control Board, Jhansi do hereby solemnly affirm and state on oath as under:

1. That the deponent is working on the above mentioned post and being authorized officer in the captioned matter and well conversant with the facts and circumstances of the case and as such I am competent to swear this affidavit.

2. That Hon'ble National Green Tribunal, Principal Bench, New Delhi (here in after referred as Hon'ble Tribunal) vide its order dated 16.08.2024 has passed the following directions:

"6.....we also constitute a Joint Committee comprising of representative of the Member Secretary, UPPCB., Officer nominated by Member Secretary, CPCB not below the rank of Scientist 'D'/'E' CEO/ Commissioner of Municipal Corporation, Jhansi, RO MoEF and CC Lucknow and District Magistrate Jhansi. Distrcit Magistrate will act as coordinating agency in the Joint Committee.

7. The Joint Committee will visit the site of the river flowing from District Jhansi, will ascertain the source of its pollution, take the water sample, get the analysis done and submit the analysis report and also suggest the remedial measure.

8. The Joint Committee will submit the report at least one week before the next date of hearing.

9. List on 28.11.2024...."

Response-

3. That the representative of Uttar Pradesh Pollution Control Board, herein after referred as UPPCB, had participated during site visit on 03.10.2024 and coordinate with the joint committee. The detail Joint committee report is attached here with as **Annexure-R5/1.**

4. UPPCB collected River Pahuj water samples at different locations. Details of locations of River Water samples collected during the visit are as below:'

   a) Village- Baidora, District-Jhansi
   b) Downstream of Dongri Dam
   c) Gadiya weir, Near Village Gadiya in Tehsil and District-Jhansi
   d) Dhobi Ghat, Jhansi
   e) Pahuj (Simradha) dam

   The Monitoring results and findings based on analysis results are given ahead.

5. During the Joint Committee visit, all drains carrying untreated sewage are discharged into the River Pahuj. Water Samples were collected from all drains by UPPCB and analyzed in Uttar Pradesh Pollution Control Board Laboratory (Test Reports are annexed herewith at **Annexure-R5/2**). It is evident from the above analysis reports, that all drains are carrying untreated sewage.

6. During the Joint Committee visit, River water samples was also collected from five locations by UPPCB and analyzed in UPPCB Laboratory (Test Reports are annexed herewith at **Annexure-R5/3**).

7. As per the analysis results, the water quality of River Pahuj at Dongri Dam, Gadiya weir, Dhobi Ghat, and

NOTARY Prakash Narain Dwivedi H.Q. JHANSI GOVT. OF U.P. (INDIA)

Pahuj Dam lies in the "D" class (Propagation of Wildlife and Fisheries) as per Designated-Best-Use (DBU) Whereas at Baidora Gaon which was the initial sampling point lies in "C" class (Drinking water source after conventional treatment and disinfection). During the visit River Pahuj was observed to be covered with water hyacinth at several locations in Jhansi city.

8. As per the joint committee report, the following Remedial Measures are proposed by the joint committee:-

I. *The Municipal Corporation of Jhansi District should expedite for construction, commissioning and operation of all Sewage Pumping Stations (SPS) at the earliest.*

II. *The Municipal Corporation of Jhansi District should expedite for tapping of all drains discharging untreated sewage into River Pahuj and ensure Interception and diversion of sewage into STP for its treatment.*

III. *The different departments of Jhansi District viz. The Municipal Corporation, Irrigation Department, and Rural Development Department must take measures to remove the water hyacinth from the river in a time-bound manner from locations like under bridges, ghats, etc.*

IV. *The Municipal Corporation, Jhansi should take necessary action and provide awareness to the Public to prohibit the disposal of solid waste into River as well as in Ghats.*

V. *There are two main bridges over the river in Jhansi City where it was observed that people throw worship*

leftover material into the river from the bridge even though protective mesh has been installed on bridges but public awareness campaigns are required.

VI. *At the time of report finalization, it was informed by the Additional Municipal Commissioner, Municipal Corporation Jhansi that tapping of all the four nallas is at the stage of final commissioning. Three out of four pumping stations are at functional stage and in the case of the other one civil work are completed and electricity connections are under process. Once the electricity connection is done then it will take another twenty-five days to develop bacteria and make it fully functional. It is recommended that a timeline should be followed to make STP fully functional as soon as possible.*

9. That the above response on behalf of the Uttar Pradesh Pollution Control Board, is submitted before this Hon'ble National Green Tribunal for perusal and kind consideration.

Deponent

VERIFICATION

I, the deponent named above, do hereby verify that the content of paras 01 to 02 of this affidavit is true to my knowledge and paras 03 to 09 are true on the basis of records and as per legal advice. No part of it is false and nothing material has been concealed. So help me GOD.

Verified at Jhansi on 27th day of November, 2024.

Deponent

sworn before me this day at ...
by shri/smt./kum... Deepa Arora
whom the contents of this affidavit have been read over and explained and who is identified by shri...
Received the legal fee Rs 35 Cash
PRAKASH NARAIN DWIVEDI
ADVOCATE
27.11.24

Report in reference to Hon'ble NGT order in the matter of Original Application No. 1062/2024, Bhanu Sahay Versus Union of India & Ors.

A. Background:

1. Hon'ble NGT, vide its order dated 16.08.2024, in Original Application No. 1062/2024-Bhanu Sahay Versus Union of India & Ors., has directed for site visit of the River flowing from District- Jhansi and will ascertain the source of its pollution, take the water sample, get the analysis done and submit the analysis report and also suggest the remedial measure. The operative part of the order is as follows: -

> *"6. Having regard to the nature of allegation made in the O.A. we also constitute a Joint Committee comprising of representative of the Member Secretary, UPPCB., Officer nominated by Member Secretary, CPCB not below the rank of Scientist 'D'/ 'E' CEO/Commissioner of Municipal Corporation, Jhansi, RO MoEF and CC Lucknow and District Magistrate Jhansi. District Magistrate will act as coordinating agency in the Joint Committee.*
>
> *7. The Joint Committee will visit the site of the river flowing from District Jhansi, will ascertain the source of its pollution, take the water sample, get the analysis done and submit the analysis report and also suggest the remedial measure.*
>
> *8. The Joint Committee will submit the report at least one week before the next date of hearing.*

9. List on 28.11.2024. "

Copy of Hon'ble NGT order dated 16.08.2024 is annexed herewith as Annexure-1.

2. In order to comply with the directions of the Hon'ble NGT, following officials were nominated from the concerned Departments:

2.1. Shri Avinash Kumar, District Magistrate, Jhansi

2.2. Shri Satya Prakash, Municipal Commissioner, Jhansi

2.3. Dr. R B Lal, Scientist 'F', MoEF&CC, RO, Lucknow

2.4. Shri Runa Oraon, Scientist 'E', CPCB, RD Lucknow

2.5. Smt. Deepa Arora, Regional Officer, UPPCB, Jhansi

B. Site Visit:

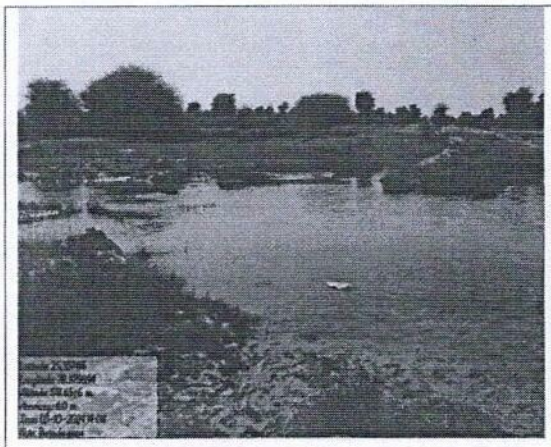
3. Visit of the River Pahuj flowing through Jhansi was carried by the Joint Committee on 03.10.2024. During visit, following officials from the concerned Departments were also present to assist the committee:

3.1. Shri Mohd Qummar, Additional Municipal Commissioner (In charge Municipal Commissioner), Jhansi Municipal Corporation/ ACEO Jhansi Smart City Limited

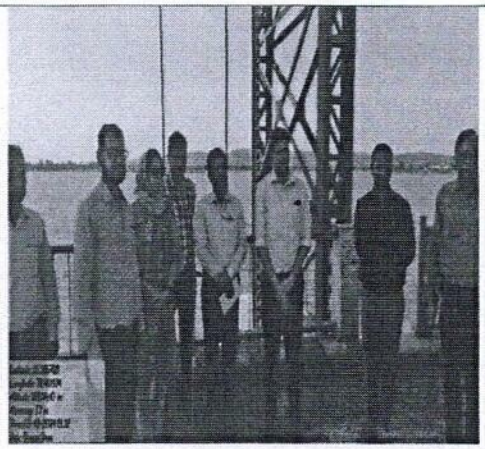
3.2. Shri Jitendra Saharwar, Town Planner, Jhansi Development Authority

3.3. Shri Umesh Kumar Sonkar, Executive Engineer, Irrigation (Betwa Prakhand), Jhansi

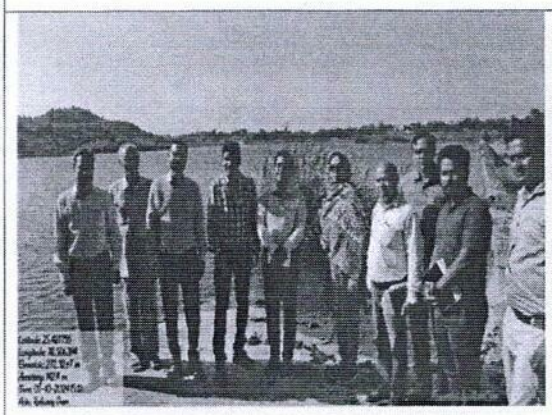
3.4. Bijendra Saini, Assistant Engineer, Irrigation (Betwa Prakhand), Jhansi



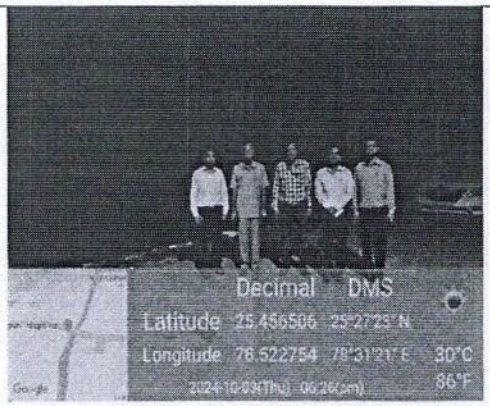
Pic.1: R. Pahuj at Baidora Gaon



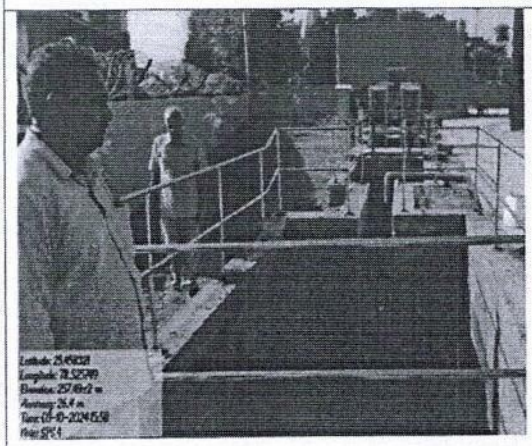
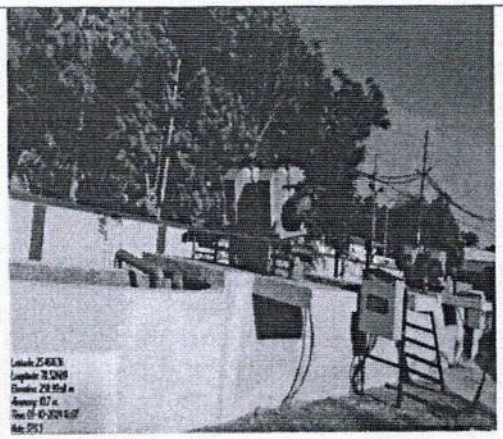
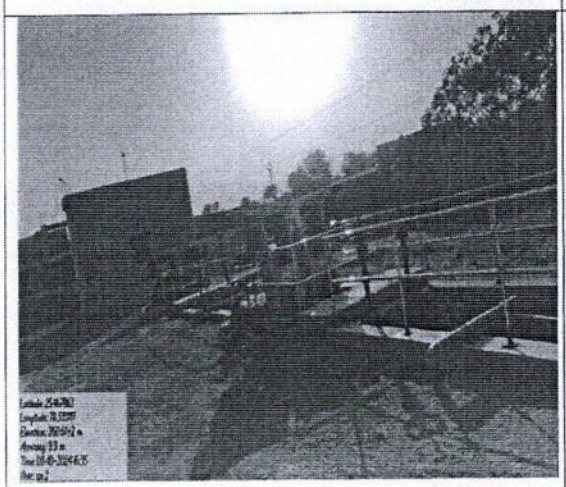
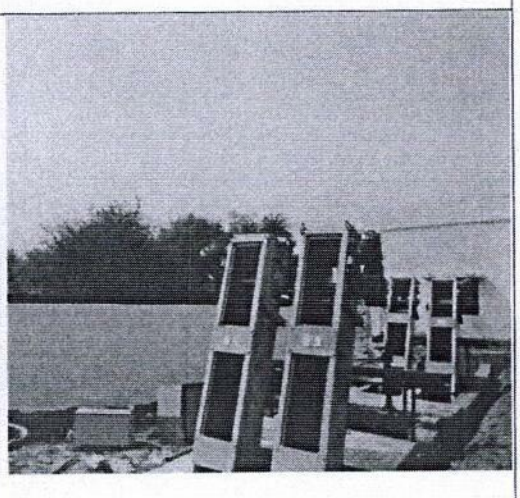
Pic.2: Dongri Dam



Pic.3: R. Pahuj at Gadiya weir



Pic.4: R. Pahuj at Dhobi Ghat

Pic.5: Pahuj (Simradha) Dam	Pic.6: R. Pahuj near SPS 3
	
Pic.7: SPS 4 at Rajghat Colony Nalla	Pic.8: SPS 3 at Near Prabhu Ramlal Ashram Nalla
	
Pic.9: SPS 2 at Lahar Gird Bus Stop Nalla	Pic.10: SPS 1 at Naya Gaon Nalla

C. About Pahuj River:

The Pahuj River originates near village Baidora in district Jhansi. The length of the River Pahuj is approx. 198 km from origin to its mouth. It flows through the

Bundelkhand region and plays a major part in dividing the border of Madhya Pradesh and Uttar Pradesh (Map of River Pahuj is shown herewith at page -7). As informed by the Irrigation Department, the River generally flows with a discharge only in monsoon season but the flow drastically reduced in summer. The Pahuj River is a tributary of Sindh River, which ultimately joins the Yamuna River in district Jalaun, U.P.

There are three dams constructed in flow of Pahuj River namely,

i. Dongri dam, near village Chamraua tehsil and district Jhansi.

ii. Gadiya weir, near village Gadiya in tehsil and district Jhansi

iii. Pahuj (Simradha) dam, near village Simradha in tehsil and district Jhansi.

Based on the deliberation and discussion with the Irrigation Department, the storage capacity of Dongari dam/ weir is 14.39 MCM. There is no direct off-take canal from Dongari dam. The stored water in the Dongari Dam is used mainly to feed the Pahuj dam.

The storage capacity of the Gadiya weir is 2.517 MCM. and the stored water in Gadiya weir is used to supply for commercial purpose in Indian railway Jhansi.

Dongri dam and Gadiya weir are located upstream of Jhansi City, while Pahuj Dam is located at downstream of Jhansi City. The storage capacity of Pahuj dam is 18.23 MCM. There is direct off-take canal from this dam namely Pahuj main canal

which provides irrigation facility in the villages of block Badagaon tehsil and district Jhansi, as reported by the Irrigation Department. The stored water in this Dam is also used to supply for drinking purposes in the city Jhansi.

D. Monitoring of River Pahuj:

The Joint Committee visited River Pahuj from Village- Baidora (Jhansi) to Pahuj (Simradha) dam and accordingly collected River Pahuj water samples at different locations. Details of locations of River Water samples collected during the visit are as below:

a) Village- Baidora, District-Jhansi

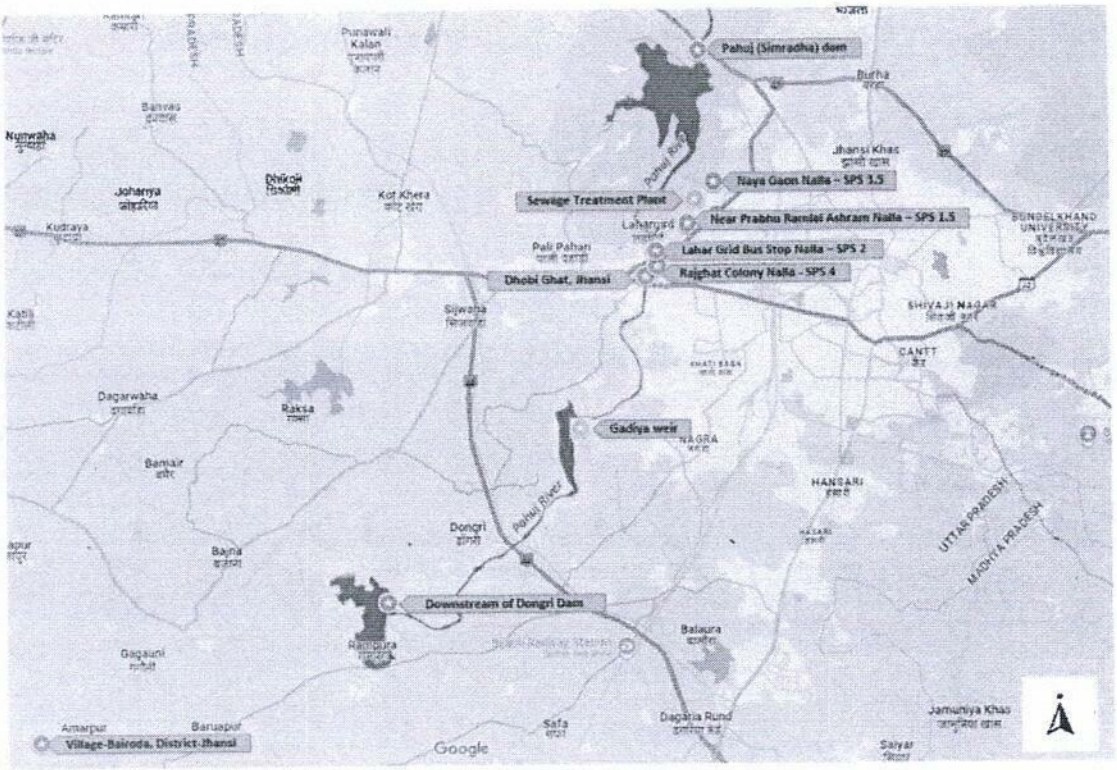
b) Downstream of Dongri Dam

c) Gadiya weir, near village Gadiya in tehsil and district -Jhansi

d) Dhobi Ghat, Jhansi

e) Pahuj (Simradha) dam

The Monitoring results and findings based on analysis results are given ahead in observation.



Google Map of The R. Pahuj showing Sampling, SPS and STP Location

E. Observation of the Joint Committee:

a) The Pahuj River is travelling approx. 9.51 km within Jhansi City. The water of River Pahuj is used for drinking water supply as well as for irrigation purposes through dams, as informed by the concerned Departments.

b) The Pahuj River flows during the rainy and winter season, while the flow is very low during the summer season. The flow data from Dongri dam is annexed herewith in Annexure - 2

F. Source of pollution:

a) The major source of pollution of River Pahuj is sewage generated from the city through major four drains namely Naya Gaon Nalla, Lahar Gird Bus Stop Nalla, Prabhu Ramlal Ashram Nalla and Rajghat Colony Nalla.

b) The catchment area of the Nalla and average flow (as per STP DPR) are as below:

S. No.	Name of Nalla/Drain	Catchment area	Flow (in MLD)
1	Naya Gaon Nalla	Siddheshwar Nagar (Partial) and ITI College	3.5
2	Lahar Gird Bus Stop Nalla	Siddheshwar Nagar, Laher ki mata	11
3	Near Prabhu Ramlal Ashram Nalla	Rajghat Colony and Panchat Bhawan Colony	1.5
4	Rajghat Colony Nalla	Gadhiya Phatak, Khatiwala Isaitola, Summer Nagar, Sangam Vihar, Surya Puram, K.K.Puri and Aawas Vikas Colony	10

G. Collection of Water Sample and Analysis:

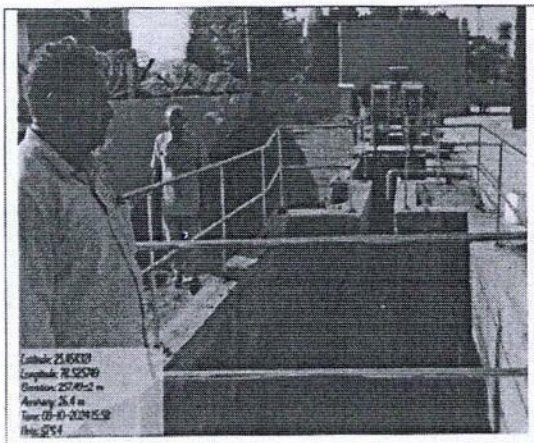
a) During the Joint Committee visit, all drains carrying untreated sewage is discharged into the River Pahuj. Samples were collected from all drains and analyzed in Uttar Pradesh Pollution Control Board Laboratory (Test Reports

are annexed herewith at Annexure-3, 4, 5 and 6). Analysis results are presented below:

S. No.	Parameter(s)	Unit	Water Sample collected at various locations			
			Naya Gaon Nalla	Lahar Gird Bus Stop Nalla	Near Prabhu Ramlal Ashram Drain	Rajghat Colony Drain
1	pH	--	7.6	7.6	7.43	7.54
2	Colour	Hazen	5	5	5	5
3	EC	µS/cm	690	712	792	618
4	SS	mg/L	831	72	296	47
5	TDS	mg/L	696	722	766	673
6	BOD	mg/L	72.5	54.7	57.5	42.5
7	COD	mg/L	262.2	136.8	193.8	159.6
9	Total Coliform	MPN/100 ml	230000	5400000	680000	9200000
10	Fecal Coliform	MPN/100 ml	130000	2200000	450000	5400000
11	T. Cr	mg/L	ND	ND	ND	ND
12	Copper	mg/L	ND	ND	ND	ND
13	Cadmium	mg/L	ND	ND	ND	ND
14	Lead	mg/L	0.0355	ND	ND	ND
15	Iron	mg/L	1.0039	0.2154	0.9370	0.2956
16	Nickel	mg/L	ND	ND	ND	ND
17	Zinc	mg/L	ND	ND	ND	0.2205
18	Manganese	mg/L	0.473	0.2803	0.3959	0.3298
19	Arsenic	mg/L	ND	ND	ND	ND
ND-Not Detectable						

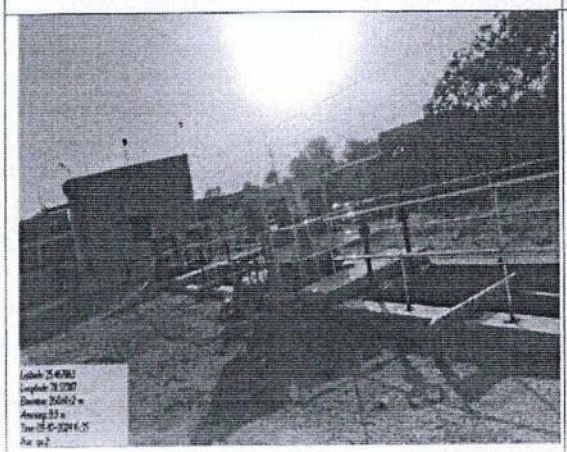
b) It is evident from the above observation; that all drains are carrying untreated sewage.

c) During the visit, the Joint Committee observed that the tapping of drains was under process at all four locations. Sewage Pumping Stations (SPS) 2, SPS 3 and SPS 4 have been installed for Lahar Gird Bus Stop Nalla, Near Prabhu Ramlal Ashram Nalla and Rajghat Colony respectively. (Pictures of SPS are shown below).

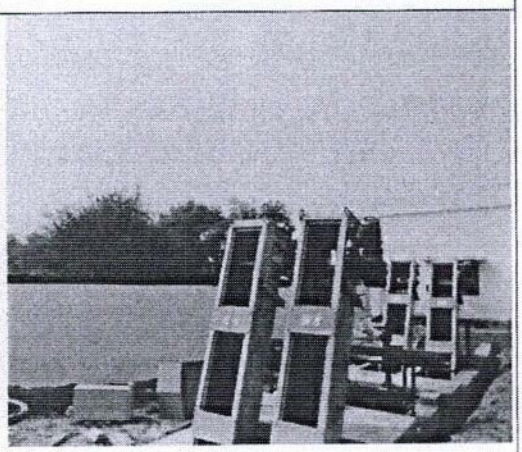


Pic.1: SPS 4 at Rajghat Colony Nalla

Pic.2: SPS 3 at Near Prabhu Ramlal Ashram Nalla



Pic.3: SPS 2 at Lahar Gird Bus Stop Nalla

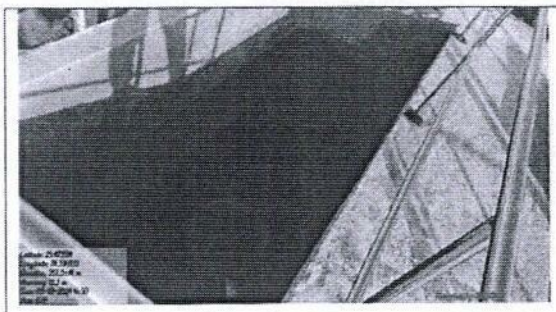


Pic.4: SPS 1 at Naya Gaon Nalla

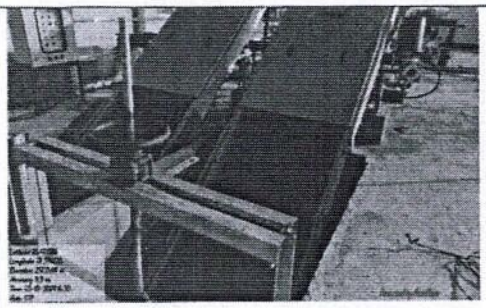
Commissioning of the Sewage Pumping Station (SPS) at Naya Gaon Nalla was found to be in progress. During the visit, all SPS were found non-operational. The location map of SPS and STP is shown herewith on page -7.

d) During the visit, the Joint Committee observed that a Sewage Treatment Plant (STP) with a capacity of 26 MLD has been installed at Friend Colony (Near Shivpuri Bypass) to treat the sewage discharged from all four drains mentioned above. STP is based on Sequencing Batch Reactor (SBR) technology. The STP comprises of following units:

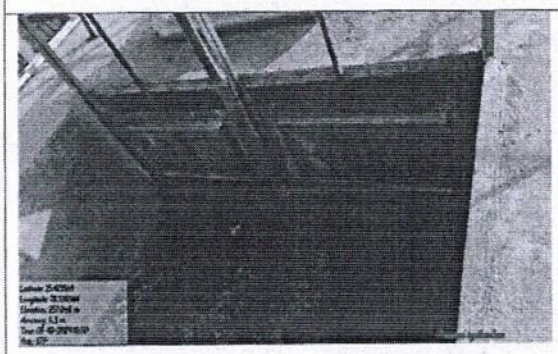
i. Inlet Chamber
ii. Fine Bar Screen (Manual and automatic)
iii. Common Chamber
iv. Grit Chamber
v. Parshall Flume
vi. SBR Tank-1, 2, 3 & 4
vii. Chlorination Tank
viii. Effluent Sump
ix. Sludge Thickener
x. Centrifuge



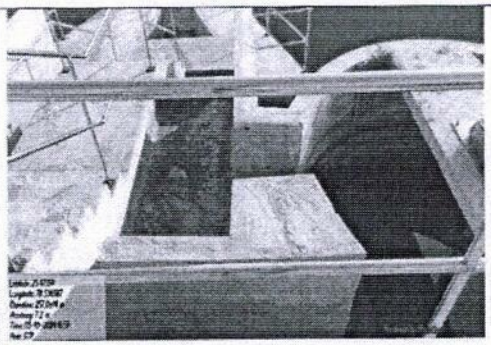
Pic.1: Inlet Chamber



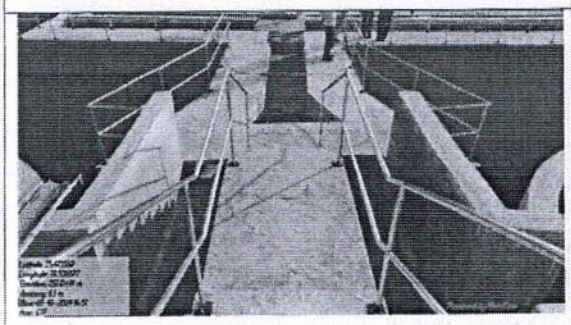
Pic.2: ii. Fine Bar Screen



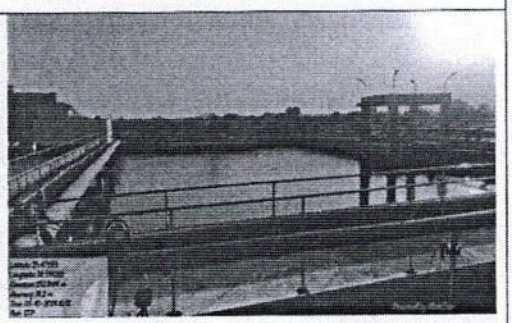
Pic.3: Common Chamber



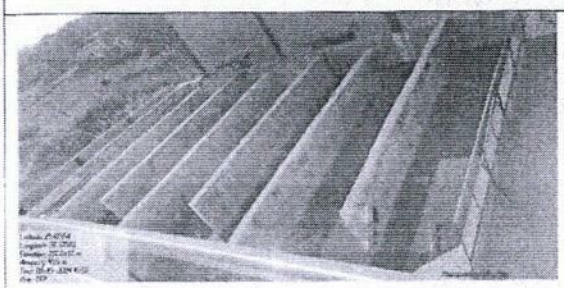
Pic.4: Grit Chamber



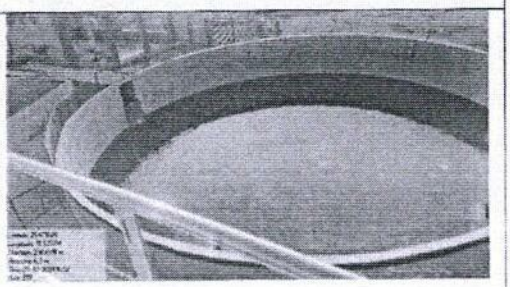
Pic.5: Parshall Flume



Pic.6: SBR Tank



Pic.7: Chlorination Tank



Pic.8: Effluent Sump

Pic.9: Centrifuge

e) Treated sewage from STP will be discharged into the Pahuj River, as reported by the concerned Department. During the visit, STP was not operational. Layout plan of STP is annexed herewith at Annexure-7.

f) River water samples was also collected from five locations and analyzed in UPPCB Laboratory (Test Reports are annexed herewith at Annexure- 8, 9, 10, 11 and 12). The analysis results are presented below:

S. No.	Parameter	Unit	Water Sample collected at various locations				
			Baidora Gaon	D/s of Dongri Dam	Gadiya weir	Dhobi Ghat	Pahuj Dam
1	pH	--	7.95	7.65	8.1	7.69	7.93
2	Colour	Hazen	5	5	5	5	5
3	EC	µS/cm	571	305	393	455	391
4	SS	mg/L	21	18	14	22	26
5	TDS	mg/L	398	258	386	316	282
6	BOD	mg/L	2.9	2.7	2.7	3.3	3.1
7	COD	mg/L	11.96	11.04	10.12	14.72	12.88
8	DO	mg/L	7.2	7.4	8.9	6.72	7.3
9	Total Coliform	MPN/100 ml	2300	240000	13000	45000	490000
10	Fecal Coliform	MPN/100 ml	1300	22000	1400	20000	220000

S. No.	Parameter	Unit	Water Sample collected at various locations				
			Baidora Gaon	D/s of Dongri Dam	Gadiya weir	Dhobi Ghat	Pahuj Dam
11	T. Cr	mg/L	ND	ND	ND	ND	0.0237
12	Copper	mg/L	ND	ND	ND	ND	ND
13	Cadmium	mg/L	ND	ND	ND	ND	ND
14	Lead	mg/L	ND	ND	ND	ND	ND
15	Iron	mg/L	0.2154	0.3089	0.3891	0.1219	0.7767
16	Nickel	mg/L	ND	ND	ND	ND	ND
17	Zinc	mg/L	ND	0.0078	ND	ND	ND
18	Manganese	mg/L	0.1206	0.2748	0.1261	0.1646	0.1922
19	Arsenic	mg/L	ND	ND	ND	ND	ND
ND = Not Detected							

g) During the visit, Baidora Gaon sampling point was the initial sampling point which lies in "C" class (Drinking water source after conventional treatment and disinfection) as per Designated-Best-Use (DBU) where BOD, COD, DO levels were 2.9, 11.96, 7.2 mg/L respectively and Total Coliform, Fecal Coliform was 2300, 1300 MPN/100 ml respectively.

h) It is evident from the above analysis results that the water quality of River Pahuj at Dongri Dam, Gadiya weir, Dhobi Ghat, and Pahuj Dam lies in the "D" class (Propagation of Wildlife and Fisheries) as per Designated-Best-Use (DBU).

i) During the visit, the River Pahuj was observed and covered with water hyacinth at several locations in Jhansi City.

j) During the visit, Dhobi ghat was observed littered with worship material by devotees/ public. Municipal Corporation has provided bins for the collection of worship material at the site; however, the bins are not in use by the public.

H. Proposed Remedial Measures:

i. The Municipal Corporation of Jhansi District should expediate for construction, commissioning and operation of all Sewage Pumping Stations (SPS) at the earliest.

ii. The Municipal Corporation of Jhansi District should expedite for tapping of all drains discharging untreated sewage into River Pahuj and ensure Interception and diversion of sewage into STP for its treatment.

iii. The different departments of Jhansi District viz. The Municipal Corporation, Irrigation Department, and Rural Development Department must take measures to remove the water hyacinth from the river in a time-bound manner from locations like under bridges, ghats, etc.

iv. The Municipal Corporation, Jhansi should take necessary action and provide awareness to the Public to prohibit the disposal of solid waste into River as well as in Ghats.

v. There are two main bridges over the river in Jhansi City where it was observed that people throw worship leftover material into the river from the bridge

even though protective mesh has been installed on bridges but public awareness campaigns are required.

vi. At the time of report finalization, it was informed by the Additional Municipal Commissioner, Municipal Corporation Jhansi that tapping of all the four nallas is at the stage of final commissioning. Three out of four pumping stations are at functional stage and in the case of the other one civil work is completed and electricity connections is under process. Once the electricity connection is done then it will take another twenty-five days to develop bacteria and make it fully functional. It is recommended that a timeline should be followed to make STP fully functional as soon as possible.

20-11-2024	20.11.2024	20/11/2024
Smt. Deepa Arora,	Shri Runa Oraon,	Dr. R B Lal,
Regional Officer,	Scientist 'E',	Scientist 'F',
UPPCB, Jhansi	CPCB, RD Lucknow	MoEF&CC, RO, Lucknow

20/11/24	20/11/2024
Shri Satya Prakash,	Shri Avinash Kumar,
Municipal Commissioner, Jhansi	District Magistrate, Jhansi

REGIONAL LABORATORY JHANSI
UTTAR PRADESH POLLUTION CONTROL BOARD

Avas Vikas Colony, Talpura Yojna, Kanpur Road, Jhansi

TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-28487008/Jhansi/2024 **Date:16/10/2024**

1- **Sample Location:** SPS-1, JHANSI
2- **District:** Jhansi
3- **Address:** JHANSI
4- **Sample Source:** Drain
5- **Type of sample :** Surface Water
6- **Sample Collected By :** Anil Kumar Sharma, SA
7- **Odour :** None
8- **Quantity and Packing :** 500ml Plastic Jerica
9- **Date of Sample Collection :** 03/10/2024
10- **Analyis Indented by :** RO Jhansi
11- **Date of sample receipt in Lab :** 04/10/2024

Parameter	Unit	Results	Detection Range
pH, APHA24th Ed.4500-B: 2023	-	7.6	02-12
Colour, APHA 24th Ed. 2120B: 2023	Hazen	5	5-10000 Hazen
Conductivity, APHA 24th Ed. 2510B :2023	µS/cm	690.0	0.1-10000 µS/cm
Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	831.0	5.0 -10000 mg/l
Dissolved Solids, APHA 24th Ed. 2540 °C Total Dissolved Solids dried at 180 °C 2023	mg/l	696.0	5.0 -10000 mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	72.5	1.0 -1000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	262.2	4.0 -1000 mg/l

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark:* - NA

Analysed by
[Manoj Verma(JRF), Anil Kumar Sharma(SA), Krishna Rawat(JRF)]

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Deepa Arora
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Regional Officer

111

Water Quality Criteria

Designated-Best-Use	Class of water	Criteria
Drinking Water Source without conventional treatment but after disinfection	A	Total Coliforms Organism MPN/100ml shall be 50 or less pH between 6.5 and 8.5 Dissolved Oxygen 6mg/l or more Biochemical Oxygen Demand 5 days 20 °C 2mg/l or less
Outdoor bathing (Organised)	B	Total Coliforms Organism MPN/100ml shall be 500 or less pH between 6.5 and 8.5 Dissolved Oxygen 5mg/l or more Biochemical Oxygen Demand 5 days 20 °C 3mg/l or less
Drinking water source after conventional treatment and disinfection	C	Total coliforms Organism MPN/100ml shall be 5000 or less pH between 6 to 9 Dissolved Oxygen 4mg/l or more Biochemical Oxygen Demand 5 days 20 °C 3mg/l or less
Propagation of Wild life and Fisheries	D	pH between 6.5 to 8.5 Dissolved Oxygen 4mg/l or more Free Ammonia (as N) 1.2 mg/l or less
Irrigation, Industrial Cooling,Controlled Waste disposal	E	pH between 6.0 to 8.5 Electrical Conductivity at 25 °C micro mhos/cm Max.2250 Sodium absorption Ratio Max. 26 Boron Max. 2mg/l

Source: http://www.cpcb.nic.in/wqstandards/

CENTRAL LABORATORY
UTTAR PRADESH POLLUTION CONTROL BOARD

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

Certificate No TC-11015

TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-28485565/CENTRAL/2024 **Date:16/10/2024**

1- **Sample Location:** SPS-1, JHANSI

2- **District:** Jhansi

3- **Address:** JHANSI

4- **Sample Source:** Drain

5- **Type of sample :** Surface Water

6- **Sample Collected By :** Anil Kumar Sharma, SA

7- **Odour :** None

8- **Quantity and Packing :** 1 LITER PLASTIC BOTTLE, MPN BOTTLE

9- **Date of Sample Collection :** 03/10/2024

10- **Analyis Indented by :** RO Jhansi

11- **Date of sample receipt in Lab :** 04/10/2024

Parameter	Unit	Results	Detection Range
Total Chromium, APHA24th Ed.3111-B: 2023	mg/l	ND	0.05-1000 mg/l
Copper, APHA 24th Ed. 3111-B: 2023	mg/l	ND	0.01-1000 mg/l
Cadmium, APHA 24th Ed.3111-B: 2023	mg/l	ND	0.01-1000 mg/l
Lead, APHA 24th Ed 3111B: 2023	mg/l	0.0355	0.09-1000 mg/l
Iron, APHA 24th Ed 3111B: 2023	mg/l	1.0039	0.05-1000 mg/l
Nickel, APHA 24th Ed 3111B: 2023	mg/l	ND	0.04-1000 mg/l
Zinc, APHA 24th Ed.3111-B: 2023	mg/l	ND	0.01-1000mg/l
Total Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	230000	<1.8 MPN/100 ml & above
Fecal Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	130000	<1.8 MPN/100 ml & above
*Manganese, APHA 24th Ed. 3500-Mg B Calculation Method 2023	mg/l	0.4730	-
*Arsenic, APHA 24th Ed. 3114-Hydride Generation AAS Method 2023	mg/l	ND	-

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark:* - NA

Analysed by
[Jyoti Tiwari (SA), Iti Singh (JRF)]

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Reeta Keshav (ASO)

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Chief Environmental Officer
Central Laboratory

Water Quality Criteria

Designated-Best-Use	Class of water	Criteria
Drinking Water Source without conventional treatment but after disinfection	A	Total Coliforms Organism MPN/100ml shall be 50 or less pH between 6.5 and 8.5 Dissolved Oxygen 6mg/l or more Biochemical Oxygen Demand 5 days 20 °C 2mg/l or less
Outdoor bathing (Organised)	B	Total Coliforms Organism MPN/100ml shall be 500 or less pH between 6.5 and 8.5 Dissolved Oxygen 5mg/l or more Biochemical Oxygen Demand 5 days 20 °C 3mg/l or less
Drinking water source after conventional treatment and disinfection	C	Total coliforms Organism MPN/100ml shall be 5000 or less pH between 6 to 9 Dissolved Oxygen 4mg/l or more Biochemical Oxygen Demand 5 days 20 °C 3mg/l or less
Propagation of Wild life and Fisheries	D	pH between 6.5 to 8.5 Dissolved Oxygen 4mg/l or more Free Ammonia (as N) 1.2 mg/l or less
Irrigation, Industrial Cooling,Controlled Waste disposal	E	pH between 6.0 to 8.5 Electrical Conductivity at 25 °C micro mhos/cm Max.2250 Sodium absorption Ratio Max. 26 Boron Max. 2mg/l

Source: http://www.cpcb.nic.in/wqstandards/

REGIONAL LABORATORY JHANSI
UTTAR PRADESH POLLUTION CONTROL BOARD

Avas Vikas Colony, Talpura Yojna, Kanpur Road, Jhansi

TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-28487020/Jhansi/2024 **Date:16/10/2024**

1- **Sample Location:** SPS-2, JHANSI

2- **District:** Jhansi

3- **Address:** JHANSI

4- **Sample Source:** Drain

5- **Type of sample :** Surface Water

6- **Sample Collected By :** Anil Kumar Sharma, SA

7- **Odour :** None

8- **Quantity and Packing :** 500ml Plastic Jerica

9- **Date of Sample Collection :** 03/10/2024

10- **Analyis Indented by :** RO Jhansi

11- **Date of sample receipt in Lab :** 04/10/2024

Parameter	Unit	Results	Detection Range
pH, APHA24th Ed.4500-B: 2023	-	7.6	02-12
Colour, APHA 24th Ed. 2120B: 2023	Hazen	5	5-10000 Hazen
Conductivity, APHA 24th Ed. 2510B :2023	µS/cm	712	0.1-10000 µS/cm
Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	72.0	5.0 -10000 mg/l
Dissolved Solids, APHA 24th Ed. 2540 °C Total Dissolved Solids dried at 180 °C 2023	mg/l	722.0	5.0 -10000 mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	54.7	1.0 -1000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	136.8	4.0 -1000 mg/l

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark:* - NA

Analysed by
[Manoj Verma(JRF), Anil Kumar Sharma(SA), Krishna Rawat(JRF)]

Authorized by
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Deepa Arora
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Date: 2024.10.21 14:01:57 +05'30'
Regional Officer

Water Quality Criteria

Designated-Best-Use	Class of water	Criteria
Drinking Water Source without conventional treatment but after disinfection	A	Total Coliforms Organism MPN/100ml shall be 50 or less pH between 6.5 and 8.5 Dissolved Oxygen 6mg/l or more Biochemical Oxygen Demand 5 days 20 °C 2mg/l or less
Outdoor bathing (Organised)	B	Total Coliforms Organism MPN/100ml shall be 500 or less pH between 6.5 and 8.5 Dissolved Oxygen 5mg/l or more Biochemical Oxygen Demand 5 days 20 °C 3mg/l or less
Drinking water source after conventional treatment and disinfection	C	Total coliforms Organism MPN/100ml shall be 5000 or less pH between 6 to 9 Dissolved Oxygen 4mg/l or more Biochemical Oxygen Demand 5 days 20 °C 3mg/l or less
Propagation of Wild life and Fisheries	D	pH between 6.5 to 8.5 Dissolved Oxygen 4mg/l or more Free Ammonia (as N) 1.2 mg/l or less
Irrigation, Industrial Cooling,Controlled Waste disposal	E	pH between 6.0 to 8.5 Electrical Conductivity at 25 °C micro mhos/cm Max.2250 Sodium absorption Ratio Max. 26 Boron Max. 2mg/l

Source: http://www.cpcb.nic.in/wqstandards/

CENTRAL LABORATORY
UTTAR PRADESH POLLUTION CONTROL BOARD

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

Certificate No TC-11015

TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-28484950/CENTRAL/2024 **Date:16/10/2024**

1- **Sample Location:** SPS-2, JHANSI

2- **District:** Jhansi

3- **Address:** JHANSI

4- **Sample Source:** Drain

5- **Type of sample :** Surface Water

6- **Sample Collected By :** Anil Kumar Sharma, SA

7- **Odour :** None

8- **Quantity and Packing :** 1 LITER PLASTIC BOTTLE, MPN BOTTLE

9- **Date of Sample Collection :** 03/10/2024

10- **Analyis Indented by :** RO Jhansi

11- **Date of sample receipt in Lab :** 04/10/2024

Parameter	Unit	Results	Detection Range
Total Chromium, APHA24th Ed.3111-B: 2023	mg/l	ND	0.05-1000 mg/l
Copper, APHA 24th Ed. 3111-B: 2023	mg/l	ND	0.01-1000 mg/l
Cadmium, APHA 24th Ed.3111-B: 2023	mg/l	ND	0.01-1000 mg/l
Lead, APHA 24th Ed 3111B: 2023	mg/l	ND	0.09-1000 mg/l
Iron, APHA 24th Ed 3111B: 2023	mg/l	0.2154	0.05-1000 mg/l
Nickel, APHA 24th Ed 3111B: 2023	mg/l	ND	0.04-1000 mg/l
Zinc, APHA 24th Ed.3111-B: 2023	mg/l	ND	0.01-1000mg/l
Total Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	5400000	<1.8 MPN/100 ml & above
Fecal Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	2200000	<1.8 MPN/100 ml & above
*Manganese, APHA 24th Ed. 3500-Mg B Calculation Method 2023	mg/l	0.2803	-
*Arsenic, APHA 24th Ed. 3114-Hydride Generation AAS Method 2023	mg/l	ND	-

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark:* - NA

Analysed by
[Jyoti Tiwari (SA), Dr Maya Verma (JRF)]

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Reeta Keshav (ASO)

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Chief Environmental Officer
Central Laboratory

Water Quality Criteria

Designated-Best-Use	Class of water	Criteria
Drinking Water Source without conventional treatment but after disinfection	A	Total Coliforms Organism MPN/100ml shall be 50 or less pH between 6.5 and 8.5 Dissolved Oxygen 6mg/l or more Biochemical Oxygen Demand 5 days 20 °C 2mg/l or less
Outdoor bathing (Organised)	B	Total Coliforms Organism MPN/100ml shall be 500 or less pH between 6.5 and 8.5 Dissolved Oxygen 5mg/l or more Biochemical Oxygen Demand 5 days 20 °C 3mg/l or less
Drinking water source after conventional treatment and disinfection	C	Total coliforms Organism MPN/100ml shall be 5000 or less pH between 6 to 9 Dissolved Oxygen 4mg/l or more Biochemical Oxygen Demand 5 days 20 °C 3mg/l or less
Propagation of Wild life and Fisheries	D	pH between 6.5 to 8.5 Dissolved Oxygen 4mg/l or more Free Ammonia (as N) 1.2 mg/l or less
Irrigation, Industrial Cooling,Controlled Waste disposal	E	pH between 6.0 to 8.5 Electrical Conductivity at 25 °C micro mhos/cm Max.2250 Sodium absorption Ratio Max. 26 Boron Max. 2mg/l

Source: http://www.cpcb.nic.in/wqstandards/

REGIONAL LABORATORY JHANSI
UTTAR PRADESH POLLUTION CONTROL BOARD

Avas Vikas Colony, Talpura Yojna, Kanpur Road, Jhansi

TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-28487025/Jhansi/2024 **Date:16/10/2024**

1- **Sample Location:** SPS-3 RAMLAL ASHRAM DRAIN JHANSI

2- **District:** Jhansi

3- **Address:** RAMLAL ASHRAM DRAIN JHANSI

4- **Sample Source:** Drain

5- **Type of sample :** Surface Water

6- **Sample Collected By :** Anil Kumar Sharma, SA

7- **Odour :** None

8- **Quantity and Packing :** 500ml Plastic Jerica

9- **Date of Sample Collection :** 03/10/2024

10- **Analyis Indented by :** RO Jhansi

11- **Date of sample receipt in Lab :** 04/10/2024

Parameter	Unit	Results	Detection Range
pH, APHA24th Ed.4500-B: 2023	-	7.43	02-12
Colour, APHA 24th Ed. 2120B: 2023	Hazen	5	5-10000 Hazen
Conductivity, APHA 24th Ed. 2510B :2023	µS/cm	792	0.1-10000 µS/cm
Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	296.0	5.0 -10000 mg/l
Dissolved Solids, APHA 24th Ed. 2540 °C Total Dissolved Solids dried at 180 °C 2023	mg/l	766.0	5.0 -10000 mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	57.5	1.0 -1000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	193.8	4.0 -1000 mg/l

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark:* - NA

Analysed by
[Manoj Verma(JRF), Anil Kumar Sharma(SA), Krishna Rawat(JRF)]

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Dr Madhvi Kamalvanshi (SO)

Deepa Arora
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Date: 2024.10.21 14:00:12 +05'30'
Regional Officer

Water Quality Criteria

Designated-Best-Use	Class of water	Criteria
Drinking Water Source without conventional treatment but after disinfection	A	Total Coliforms Organism MPN/100ml shall be 50 or less pH between 6.5 and 8.5 Dissolved Oxygen 6mg/l or more Biochemical Oxygen Demand 5 days 20 °C 2mg/l or less
Outdoor bathing (Organised)	B	Total Coliforms Organism MPN/100ml shall be 500 or less pH between 6.5 and 8.5 Dissolved Oxygen 5mg/l or more Biochemical Oxygen Demand 5 days 20 °C 3mg/l or less
Drinking water source after conventional treatment and disinfection	C	Total coliforms Organism MPN/100ml shall be 5000 or less pH between 6 to 9 Dissolved Oxygen 4mg/l or more Biochemical Oxygen Demand 5 days 20 °C 3mg/l or less
Propagation of Wild life and Fisheries	D	pH between 6.5 to 8.5 Dissolved Oxygen 4mg/l or more Free Ammonia (as N) 1.2 mg/l or less
Irrigation, Industrial Cooling,Controlled Waste disposal	E	pH between 6.0 to 8.5 Electrical Conductivity at 25 °C micro mhos/cm Max.2250 Sodium absorption Ratio Max. 26 Boron Max. 2mg/l

Source: http://www.cpcb.nic.in/wqstandards/

CENTRAL LABORATORY
UTTAR PRADESH POLLUTION CONTROL BOARD

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

Certificate No TC-11015

TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-28484717/CENTRAL/2024 **Date:16/10/2024**

1- **Sample Location:** SPS-3 RAMLAL ASHRAM DRAIN JHANSI

2- **District:** Jhansi

3- **Address:** RAMLAL ASHRAM DRAIN JHANSI

4- **Sample Source:** Drain

5- **Type of sample :** Surface Water

6- **Sample Collected By :** Anil Kumar Sharma, SA

7- **Odour :** None

8- **Quantity and Packing :** 1 LITER PLASTIC BOTTLE, MPN BOTTLE

9- **Date of Sample Collection :** 03/10/2024

10- **Analyis Indented by :** RO Jhansi

11- **Date of sample receipt in Lab :** 04/10/2024

Parameter	Unit	Results	Detection Range
Total Chromium, APHA24th Ed.3111-B: 2023	mg/l	ND	0.05-1000 mg/l
Copper, APHA 24th Ed. 3111-B: 2023	mg/l	ND	0.01-1000 mg/l
Cadmium, APHA 24th Ed.3111-B: 2023	mg/l	ND	0.01-1000 mg/l
Lead, APHA 24th Ed 3111B: 2023	mg/l	ND	0.09-1000 mg/l
Iron, APHA 24th Ed 3111B: 2023	mg/l	0.9370	0.05-1000 mg/l
Nickel, APHA 24th Ed 3111B: 2023	mg/l	ND	0.04-1000 mg/l
Zinc, APHA 24th Ed.3111-B: 2023	mg/l	ND	0.01-1000mg/l
Total Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	680000	<1.8 MPN/100 ml & above
Fecal Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	450000	<1.8 MPN/100 ml & above
*Manganese, APHA 24th Ed. 3500-Mg B Calculation Method 2023	mg/l	0.3959	-
*Arsenic, APHA 24th Ed. 3114-Hydride Generation AAS Method 2023	mg/l	ND	-

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark:* - NA

Analysed by
[Jyoti Tiwari (SA), Dr Maya Verma (JRF)]

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Chief Environmental Officer
Central Laboratory

Water Quality Criteria

Designated-Best-Use	Class of water	Criteria
Drinking Water Source without conventional treatment but after disinfection	A	Total Coliforms Organism MPN/100ml shall be 50 or less pH between 6.5 and 8.5 Dissolved Oxygen 6mg/l or more Biochemical Oxygen Demand 5 days 20 °C 2mg/l or less
Outdoor bathing (Organised)	B	Total Coliforms Organism MPN/100ml shall be 500 or less pH between 6.5 and 8.5 Dissolved Oxygen 5mg/l or more Biochemical Oxygen Demand 5 days 20 °C 3mg/l or less
Drinking water source after conventional treatment and disinfection	C	Total coliforms Organism MPN/100ml shall be 5000 or less pH between 6 to 9 Dissolved Oxygen 4mg/l or more Biochemical Oxygen Demand 5 days 20 °C 3mg/l or less
Propagation of Wild life and Fisheries	D	pH between 6.5 to 8.5 Dissolved Oxygen 4mg/l or more Free Ammonia (as N) 1.2 mg/l or less
Irrigation, Industrial Cooling,Controlled Waste disposal	E	pH between 6.0 to 8.5 Electrical Conductivity at 25 °C micro mhos/cm Max.2250 Sodium absorption Ratio Max. 26 Boron Max. 2mg/l

Source: http://www.cpcb.nic.in/wqstandards/

REGIONAL LABORATORY JHANSI
UTTAR PRADESH POLLUTION CONTROL BOARD

Avas Vikas Colony, Talpura Yojna, Kanpur Road, Jhansi

TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-28487033/Jhansi/2024 **Date:16/10/2024**

1- **Sample Location:** SPS-4, RAJGHAT COLONY, JHANSI

2- **District:** Jhansi

3- **Address:** RAJGHAT COLONY JHANSI

4- **Sample Source:** Drain

5- **Type of sample :** Surface Water

6- **Sample Collected By :** Anil Kumar Sharma, SA

7- **Odour :** None

8- **Quantity and Packing :** 500ml Plastic Jerica

9- **Date of Sample Collection :** 03/10/2024

10- **Analyis Indented by :** RO Jhansi

11- **Date of sample receipt in Lab :** 04/10/2024

Parameter	Unit	Results	Detection Range
pH, APHA24th Ed.4500-B: 2023	-	7.54	02-12
Colour, APHA 24th Ed. 2120B: 2023	Hazen	5	5-10000 Hazen
Conductivity, APHA 24th Ed. 2510B :2023	µS/cm	618.0	0.1-10000 µS/cm
Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	47.0	5.0 -10000 mg/l
Dissolved Solids, APHA 24th Ed. 2540 °C Total Dissolved Solids dried at 180 °C 2023	mg/l	673.0	5.0 -10000 mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	42.5	1.0 -1000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	159.6	4.0 -1000 mg/l

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark:* - NA

Analysed by
[Manoj Verma(JRF), Anil Kumar Sharma(SA), Krishna Rawat(JRF)]

Authorized by
Madhavi Kamalvanshi
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Dr Madhvi Kamalvanshi (SO)

Deepa Arora
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Date: 2024.10.21 13:58:16 +05'30'
Regional Officer

Water Quality Criteria

Designated-Best-Use	Class of water	Criteria
Drinking Water Source without conventional treatment but after disinfection	A	Total Coliforms Organism MPN/100ml shall be 50 or less pH between 6.5 and 8.5 Dissolved Oxygen 6mg/l or more Biochemical Oxygen Demand 5 days 20 °C 2mg/l or less
Outdoor bathing (Organised)	B	Total Coliforms Organism MPN/100ml shall be 500 or less pH between 6.5 and 8.5 Dissolved Oxygen 5mg/l or more Biochemical Oxygen Demand 5 days 20 °C 3mg/l or less
Drinking water source after conventional treatment and disinfection	C	Total coliforms Organism MPN/100ml shall be 5000 or less pH between 6 to 9 Dissolved Oxygen 4mg/l or more Biochemical Oxygen Demand 5 days 20 °C 3mg/l or less
Propagation of Wild life and Fisheries	D	pH between 6.5 to 8.5 Dissolved Oxygen 4mg/l or more Free Ammonia (as N) 1.2 mg/l or less
Irrigation, Industrial Cooling,Controlled Waste disposal	E	pH between 6.0 to 8.5 Electrical Conductivity at 25 °C micro mhos/cm Max.2250 Sodium absorption Ratio Max. 26 Boron Max. 2mg/l

Source: http://www.cpcb.nic.in/wqstandards/

CENTRAL LABORATORY
UTTAR PRADESH POLLUTION CONTROL BOARD

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

Certificate No TC-11015

TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-28484555/CENTRAL/2024 **Date:16/10/2024**

1- **Sample Location:** SPS-4, RAJGHAT COLONY, JHANSI

2- **District:** Jhansi

3- **Address:** RAJGHAT COLONY JHANSI

4- **Sample Source:** Drain

5- **Type of sample :** Surface Water

6- **Sample Collected By :** Anil Kumar Sharma, SA

7- **Odour :** None

8- **Quantity and Packing :** 1 LITER PLASTIC BOTTLE, MPN BOTTLE

9- **Date of Sample Collection :** 03/10/2024

10- **Analyis Indented by :** RO Jhansi

11- **Date of sample receipt in Lab :** 04/10/2024

Parameter	Unit	Results	Detection Range
Total Chromium, APHA24th Ed.3111-B: 2023	mg/l	ND	0.05-1000 mg/l
Copper, APHA 24th Ed. 3111-B: 2023	mg/l	ND	0.01-1000 mg/l
Cadmium, APHA 24th Ed.3111-B: 2023	mg/l	ND	0.01-1000 mg/l
Lead, APHA 24th Ed 3111B: 2023	mg/l	ND	0.09-1000 mg/l
Iron, APHA 24th Ed 3111B: 2023	mg/l	0.2956	0.05-1000 mg/l
Nickel, APHA 24th Ed 3111B: 2023	mg/l	ND	0.04-1000 mg/l
Zinc, APHA 24th Ed.3111-B: 2023	mg/l	0.2205	0.01-1000mg/l
Total Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	9200000	<1.8 MPN/100 ml & above
Fecal Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	5400000	<1.8 MPN/100 ml & above
*Manganese, APHA 24th Ed. 3500-Mg B Calculation Method 2023	mg/l	0.3298	-
*Arsenic, APHA 24th Ed. 3114-Hydride Generation AAS Method 2023	mg/l	ND	-

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark:* - NA

Analysed by
[Dr Mamta Pandey(SA), Rahul Singh(JRF)]

Authorized by
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Digitally signed by Reeta Keshav Date: 2024.10.16 12:03:05 +05'30'
Reeta Keshav (ASO)

RAM GOPAL
Digitally signed by RAM GOPAL Date: 2024.10.16 12:03:16 +05'30'
Chief Environmental Officer
Central Laboratory

Water Quality Criteria

Designated-Best-Use	Class of water	Criteria
Drinking Water Source without conventional treatment but after disinfection	A	Total Coliforms Organism MPN/100ml shall be 50 or less pH between 6.5 and 8.5 Dissolved Oxygen 6mg/l or more Biochemical Oxygen Demand 5 days 20 °C 2mg/l or less
Outdoor bathing (Organised)	B	Total Coliforms Organism MPN/100ml shall be 500 or less pH between 6.5 and 8.5 Dissolved Oxygen 5mg/l or more Biochemical Oxygen Demand 5 days 20 °C 3mg/l or less
Drinking water source after conventional treatment and disinfection	C	Total coliforms Organism MPN/100ml shall be 5000 or less pH between 6 to 9 Dissolved Oxygen 4mg/l or more Biochemical Oxygen Demand 5 days 20 °C 3mg/l or less
Propagation of Wild life and Fisheries	D	pH between 6.5 to 8.5 Dissolved Oxygen 4mg/l or more Free Ammonia (as N) 1.2 mg/l or less
Irrigation, Industrial Cooling,Controlled Waste disposal	E	pH between 6.0 to 8.5 Electrical Conductivity at 25 °C micro mhos/cm Max.2250 Sodium absorption Ratio Max. 26 Boron Max. 2mg/l

Source: http://www.cpcb.nic.in/wqstandards/

CENTRAL LABORATORY
UTTAR PRADESH POLLUTION CONTROL BOARD

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

Certificate No TC-11015

TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-28484253/CENTRAL/2024 **Date:16/10/2024**

1- **Sample Location:** BAIDORA, VILLAGE-JHANSI
2- **District:** Jhansi
3- **Address:** VILLAGE-BAIDORA, JHANSI
4- **Sample Source:** River
5- **Type of sample :** Surface Water
6- **Sample Collected By :** Anil Kumar Sharma, SA
7- **Odour :** None
8- **Quantity and Packing :** 1 LITER PLASTIC BOTTLE, MPN BOTTLE
9- **Date of Sample Collection :** 03/10/2024
10- **Analyis Indented by :** RO Jhansi
11- **Date of sample receipt in Lab :** 04/10/2024

Parameter	Unit	Results	Detection Range
Total Chromium, APHA24th Ed.3111-B: 2023	mg/l	ND	0.05-1000 mg/l
Copper, APHA 24th Ed. 3111-B: 2023	mg/l	ND	0.01-1000 mg/l
Cadmium, APHA 24th Ed.3111-B: 2023	mg/l	ND	0.01-1000 mg/l
Lead, APHA 24th Ed 3111B: 2023	mg/l	ND	0.09-1000 mg/l
Iron, APHA 24th Ed 3111B: 2023	mg/l	0.2154	0.05-1000 mg/l
Nickel, APHA 24th Ed 3111B: 2023	mg/l	ND	0.04-1000 mg/l
Zinc, APHA 24th Ed.3111-B: 2023	mg/l	ND	0.01-1000mg/l
Total Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	2300	<1.8 MPN/100 ml & above
Fecal Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	1300	<1.8 MPN/100 ml & above
*Manganese, APHA 24th Ed. 3500-Mg B Calculation Method 2023	mg/l	0.1206	-
*Arsenic, APHA 24th Ed. 3114-Hydride Generation AAS Method 2023	mg/l	ND	-

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark:* - NA

Analysed by
[Dr Mamta Pandey(SA), Rahul Singh(JRF)]

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Reeta Keshav (ASO)

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Date: 2024.10.16 11:52:36 +05'30'
Chief Environmental Officer
Central Laboratory

Water Quality Criteria

Designated-Best-Use	Class of water	Criteria
Drinking Water Source without conventional treatment but after disinfection	A	Total Coliforms Organism MPN/100ml shall be 50 or less pH between 6.5 and 8.5 Dissolved Oxygen 6mg/l or more Biochemical Oxygen Demand 5 days 20 °C 2mg/l or less
Outdoor bathing (Organised)	B	Total Coliforms Organism MPN/100ml shall be 500 or less pH between 6.5 and 8.5 Dissolved Oxygen 5mg/l or more Biochemical Oxygen Demand 5 days 20 °C 3mg/l or less
Drinking water source after conventional treatment and disinfection	C	Total coliforms Organism MPN/100ml shall be 5000 or less pH between 6 to 9 Dissolved Oxygen 4mg/l or more Biochemical Oxygen Demand 5 days 20 °C 3mg/l or less
Propagation of Wild life and Fisheries	D	pH between 6.5 to 8.5 Dissolved Oxygen 4mg/l or more Free Ammonia (as N) 1.2 mg/l or less
Irrigation, Industrial Cooling,Controlled Waste disposal	E	pH between 6.0 to 8.5 Electrical Conductivity at 25 °C micro mhos/cm Max.2250 Sodium absorption Ratio Max. 26 Boron Max. 2mg/l

Source: http://www.cpcb.nic.in/wqstandards/

REGIONAL LABORATORY JHANSI
UTTAR PRADESH POLLUTION CONTROL BOARD

Avas Vikas Colony, Talpura Yojna, Kanpur Road, Jhansi

TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-28486982/Jhansi/2024 **Date:16/10/2024**

1- **Sample Location:** BAIDORA, VILLAGE-JHANSI

2- **District:** Jhansi

3- **Address:** VILLAGE-BAIDORA, JHANSI

4- **Sample Source:** River

5- **Type of sample :** Surface Water

6- **Sample Collected By :** Anil Kumar Sharma, SA

7- **Odour :** None

8- **Quantity and Packing :** 500ml Plastic Jerica, DO Bottle

9- **Date of Sample Collection :** 03/10/2024

10- **Analyis Indented by :** RO Jhansi

11- **Date of sample receipt in Lab :** 04/10/2024

Parameter	Unit	Results	Detection Range
pH, APHA24th Ed.4500-B: 2023	-	7.95	02-12
Colour, APHA 24th Ed. 2120B: 2023	Hazen	5	5-10000 Hazen
Conductivity, APHA 24th Ed. 2510B :2023	µS/cm	571	0.1-10000 µS/cm
Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	21.0	5.0 -10000 mg/l
Dissolved Solids, APHA 24th Ed. 2540 °C Total Dissolved Solids dried at 180 °C 2023	mg/l	398.0	5.0 -10000 mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	2.90	1.0 -1000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	11.96	4.0 -1000 mg/l
D.O. , APHA 24th Ed. 4500-OB Iodometric Method 2023	mg/l	7.20	0.2-14.0 mg/l

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark:* - NA

Analysed by
[Manoj Verma(JRF), Anil Kumar Sharma(SA), Krishna Rawat(JRF)]

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Dr Madhvi Kamalvanshi (SO)

Deepa Arora
Digitally signed by Deepa Arora
Date: 2024.10.21 14:07:25 +05'30'

Regional Officer

Water Quality Criteria

Designated-Best-Use	Class of water	Criteria
Drinking Water Source without conventional treatment but after disinfection	A	Total Coliforms Organism MPN/100ml shall be 50 or less pH between 6.5 and 8.5 Dissolved Oxygen 6mg/l or more Biochemical Oxygen Demand 5 days 20 °C 2mg/l or less
Outdoor bathing (Organised)	B	Total Coliforms Organism MPN/100ml shall be 500 or less pH between 6.5 and 8.5 Dissolved Oxygen 5mg/l or more Biochemical Oxygen Demand 5 days 20 °C 3mg/l or less
Drinking water source after conventional treatment and disinfection	C	Total coliforms Organism MPN/100ml shall be 5000 or less pH between 6 to 9 Dissolved Oxygen 4mg/l or more Biochemical Oxygen Demand 5 days 20 °C 3mg/l or less
Propagation of Wild life and Fisheries	D	pH between 6.5 to 8.5 Dissolved Oxygen 4mg/l or more Free Ammonia (as N) 1.2 mg/l or less
Irrigation, Industrial Cooling,Controlled Waste disposal	E	pH between 6.0 to 8.5 Electrical Conductivity at 25 °C micro mhos/cm Max.2250 Sodium absorption Ratio Max. 26 Boron Max. 2mg/l

Source: http://www.cpcb.nic.in/wqstandards/

CENTRAL LABORATORY
UTTAR PRADESH POLLUTION CONTROL BOARD

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

Certificate No TC-11015

TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-28483909/CENTRAL/2024 **Date:16/10/2024**

1- **Sample Location:** Dongri Dam

2- **District:** Jhansi

3- **Address:** Near Gram Chamraua ,Vikas Khand Babina, Jhansi

4- **Sample Source:** Other

5- **Type of sample :** Surface Water

6- **Sample Collected By :** Anil Kumar Sharma, SA

7- **Odour :** None

8- **Quantity and Packing :** 1 LITER PLASTIC BOTTLE, MPN BOTTLE

9- **Date of Sample Collection :** 03/10/2024

10- **Analyis Indented by :** RO Jhansi

11- **Date of sample receipt in Lab :** 04/10/2024

Parameter	Unit	Results	Detection Range
Total Chromium, APHA24th Ed.3111-B: 2023	mg/l	ND	0.05-1000 mg/l
Copper, APHA 24th Ed. 3111-B: 2023	mg/l	ND	0.01-1000 mg/l
Cadmium, APHA 24th Ed.3111-B: 2023	mg/l	ND	0.01-1000 mg/l
Lead, APHA 24th Ed 3111B: 2023	mg/l	ND	0.09-1000 mg/l
Iron, APHA 24th Ed 3111B: 2023	mg/l	0.3089	0.05-1000 mg/l
Nickel, APHA 24th Ed 3111B: 2023	mg/l	ND	0.04-1000 mg/l
Zinc, APHA 24th Ed.3111-B: 2023	mg/l	0.0078	0.01-1000mg/l
Total Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	240000	<1.8 MPN/100 ml & above
Fecal Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	22000	<1.8 MPN/100 ml & above
*Manganese, APHA 24th Ed. 3500-Mg B Calculation Method 2023	mg/l	0.2748	-
*Arsenic, APHA 24th Ed. 3114-Hydride Generation AAS Method 2023	mg/l	ND	-

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark:* - NA

Analysed by
[Dr Mamta Pandey(SA), Rahul Singh(JRF)]

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Reeta Keshav (ASO)

RAM GOPAL Digitally signed by RAM GOPAL Date: 2024.10.16 11:48:49 +05'30'
Chief Environmental Officer
Central Laboratory

131

Water Quality Criteria

Designated-Best-Use	Class of water	Criteria
Drinking Water Source without conventional treatment but after disinfection	A	Total Coliforms Organism MPN/100ml shall be 50 or less pH between 6.5 and 8.5 Dissolved Oxygen 6mg/l or more Biochemical Oxygen Demand 5 days 20 °C 2mg/l or less
Outdoor bathing (Organised)	B	Total Coliforms Organism MPN/100ml shall be 500 or less pH between 6.5 and 8.5 Dissolved Oxygen 5mg/l or more Biochemical Oxygen Demand 5 days 20 °C 3mg/l or less
Drinking water source after conventional treatment and disinfection	C	Total coliforms Organism MPN/100ml shall be 5000 or less pH between 6 to 9 Dissolved Oxygen 4mg/l or more Biochemical Oxygen Demand 5 days 20 °C 3mg/l or less
Propagation of Wild life and Fisheries	D	pH between 6.5 to 8.5 Dissolved Oxygen 4mg/l or more Free Ammonia (as N) 1.2 mg/l or less
Irrigation, Industrial Cooling,Controlled Waste disposal	E	pH between 6.0 to 8.5 Electrical Conductivity at 25 °C micro mhos/cm Max.2250 Sodium absorption Ratio Max. 26 Boron Max. 2mg/l

Source: http://www.cpcb.nic.in/wqstandards/

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REGIONAL LABORATORY JHANSI
UTTAR PRADESH POLLUTION CONTROL BOARD

Avas Vikas Colony, Talpura Yojna, Kanpur Road, Jhansi

TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-28486970/Jhansi/2024 **Date:16/10/2024**

1- **Sample Location:** Dongri Dam
2- **District:** Jhansi
3- **Address:** Near Gram Chamraua ,Vikas Khand Babina, Jhansi
4- **Sample Source:** River
5- **Type of sample :** Surface Water
6- **Sample Collected By :** Anil Kumar Sharma, SA
7- **Odour :** None
8- **Quantity and Packing :** 500ml Plastic Jerica, DO Bottle
9- **Date of Sample Collection :** 03/10/2024
10- **Analyis Indented by :** RO Jhansi
11- **Date of sample receipt in Lab :** 04/10/2024

Parameter	Unit	Results	Detection Range
pH, APHA24th Ed.4500-B: 2023	-	7.65	02-12
Colour, APHA 24th Ed. 2120B: 2023	Hazen	5	5-10000 Hazen
Conductivity, APHA 24th Ed. 2510B :2023	µS/cm	305.0	0.1-10000 µS/cm
Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	18.0	5.0 -10000 mg/l
Dissolved Solids, APHA 24th Ed. 2540 °C Total Dissolved Solids dried at 180 °C 2023	mg/l	258.0	5.0 -10000 mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	2.7	1.0 -1000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	11.04	4.0 -1000 mg/l
D.O. , APHA 24th Ed. 4500-OB Iodometric Method 2023	mg/l	7.40	0.2-14.0 mg/l

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark:* - NA

Analysed by
[Manoj Verma(JRF), Anil Kumar Sharma(SA), Krishna Rawat(JRF)]

Authorized by
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Dr Madhvi Kamalvanshi (SO)

Deepa Arora
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Date: 2024.10.21 14:09:14 +05'30'
Regional Officer

Water Quality Criteria

Designated-Best-Use	Class of water	Criteria
Drinking Water Source without conventional treatment but after disinfection	A	Total Coliforms Organism MPN/100ml shall be 50 or less pH between 6.5 and 8.5 Dissolved Oxygen 6mg/l or more Biochemical Oxygen Demand 5 days 20 °C 2mg/l or less
Outdoor bathing (Organised)	B	Total Coliforms Organism MPN/100ml shall be 500 or less pH between 6.5 and 8.5 Dissolved Oxygen 5mg/l or more Biochemical Oxygen Demand 5 days 20 °C 3mg/l or less
Drinking water source after conventional treatment and disinfection	C	Total coliforms Organism MPN/100ml shall be 5000 or less pH between 6 to 9 Dissolved Oxygen 4mg/l or more Biochemical Oxygen Demand 5 days 20 °C 3mg/l or less
Propagation of Wild life and Fisheries	D	pH between 6.5 to 8.5 Dissolved Oxygen 4mg/l or more Free Ammonia (as N) 1.2 mg/l or less
Irrigation, Industrial Cooling,Controlled Waste disposal	E	pH between 6.0 to 8.5 Electrical Conductivity at 25 °C micro mhos/cm Max.2250 Sodium absorption Ratio Max. 26 Boron Max. 2mg/l

Source: http://www.cpcb.nic.in/wqstandards/

CENTRAL LABORATORY
UTTAR PRADESH POLLUTION CONTROL BOARD

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

Certificate No TC-11015

TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-28484372/CENTRAL/2024 **Date:16/10/2024**

1- **Sample Location:** RAILWAY DAM
2- **District:** Jhansi
3- **Address:** JHANSI
4- **Sample Source:** Other
5- **Type of sample :** Surface Water
6- **Sample Collected By :** Anil Kumar Sharma, SA
7- **Odour :** None
8- **Quantity and Packing :** 1 LITER PLASTIC BOTTLE, MPN BOTTLE
9- **Date of Sample Collection :** 03/10/2024
10- **Analyis Indented by :** RO Jhansi
11- **Date of sample receipt in Lab :** 04/10/2024

Parameter	Unit	Results	Detection Range
Total Chromium, APHA24th Ed.3111-B: 2023	mg/l	ND	0.05-1000 mg/l
Copper, APHA 24th Ed. 3111-B: 2023	mg/l	ND	0.01-1000 mg/l
Cadmium, APHA 24th Ed.3111-B: 2023	mg/l	ND	0.01-1000 mg/l
Lead, APHA 24th Ed 3111B: 2023	mg/l	ND	0.09-1000 mg/l
Iron, APHA 24th Ed 3111B: 2023	mg/l	0.3891	0.05-1000 mg/l
Nickel, APHA 24th Ed 3111B: 2023	mg/l	ND	0.04-1000 mg/l
Zinc, APHA 24th Ed.3111-B: 2023	mg/l	ND	0.01-1000mg/l
Total Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	13000	<1.8 MPN/100 ml & above
Fecal Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	1400	<1.8 MPN/100 ml & above
*Manganese, APHA 24th Ed. 3500-Mg B Calculation Method 2023	mg/l	0.1261	-
*Arsenic, APHA 24th Ed. 3114-Hydride Generation AAS Method 2023	mg/l	ND	-

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark:* - NA

Analysed by
[Dr Mamta Pandey(SA), Rahul Singh(JRF)]

Authorized by
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Reeta Keshav (ASO)

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Date: 2024.10.16 11:54:45 +05'30'
Chief Environmental Officer
Central Laboratory

Water Quality Criteria

Designated-Best-Use	Class of water	Criteria
Drinking Water Source without conventional treatment but after disinfection	A	Total Coliforms Organism MPN/100ml shall be 50 or less pH between 6.5 and 8.5 Dissolved Oxygen 6mg/l or more Biochemical Oxygen Demand 5 days 20 °C 2mg/l or less
Outdoor bathing (Organised)	B	Total Coliforms Organism MPN/100ml shall be 500 or less pH between 6.5 and 8.5 Dissolved Oxygen 5mg/l or more Biochemical Oxygen Demand 5 days 20 °C 3mg/l or less
Drinking water source after conventional treatment and disinfection	C	Total coliforms Organism MPN/100ml shall be 5000 or less pH between 6 to 9 Dissolved Oxygen 4mg/l or more Biochemical Oxygen Demand 5 days 20 °C 3mg/l or less
Propagation of Wild life and Fisheries	D	pH between 6.5 to 8.5 Dissolved Oxygen 4mg/l or more Free Ammonia (as N) 1.2 mg/l or less
Irrigation, Industrial Cooling,Controlled Waste disposal	E	pH between 6.0 to 8.5 Electrical Conductivity at 25 °C micro mhos/cm Max.2250 Sodium absorption Ratio Max. 26 Boron Max. 2mg/l

Source: http://www.cpcb.nic.in/wqstandards/

REGIONAL LABORATORY JHANSI
UTTAR PRADESH POLLUTION CONTROL BOARD

Avas Vikas Colony, Talpura Yojna, Kanpur Road, Jhansi

TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-28486999/Jhansi/2024 **Date:16/10/2024**

1- **Sample Location:** RAILWAY DAM
2- **District:** Jhansi
3- **Address:** JHANSI
4- **Sample Source:** River
5- **Type of sample :** Surface Water
6- **Sample Collected By :** Anil Kumar Sharma, SA
7- **Odour :** None
8- **Quantity and Packing :** 500ml Plastic Jerica, Do Bottle
9- **Date of Sample Collection :** 03/10/2024
10- **Analyis Indented by :** RO Jhansi
11- **Date of sample receipt in Lab :** 04/10/2024

Parameter	Unit	Results	Detection Range
pH, APHA24th Ed.4500-B: 2023	-	8.1	02-12
Colour, APHA 24th Ed. 2120B: 2023	Hazen	5	5-10000 Hazen
Conductivity, APHA 24th Ed. 2510B :2023	µS/cm	393	0.1-10000 µS/cm
Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	14.0	5.0 -10000 mg/l
Dissolved Solids, APHA 24th Ed. 2540 °C Total Dissolved Solids dried at 180 °C 2023	mg/l	386.0	5.0 -10000 mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	2.70	1.0 -1000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	10.12	4.0 -1000 mg/l
D.O. , APHA 24th Ed. 4500-OB Iodometric Method 2023	mg/l	8.9	0.2-14.0 mg/l

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark:* - NA

Analysed by
[Manoj Verma(JRF), Anil Kumar Sharma(SA), Krishna Rawat(JRF)]

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Regional Officer

Water Quality Criteria

Designated-Best-Use	Class of water	Criteria
Drinking Water Source without conventional treatment but after disinfection	A	Total Coliforms Organism MPN/100ml shall be 50 or less pH between 6.5 and 8.5 Dissolved Oxygen 6mg/l or more Biochemical Oxygen Demand 5 days 20 °C 2mg/l or less
Outdoor bathing (Organised)	B	Total Coliforms Organism MPN/100ml shall be 500 or less pH between 6.5 and 8.5 Dissolved Oxygen 5mg/l or more Biochemical Oxygen Demand 5 days 20 °C 3mg/l or less
Drinking water source after conventional treatment and disinfection	C	Total coliforms Organism MPN/100ml shall be 5000 or less pH between 6 to 9 Dissolved Oxygen 4mg/l or more Biochemical Oxygen Demand 5 days 20 °C 3mg/l or less
Propagation of Wild life and Fisheries	D	pH between 6.5 to 8.5 Dissolved Oxygen 4mg/l or more Free Ammonia (as N) 1.2 mg/l or less
Irrigation, Industrial Cooling,Controlled Waste disposal	E	pH between 6.0 to 8.5 Electrical Conductivity at 25 °C micro mhos/cm Max.2250 Sodium absorption Ratio Max. 26 Boron Max. 2mg/l

Source: http://www.cpcb.nic.in/wqstandards/

CENTRAL LABORATORY
UTTAR PRADESH POLLUTION CONTROL BOARD

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

Certificate No TC-11015

TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-28485352/CENTRAL/2024 **Date:16/10/2024**

1- **Sample Location:** PAHUNJ RIVER

2- **District:** Jhansi

3- **Address:** DHOBIGHAT, JHANSI

4- **Sample Source:** River

5- **Type of sample :** Surface Water

6- **Sample Collected By :** Anil Kumar Sharma, SA

7- **Odour :** None

8- **Quantity and Packing :** 1 LITER PLASTIC BOTTLE, MPN BOTTLE

9- **Date of Sample Collection :** 03/10/2024

10- **Analyis Indented by :** RO Jhansi

11- **Date of sample receipt in Lab :** 04/10/2024

Parameter	Unit	Results	Detection Range
Total Chromium, APHA24th Ed.3111-B: 2023	mg/l	ND	0.05-1000 mg/l
Copper, APHA 24th Ed. 3111-B: 2023	mg/l	ND	0.01-1000 mg/l
Cadmium, APHA 24th Ed.3111-B: 2023	mg/l	ND	0.01-1000 mg/l
Lead, APHA 24th Ed 3111B: 2023	mg/l	ND	0.09-1000 mg/l
Iron, APHA 24th Ed 3111B: 2023	mg/l	0.1219	0.05-1000 mg/l
Nickel, APHA 24th Ed 3111B: 2023	mg/l	ND	0.04-1000 mg/l
Zinc, APHA 24th Ed.3111-B: 2023	mg/l	ND	0.01-1000mg/l
Total Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	45000	<1.8 MPN/100 ml & above
Fecal Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	20000	<1.8 MPN/100 ml & above
*Manganese, APHA 24th Ed. 3500-Mg B Calculation Method 2023	mg/l	0.1646	-
*Arsenic, APHA 24th Ed. 3114-Hydride Generation AAS Method 2023	mg/l	ND	-

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark:* - NA

Analysed by
[Jyoti Tiwari (SA), Iti Singh (JRF)]

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Chief Environmental Officer
Central Laboratory

Water Quality Criteria

Designated-Best-Use	Class of water	Criteria
Drinking Water Source without conventional treatment but after disinfection	A	Total Coliforms Organism MPN/100ml shall be 50 or less pH between 6.5 and 8.5 Dissolved Oxygen 6mg/l or more Biochemical Oxygen Demand 5 days 20 °C 2mg/l or less
Outdoor bathing (Organised)	B	Total Coliforms Organism MPN/100ml shall be 500 or less pH between 6.5 and 8.5 Dissolved Oxygen 5mg/l or more Biochemical Oxygen Demand 5 days 20 °C 3mg/l or less
Drinking water source after conventional treatment and disinfection	C	Total coliforms Organism MPN/100ml shall be 5000 or less pH between 6 to 9 Dissolved Oxygen 4mg/l or more Biochemical Oxygen Demand 5 days 20 °C 3mg/l or less
Propagation of Wild life and Fisheries	D	pH between 6.5 to 8.5 Dissolved Oxygen 4mg/l or more Free Ammonia (as N) 1.2 mg/l or less
Irrigation, Industrial Cooling,Controlled Waste disposal	E	pH between 6.0 to 8.5 Electrical Conductivity at 25 °C micro mhos/cm Max.2250 Sodium absorption Ratio Max. 26 Boron Max. 2mg/l

Source: http://www.cpcb.nic.in/wqstandards/

REGIONAL LABORATORY JHANSI
UTTAR PRADESH POLLUTION CONTROL BOARD

Avas Vikas Colony, Talpura Yojna, Kanpur Road, Jhansi

TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-28487072/Jhansi/2024 **Date:16/10/2024**

1- **Sample Location:** PAHUNJ RIVER
2- **District:** Jhansi
3- **Address:** DHOBIGHAT, JHANSI
4- **Sample Source:** River
5- **Type of sample :** Surface Water
6- **Sample Collected By :** Anil Kumar Sharma, SA
7- **Odour :** None
8- **Quantity and Packing :** 500ml Plastic Jerica, Do Bottle
9- **Date of Sample Collection :** 03/10/2024
10- **Analyis Indented by :** RO Jhansi
11- **Date of sample receipt in Lab :** 04/10/2024

Parameter	Unit	Results	Detection Range
pH, APHA24th Ed.4500-B: 2023	-	7.69	02-12
Colour, APHA 24th Ed. 2120B: 2023	Hazen	5	5-10000 Hazen
Conductivity, APHA 24th Ed. 2510B :2023	µS/cm	455	0.1-10000 µS/cm
Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	22.0	5.0 -10000 mg/l
Dissolved Solids, APHA 24th Ed. 2540 °C Total Dissolved Solids dried at 180 °C 2023	mg/l	316.0	5.0 -10000 mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	3.3	1.0 -1000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	14.72	4.0 -1000 mg/l
D.O. , APHA 24th Ed. 4500-OB Iodometric Method 2023	mg/l	6.72	0.2-14.0 mg/l

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark:* - NA

Analysed by
[Manoj Verma(JRF), Anil Kumar Sharma(SA), Krishna Rawat(JRF)]

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Water Quality Criteria

Designated-Best-Use	Class of water	Criteria
Drinking Water Source without conventional treatment but after disinfection	A	Total Coliforms Organism MPN/100ml shall be 50 or less pH between 6.5 and 8.5 Dissolved Oxygen 6mg/l or more Biochemical Oxygen Demand 5 days 20 °C 2mg/l or less
Outdoor bathing (Organised)	B	Total Coliforms Organism MPN/100ml shall be 500 or less pH between 6.5 and 8.5 Dissolved Oxygen 5mg/l or more Biochemical Oxygen Demand 5 days 20 °C 3mg/l or less
Drinking water source after conventional treatment and disinfection	C	Total coliforms Organism MPN/100ml shall be 5000 or less pH between 6 to 9 Dissolved Oxygen 4mg/l or more Biochemical Oxygen Demand 5 days 20 °C 3mg/l or less
Propagation of Wild life and Fisheries	D	pH between 6.5 to 8.5 Dissolved Oxygen 4mg/l or more Free Ammonia (as N) 1.2 mg/l or less
Irrigation, Industrial Cooling,Controlled Waste disposal	E	pH between 6.0 to 8.5 Electrical Conductivity at 25 °C micro mhos/cm Max.2250 Sodium absorption Ratio Max. 26 Boron Max. 2mg/l

Source: http://www.cpcb.nic.in/wqstandards/

REGIONAL LABORATORY JHANSI
UTTAR PRADESH POLLUTION CONTROL BOARD

Avas Vikas Colony, Talpura Yojna, Kanpur Road, Jhansi

TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-28487056/Jhansi/2024 **Date:16/10/2024**

1- **Sample Location:** Pahunj Dam
2- **District:** Jhansi
3- **Address:** Gwalior Road, Jhansi
4- **Sample Source:** River
5- **Type of sample :** Surface Water
6- **Sample Collected By :** Anil Kumar Sharma, SA
7- **Odour :** None
8- **Quantity and Packing :** 500ml Plastic Jerica, Do Bottle
9- **Date of Sample Collection :** 03/10/2024
10- **Analyis Indented by :** RO Jhansi
11- **Date of sample receipt in Lab :** 04/10/2024

Parameter	Unit	Results	Detection Range
pH, APHA24th Ed.4500-B: 2023	-	7.93	02-12
Colour, APHA 24th Ed. 2120B: 2023	Hazen	5	5-10000 Hazen
Conductivity, APHA 24th Ed. 2510B :2023	µS/cm	391	0.1-10000 µS/cm
Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	26.0	5.0 -10000 mg/l
Dissolved Solids, APHA 24th Ed. 2540 °C Total Dissolved Solids dried at 180 °C 2023	mg/l	282.0	5.0 -10000 mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	3.1	1.0 -1000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	12.88	4.0 -1000 mg/l
D.O. , APHA 24th Ed. 4500-OB Iodometric Method 2023	mg/l	7.3	0.2-14.0 mg/l

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark:* - NA

Analysed by
[Manoj Verma(JRF), Anil Kumar Sharma(SA), Krishna Rawat(JRF)]

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Regional Officer

143

Water Quality Criteria

Designated-Best-Use	Class of water	Criteria
Drinking Water Source without conventional treatment but after disinfection	A	Total Coliforms Organism MPN/100ml shall be 50 or less pH between 6.5 and 8.5 Dissolved Oxygen 6mg/l or more Biochemical Oxygen Demand 5 days 20 °C 2mg/l or less
Outdoor bathing (Organised)	B	Total Coliforms Organism MPN/100ml shall be 500 or less pH between 6.5 and 8.5 Dissolved Oxygen 5mg/l or more Biochemical Oxygen Demand 5 days 20 °C 3mg/l or less
Drinking water source after conventional treatment and disinfection	C	Total coliforms Organism MPN/100ml shall be 5000 or less pH between 6 to 9 Dissolved Oxygen 4mg/l or more Biochemical Oxygen Demand 5 days 20 °C 3mg/l or less
Propagation of Wild life and Fisheries	D	pH between 6.5 to 8.5 Dissolved Oxygen 4mg/l or more Free Ammonia (as N) 1.2 mg/l or less
Irrigation, Industrial Cooling,Controlled Waste disposal	E	pH between 6.0 to 8.5 Electrical Conductivity at 25 °C micro mhos/cm Max.2250 Sodium absorption Ratio Max. 26 Boron Max. 2mg/l

Source: http://www.cpcb.nic.in/wqstandards/

CENTRAL LABORATORY
UTTAR PRADESH POLLUTION CONTROL BOARD

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

Certificate No TC-11015

TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-28485078/CENTRAL/2024 **Date:16/10/2024**

1- **Sample Location:** Pahuj Dam

2- **District:** Jhansi

3- **Address:** Jhansi

4- **Sample Source:** Other

5- **Type of sample :** Surface Water

6- **Sample Collected By :** Anil Kumar Sharma, SA

7- **Odour :** None

8- **Quantity and Packing :** 1 LITER PLASTIC BOTTLE, MPN BOTTLE

9- **Date of Sample Collection :** 03/10/2024

10- **Analyis Indented by :** RO Jhansi

11- **Date of sample receipt in Lab :** 04/10/2024

Parameter	Unit	Results	Detection Range
Total Chromium, APHA24th Ed.3111-B: 2023	mg/l	0.0237	0.05-1000 mg/l
Copper, APHA 24th Ed. 3111-B: 2023	mg/l	ND	0.01-1000 mg/l
Cadmium, APHA 24th Ed.3111-B: 2023	mg/l	ND	0.01-1000 mg/l
Lead, APHA 24th Ed 3111B: 2023	mg/l	ND	0.09-1000 mg/l
Iron, APHA 24th Ed 3111B: 2023	mg/l	0.7767	0.05-1000 mg/l
Nickel, APHA 24th Ed 3111B: 2023	mg/l	ND	0.04-1000 mg/l
Zinc, APHA 24th Ed.3111-B: 2023	mg/l	ND	0.01-1000mg/l
Total Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	490000	<1.8 MPN/100 ml & above
Fecal Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	220000	<1.8 MPN/100 ml & above
*Manganese, APHA 24th Ed. 3500-Mg B Calculation Method 2023	mg/l	0.1922	-
*Arsenic, APHA 24th Ed. 3114-Hydride Generation AAS Method 2023	mg/l	ND	-

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark:* - NA

Analysed by
[Jyoti Tiwari (SA), Iti Singh (JRF)]

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Chief Environmental Officer
Central Laboratory

Water Quality Criteria

Designated-Best-Use	Class of water	Criteria
Drinking Water Source without conventional treatment but after disinfection	A	Total Coliforms Organism MPN/100ml shall be 50 or less pH between 6.5 and 8.5 Dissolved Oxygen 6mg/l or more Biochemical Oxygen Demand 5 days 20 °C 2mg/l or less
Outdoor bathing (Organised)	B	Total Coliforms Organism MPN/100ml shall be 500 or less pH between 6.5 and 8.5 Dissolved Oxygen 5mg/l or more Biochemical Oxygen Demand 5 days 20 °C 3mg/l or less
Drinking water source after conventional treatment and disinfection	C	Total coliforms Organism MPN/100ml shall be 5000 or less pH between 6 to 9 Dissolved Oxygen 4mg/l or more Biochemical Oxygen Demand 5 days 20 °C 3mg/l or less
Propagation of Wild life and Fisheries	D	pH between 6.5 to 8.5 Dissolved Oxygen 4mg/l or more Free Ammonia (as N) 1.2 mg/l or less
Irrigation, Industrial Cooling,Controlled Waste disposal	E	pH between 6.0 to 8.5 Electrical Conductivity at 25 °C micro mhos/cm Max.2250 Sodium absorption Ratio Max. 26 Boron Max. 2mg/l

Source: http://www.cpcb.nic.in/wqstandards/