

**BEFORE THE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI
ORIGINAL APPLICATION NO. 1062/2024**

IN THE MATTER OF:

BHANU SAHAY

.....APPLICANT

VERSUS

UNION OF INDIA & OTHERS

.....RESPONDENT(s)

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THROUGH COUNSEL



BHANWAR PAL SINGH JADON

COUNSEL FOR UTTAR PRADESH POLLUTION CONTROL BOARD

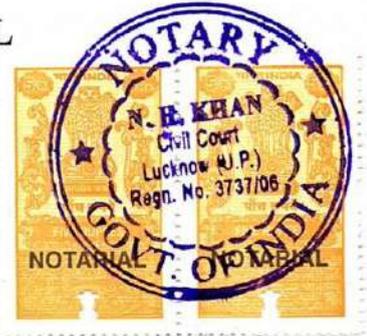
EMAIL- bhanwar09jadon@gmail.com

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DATE: 19.03.2025

PLACE: LUCKNOW

**BEFORE THE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI
ORIGINAL APPLICATION NO. 1062/2024**



IN THE MATTER OF:

BHANU SAHAY

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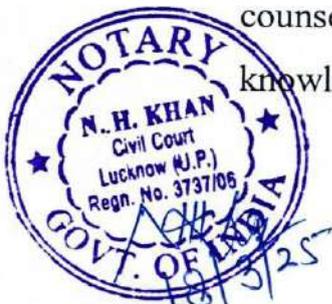
UNION OF INDIA & OTHERS

.....RESPONDENT(s)

**COMPLIANCE AFFIDAVIT ON BEHALF OF UTTAR PRADESH
POLLUTION CONTROL BOARD IN COMPLIANCE OF THE ORDER
DT. 28.11.2024 PASSED BY THE HON'BLE NATIONAL GREEN
TRIBUNAL**

I, Sanjeev Kumar Singh aged about 38 years S/o Sri Lal Sahab Singh, presently posted as Member Secretary, Uttar Pradesh Pollution Control Board (hereinafter referred as UPPCB), Lucknow do hereby solemnly affirm and state on oath as under:

1. That I, the Deponent in the above captioned matter am fully conversant with the facts of the case and am competent and authorized to swear the present affidavit.
2. That I state that the contents of the affidavit have been drafted by my counsel on my instructions and the contents of the same are true to my knowledge and nothing material has been concealed therefrom.



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3. That in the present matter, the issue is of pollution of river Pahuj, a tributary of river Yamuna has been raised. The applicant has made an allegation about discharge of sewage, throwing of solid waste & muck and encroachment upon the river bed of river Pahuj, Jhansi, UP in violation of River Ganga (Rejuvenation, Protection, and Management) Authorities Order, 2016.

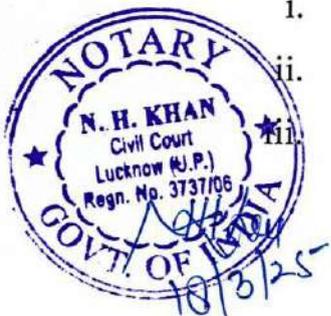
4. That the above captioned matter was last listed for hearing on 28.11.2024, wherein the Hon'ble Tribunal directed as under:

"7. Though, the joint committee has found that untreated sewage is flowing in river Pahul, drains are not tapped and the STP of 26 MLD capacity was not operational, the report does not disclose what action has been taken by UPPCB. Hence, we require the Member Secretary, UPPCB to file an affidavit disclosing the action which was taken before the submission of the report of the joint committee in respect of violation of environmental norms by local authorities and action which is now proposed after the joint committee report. UPPCB should also disclose the Water quality of river Pahuj at various locations and compliance of norms by 26 MLD STP."

5. Hence, in compliance of the aforementioned directions, the compliance affidavit on behalf UPPCB is as under.

6. That it is respectfully submitted that site inspection was earlier conducted by the Joint Committee on 03.10.2024. That during the said inspection, it was observed that the Jhansi Municipal Corporation has established a 26 MLD Sewage Treatment Plant (STP) at Lahargird village for the treatment of sewage from four drains, namely:

- i. Naya Gaon Drain,
- ii. Lahargird Bus Stand Drain,
- iii. Near PrabhuRamlal Ashram Drain, and



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iv. Rajghat Colony Drain.

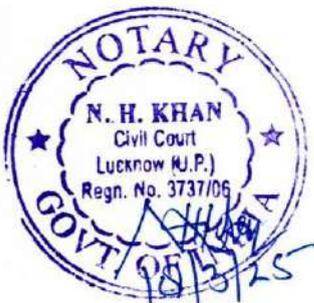
It is further submitted that the said STP became operational on 05.12.2024. However, prior to this date, untreated sewage from these 04 drains was being directly discharged into the Pahuj River. That the said Joint Committee Report is already been placed on record.

7. That the Regional Officer, UPPCB, Jhansi vide letter dated 12.03.2025 has provided the Joint Committee report dated 11.03.2025. As per the said report, in compliance of direction passed by this Hon'ble Tribunal vide order dated 28.11.2024, the Joint Committee visited the said site again on 29.01.2025 to ascertain the number of untapped minor drains discharging untreated sewage into the river. During the said inspection, the Committee identified two minor drains, namely, the drain near Jai Academy and the drain behind Ganesh Vihar Colony. That the said drains were found to be untapped and the untreated sewage is being discharged into the Pahuj River.

Copy of the Joint Committee Report dated 11.03.2025 is being annexed herewith as **ANNEXURE-1**.

8. It is further submitted that during the above mentioned joint committee inspection dated 29.01.2025, UPPCB has collected water samples from the following locations:

- i. The 26 MLD Sewage Treatment Plant (STP), Lahargird;
- ii. The aforementioned two minor drains, namely, the drain near Jai Academy and the drain behind Ganesh Vihar Colony; and
- iii. The Pahuj River at the following locations:
 - Village Baidora, District Jhansi;
 - Downstream of Dongri Dam;
 - Gadiya Weir, near Village Gadiya, Tehsil and District Jhansi;



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- Dhobi Ghat, Jhansi; and
- Pahuj (Simradha) Dam

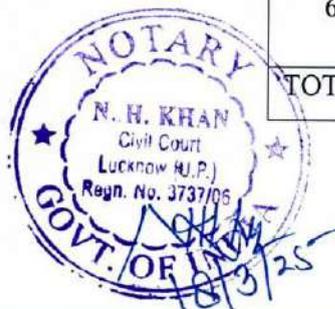
Copies of the Laboratory Report are being annexed herewith as **ANNEXURE-2(Colly)**.

9. That a show cause notice dt. 25.02.2025 was issued by the UPPCB to the Municipal Corporation for imposition of Environmental Compensation of Rs. 16.10 Crore. The said notice refers to the order dated 21.05.2020 passed by the Hon'ble National Green Tribunal in O.A. No. 593/2017 (Environmental Protection Committee vs. Union of India & Others), wherein the following penalty structure was prescribed:

- Rs. 5 lakh per month per drain for failure to undertake in-situ sewage treatment.
- Rs. 5 lakh per Sewage Treatment Plant (STP) for failure to initiate the STP setup.

The notice further stated that the following drains remained untreated for the default period mentioned hereinbelow, thereby attracting the prescribed penalty:

Sl. No.	Drain Name	Default Period	Compensation Amount
1	Naya Gaon Drain	01.07.2020 to 05.12.2024 (53 months)	Rs. 265 lakh
2	Lahargird Bus Stand Drain	01.07.2020 to 05.12.2024 (53 months)	Rs. 265 lakh
3	Near Prabhu Ramlal Ashram Drain	01.07.2020 to 05.12.2024 (53 months)	Rs. 265 lakh
4	Rajghat Colony Drain	01.07.2020 to 05.12.2024 (53 months)	Rs. 265 lakh
5	Near Jay Academy Drain	01.07.2020 to 29.01.2025 (55 months)	Rs. 275 lakh
6	Behind Ganesh Vihar Colony Drain	01.07.2020 to 29.01.2025 (55 months)	Rs. 275 lakh
TOTAL			16.10 Cr



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That since the aforementioned four drains remained untreated until 05.12.2024 and two additional drains continue to remain untreated, the cumulative environmental compensation amounts to Rs. 16.10 Crore.

Therefore, vide the said notice, the Municipal Corporation, Jhansi, was directed to submit its response within 15 days, failing which the environmental compensation of Rs. 16.10 Crore would be imposed. Thereafter in continuation of the aforesaid show cause notice, Environmental Compensation of Rs. 16.10 Crore has been imposed on 18.03.2025 against Municipal Corporation, Jhansi.

A Copy of the Environmental Compensation letter dt. 18.03.2025 is being annexed herewith as **ANNEXURE-3**.

10. That in light of the above, the UPPCB has ensured necessary compliance in strict adherence to the directions issued by the Hon'ble Tribunal

11. Hence, the present affidavit is being submitted for the kind perusal of this Hon'ble Tribunal. It is prayed that the same be taken on record.



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DEPONENT

VERIFICATION

Verified at Lucknow on this 16th day of March, 2025, that the contents of the above affidavit from paragraphs 1 to 11 are believed to be true and correct to the best of my knowledge and belief. No part of it is false and nothing material has been concealed therefrom.

Sworn and Verified
Before me

Attest
10/3/25
NOORUL HASNAIN KHAN
Advocate & Notary
Civil Court, Lucknow
Registration No. 3737/06

I know & identify the deponent/executive
who has Signed/Put his T.t. before me

Attest
Advocate
(A.N. Khaham)
U.P. En. No. 786/84

sk

DEPONENT



क्षेत्रीय कार्यालय उ. प्र. प्रदूषण नियंत्रण बोर्ड
Regional Office, U.P. Pollution Control Board

संदर्भ सं०
Ref. No. 844/0A-1062/25

दिनांक... 12.03.20 25
Date.....20

सेवा मे,

मुख्य पर्यावरण अधिकारी (वृत्त-2),
उ०प्र० प्रदूषण नियंत्रण बोर्ड,
लखनऊ।

विषय : माननीय राष्ट्रीय हरित अधिकरण मे विचाराधीन ओ०ए० संख्या-1062/2024 भानू सहाय बनाम यूनियन ऑफ इण्डिया एवं अन्य मे पारित आदेश दिनांक-28.11.2024 के अनुपालन मे संयुक्त समिति द्वारा किये गये निरीक्षण की आख्या प्रेषित किये जाने के सम्बन्ध मे।

महोदय,

कृपया उपरोक्त विषयक संदर्भ ग्रहण करने का कष्ट करे। अवगत कराना है कि माननीय राष्ट्रीय हरित अधिकरण मे विचाराधीन ओ०ए० संख्या-1062/2024 भानू सहाय बनाम यूनियन ऑफ इण्डिया एवं अन्य मे पारित आदेश दिनांक-28.11.2024 के अनुपालन मे गठित संयुक्त समिति द्वारा प्रश्नगत क्षेत्र का निरीक्षण दिनांक-29.01.2025 को किया गया। संयुक्त समिति द्वारा किये गये निरीक्षण दिनांक-29.01.2025 की आख्या पत्र के साथ संलग्न कर आपके समक्ष अवलोकनार्थ एवं अग्रिम आवश्यक कार्यवाही हेतु सादर प्रेषित।
संलग्नक-उपरोक्तानुसार।

भवदीय,


(इमरान अली)
क्षेत्रीय अधिकारी

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 28.11.2024, in Original Application No. 1062/2024 Bhanu Sahay Versus Union of India & Ors., has directed to ascertain the number of minor drains in the area concerned. The operative part of the order is as follows: -

".....5. In the report, though, the joint committee has disclosed about four major drains carrying untreated sewage to the river, but there is no disclosure about minor drains. Hence, joint committee is required to ascertain the number of minor drains in the area concerned, which are untapped and discharging untreated sewage into the river....."

Copy of Hon'ble NGT order dated 28.11.2024 is annexed herewith as **Annexure-1.**

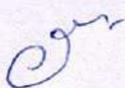
2. In order to comply with directions of the Hon'ble NGT, meeting of the committee members was conveyed through hybrid mode on 20.12.2024.

During meeting, following officials were present:

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.



Runa
11/05/2025



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

2.5. Shri Imraan Ali, Regional Officer, UPPCB, Jhansi.

It was decided in the meeting to conduct a survey of the area concerned for the identification of minor drains discharging untreated sewage into River Pahuj.

B. Identification of minor drains:

3. A survey of the area concerned was carried out on 03.01.2025 by Municipal Corporation, Jhansi. As per the survey conducted by Municipal Corporation Jhansi, fifteen (15) minor drains were identified in the concerned areas.
4. The Joint Committee cross-verified the major and minor drains through spot verification. It was found that there are 15 minor drains in total, out of which 13 minor drains are connected to STP. However, there are still 2 minor drains namely near Jai Academy Nala and Nala Behind Ganesh Vihar Colony from which untreated waste is being discharged into Pahuj River.
5. Details of 13 minor drains connected to STP are as follows:

Sl. No.	Sewage Pumping Station (SPS)	Major drain	Connected Minor drains
1.	SPS-1	Naya Gaon Naia	1. Sidheswar Nagar (Partial)
			2. ITI College
2.	SPS-2	Prabhu Ramlal Ashram Nala	3. Sidheswar Nagar (Partial)

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11/03/2025

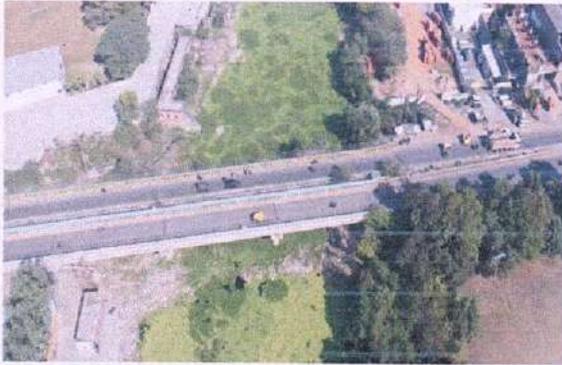
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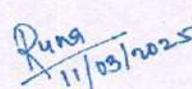
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			4. Laher ki Mata
3.	SPS-3	Lahar Grid Bus Stop Nala	5. Rajghat Colony
			6. Panchayat Bhawan Colony
4.	SPS-4	Rajghat Colony Nala	7. Gadhiya Pathak
			8. Khatibaba Isaitola
			9. Summer Nagar
			10. Sangam Vihar
			11. Surya Puram
			12. K.K. Puri
			13. Awas Vikas Colony

6. Details of two untapped minor drains are as follows:

	
Jai Academy Nala	Nala Behind Ganesh Vihar Colony

7. Samples were collected from the aforementioned two untapped minor drains. Analysis results are presented below:



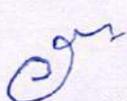
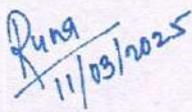

S.No	Parameter	Unit	Results		Remarks
			Drain Near Jai Academy, Shivpuri Road, jhansi	Drain Behind Ganesh Vihar Colony, Shivpuri Road, jhansi	
1.	pH	-	7.07	6.87	Results show that untreated sewage discharging into river pahuj.
2.	Colour	Hazen	10	15	
3.	Conductivity	$\mu\text{S/cm}$	1463	1539	
4.	TSS	mg/l	162	115	
5.	TDS	mg/l	1260	1121	
6.	BOD	mg/l	92.5	87.5	
7.	COD	mg/l	310.4	271.6	
8.	Total Chromium	mg/l	ND	ND	
9.	Copper	mg/l	ND	ND	
10.	Cadmium	mg/l	ND	ND	
11.	Lead	mg/l	ND	ND	
12.	Iron	mg/l	0.1550	0.1550	
13.	Nickel	mg/l	ND	ND	
14.	Zinc	mg/l	0.1661	0.1661	
15.	Total Coliform	MPN/100 ml	4900000	3900000	
16.	Fecal Coliform	MPN/100 ml	2300000	1700000	
17.	Manganese	mg/l	0.1169	0.1169	
18.	Arsenic	mg/l	0.007	0.003	

Analysis reports are annexed as Annexure No.2

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11/03/2025

- i. Municipal Corporation Jhansi needs to tap the remaining two untapped minor drains (Near Jai Academy Nala and Nala behind Ganesh Vihar Colony) and sewage should be treated through STP.
- ii. It was informed by Municipal Commissioner Jhansi that the DPR of the tapping of these two minor drains has been prepared and sanctioned. The tender process has been initiated and tapping will be completed as soon as possible. (Annexure No.3)

Signature of the Joint Committee Officials.

				
Imraan Ali	Runa Oraon	Dr. R B Lal	Satya Prakash	Avinash Kumar
Regional Officer, UPPCB, Jhansi	Scientist 'E' CPCB, RD Lucknow	Scientist 'F' MoEF&CC, RO, Lucknow	Municipal Commissioner Jhansi	District Magistrate Jhansi

ANNEXURE 1:**BEFORE THE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI**

Original Application No. 1062/2024

Bhanu Sahay

Applicant

Versus

UOI & Ors.

Respondent(s)

Date of hearing: 28.11.2024

**CORAM: HON'BLE MR. JUSTICE PRAKASH SHRIVASTAVA, CHAIRPERSON
HON'BLE MR. JUSTICE ARUN KUMAR TYAGI, JUDICIAL MEMBER
HON'BLE DR. A. SENTHIL VEL, EXPERT MEMBER**

Applicant: None

Respondents: Mr. Gaurav Agarwal & Mr. Sarthak Kalra, Advs. for Jhansi Nagar Nigam
Ms. Sthavi Asthana, Adv. for UPPCB**ORDER**

1. In this original application, issue of pollution of river Pahuj, a tributary of river Yamuna has been raised. Application has made allegation about discharge of sewage, throwing of solid waste & muck and encroachment upon the river bed of river Pahuj, Jhansi, UP in violation of River Ganga (Rejuvenation, Protection, and Management) Authorities Order, 2016 .
2. The tribunal by order dated 16.08.2024, while issuing notice to respondents, had constituted the joint committee with a direction to the committee to inspect the site where the river is flowing in District Jhansi, ascertain the source of pollution, take water samples and get the sample analysis done, submit the report and suggest remedial measures.
3. The report of the joint committee dated 20.11.2024 has been filed through UPPCB. The joint committee visited the site in terms of the direction of the Tribunal and found that the major source of pollution of

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river Pahuj is sewage generated from the city through four major drains, details of which are as follows:-

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

4. The report further states that during the joint committee visit, all drains carrying untreated sewage were discharging sewage into river Pahuj. Affidavit of UPPCB dated 27.11.2024 also states in paragraph 5 that all drains carrying untreated sewage were discharging sewage into river Pahul.

5. In the report, though, the joint committee has disclosed about four major drains carrying untreated sewage to the river, but there is no disclosure about minor drains. Hence, joint committee is required to ascertain the number of minor drains in the area concerned, which are untapped and discharging untreated sewage into the river.

6. The report of the joint committee also discloses about the major drains and that tapping of the drain is under process at all four locations. The joint committee during the inspection also found that river Pahuj was covered with water hyacinth at several locations and that in the dhobi ghat, worship material by devotees/public was found to be littered. The

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observation of the joint committee is that the water of river Pahuj is used as a source of drinking water. The joint committee has proposed the following remedial measures:-

"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 observe 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."*

7. Though, the joint committee has found that untreated sewage is flowing in river Pahul, drains are not tapped and the STP of 26 MLD capacity was not operational, the report does not disclose what action has been taken by UPPCB. Hence, we require the Member Secretary, UPPCB



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11/03/2025



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to file an affidavit disclosing the action which was taken before the submission of the report of the joint committee in respect of violation of environmental norms by local authorities and action which is now proposed after the joint committee report. UPPCB should also disclose the Water quality of river Pahuj at various locations and compliance of norms by 26 MLD STP.

8. Learned Counsel appearing for Municipal Corporation, Jhansi submits that STP is now functional and drains are connected. Hence, we grant four weeks' time to respondent no.11-Commissioner, Municipal Corporation, Jhansi to file response affidavit disclosing completion of tapping of all the drains, commissioning and stabilization of STP, its performance and final mode of disposal of treated sewage.

9. It will be open to Counsel for the applicant to file rejoinder within two weeks thereafter.

10. List on 21.03.2025.

Prakash Shrivastava, CP

Arun Kumar Tyagi, JM

Dr. A. Senthil Vel, EM

November 28, 2024
Original Application No. 1062/2024
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11/03/2025

ANNEXURE 2:

**CENTRAL LABORATORY
UTTAR PRADESH POLLUTION CONTROL BOARD**
Building, No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

**TEST REPORT: WATER LABORATORY(SURFACE WATER)**

Ref no-30263329/CENTRAL/2025

Date:18/02/2025

- 1- Sample Location: Drain Near Jat Academy, Shivpuri Road, Jhansi
- 2- District: Jhansi
- 3- Address: Shivpuri Road, Jhansi
- 4- Sample Source: Drain
- 5- Type of sample : Surface Water
- 6- Sample Collected By : Rishi Kumar Kushwaha , LA & Manoj Varma , JRF
- 7- Odour : -
- 8- Quantity and Packing : 2 Litre Plastic Jerrycan, MPN Bottle
- 9- Date of Sample Collection : 29/01/2025
- 10- Analysis Indented by : RO Jhansi
- 11- Date of sample receipt in Lab : 30/01/2025

Parameter	Unit	Results	Detection Range
Total Chromium, APHA 24th 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	0.1550	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	0.1661	0.01-1000mg/l
Total Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	4900000	<1.8 MPN/100 ml & above
Fecal Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	2300060	<1.8 MPN/100 ml & above
*Manganese, APHA 24th Ed. 3500-Mg B Calculation Method 2023	mg/l	0.1169	-
*Arsenic, APHA 24th Ed. 3114-Hydride Generation AAS Method 2023	mg/l	0.007	-

*Non-NABL Parameters.

Note: 1. The results in the Test Report refer only to the items stated. 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.

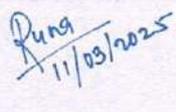
Remark: * - NA

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

Authorized by
Digitally signed by Reeta Keshav
Date: 2025.02.18 15:33:56 +05:30
Reeta Keshav (ASO)

IMRAN AHMAD KHAN
Digitally signed by IMRAN AHMAD KHAN
Date: 2025.02.18 15:33:56 +05:30
**Chief Environmental Officer
Central Laboratory**

1 of Page 2




contd.



**REGIONAL LABORATORY JHANSI
UTTAR PRADESH POLLUTION CONTROL BOARD**

Avas Vikas Colony, Talpura Yojna, Kanpur Road, Jhansi

TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-30263338/Jhansi/2025

Date:06/02/2025

- 1- Sample Location: Drain Near Jai Academy, Shivpuri Road, Jhansi
- 2- District: Jhansi
- 3- Address: Shivpuri Road, Jhansi
- 4- Sample Source: Drain
- 5- Type of sample : Surface Water
- 6- Sample Collected By : Rishi Kumar Kushwaha , LA & Manoj Varma , JRF
- 7- Odour : Foul
- 8- Quantity and Packing : 2 Litre Plastic Jerrycan
- 9- Date of Sample Collection : 29/01/2025
- 10- Analysis Indented by : RO Jhansi
- 11- Date of sample receipt in Lab : 31/01/2025

Parameter	Unit	Results	Detection Range
pH, APHA 24th Ed.4500-B. 2023		7.07	02-12
Colour, APHA 24th Ed. 2120B. 2023	Hazen	10	5-10000 Hazen
Conductivity, APHA 24th Ed. 2510B. 2023	µS/cm	1463	0.1-10000 µS/cm
Suspended Solids, APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	162.0	5.0 -10000 mg/l
Dissolved Solids, APHA 24th Ed. 2540 °C Total Dissolved Solids dried at 180 °C 2023	mg/l	1260.0	5.0 -10000 mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44). 1993 Bio 2023	mg/l	92.5	1.0 -1000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	310.4	4.0 -1000 mg/l

*Non-NABL Parameters.

Note : 1. The results in the Test Report indicate 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
[Krishna Rawat(JRF), Manoj
Verma(JRF), Rishi Kumar Kushwaha
(LA)]

Authorized by
Madhavi
Kamalvanshi
Dr Madhvi Kamalvanshi (SO)

Digitally signed by
Imraan Ali
Date: 2025.02.15
14:53:20 +05'30'
Regional Officer

1 of Page 2

Runa
11/05/2025

contd.



CENTRAL LABORATORY
UTTAR PRADESH POLLUTION CONTROL BOARD
 Building, No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010



TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-30263300/CENTRAL/2025

Date:18/02/2025

- 1- **Sample Location:** Drain Behind Ganesh Vihar Colony, Shivpuri Road, Jh
- 2- **District:** Jhansi
- 3- **Address:** Shivpuri Road, Jhansi
- 4- **Sample Source:** Drain
- 5- **Type of sample :** Surface Water
- 6- **Sample Collected By :** Rishi Kumar Kushwaha , LA & Manoj Varma , JRF
- 7- **Odour :** Foul
- 8- **Quantity and Packing :** 2 Litre Plastic Jerrycan, MPN Bottle
- 9- **Date of Sample Collection :** 29/01/2025
- 10- **Analysis Indented by :** RO Jhansi
- 11- **Date of sample receipt in Lab :** 30/01/2025

Parameter	Unit	Results	Detection Range
Total Chromium, APHA 24th 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	0.1550	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	0.1661	0.01-1000mg/l
Total Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	3900000	<1.8 MPN/100 ml & above
Fecal Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	1700000	<1.8 MPN/100 ml & above
*Manganese, APHA 24th Ed. 3500-Mg B Calculation Method 2023	mg/l	0.1169	-
*Arsenic, APHA 24th Ed. 3114-Hydride Generation AAS Method 2023	mg/l	0.003	-

*Non-NABL Parameters.

Note: 1. The results in the Test Report refer only to the items tested. 2. The report shall not be reproduced or copy 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
 Reeta Keshav
Digitally signed by Reeta Keshav
 Date: 2025.02.18 12:41:16 +0530
 Reeta Keshav (ASO)

IMRAN
 AHMAD KHAN
 Chief Environmental Officer
 Central Laboratory
Digitally signed by IMRAN AHMAD KHAN
 Date: 2025.02.18 12:41:16 +0530

1 of Page 2

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Rung
11/03/2025



REGIONAL LABORATORY JHANSI
UTTAR PRADESH POLLUTION CONTROL BOARD
 Avas Vikas Colony, Talpura Vojna, Kanpur Road, Jhansi

TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-30263319/Jhansi/2025

Date:06/02/2025

- 1- **Sample Location:** Drain Behind Ganesh Vihar Colony, Shivpuri Road, Jh
- 2- **District:** Jhansi
- 3- **Address:** Shivpuri Road, Jhansi
- 4- **Sample Source:** Drain
- 5- **Type of sample :** Surface Water
- 6- **Sample Collected By :** Rishi Kumar Kushwaha , LA & Manoj Varma , JRF
- 7- **Odour :** Foul
- 8- **Quantity and Packing :** 2 Litre Plastic Jerrycan
- 9- **Date of Sample Collection :** 29/01/2025
- 10- **Analysis Indented by :** RO Jhansi
- 11- **Date of sample receipt in Lab :** 31/01/2025

Parameter	Unit	Results	Detection Range
pH, APHA24th Ed.4500-B: 2023	-	6.87	02-12
Colour, APHA 24th Ed. 2120B: 2023	Hazen	15	5-10000 Hazen
Conductivity, APHA 24th Ed. 2510B :2023	µS/cm	1539	0.1-10000 µS/cm
Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	115.0	5.0 -10000 mg/l
Dissolved Solids, APHA 24th Ed. 2540 °C Total Dissolved Solids dried at 180 °C 2023	mg/l	1121.0	5.0 -10000 mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	87.5	1.0 -1000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	271.6	4.0 -1000 mg/l

*Non-NABL Parameters.

Note :- 1. The results in the Test Report valid only in the scope stated. 2. This 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
 [Krishna Rawat(JRF), Manoj
 Verma(JRF), Rishi Kumar Kushwaha
 (LA)]

Authorized by
 Madhavi
 Kamalvanshi
 Dr Madhvi Kamalvanshi (SO)

Digitally signed by
Imraan Ali
 Date: 2025.02.15
 14:55:54 +05:30
 Regional Officer

[Handwritten Signature]

[Handwritten Signature]
 Puna
 11/03/2025

[Handwritten Signature]

[Handwritten Signature]

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ANNEXURE 3:

**अवस्थापना विकास निधि के अन्तर्गत प्राप्त धनराशि की स्वीकृति हेतु शासन द्वारा
गठित समिति की बैठक की कार्यवाही**

नगर विकास अनुभाग-9 के शासनादेश सं० 321/नौ-9-19-153ज/200 दिनांक 27.02.2019 के अनुक्रम में 15वें वित्त आयोग एवं अवस्थापना विकास निधि के अन्तर्गत प्राप्त होने वाली धनराशि के उपयोग हेतु शासन के निर्देशों के अनुपालन में निम्नांकित समिति गठित की गई :-

1. महापौर	-	अध्यक्ष
2. जिलाधिकारी	-	सदस्य
3. नगर आयुक्त	-	सचिव/संयोजक
4. अधीक्षण अभियन्ता, लोक निर्माण विभाग	-	सदस्य
5. उपाध्यक्ष, विकास प्राधिकरण	-	सदस्य

उक्त बैठक मा० महापौर महोदय की अध्यक्षता में दिनांक 13.02.2025 को अपराह्न 3.00 बजे नगर निगम कार्यालय में सम्पन्न हुई जिसमें श्री बिहारीलाल आर्य, मा० महापौर जी की अध्यक्षता में निम्नांकित अधिकारीगण उपस्थित रहें :-

1. जिलाधिकारी, झाँसी।
2. नगर आयुक्त, सचिव/संयोजक।
3. उपाध्यक्ष, झाँसी विकास प्राधिकरण, झाँसी।
4. अधीक्षण अभियन्ता, लोक निर्माण विभाग, झाँसी।

अवस्थापना विकास निधि से प्राप्त धनराशि का विवरण

क्र० सं०	शासनादेश सं०	प्राप्त धनराशि (रु० लाख में)
1.	8/5400/139(2)/02प्रति०अति०रटा०रु०/2024-25 दिनांक 06.12.2024	496.44
	योग-	496.44

उक्त के सम्बन्ध में दिये गये निर्देश के क्रम में अवस्थापना विकास निधि से प्राप्त धनराशि के सापेक्ष कार्यों की स्वीकृति हेतु शासन द्वारा गठित समिति के समक्ष कार्यों की चयन हेतु निम्नलिखित प्रस्ताव प्रस्तुत है :-

एजेण्डा बिन्दु- 1

क्र०सं०	कार्य का नाम	अनुमानित व्ययानुमान (लाख में) जी०एस० टी० सहित	अभ्युक्ति
1	2	3	4
1	पहूज नदी में गिरने वाले दो नालों को एस०पी०एस०-4 के नाले में जोड़ने का कार्य।	200.00	उक्त परियोजना का उद्देश्य वर्तमान में पहूज नदी में गिरने वाले 02 नाले (गणेश विहार कॉलोनी के पीछे एवं जय एकेडमी स्कूल के सामने) को एस०पी०एस०-4 के नाले में जोड़े जाने का कार्य किया जाना प्रस्तावित है। पहूज नदी में गिरने वाला प्रथम नाला, गणेश विहार कॉलोनी के पीछे को ग्रेविटी के माध्यम से जय एकेडमी स्कूल तक लाकर दूसरे नाले को जोड़ते हुए दोनों नालों को सम्पन्न का निर्माण

Signature

Puna
11/03/2025

Signature

Signature

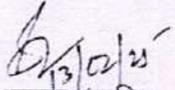
Signature

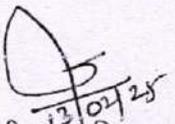
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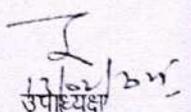
		कर, पम्पिंग के माध्यम से एस0पी0एस0-4 के नाले में जोड़ा जाना प्रस्तावित है। उक्त कार्य उपरान्त वर्तमान में पहूज नदी में गिरने वाले 02 नाले को एस0पी0एस0-4 के नाले में जोड़ने के उपरान्त दूषित जल को 26 एम0एल0डी0 एस0टी0पी0 के माध्यम से शोधित कर पुनः पहूज नदी में छोड़ा जायेगा।
	कुल:-	200.00

बैठक में चर्चा उपरान्त उक्त प्रस्ताव का समिति द्वारा सर्व सम्मति से अनुमोदन किया गया तथा शेष धनराशि का प्रस्ताव अग्रिम बैठक में प्रस्तुत करने के निर्देश दिये गये। अध्यक्ष महोदय द्वारा यह भी निर्देश दिये गये कि अवस्थापना विकास निधि की गार्डेड लाईन्स के अनुसार कार्य कराना सुनिश्चित करें, वित्तीय नियमों का पालन करते हुए ई-निविदा/जैम पोर्टल के माध्यम से कार्य कराया जायेगा, नगर आयुक्त, नगर निगम, झाँसी द्वारा यह सुनिश्चित किया जायेगा कि उक्त कार्य वर्तमान में किसी अन्य योजना में प्रस्तावित नहीं हैं एवं प्रस्तावित कार्य पिछले 05 वर्ष में नहीं किया गया हो। साथ ही कार्य की उच्चकोटि की गुणवत्ता सुनिश्चित की जायेगी, कार्य स्थल पर कार्य प्रारम्भ होने से पहले सक्षम अधिकारी की मौजूदगी में फोटोग्राफ ऐसे सीमा-चिन्ह (Landmark)से ली जाये, ताकि बाद में कार्य पूर्ण होने के उपरान्त जगह प्रमाणित हो सकें, कार्य के दौरान एवं कार्य पूर्ण होने पर Same Landmark की फोटो पत्रावली में प्रस्तुत की जायें, कार्य की समाप्ति के उपरान्त कार्य स्थल की Same Landmark की सक्षम अधिकारी के साथ सत्यापनकर्ता अधिकारी के साथ लिया गया फोटोग्राफ भी पत्रावली में रहें, कार्य स्थल पर जनसामान्य की जानकारी हेतु स्थाई बोर्ड स्थापित किया जाये, जिसमें कार्य से सम्बन्धित विवरण अंकित रहें, यथा योजना का नाम, कार्य की लागत, कार्यदायी संस्था का नाम आदि भी प्रस्तुत किया जाए।

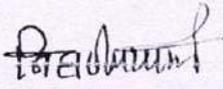
उपरोक्त के सम्बन्ध में निविदा आमंत्रित कर स्वीकृति से सम्बन्धित कार्यवाही सम्पन्न कराते हुए त्वरित गति से गुणवत्तापूर्वक कार्य सम्पादित करायेगें। उक्त स्वीकृति धनराशि के सापेक्ष अधिक व्यय, राज्य वित्त आयोग/नगर निगम निधि से वहन किया जायेगा। अपरिहार्य कारणों से किसी कार्य को पुनरीक्षित/स्थल परिवर्तन करने का अधिकार मा0 अध्यक्ष महोदय की अनुमति से नगर आयुक्त, नगर निगम, झाँसी को होगा।


नगर आयुक्त/सचिव
संयोजक नगर निगम, झाँसी।

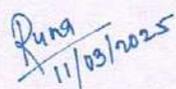

अधीक्षक अभियन्ता
लोक निर्माण विभाग, झाँसी।


उपअधीक्षक
झाँसी विकास प्राधिकरण, झाँसी।


सिीलप्रधिकारी
झाँसी।


महापौर
झाँसी नगर निगम, झाँसी।




Rung
11/03/2025







contd.

सहायक अभियन्ता / अधि० अभियन्ता / मुख्य अभियन्ता / नगर आयुक्त महोदय

कृपया दिये गये निर्देश के क्रम में झाँसी नगर निगम, झाँसी में पात्र ठेकेदारों से उनकी पंजीकरण सीमा तक प्रतिशत आधार दरों पर ई-निविदा पद्धति से ई-टेंडरिंग की बेवसाइट <http://etender.up.nic.in> के माध्यम से निम्नलिखित टेंडर शिड्यूल के अनुसार निविदा आमंत्रित की जाती है। प्रतिभूमि की धनराशि एवं निविदा प्रपत्र मूल्य की धनराशि बेवसाइट <http://jnnjhansi.procure247.com> के माध्यम से ऑनलाइन जमा की जायेगी :-

क्र०सं०	विवरण	प्रारम्भ दिनांक एवं समय	अन्तिम दिनांक एवं समय
1-	निविदा देखने/डाउनलोड/खरीदनेकी तिथि	28.02.2025 3.00 PM	21.03.2025 3:00 PM
2-	बिड समाप्ति की तिथि एवं समय	-	21.03.2025 3:00 PM
3-	बिड खोलने की तिथि एवं समय	21.03.2025 3:30 PM	

कार्य का विवरण

क्र०सं०	कार्य का नाम	अनुमानित लागत	निविदा प्रपत्र का मूल्य	प्रतिभूमि की धनराशि	कार्य पूर्ण होने की अवधि	ठेकेदार का श्रेणी
1.	पहुज नदी में गिरने वाले दो नालों को एस०पी०एस०-4 के नाले में जोड़ने का कार्य।	17073171.00	17075.00+18.00% GST	1053700.00	छ: माह	ए श्रेणी

नोट-

- निविदा से सम्बन्धित नियम व शर्तें किसी भी कार्य दिवस में अधिशासी अभियन्ता कार्यालय में देखी जा सकती है।
- कार्यों से सम्बन्धित निविदा सूचना एवं शर्तें नगर निगम, झाँसी की बेवसाइट www.jnnjhansi.com में देखी जा सकती है।
- निविदादाता को <http://etender.up.nic.in> में ई-टेंडर में पंजीकृत होना है।
- पंजीकृत ठेकेदार अपनी श्रेणी के अलावा एक श्रेणी नीचे तक का कार्य लेने के लिए अनुमत्य होगा।
- ई-टेंडरिंग में किसी प्रकार का व्यवधान उत्पन्न होने की स्थिति में परिवर्तन अथवा पूर्व की भांति मैनुअल मांगे जाने का अधिकार नगर आयुक्त, नगर निगम, झाँसी में निहित होगा।
- कार्य को पूर्ण करने की समयावधि वर्षा ऋतु को शामिल करते हुए वर्णित है।
- अपराधिक रिकार्ड वाले निविदादाता को निविदा प्रक्रिया में भाग लेने की अनुमति नहीं होगी।
- कोई भी निविदादाता जो स्टेट बार काउन्सिल में पंजीकृत है वह निविदा प्रक्रिया में भाग नहीं ले सकेगा।
- प्रत्येक निविदादाता रू० 100/- के नॉन-जुडिशियल स्टाम्प पेपर पर सभी सूचनाएं सही होने का प्राप्ति-पत्र सफल कराना अनिवार्य होगा।
- प्रतिभूमि की धनराशि एवं निविदा प्रपत्र मूल्य की धनराशि <http://jnnjhansi.procure247.com> के माध्यम से जमा किया जाना अनिवार्य होगा।
- डिफेक्ट लायबिलिटी की अवधि लोक निर्माण विभाग द्वारा दाय की गयी अवधि के अनुसार होगी।
- कार्य स्वीकृत होने के पश्चात् कार्य प्रारम्भिक फोटो, कार्य प्रगति की फोटो एवं कार्य समाप्ति की फोटो पदावली में लगाया जाना अनिवार्य होगा।
- शासनादेश सं० 11593/नौ-5-2021-142सा/2021 नगर विकास अनुभाग-5 दिनांक 07.01.2022 के अनुसार निर्माण कार्यों में परफोरमेन्स सिक्योरिटी ली जायेगी। (प्राप्त निविदा की लागत कार्य हेतु अनुमानित लागत से 10 प्रतिशत से नीचे प्राप्त हुई हो तो उस दशा में प्रथम 10 प्रतिशत तक के लिए परफोरमेन्स सिक्योरिटी 3 प्रतिशत ही रहेगी परन्तु उसके पश्चात् प्रत्येक 1 प्रतिशत नीचे दर हेतु 0.5 प्रतिशत अतिरिक्त परफोरमेन्स सिक्योरिटी जमा कराया जाये।)
- जी०एस०टी० के नियमों/शासनादेश के अनुसार निर्धारित कटौती की जायेगी।
- कार्य में प्रयुक्त सामग्री की जांच समय-समय पर परीक्षणशाला से करानी होगी। जांच रिपोर्ट में यदि कोई मानक के विपरीत पायी जाती है तो सम्बन्धित कार्य को तोड़कर पुनः ठेकेदार द्वारा हर्ज-खर्च पर ठीक किया जाना अनिवार्य होगा तथा इस कार्य में कोई अतिरिक्त भुगतान नगर निगम, झाँसी द्वारा नहीं किया जायेगा।
- शासनादेश सं० 3890/नौ-5-19-149सा/2019 दिनांक 20.09.2019 के अनुसार न्यूनतम निविदादाता का यदि पूर्व से नगर निगम, झाँसी में पंजीकरण नहीं है तो उन्हें पंजीकरण नियमावली/शर्तों के अनुसार पंजीकरण कराना अनिवार्य होगा।
- निविदा खोलने की तिथि में अगर अवकाश होता है तो निविदा अगले दिवस में खोली जायेगी।
- ई-निविदा में कोई भी संशोधन/परिमार्जन/परिवर्तन की सूचना को बेवसाइट पर ही अपलोड कर प्रकाशित किया जायेगा।
- ठेकेदार/फर्म के किये गये कार्यों की परफोरमेन्स के आधार पर प्रश्नगत कार्य की निविदा निरस्त करने का अधिकार नगर आयुक्त, नगर निगम, झाँसी में निहित होगा।
- निविदा दरें प्रस्तुत करने की अंतिम तिथि से 90 नब्बे दिनों की अवधि के लिए स्वीकृति के लिए मान्य रहेगी। एक बार सबमिट की गई निविदा दरें सबमिट करने की अंतिम तिथि के बाद वापस नहीं लिया जा सकता है।
- किसी भी राज्य/केंद्र सरकार से किसी भी सेवानिवृत्ति राजपत्र अधिकारी (एक वर्ष के भीतर सेवानिवृत्त) को सरकार की अनुमति के बिना ठेकेदार प्रतिष्ठान में काम करने की अनुमति नहीं है। यह अनुबंध रद्द करने के लिए उत्तरदायी है, यदि ठेकेदार या उसके किसी

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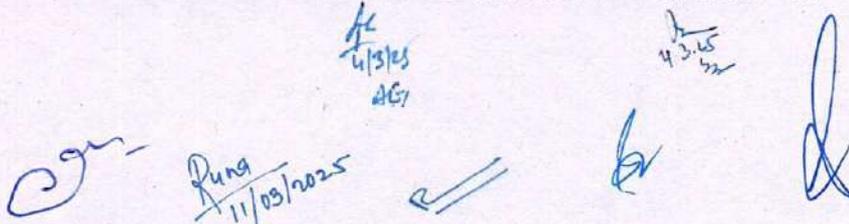
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- कर्मचारी को किसी भी समय ऐसा व्यक्ति मिल जाता है, जिसने ठेकेदार की सेवा में निविदा प्रस्तुत करने से पहले सरकार की अनुमति नहीं ली थी। इस विभाग के अन्य सेवानिवृत्त कर्मचारी के लिए भी यही शर्त लागू होगी।
22. निविदा दस्तावेज, और निविदादाता योजना, विनिर्देशों, आरेखण की पात्रता मानदंड से सम्बन्धित अन्य विवरण, किए जाने वाले कार्य के विभिन्न वर्गों की मात्रा की अनुसूची और अनुबंध के नियम और शर्तों का पालन करने के लिए ठेकेदार द्वारा अनुपालन किया जा सकता है। बेवसाइट से लोड किया जा सकता है। <https://etender.up.nic.in>
 23. किसी भी आपराधिक गतिविधि के लिए नाननीय न्यायालय द्वारा दंडित किसी भी निविदादाता को निविदा प्रक्रिया में भाग लेने की अनुमति नहीं है।
 24. शासनादेश सं० 24वी0आईपी0(1)/नौ-5-2017-120बजट/2013 नगर विकास अनुभाग-5 दिनांक 24.08.2017 के क्रम में निर्मित किये जाने वाली सड़क को निर्माण पूर्ण होने के पश्चात् 5 वर्ष तक अनुसूचना/रख-रखाव की जिम्मेदारी सम्बन्धित फर्म की होगी,परियोजना लागत की 5 प्रतिशत धनराशि परफोरमेन्स गारण्टी के रूप में 5 वर्ष रोकने के उपरान्त सड़क के समुचित रख-रखाव होने की दशा में भुगतान की जायेगी।
 25. निविदादाता द्वारा कार्य किसी अन्य व्यक्ति/ठेकेदार को सबलेट नहीं किया जा सकता है।
 26. कार्य शुरू करने का पत्र प्राप्त करने की तारीख से एक सप्ताह के भीतर प्रथम न्यूनतम निविदादाता द्वारा श्रम विभाग में अपना श्रम पंजीकृत करना आवश्यक है।
 27. निविदादाता को प्रस्तुत करने से पहले स्वयं को संतुष्ट करना होगा कि उसके पास कार्य को निष्पादित करने के लिए पर्याप्त निविदा दर की क्षमता है और उसे प्रथम न्यूनतम निविदादाता द्वारा क्षमता गणना पत्रक प्रस्तुत करना होगा।
 28. नेशनल ग्रीन ट्रिव्यूनल द्वारा जारी कोई भी परिपत्र या निर्देश ठेकेदार पर लागू होगा।
 29. कार्य के साथ निर्गत कार्यदेश जारी करने के बाद ठेकेदार श्रम विभाग द्वारा पंजीकृत संबन्धित कार्य स्थल पर कार्यरत मजदूरों के नाम जमा करेगा।
 30. नगर निगम मा0सदन की बैठक दिनांक 13.11.2019 के स्वीकृत प्रस्ताव सं० 9 के अनुसार किसी भी ठेकेदार को पूर्व से स्वीकृत कोई भी तीन या उसके अधिक कार्य अधूरे हैं, तो उस ठेकेदार को नया कार्य आवंटित नहीं किया जायेगा तथा किसी भी ठेकेदार को एक बार में तीन से अधिक कार्य आवंटित नहीं किया जायेगा।
 31. निविदादाता के पंजीकृत मोबाईल नम्बर पर एस.एम.एस. द्वारा दिए गए ई-मेल पर भेजे गए सभी नोटिस और पत्र, निविदादाता द्वारा प्राप्त किए गए मान्य लिए जाएंगे।
 32. विभिन्न सरकारी आदेश/निदेशालय आदेश समय-समय पर जारी किए जाएंगे।
 33. अन्य विवरण निविदा शर्तों में देखे जा सकते हैं। कर्मचारी को उसके नियंत्रण से परे प्रणाली की विफलता के कारण किसी भी दरों के लिए उत्तरदायी नहीं ठहराया जा जाएगा। भले ही सिस्टम किसी भी निविदादाता को सूचित करने की कोशिश करेगा, लेकिन नियोजता निविदादाता द्वारा प्राप्त किसी भी जानकारी के लिए उत्तरदायी नहीं होगा। निविदा से संबन्धित नवीनतम जानकारी के लिए बेवसाइट से सत्यापित करना निविदादाताओं की जिम्मेदारी है।
 34. ठेकेदार/निविदादाता को निर्माण के समय यातयात के आवागमन को बिना किसी अवरोध के बनाये रखने हेतु पर्याप्त सुविधा/व्यवस्था करना अनिवार्य होगा।
 35. एक अथवा सभी निविदाओं को कारण बताये अथवा बिना बताये निरस्त करने का अधिकार नगर आयुक्त में निहित होगा एवं किसी भी शर्त को सशोधित करने का पूर्व अधिकार नगर आयुक्त, नगर निगम,झोंसी में निहित होगा।
 36. निविदादाता को निविदा डबल बिड सिस्टम के आधार पर (तकनीकी एवं वित्तीय) पृथक-पृथक देना अनिवार्य होगा।
 37. मा० एन०जी०टी० के द्वारा दिये गये निर्देशों के अनुपालन में निर्माण कार्य स्थल पर निर्माण कर्मा सामग्री को ग्रीन कवर से ढककर एवं पानी का छिड़काव करते हुए कार्य करना अनिवार्य होगा जिससे वायु प्रदूषण उत्पन्न न हो। अन्यथा कि स्थिति में पर्यावरणीय क्षतिपूर्ति वसूलने की कार्यवाही की जायेगी।
 38. निविदादाता को शासन/निदेशालय/नगर निगम द्वारा समय-समय पर जारी आदेशों का अनुपालन करना अनिवार्य होगा।
 39. टेक्नीकल बिड के साथ तकनीकी स्टाफ से सम्बन्धित सूचना विवरण सहित (शपथ पत्र सहित) संलग्न करना होगा।
 40. टेक्नीकल बिड के साथ यथा आवश्यक उपकरण की उपलब्धता से सम्बन्धित प्रमाण-पत्र संलग्न करना होगा।
 41. निविदादाता के पास विद्युतीकरण कार्यों को निष्पादित करने के लिए आवश्यक वैद्य विद्युत निदेशालय द्वारा प्रदत्त पंजीकरण/ए- श्रेणी का पंजीकरण प्रमाण-पत्र लाइसेन्स होना अनिवार्य है।
 42. निविदादाता तथा ज्वाइन्ट वैचर के पास विद्युतीकरण कार्य का अनुभव प्रमाण-पत्र प्रस्तुत करना अनिवार्य होगा।
 43. पी०डब्ल्यू०डी० के Model Bidding Document for construction of roads के सेक्शन-2 के 15.6 में यह उल्लेख किया गया है कि "if the bidder withdraws the bid after bid opening during the period of bid validity, the Earnest money may be forfeit." के अनुसार ठेकेदार की जमानत धनराशि जब्त करने की कार्यवाही की जायेगी।

तकनीकी बिड हेतु अनिवार्य अभिलेख-क्र०सं०-01 पर अंकित कार्य द्वि-निविदा पद्धति से किये जाने हैं।

1. विगत पांच वर्षों का औसत टर्नओवर जो आगणन राशि के 30 प्रतिशत से अधिक का हो, का प्रमाण-पत्र।



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2. विगत 07 वर्षों में आंगणन मूल्य के 40 प्रतिशत मूल्य के 03 समान प्रकृति के कार्यों को पूर्ण करने का सक्षम प्राधिकारी द्वारा निर्गत अनुभव प्रमाण-पत्र अथवा गत 07 वर्षों में आंगणन मूल्य के 50 प्रतिशत मूल्य के 02 समान प्रकृति के कार्यों को पूर्ण करने का अधिशासी अभियन्ता स्तर से कम नहीं द्वारा निर्गत अनुभव प्रमाण-पत्र अथवा गत 07 वर्षों में आंगणन मूल्य के 80 प्रतिशत मूल्य के 01 समान प्रकृति के कार्यों को पूर्ण करने का सक्षम प्राधिकारी द्वारा निर्गत अनुभव प्रमाण-पत्र होना अनिवार्य होगा।
3. टेक्नीकल बिड के साथ नगर निगम झांसी में उक्त फर्म के नाम कोई भी कार्य लम्बे समय से लम्बित/अनारम्भ होने का प्रमाण-पत्र (माओ न्यायालय विवाद के कार्यों को छोड़कर) संलग्न करना होगा।
4. हाटमिक्स प्लांट से सड़क सुधार के कार्यों के लिए निर्धारित सीमा में हाटमिक्स प्लांट का नियमानुसार स्वामित्व होना अनिवार्य है, जिसका सर्टिफिकेट संलग्न करना अनिवार्य है।
5. टेक्नीकल बिड के साथ तकनीकी स्टाफ से सम्बन्धित सूचना (एक सिविल डिग्री धारक एवं दो सिविल डिप्लोमा धारक) विवरण सहित (शपथ पत्र सहित) संलग्न करना होगा।
6. टेक्नीकल बिड के साथ यथा आवश्यक उपकरणों हाटमिक्स प्लांट, एयर कम्प्रेसर, बाईब्रेटर, रोलर, टिपर, विटुमिन डिस्ट्रीब्यूटर, टार वायलर, कंक्रीट मिक्चर, वाटर टैंकर, ट्रेक्टर, ट्रक, मेकैनिकल ब्रूम आदि की उपलब्धता यथाआवश्यक का सम्बन्धित प्रमाण-पत्र संलग्न करना होगा।
7. बिड कैपेसिटी निर्धारित प्रारूप पर संलग्न करना अनिवार्य होगा।
8. **One-going works** अधिशासी अभियन्ता द्वारा जारी किया गया निर्धारित प्रारूप पर संलग्न करना अनिवार्य होगा।
9. बिल्डिंग बनाने का अनुभव संलग्न करना अनिवार्य होगा।
10. निविदा के समय जमानत धनराशि (Earnest Money) को शासनादेश सं० 08/2017/836/23-7-17-176(सा०)/06 दिनांक 08.06.2017 के अनुसार निविदा के समय जमा करायी जायेगी।

अतः उपरोक्तानुसार अनुमोदन करते हुए ई-निविदा आमंत्रण सूचना दैनिक समाचार पत्रों में प्रकाशन किये जाने हेतु प्रारूप पत्रावली के दायीं ओर संलग्न कर दिया गया है। कृपया अवलोकन कर हस्ताक्षर करने का कष्ट करें।

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झाँसी नगर निगम, झाँसी।

आगणन

बजट हेड — अवस्थापना

आगणन का धनांक — रुपये—**2,00,00,000/-**

कार्य का नाम :- पहुंज नदी में गिरने वाले दो नालों को एस0पी0 एस0-4 के नाले में जोड़ने का कार्य।

नगर निगम को स्वीकृति प्रदान करने हेतु समर्पित।

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Estimate for Drain Diversion work

S. No.	Item Detail	DSR/MR	Item No.	Unit	Rate	After factor	Qty	Amount
1	2.31 Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared	DSR 2023	2.31	SQM	17.6	12.82	3138.54	40,220.71
2	2.6 Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer incharge 2.6.1 All kinds of soil	DSR 2023	2.6.1	SQM	177.5	129.24	742.07	95,907.70
3	2.7 Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer incharge 2.7.3 Hard rock (blasting prohibited)	DSR 2023	2.7.3	CUM	1432.95	1043.38	259.73	270,990.59
4	2.10 Excavating trenches of required width for pipes, cables, etc. including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m 2.10.1 Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia	DSR 2023	2.10.1.2	MTR	352.15	256.41	909.00	230,770.15
5	2.13 Excavating trenches of required width for pipes, cables, etc. including excavation for sockets, depth upto 1.5 m, including getting out the excavated materials, returning the soil as required in layers not exceeding 20 cm in depth, including consolidating each deposited layers by ramming, watering etc. stacking serviceable material for measurements and disposal of unserviceable material as directed, within a lead of 50 m 2.13.3.2 Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia	DSR 2023	2.13.3.2	MTR	2047.3	1490.70	315.00	469,371.22
6	2.14 Extra for excavating trenches for pipes, cables, etc. in ordinary/hard rock exceeding 1.5 m in depth but not exceeding 3 m. (Rate is over corresponding basic item for depth upto 1.5 metre)	DSR 2023	2.14.3.1	MTR	1496.1	1089.36	315.00	343,147.31
7	2.24 2 in. or under four position, including pumping out water as metre 25% required	DSR 2023	2.24.2			0.00		149,417.11
8	2.27 Substituting and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete	DSR 2023	2.27	CUM	2123.75	1546.37	648.00	1,002,046.38
9	4.1.5 1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources)	DSR 2023	4.1.5	CUM	7294.7	5311.50	11.22	59,586.49
10	4.1.6 Extra for laying concrete in or under foul positions.	DSR 2023	4.1.6	CUM	667.55	340.44	40.67	13,846.12
11	5.1 Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level 5.1.2 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	DSR 2023	5.1.2	CUM	9045.75	6586.49	29.45	193,994.70
12	5.2 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	DSR 2023	5.2.2	CUM	10852.95	7902.37	94.58	747,416.86
13	5.5 Centering and shuttering including strutting, propping etc. and removal of form for 5.5.1 Reinforced concrete: walls, columns etc for mass concrete	DSR 2023	5.9.1	SQM	392.15	285.54	26.49	7,363.69
14	5.5.2 Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	DSR 2023	5.9.2	SQM	042.9	613.45	227.99	139,861.40
15	5.5.6 Columns, Pillars, Piers, Abutments, Posts and Struts	DSR 2023	5.9.6	SQM	961.3	699.95	238.95	167,956.52
16	5.5.20 Suspended floors, roofs, landings, balconies and access platform with water proofing 12 mm thick	DSR 2023	5.9.20	SQM	1028.4	748.81	89.47	29,557.19
17	5.22 Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. 5.22A.6 Thermally Treated bars of grade Fe-500D or more	DSR 2023	5.22A.6	KG	107.85	78.53	24341.83	1,911,537.54
18	5.33 Extra for laying reinforced cement concrete in or under water and/or foul water, including cost of pumping or bailing out water and removing slush etc., complete	DSR 2023	5.31	CUM	467.55	340.44	29.45	10,027.05
19	6.1 Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: 6.1.1 Cement mortar 1:4 (1 cement : 4 coarse sand)	DSR 2023	6.1.1	CUM	7370.65	5366.80	5.52	29,624.72
20	6.3.1 With F.P.S. (non modular) bricks	DSR 2023	6.3.1	CUM	9299.9	6771.54	21.57	146,033.18
21	12 mm cement plaster of m/s 12.1.1 1:4 (1 cement : 4 fine sand)	DSR 2023	11.1.2	SQM	347.05	252.70	628.85	158,907.93
22	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	DSR 2023	13.8	SQM	132.25	96.30	228.85	22,037.18
23	Distemper with oil bound washable distemper of approved brand and manufacture to give an even shade: 13.41.1 New work (two or more coats) over and including water thinnable priming coat with cement primer	DSR 2023	13.41.1	SQM	157.33	114.56	228.85	26,216.33

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Estimate for Drain Diversion work

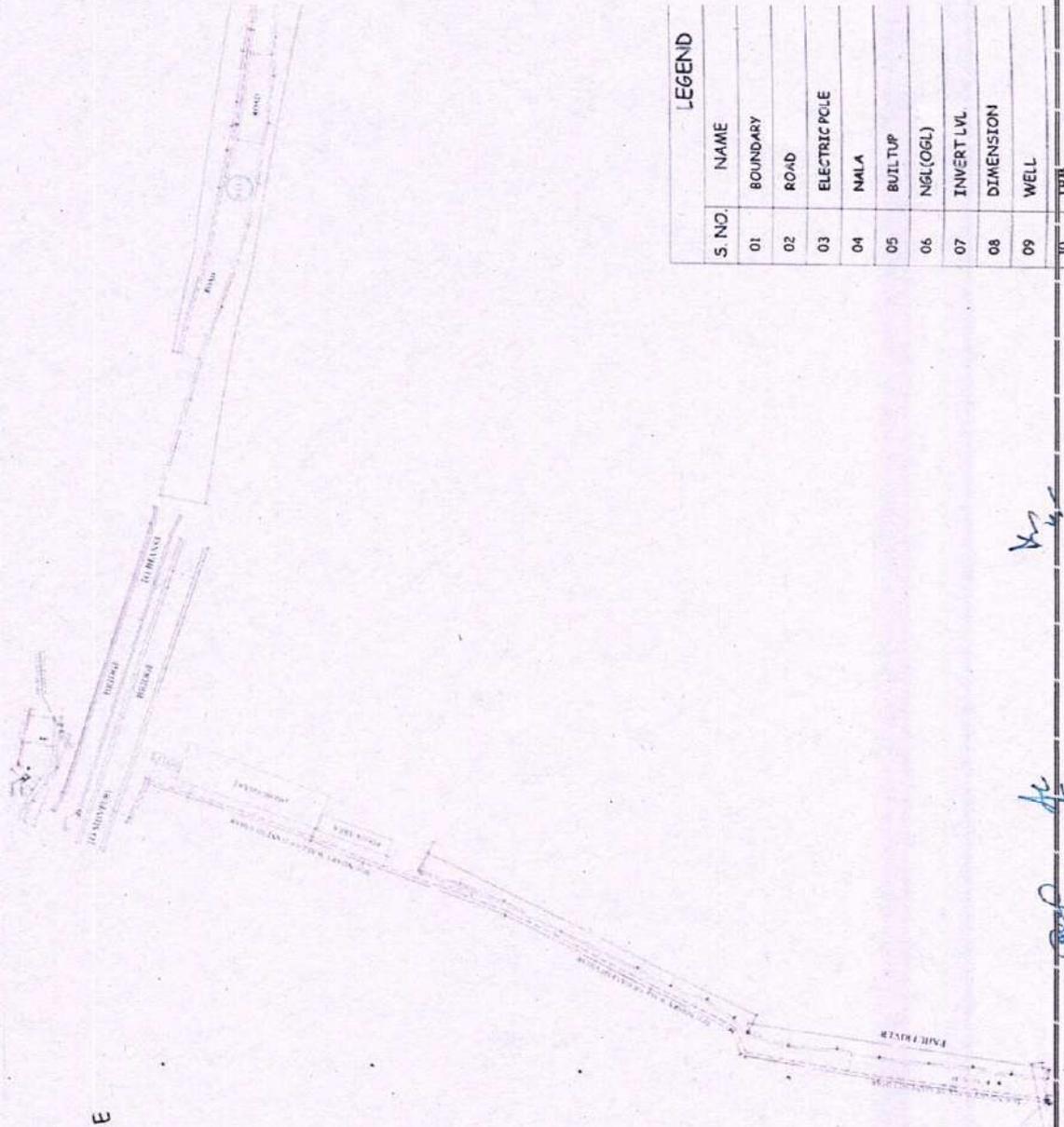
Item Detail	DSR/MR	Item No.	Unit	Rate	After factor	Qty	Amount
Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : 13.62.1 Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	DSR 2023	11.62.1	SQM	191.74	139.61	228.85	31,950.16
24 Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer. 25 20 x 4 x 10 mm M.S. angle 40x40x6 mm for diagonal brace.	DSR 2023	10.5.1	SQM	4918.940578	3581.63	40.00	143,263.30
26 Providing and fixing stainless steel (Grade 304) railing made of hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts fasteners etc.)	DSR 2023	10.28	KG	772.4	562.41	510.00	286,828.21
27 Providing and fixing glazing in aluminium door/windows/ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc., complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item)	DSR 2023	21.3.1	SQM	1175.8	856.86	40.00	34,274.57
28 overall height as 2.5m. MS channel ISLC 75 @ 5.70 kg/m, 50cm long shall be provided at the bottom having oval shaped holes of size 50x25mm at both ends with 50cm long MS angle 40x40x6mm bracing. Suitable arrangement shall be made to fix the barricading to avoid from overturning by providing 250mm long expansion fasteners at both ends. The work shall be executed as per drawing/direction of Engineer-in-Charge which includes writing and painting, arrangement for traffic diversion such as traffic signals during construction at site for day and night, glow lamps, reflective signs, marking, flags, caution tape as directed by the Engineer-in-Charge. The barricading provided shall be retained in position at site continuously i/c shifting of barricading from one location to another location as many times as required during the execution of the entire work till its completion.	DSR 2023	16.81	meter	3439.5	2504.41	100.00	250,440.60
29 18.11.2 NON-RETURN VALVE with dual plate of CI body SS plates vulcanized with seal flanged end & PN 16 pressure rating as specified	EB&M 2022	16.7.3.4	Nos	5494	4000.35	3.00	12,001.05
30 18.31 Providing and fixing CI, sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. (the tail pieces if required will be paid separately)	DSR 2023	18.31.1	Nos	4985.85	3630.35	6.00	21,782.11
31 18.59 Providing and fixing CI, double acting air valve of approved quality with bolts, nuts, rubber insertions etc. complete (The tail pieces, tabs etc if required will be paid separately)	DSR 2023	18.59.3	Nos	8893	6475.27	3.00	19,425.80
32 18.60 Providing and fixing enclosed type water meter (bulk type) conforming to IS 2873 and tested by Municipal Board complete with bolts, nuts, rubber insertions etc. (The tail pieces if required will be paid separately)	DSR 2023	18.60.2	Nos	5468.35	3981.67	2.00	7,963.35
33 18.72 Providing and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS 8329	DSR 2023	18.72.15	Mtr	1344.6	979.04	600.00	587,426.84
34 18.68 Providing and laying D.I. specials of class K-12 suitable for push-on jointing as per IS 9523	DSR 2023	18.68.1	Qtl	20009.7	14569.68	30.00	437,090.39
35 18.70 Providing push-on joints to Centrifugally (Spun) Cast iron Pipes or Ductile Iron Pipes including testing of joints and the cost of rubber gasket	DSR 2023	18.70.1	Nos	119.45	86.98	100.00	8,697.52
36 19.6 Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete	DSR 2023	19.6.3	Mtr	899.8	655.17	500.00	327,586.07
37 19.9.1 0.91 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560 mm internal diameter conforming	DSR 2023	19.9.1	Nos	12725	9265.46	8.00	74,123.72
38 19.10.1 Extra depth for circular type manhole 0.91m internal dia (at bottom) beyond 0.91 m to 1.67 m							
19.10.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	DSR 2023	19.10.1	Mtr	7591.8	5527.82	8.00	44,222.59

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Estimate for Drain Diversion work

No.	Item Detail	DSR/MR	Item No.	Unit	Rate	After factor	Qty	Amount
39	19.11 Constructing brick masonry circular manhole 1.22 m internal dia at bottom and 0.56 m dia at top in cement mortar 1:4 (1 cement : 4 coarse sand) inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement foundation concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design : 19.11.1 1.68 m deep with SFRC Cover and frame (heavy duty HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg, fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12 mm thick cement plaster at the external surface shall be paid for separately). 19.11.1.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	DSR 2023	19.11.1.1	Nos	24709.75	17986.83	9.00	161,881.51
40	19.12 Extra depth for circular type manhole 1.22 m internal dia (at bottom) beyond 1.68 m to 2.29 m. 19.12.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	DSR 2023	19.12.1	Mtr	9861.45	7180.43	9.00	64,623.83
41	19.13 Constructing brick masonry circular manhole 1.52 m internal dia at bottom and 0.56 m dia at top in cement mortar 1:4 (1 cement : 4 coarse sand) inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design : 19.13.1 2.30 m deep with SFRC Cover and frame (heavy duty HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg, fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12 mm thick cement plaster at the external surface shall be paid for separately). 19.13.1.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	DSR 2023	19.13.1	Nos	52969.1	38568.44	5.00	192,842.18
42	19.14 Extra depth for circular type manhole 1.52 m internal dia (at bottom) beyond 2.30 m. 19.14.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	DSR 2023	19.14.1	Mtr	22771.85	16580.89	5.00	82,904.43
43	13.25 Supplying and erection of single piece nonlinear resistor type lightning arrester suitable for 3 wire, 33 KV overhead lines with rated voltage 33 KV (rms) with a nominal discharge current rating of 10 KA (station class) and complete with galvanised clamping arrangement, G.I. bolts, nuts, washers etc. as required.	E&M 2022	13.25	Nos	17174	12504.92	2.00	25,009.84
44	Supply installation and testing of DG SOKVA	PAR 2023	6.3.1	KVA	11560	8417.19	50.00	420,859.63
45	Extra for Synchronizing Panel	PAR 2023	6.3.2	KVA	1070	779.10	50.00	38,955.00
46	Supply and laying of 1800mm x 900mm x 12mm thick chequered rubber matting of tested quality	UPPWD SCR				2525.00	6.00	15,150.00
47	1131 (A) Supply and fixing of fire extinguisher ABC Type 6.00 kg. capacity (IS Marked IS : 15682 & TAC approved) complete with initial charge and wall bracket, along with supply of all materials and labour for proper completion of work.	UPPWD SCR	1131 (A)	Nos		9010.00	2.00	18,020.00
48	Supply and fixing of CO2 type fire extinguisher 6.5 kg. capacity (IS Marked IS : 2878 & TAC approved) complete with initial charge and wall bracket, along with supply of all materials and labour for proper completion of work.	UPPWD SCR	1132 (A)	Nos		18300.00	2.00	36,600.00
Total - A								9,610,162.89
1	Electrical Connection with line, transformer, VCB, substation and meter room etc			Lump sum	Work	2500000	1.00	2,500,000.00
2	Electrical Panel with all requirements as per IS			Market Rate	Nos	800000	1.00	800,000.00
3	SITC of Pump (Heavy Duty Submersible I.F. Pumpset with Non Clog Impeller)			Market Rate	Nos	500000	3.00	1,500,000.00
4	Sitee (IS : 541) as per approved design			Market Rate	Nos	300000	2.00	600,000.00
5	SITC Electric overhead traveling (EOT) Crane with all necessary works			Market Rate	Nos	300000	1.00	300,000.00
6	Electrical fittings and lights (internal and external)			Lump sum	Work	200000	1.00	200,000.00
7	Utility shifting			Lump sum	Work	200000	1.00	200,000.00
8	Restoration work (Road and Other)			Lump sum	Work	550000	1.00	550,000.00
Total - B								6,650,000.00
Total A+B								16,260,162.89
Design Charge 2%								325,203.26
Contingency charges 3%								487,804.89
GST 18%								2,926,829.26
Grand Total								20,000,000



LEGEND

S. NO.	NAME
01	BOUNDARY
02	ROAD
03	ELECTRIC POLE
04	NALA
05	BUILT UP
06	NGL(OGL)
07	INVERT LVL
08	DIMENSION
09	WELL
10	TBM

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Design of Sewerage system for a domestic locality- Jhansi

2.3 Area for consideration

Below image depicts the proposed route of gravity/ pressure sewer network, proposed location of wet well and area highlighted has been considered for flow generation.



Proposed alignment for pressure sewer- Anchoring with the new RCC bridge.



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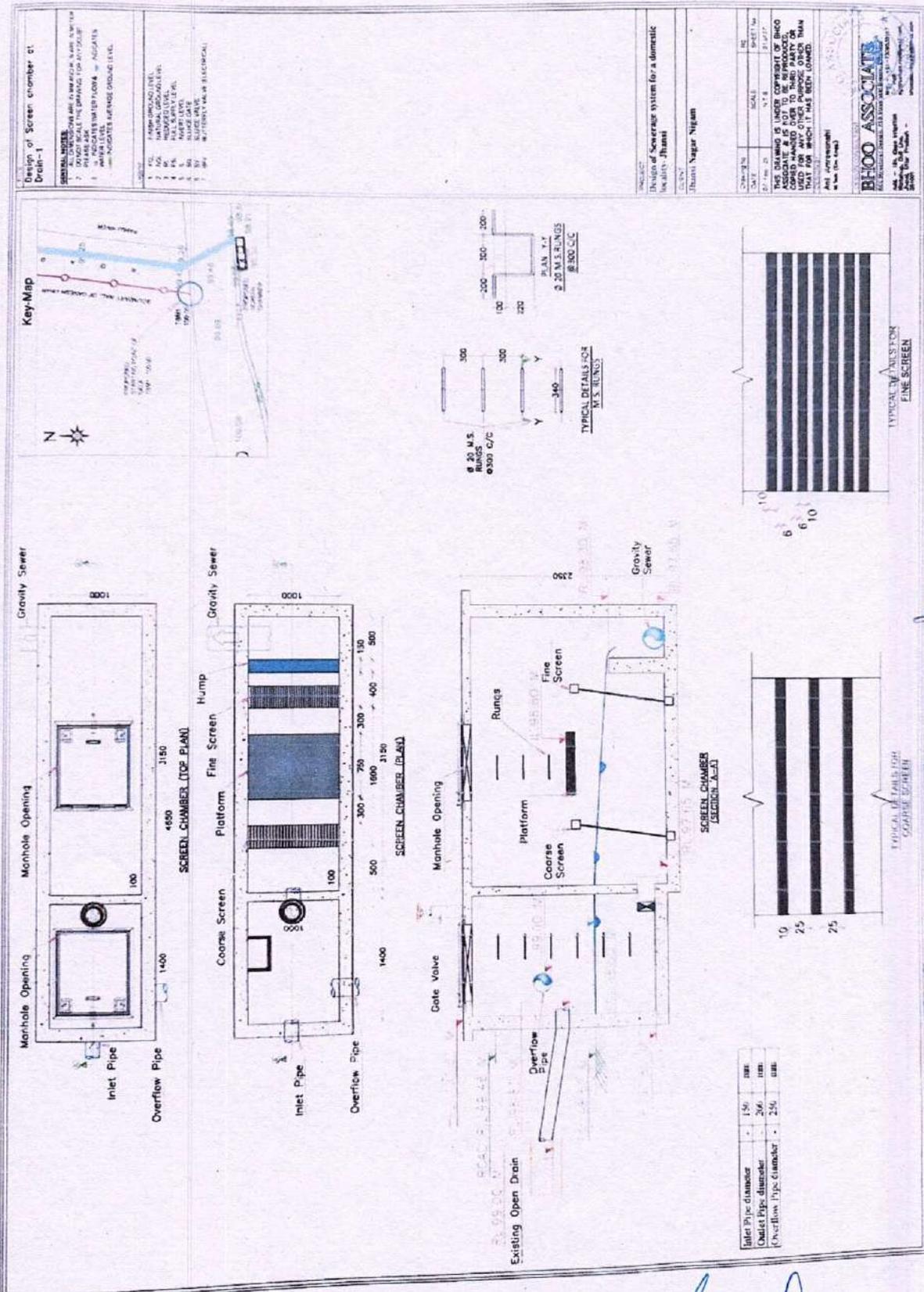
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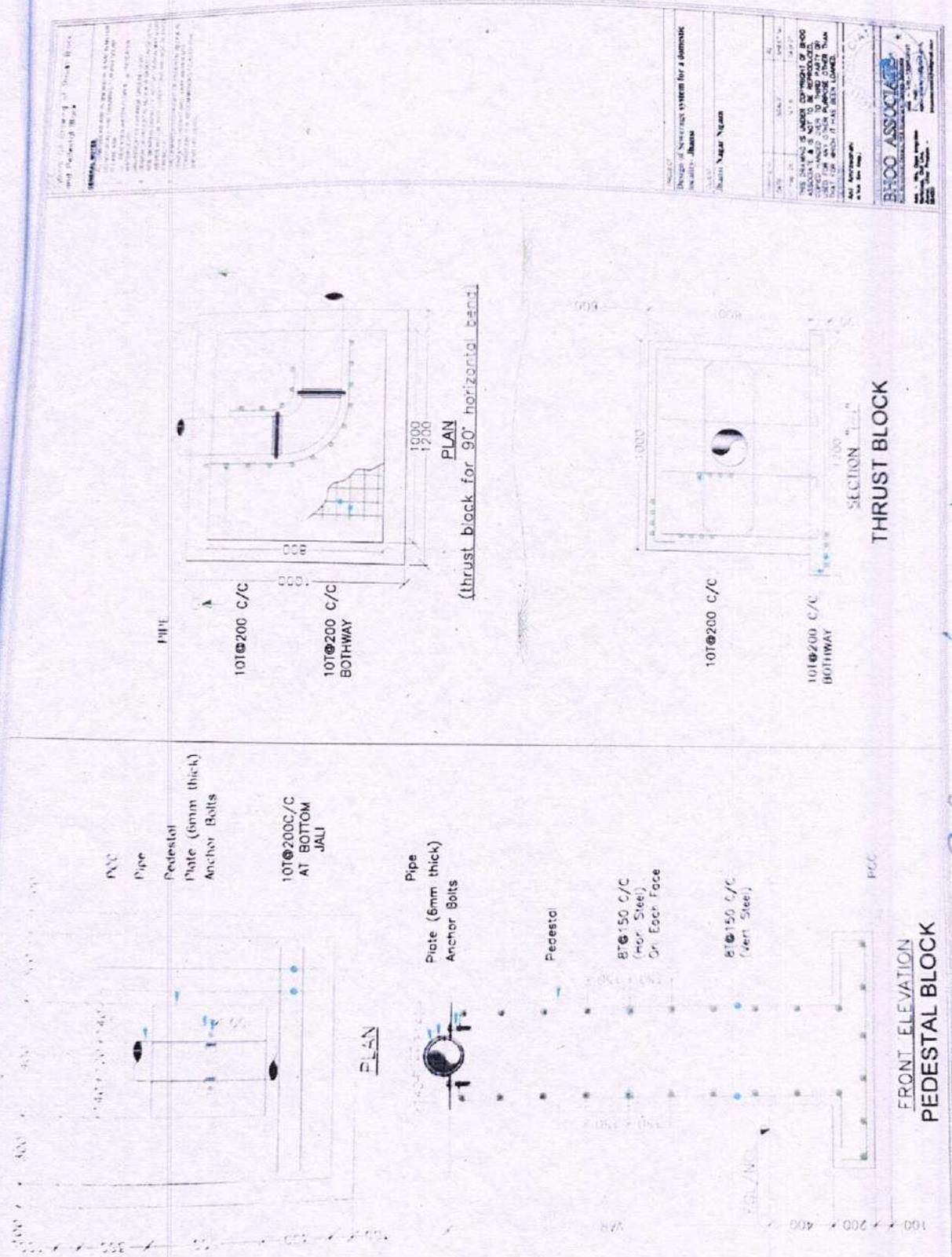
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Design of Sewerage system for a domestic locality - Dhara
Dhara Nagar Nigam

Design of Sewerage system for a domestic locality - Dhara
Dhara Nagar Nigam

BHOO ASSOCIATES

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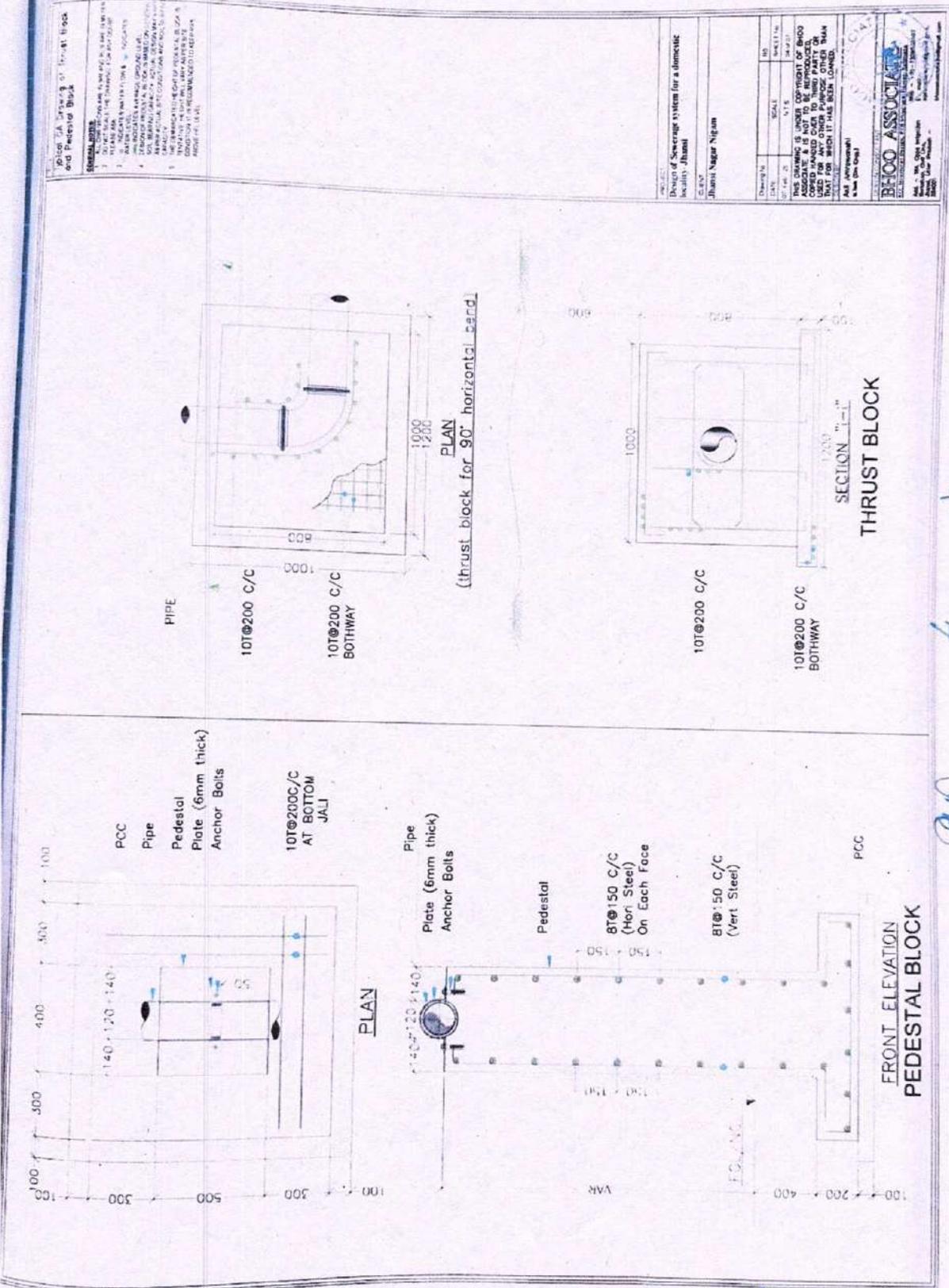
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1A Details of Circular Manhole

1. **GENERAL NOTES:**
 a. All work shall conform to the latest edition of the Standard Specifications for Highway Construction, as published by the Department of Transportation, State of Florida.
 b. All materials shall be of the quality and quantity specified in the Standard Specifications for Highway Construction, as published by the Department of Transportation, State of Florida.
 c. All work shall be done in accordance with the approved plans and specifications.

2. **MANHOLE DETAILS:**
 a. The manhole shall be constructed of concrete and shall be finished with a smooth surface.
 b. The manhole shall be constructed in accordance with the approved plans and specifications.

3. **CONCRETE:**
 a. The concrete shall be of the quality and quantity specified in the Standard Specifications for Highway Construction, as published by the Department of Transportation, State of Florida.
 b. The concrete shall be finished with a smooth surface.

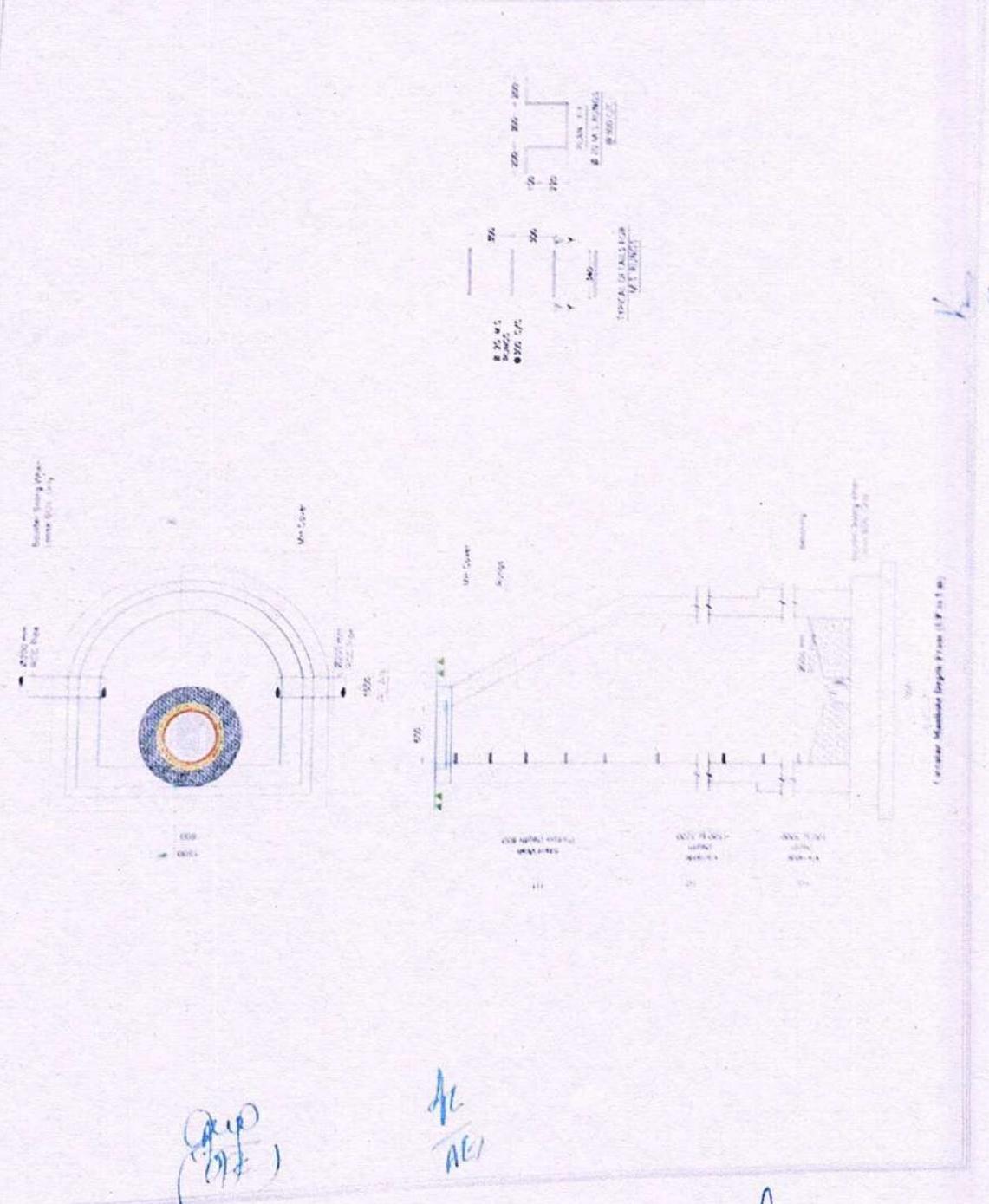
4. **FINISHES:**
 a. The manhole shall be finished with a smooth surface.

5. **INSTALLATION:**
 a. The manhole shall be installed in accordance with the approved plans and specifications.

6. **MAINTENANCE:**
 a. The manhole shall be maintained in accordance with the approved plans and specifications.

7. **APPROVED BY:**
 [Signature]

8. **DATE:**
 11/03/2025



Handwritten notes and signatures:

Runa
11/03/2025

AC
NE

[Signature]

[Signature]

[Signature]

contd.

Site visit pictures

Below are the pictures captured during the survey and site visit with local authority



Proposed alignment for Gravity Sewer



Proposed alignment for Gravity Sewer



Proposed location for Wet well



Proposed outfall location for pressure sewer at Bada nala

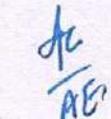


Proposed RCC bridge for pressure sewer Anchoring



Existing check dam of 3m height with retaining wall on Pahuj River at the upstream side







Pung
 11/03/2025



contd.



CENTRAL LABORATORY
UTTAR PRADESH POLLUTION CONTROL BOARD
 Building, No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

TEST REPORT: WASTE WATER LABORATORY

Ref No: 30255949/CENTRAL/2025

Date: 25/02/2025

- 1- Name of Industry: Jhansi Smart City Limited, 26 MLD STP Lahargird Jhansi.
- 2- Address of Industry: 26 MLD STP Lahargird Jhansi.
- 3- District: Jhansi
- 4- Description about sampling point: Inlet of STP
- 5- Type of Sample (Grab/Composite/Integrated): Grab
- 6- Sample Collected By: Rishi Kumar Kushwaha LA & Manoj Verma JRF
- 7- Colour and Odour: - -
- 8- Quantity and Packing: MPN Bottle
- 9- Date of Sample Collection: 29/01/2025
- 10- Analysis Indented by: RO Jhansi
- 11- Date of sample receipt in Lab: 30/01/2025
- 12- Period of Analysis: 07 days
- 13- ULR Number: -
- 14- Sampling Plan/Ref. No.: UPPCB/CL/WW/755(B)/2025
- 15- Sampling Method Ref.: APHA 24th Edition 2023- 1060 A, B, C, Page No.- 42- 52, Collection & Preservation of Samples

S. N.	Parameter/Method Name	Unit	Results	Standard	Detection Range
1	Total Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	540000	-	<1.8 MPN/100 ml & above
2	Fecal Coliform, 9221 E Fecal Coliform Procedure	MPN/100 ml	34000	-	<1.8 MPN/100 ml & above

Reference- (1) General Standards for discharge of environmental pollutants are as part-A Effluent (Schedule-VI). The Environment (Protection) Rules, 1986 source: www.cpcb.nic.in/GeneralStandards.pdf. Besides these standards, refer EPA standards for specific purpose

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)]

Authorized by
 Reeta
 Keshav
 Reeta Keshav (ASO)

Digitally signed by
 Reeta Keshav
 Date: 2025.02.25

IMRAN
 AHMAD KHAN
 Incharge
 Central Laboratory

Digitally signed by
 IMRAN AHMAD KHAN
 Date: 2025.02.25
 12:24:39 +05'30'

UPPCB/CL/7.8.2	Issue No.: 01	Issue Date: 01.10.2024	Page No.: Page 1 of 2
Amendment No.: 01	Amendment Date.: 01.10.2024	Approved by: TM	Issued by: QM



REGIONAL LABORATORY JHANSI
UTTAR PRADESH POLLUTION CONTROL BOARD

Avas Vikas Colony, Talpura Yojna, Kanpur Road, Jhansi

TEST REPORT: WASTE WATER LABORATORY

Ref No: 30256075/Jhansi/2025

Date:06/02/2025

- 1- Name of Industry: Jhansi Smart City Limited, 26 MLD STP Lahargird Jhansi.
- 2- Address of Industry: 26 MLD STP Lahargird Jhansi.
- 3- District: Jhansi
- 4- Description about sampling point: Inlet of STP
- 5- Type of Sample (Grab/Composite/Integrated): Grab
- 6- Sample Collected By: Rishi Kumar Kushwaha LA & Manoj Verma JRF
- 7- Colour and Odour: Blackish Foul
- 8- Quantity and Packing: 2 Litre Plastic Jerrycan
- 9- Date of Sample Collection: 29/01/2025
- 10- Analysis Indented by: RO Jhansi
- 11- Date of sample receipt in Lab: 31/01/2025
- 12- Period of Analysis: -
- 13- ULR Number: -
- 14- Sampling Plan/Ref. No.: -
- 15- Sampling Method Ref.: APHA 24th Edition 2023- 1060 A, B, C, Page No.- 42- 52, Collection & Preservation of Samples

S. N.	Parameter/Method Name	Unit	Results	Standard	Detection Range
1	pH, APHA 24th Ed. 4500B: 2023	-	6.82	-	02-12
2	Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	142.0	-	10-20000 mg/l
3	Dissolved Solids, APHA 24th Ed. 2540 C Total Dissolved Solids dried at 180 °C 2023	mg/l	795.0	-	10- 50000 mg/l
4	Total Solids, APHA 24th Ed.2540 B: 2023	mg/l	937.0	-	10- 50000 mg/l
5	BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	95.0	-	1.0 -50000 mg/l
6	COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	329.8	-	5.0 -100000 mg/l

Reference- (1) General Standards for discharge of environmental pollutants are as part-A Effluent (Schedule-VI). The Environment (Protection) Rules,1986 source: www.epcb.nic.in/GeneralStandards.pdf. Besides these standards, refer EPA standards for specific purpose

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-
[Krishna Rawat(JRF), Manoj
Verma(JRF), Rishi Kumar Kushwaha
(LA)]

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Kamalvanshi
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Dr Madhvi Kamalvanshi (SO)

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Imraan Ali
Date: 2025.02.15
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Regional Officer

UPPCB/.	Issue No.: 01	Issue Date:07.06.2023	Page No.:Page 1 of 2
Amendment No.:00	Amendment Date.:03.02.2025	Approved by: TM	Issued by: QM



CENTRAL LABORATORY
UTTAR PRADESH POLLUTION CONTROL BOARD
 Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010



TEST REPORT: WASTE WATER LABORATORY

Ref No: 30256037/CENTRAL/2025

Date: 25/02/2025

- 1- Name of Industry: Jhansi Smart City Limited, 26 MLD STP Lahargird Jhansi.
- 2- Address of Industry: 26 MLD STP Lahargird Jhansi.
- 3- District: Jhansi
- 4- Description about sampling point: Outlet of STP
- 5- Type of Sample (Grab/Composite/Integrated): Grab
- 6- Sample Collected By: Rishi Kumar Kushwaha LA & Manoj Verma JRF
- 7- Colour and Odour: - -
- 8- Quantity and Packing: MPN Bottle
- 9- Date of Sample Collection: 29/01/2025
- 10- Analysis Indented by: RO Jhansi
- 11- Date of sample receipt in Lab: 30/01/2025
- 12- Period of Analysis: 07 days
- 13- ULR Number: -
- 14- Sampling Plan/Ref. No.: UPPCB/CL/WW/755(B)/2025
- 15- Sampling Method Ref.: APHA 24th Edition 2023- 1060 A, B, C, Page No.- 42- 52, Collection & Preservation of Samples

S. N.	Parameter/Method Name	Unit	Results	Standard	Detection Range
1	Total Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	9400	-	<1.8 MPN/100 ml & above
2	Fecal Coliform, 9221 E Fecal Coliform Procedure	MPN/100 ml	930	As per MoEF&CC/CPCB	<1.8 MPN/100 ml & above

Reference- (1) General Standards for discharge of environmental pollutants are as part-A Effluent (Schedule-VI). The Environment (Protection) Rules, 1986 source: www.cpcb.nic.in/GeneralStandards.pdf. Besides these standards, refer EPA standards for specific purpose

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)]

Authorized by
 Digitally signed by Reeta Keshav
 Reeta Keshav
 Date: 2025.02.25 12:14:11
 Reeta Keshav (ASO)

IMRAN
 AHMAD KHAN
 Digitally signed by IMRAN AHMAD KHAN
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 Incharge
 Central Laboratory

UPPCB/CL/7.8.2	Issue No.: 01	Issue Date: 01.10.2024	Page No.: Page 1 of 2
Amendment No.: 01	Amendment Date.: 01.10.2024	Approved by: TM	Issued by: QM



**REGIONAL LABORATORY JHANSI
UTTAR PRADESH POLLUTION CONTROL BOARD**

Avas Vikas Colony, Talpura Yojna, Kanpur Road, Jhansi

TEST REPORT: WASTE WATER LABORATORY

Ref No: 30256103/Jhansi/2025

Date:06/02/2025

- 1- Name of Industry: Jhansi Smart City Limited, 26 MLD STP Lahargird Jhansi.
- 2- Address of Industry: 26 MLD STP Lahargird Jhansi.
- 3- District: Jhansi
- 4- Description about sampling point: Outlet of STP
- 5- Type of Sample (Grab/Composite/Integrated): Grab
- 6- Sample Collected By: Rishi Kumar Kushwaha LA & Manoj Verma JRF
- 7- Colour and Odour: Light Yellowish Odourless
- 8- Quantity and Packing: 2 Litre Plastic Jerrycan
- 9- Date of Sample Collection: 29/01/2025
- 10- Analysis Indented by: RO Jhansi
- 11- Date of sample receipt in Lab: 31/01/2025
- 12- Period of Analysis: -
- 13- ULR Number: -
- 14- Sampling Plan/Ref. No.: -
- 15- Sampling Method Ref.: APHA 24th Edition 2023- 1060 A, B, C, Page No.- 42- 52, Collection & Preservation of Samples

S. N.	Parameter/Method Name	Unit	Results	Standard	Detection Range
1	pH, APHA 24th Ed. 4500B: 2023	-	6.84	6.5 - 9.0	02-12
2	Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	12.0	100 mg/l	10-20000 mg/l
3	Dissolved Solids, APHA 24th Ed. 2540 C Total Dissolved Solids dried at 180 °C 2023	mg/l	642.0	-	10- 50000 mg/l
4	Total Solids, APHA 24th Ed.2540 B: 2023	mg/l	654.0	-	10- 50000 mg/l
5	BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	12.0	30.0 mg/L	1.0 -50000 mg/l
6	COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	46.56	250 mg/L	5.0 -100000 mg/l

Reference- (1) General Standards for discharge of environmental pollutants are as part-A Effluent (Schedule-VI). The Environment (Protection) Rules,1986 source: www.cpcb.nic.in/GeneralStandards.pdf. Besides these standards, refer EPA standards for specific purpose

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-
[Krishna Rawat(JRF), Manoj Verma(JRF), Rishi Kumar Kushwaha (LA)]

Authorized by
Madhavi Kamalvanshi
Dr Madhvi Kamalvanshi (SO)

Digitally signed by
Imraan Ali
Date: 2025.02.15
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Regional Officer

UPPCB/.	Issue No.: 01	Issue Date:07.06.2023	Page No.:Page 1 of 2
Amendment No.:00	Amendment Date.:03.02.2025	Approved by: TM	Issued by: QM



CENTRAL LABORATORY
UTTAR PRADESH POLLUTION CONTROL BOARD
 Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010



TEST REPORT: WASTE WATER LABORATORY

Ref No: 30256054/CENTRAL/2025

Date: 25/02/2025

- 1- Name of Industry: Jhansi Smart City Limited, 26 MLD STP Lahargird Jhansi.
- 2- Address of Industry: 26 MLD STP Lahargird Jhansi.
- 3- District: Jhansi
- 4- Description about sampling point: Final Outlet of STP
- 5- Type of Sample (Grab/Composite/Integrated): Grab
- 6- Sample Collected By: Rishi Kumar Kushwaha LA & Manoj Verma JRF
- 7- Colour and Odour:
- 8- Quantity and Packing: MPN Bottle
- 9- Date of Sample Collection: 29/01/2025
- 10- Analysis Indented by: RO Jhansi
- 11- Date of sample receipt in Lab: 30/01/2025
- 12- Period of Analysis: 07 days
- 13- ULR Number: -
- 14- Sampling Plan/Ref. No.: UPPCB/CL/WW/755(B)/2025
- 15- Sampling Method Ref.: APHA 24th Edition 2023- 1060 A, B, C, Page No.- 42- 52, Collection & Preservation of Samples

S. N.	Parameter/Method Name	Unit	Results	Standard	Detection Range
1	Total Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	7000	-	<1.8 MPN/100 ml & above
2	Fecal Coliform, 9221 E Fecal Coliform Procedure	MPN/100 ml	920	As per MoEF&CC/CPCB	<1.8 MPN/100 ml & above

Reference- (1) General Standards for discharge of environmental pollutants are as part-A Effluent (Schedule-VI). The Environment (Protection) Rules, 1986 source: www.cpcb.nic.in/GeneralStandards.pdf. Besides these standards, refer EPA standards for specific purpose

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)]

Authorized by
Reeta Keshav
Keshav
Reeta Keshav (ASO)

Digitally signed by
Reeta Keshav
Date: 2025.02.25
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IMRAN
AHMAD
KHAN
Incharge
Central Laboratory

Digitally signed by
IMRAN AHMAD KHAN
Date: 2025.02.25
12:16:16 +05'30'

UPPCB/CL/7.8.2	Issue No.: 01	Issue Date: 01.10.2024	Page No.: Page 1 of 2
Amendment No.: 01	Amendment Date.: 01.10.2024	Approved by: TM	Issued by: QM



REGIONAL LABORATORY JHANSI
UTTAR PRADESH POLLUTION CONTROL BOARD

Avas Vikas Colony, Talpura Yojna, Kanpur Road, Jhansi

TEST REPORT: WASTE WATER LABORATORY

Ref No: 30256117/Jhansi/2025

Date:06/02/2025

- 1- Name of Industry: Jhansi Smart City Limited, 26 MLD STP Lahargird Jhansi.
- 2- Address of Industry: 26 MLD STP Lahargird Jhansi.
- 3- District: Jhansi
- 4- Description about sampling point: Final Outlet of STP
- 5- Type of Sample (Grab/Composite/Integrated): Grab
- 6- Sample Collected By: Rishi Kumar Kushwaha LA & Manoj Verma JRF
- 7- Colour and Odour: Light Yellowish Odourless
- 8- Quantity and Packing: 2 Litre Plastic Jerrycan
- 9- Date of Sample Collection: 29/01/2025
- 10- Analysis Indented by: RO Jhansi
- 11- Date of sample receipt in Lab: 31/01/2025
- 12- Period of Analysis: -
- 13- ULR Number: -
- 14- Sampling Plan/Ref. No.: -
- 15- Sampling Method Ref.: APHA 24th Edition 2023- 1060 A, B, C, Page No.- 42- 52, Collection & Preservation of Samples

S. N.	Parameter/Method Name	Unit	Results	Standard	Detection Range
1	pH, APHA 24th Ed. 4500B: 2023	-	7.05	6.5 - 9.0	02-12
2	Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	13.0	100 mg/l	10-20000 mg/l
3	Dissolved Solids, APHA 24th Ed. 2540 C Total Dissolved Solids dried at 180 °C 2023	mg/l	651.0	-	10- 50000 mg/l
4	Total Solids, APHA 24th Ed.2540 B: 2023	mg/l	664.0	-	10- 50000 mg/l
5	BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	9.0	30.0 mg/L	1.0 -50000 mg/l
6	COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	38.8	250 mg/L	5.0 -100000 mg/l

Reference- (1) General Standards for discharge of environmental pollutants are as part-A Effluent (Schedule-VI). The Environment (Protection) Rules,1986 source: www.cpcb.nic.in/GeneralStandards.pdf. Besides these standards, refer EPA standards for specific purpose

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-
[Krishna Rawat(JRF), Manoj
Verma(JRF), Rishi Kumar Kushwaha
(LA)]

Authorized by
Madhavi
Kamalvanshi
Dr Madhvi Kamalvanshi (SO)

Imraan Ali Digitally signed by Imraan Ali
Date: 2025.02.15 14:58:26 +05'30'

Regional Officer

UPPCB/.	Issue No.: 01	Issue Date:07.06.2023	Page No.:Page 1 of 2
Amendment No.:00	Amendment Date.:03.02.2025	Approved by: TM	Issued by: QM



CENTRAL LABORATORY
UTTAR PRADESH POLLUTION CONTROL BOARD
 Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010



TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-30263329/CENTRAL/2025

Date:18/02/2025

- 1- **Sample Location:** Drain Near Jai Academy, Shivpuri Road, Jhansi
- 2- **District:** Jhansi
- 3- **Address:** Shivpuri Road, Jhansi
- 4- **Sample Source:** Drain
- 5- **Type of sample :** Surface Water
- 6- **Sample Collected By :** Rishi Kumar Kushwaha , LA & Manoj Varma , JRF
- 7- **Odour :** -
- 8- **Quantity and Packing :** 2 Litre Plastic Jerrycan, MPN Bottle
- 9- **Date of Sample Collection :** 29/01/2025
- 10- **Analysis Indented by :** RO Jhansi
- 11- **Date of sample receipt in Lab :** 30/01/2025

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	0.1550	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	0.1661	0.01-1000mg/l
Total Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	4900000	<1.8 MPN/100 ml & above
Fecal Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	2300000	<1.8 MPN/100 ml & above
*Manganese, APHA 24th Ed. 3500-Mg B Calculation Method 2023	mg/l	0.1169	-
*Arsenic, APHA 24th Ed. 3114-Hydride Generation AAS Method 2023	mg/l	0.007	-

*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
 Digitally signed by Reeta Keshav
 Reeta Keshav (ASO)
Date: 2025.02.18 15:39:39 +05'30'

IMRAN AHMAD KHAN
 Chief Environmental Officer
 Central Laboratory
 Digitally signed by IMRAN AHMAD KHAN
Date: 2025.02.18 15:39:56 +05'30'



REGIONAL LABORATORY JHANSI
UTTAR PRADESH POLLUTION CONTROL BOARD

Avas Vikas Colony, Talpura Yojna, Kanpur Road, Jhansi

TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-30263338/Jhansi/2025

Date:06/02/2025

- 1- **Sample Location:** Drain Near Jai Academy, Shivpuri Road, Jhansi
- 2- **District:** Jhansi
- 3- **Address:** Shivpuri Road, Jhansi
- 4- **Sample Source:** Drain
- 5- **Type of sample :** Surface Water
- 6- **Sample Collected By :** Rishi Kumar Kushwaha , LA & Manoj Varma , JRF
- 7- **Odour :** Foul
- 8- **Quantity and Packing :** 2 Litre Plastic Jerrycan
- 9- **Date of Sample Collection :** 29/01/2025
- 10- **Analys Indented by :** RO Jhansi
- 11- **Date of sample receipt in Lab :** 31/01/2025

Parameter	Unit	Results	Detection Range
pH, APHA24th Ed.4500-B: 2023	-	7.07	02-12
Colour, APHA 24th Ed. 2120B: 2023	Hazen	10	5-10000 Hazen
Conductivity, APHA 24th Ed. 2510B :2023	µS/cm	1463	0.1-10000 µS/cm
Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	162.0	5.0 -10000 mg/l
Dissolved Solids, APHA 24th Ed. 2540 °C Total Dissolved Solids dried at 180 °C 2023	mg/l	1260.0	5.0 -10000 mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	92.5	1.0 -1000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	310.4	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
[Krishna Rawat(JRF), Manoj
Verma(JRF), Rishi Kumar Kushwaha
(LA)]

Authorized by
Madhavi
Kamalvanshi
Dr Madhvi Kamalvanshi (SO)

Digitally signed by
Madhavi Kamalvanshi
Date: 2025.02.07 13:06:03
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Imraan Ali
Date: 2025.02.15
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Regional Officer



CENTRAL LABORATORY
UTTAR PRADESH POLLUTION CONTROL BOARD
 Building, No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010



TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-30263300/CENTRAL/2025

Date:18/02/2025

- 1- **Sample Location:** Drain Behind Ganesh Vihar Colony, Shivpuri Road, Jh
- 2- **District:** Jhansi
- 3- **Address:** Shivpuri Road, Jhansi
- 4- **Sample Source:** Drain
- 5- **Type of sample :** Surface Water
- 6- **Sample Collected By :** Rishi Kumar Kushwaha , LA & Manoj Varma , JRF
- 7- **Odour :** Foul
- 8- **Quantity and Packing :** 2 Litre Plastic Jerrycan, MPN Bottle
- 9- **Date of Sample Collection :** 29/01/2025
- 10- **Analysis Indented by :** RO Jhansi
- 11- **Date of sample receipt in Lab :** 30/01/2025

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	0.1550	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	0.1661	0.01-1000mg/l
Total Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	3900000	<1.8 MPN/100 ml & above
Fecal Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	1700000	<1.8 MPN/100 ml & above
*Manganese, APHA 24th Ed. 3500-Mg B Calculation Method 2023	mg/l	0.1169	-
*Arsenic, APHA 24th Ed. 3114-Hydride Generation AAS Method 2023	mg/l	0.003	-

*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
Digitally signed by Reeta Keshav
 Reeta Keshav
Date: 2025.02.18 15:40:57 +05'30'
 Reeta Keshav (ASO)

IMRAN
Digitally signed by IMRAN AHMAD KHAN
 AHMAD KHAN
Date: 2025.02.18 15:41:10 +05'30'
 Chief Environmental Officer
 Central Laboratory



REGIONAL LABORATORY JHANSI
UTTAR PRADESH POLLUTION CONTROL BOARD

Avas Vikas Colony, Talpura Yojna, Kanpur Road, Jhansi

TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-30263319/Jhansi/2025

Date:06/02/2025

- 1- **Sample Location:** Drain Behind Ganesh Vihar Colony, Shivpuri Road, Jh
- 2- **District:** Jhansi
- 3- **Address:** Shivpuri Road, Jhansi
- 4- **Sample Source:** Drain
- 5- **Type of sample :** Surface Water
- 6- **Sample Collected By :** Rishi Kumar Kushwaha , LA & Manoj Varma , JRF
- 7- **Odour :** Foul
- 8- **Quantity and Packing :** 2 Litre Plastic Jerrycan
- 9- **Date of Sample Collection :** 29/01/2025
- 10- **Analys Indented by :** RO Jhansi
- 11- **Date of sample receipt in Lab :** 31/01/2025

Parameter	Unit	Results	Detection Range
pH, APHA24th Ed.4500-B: 2023	-	6.87	02-12
Colour, APHA 24th Ed. 2120B: 2023	Hazen	15	5-10000 Hazen
Conductivity, APHA 24th Ed. 2510B :2023	µS/cm	1539	0.1-10000 µS/cm
Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	115.0	5.0 -10000 mg/l
Dissolved Solids, APHA 24th Ed. 2540 °C Total Dissolved Solids dried at 180 °C 2023	mg/l	1121.0	5.0 -10000 mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	87.5	1.0 -1000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	271.6	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
[Krishna Rawat(JRF), Manoj
Verma(JRF), Rishi Kumar Kushwaha
(LA)]

Authorized by
Madhavi
Kamalvanshi
Dr Madhvi Kamalvanshi (SO)

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Imraan Ali
Date: 2025.02.15
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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



TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-30264125/CENTRAL/2025

Date:18/02/2025

- 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 :** Rishi Kumar Kushwaha , LA & Manoj Varma , JRF
- 7- **Odour :** None
- 8- **Quantity and Packing :** 2 Litre Plastic Jerrycan, MPN Bottle
- 9- **Date of Sample Collection :** 29/01/2025
- 10- **Analys Indented by :** RO Jhansi
- 11- **Date of sample receipt in Lab :** 30/01/2025

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	0.1019	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	0.5903	0.01-1000mg/l
Total Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	1100	<1.8 MPN/100 ml & above
Fecal Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	450	<1.8 MPN/100 ml & above
*Manganese, APHA 24th Ed. 3500-Mg B Calculation Method 2023	mg/l	0.1350	-
*Arsenic, APHA 24th Ed. 3114-Hydride Generation AAS Method 2023	mg/l	0.005	-

*Non-NABL Parameters.

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Remark:* - NA

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

Authorized by
 Reeta
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 Reeta Keshav
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 Keshav (ASO)
 Reeta Keshav (ASO)

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Chief Environmental Officer
Central Laboratory



REGIONAL LABORATORY JHANSI
UTTAR PRADESH POLLUTION CONTROL BOARD

Avas Vikas Colony, Talpura Yojna, Kanpur Road, Jhansi

TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-30264140/Jhansi/2025

Date:25/02/2025

- 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 :** Rishi Kumar Kushwaha , LA & Manoj Varma , JRF
- 7- **Odour :** None
- 8- **Quantity and Packing :** 2 Litre Plastic Jerrycan, DO Bottle
- 9- **Date of Sample Collection :** 29/01/2025
- 10- **Analysis Indented by :** RO Jhansi
- 11- **Date of sample receipt in Lab :** 31/01/2025

Parameter	Unit	Results	Detection Range
pH, APHA24th Ed.4500-B: 2023	-	7.69	02-12
Turbidity, APHA24th Ed 2130B	N.T.U	20	1-500NTU
Colour, APHA 24th Ed. 2120B: 2023	Hazen	5	5-10000 Hazen
Conductivity, APHA 24th Ed. 2510B :2023	µS/cm	446	0.1-10000 µS/cm
Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	11.0	5.0 -10000 mg/l
Dissolved Solids, APHA 24th Ed. 2540 °C Total Dissolved Solids dried at 180 °C 2023	mg/l	287.0	5.0 -10000 mg/l
Total Solids, APHA24th Ed2540B: 2023	mg/l	298.0	5.0 -15000 mg/l
Hardness, APHA 24th Ed. 2340 °C EDTA Titrimetric Method 2023	mg/l	248.0	10.0 -5000 mg/l
Calcium, APHA 24th Ed. 3500Ca-B:2023	mg/l	190.0	10.0 -1000 mg/l
Magnesium, APHA 24th Ed 3500Mg B: 2023	mg/l	58.0	10-1000 mg/l
Chloride, APHA24th Ed 4500-Cl- B: 2023	mg/l	9.96	3.0 - 500 mg/l
Alkalinity, APHA 24th Ed. 2320:2023	mg/l	53	20-5000 mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	2.6	1.0 -1000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	8.28	4.0 -1000 mg/l
D.O. , APHA 24th Ed. 4500-OB Iodometric Method 2023	mg/l	7.91	0.2-14.0 mg/l
Temp, APHA 2550 B (2-74) 24th Edition 2023, Laboratory and field Methods	°C	19	4 - 70 °C

*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
[Abhishek Kumar(LA), Anil Kumar
Sharma(SA), Krishna Rawat(JRF),
Manoj Verma(JRF), Rishi Kumar
Kushwaha (LA), Pradeep Kumar
Shukla(JRF)]

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Dr Madhvi Kamalvanshi (SO)

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Regional Officer



CENTRAL LABORATORY
UTTAR PRADESH POLLUTION CONTROL BOARD
 Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010



TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-30264158/CENTRAL/2025

Date:18/02/2025

- 1- **Sample Location:** DONGRI DAM, JHANSI
- 2- **District:** Jhansi
- 3- **Address:** JHANSI
- 4- **Sample Source:** River
- 5- **Type of sample :** Surface Water
- 6- **Sample Collected By :** Rishi Kumar Kushwaha , LA & Manoj Varma , JRF
- 7- **Odour :** None
- 8- **Quantity and Packing :** 2 Litre Plastic Jerrycan, MPN Bottle
- 9- **Date of Sample Collection :** 29/01/2025
- 10- **Analys Indented by :** RO Jhansi
- 11- **Date of sample receipt in Lab :** 30/01/2025

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	ND	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	3300	<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	0.0942	-
*Arsenic, APHA 24th Ed. 3114-Hydride Generation AAS Method 2023	mg/l	0.004	-

*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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 AHMAD KHAN
 Chief Environmental Officer
 Central Laboratory



REGIONAL LABORATORY JHANSI
UTTAR PRADESH POLLUTION CONTROL BOARD

Avas Vikas Colony, Talpura Yojna, Kanpur Road, Jhansi

TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-30264172/Jhansi/2025

Date:25/02/2025

- 1- **Sample Location:** DONGRI DAM, JHANSI
- 2- **District:** Jhansi
- 3- **Address:** JHANSI
- 4- **Sample Source:** River
- 5- **Type of sample :** Surface Water
- 6- **Sample Collected By :** Rishi Kumar Kushwaha , LA & Manoj Varma , JRF
- 7- **Odour :** None
- 8- **Quantity and Packing :** 2 Litre Plastic Jerrycan, DO Bottle
- 9- **Date of Sample Collection :** 29/01/2025
- 10- **Analyis Indented by :** RO Jhansi
- 11- **Date of sample receipt in Lab :** 31/01/2025

Parameter	Unit	Results	Detection Range
pH, APHA24th Ed.4500-B: 2023	-	7.87	02-12
Turbidity, APHA24th Ed 2130B	N.T.U	20	1-500NTU
Colour, APHA 24th Ed. 2120B: 2023	Hazen	5	5-10000 Hazen
Conductivity, APHA 24th Ed. 2510B :2023	µS/cm	330	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	234.0	5.0 -10000 mg/l
Total Solids, APHA24th Ed2540B: 2023	mg/l	248.0	5.0 -15000 mg/l
Hardness, APHA 24th Ed. 2340 °C EDTA Titrimetric Method 2023	mg/l	224	10.0 -5000 mg/l
Calcium, APHA 24th Ed. 3500Ca-B:2023	mg/l	122.0	10.0 -1000 mg/l
Magnesium, APHA 24th Ed 3500Mg B: 2023	mg/l	102.0	10-1000 mg/l
Chloride, APHA24th Ed 4500-Cl- B: 2023	mg/l	10.99	3.0 - 500 mg/l
Alkalinity, APHA 24th Ed. 2320:2023	mg/l	45	20-5000 mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	2.9	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	7.72	0.2-14.0 mg/l
Temp, APHA 2550 B (2-74) 24th Edition 2023, Laboratory and field Methods	°C	18	4 - 70 °C

*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
[Abhishek Kumar(LA), Krishna
Rawat(JRF), Anil Kumar Sharma(SA),
Manoj Verma(JRF), Rishi Kumar
Kushwaha (LA), Pradeep Kumar
Shukla(JRF)]

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Dr Madhvi Kamalvanshi (SO)

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Regional Officer



CENTRAL LABORATORY
UTTAR PRADESH POLLUTION CONTROL BOARD
 Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010



TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-30264318/CENTRAL/2025

Date:18/02/2025

- 1- **Sample Location:** RAILWAY DAM, JHANSI
- 2- **District:** Jhansi
- 3- **Address:** JHANSI
- 4- **Sample Source:** River
- 5- **Type of sample :** Surface Water
- 6- **Sample Collected By :** Rishi Kumar Kushwaha , LA & Manoj Varma , JRF
- 7- **Odour :** None
- 8- **Quantity and Packing :** 2 Litre Plastic Jerrycan, MPN Bottle
- 9- **Date of Sample Collection :** 29/01/2025
- 10- **Analys Indented by :** RO Jhansi
- 11- **Date of sample receipt in Lab :** 30/01/2025

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	0.0701	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	1.2680	0.01-1000mg/l
Total Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	1300	<1.8 MPN/100 ml & above
Fecal Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	780	<1.8 MPN/100 ml & above
*Manganese, APHA 24th Ed. 3500-Mg B Calculation Method 2023	mg/l	0.0807	-
*Arsenic, APHA 24th Ed. 3114-Hydride Generation AAS Method 2023	mg/l	0.004	-

*Non-NABL Parameters.

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Remark:* - NA

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

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Chief Environmental Officer
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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-30264344/Jhansi/2025

Date:25/02/2025

- 1- Sample Location: RAILWAY DAM, JHANSI
- 2- District: Jhansi
- 3- Address: JHANSI
- 4- Sample Source: River
- 5- Type of sample : Surface Water
- 6- Sample Collected By : Rishi Kumar Kushwaha , LA & Manoj Varma , JRF
- 7- Odour : None
- 8- Quantity and Packing : 2 Litre Plastic Jerrycan, DO Bottle
- 9- Date of Sample Collection : 29/01/2025
- 10- Analyis Indented by : RO Jhansi
- 11- Date of sample receipt in Lab : 31/01/2025

Parameter	Unit	Results	Detection Range
pH, APHA24th Ed.4500-B: 2023	-	7.67	02-12
Turbidity, APHA24th Ed 2130B	N.T.U	14	1-500NTU
Colour, APHA 24th Ed. 2120B: 2023	Hazen	5	5-10000 Hazen
Conductivity, APHA 24th Ed. 2510B :2023	μS/cm	532	0.1-10000 μS/cm
Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	12.0	5.0 -10000 mg/l
Dissolved Solids, APHA 24th Ed. 2540 °C Total Dissolved Solids dried at 180 °C 2023	mg/l	270.0	5.0 -10000 mg/l
Total Solids, APHA24th Ed2540B: 2023	mg/l	282.0	5.0 -15000 mg/l
Hardness, APHA 24th Ed. 2340 °C EDTA Titrimetric Method 2023	mg/l	206.0	10.0 -5000 mg/l
Calcium, APHA 24th Ed. 3500Ca-B:2023	mg/l	118.0	10.0 -1000 mg/l
Magnesium, APHA 24th Ed 3500Mg B: 2023	mg/l	88.0	10-1000 mg/l
Chloride, APHA24th Ed 4500-Cl- B: 2023	mg/l	14.49	3.0 - 500 mg/l
Alkalinity, APHA 24th Ed. 2320:2023	mg/l	50	20-5000 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	7.38	0.2-14.0 mg/l
Temp, APHA 2550 B (2-74) 24th Edition 2023, Laboratory and field Methods	°C	18	4 - 70 °C

*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
[Abhishek Kumar(LA), Krishna
Rawat(JRF), Anil Kumar Sharma(SA),
Manoj Verma(JRF), Rishi Kumar
Kushwaha (LA), Pradeep Kumar
Shukla(JRF)]

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Ali

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Regional Officer



CENTRAL LABORATORY
UTTAR PRADESH POLLUTION CONTROL BOARD
 Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010



TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-30264284/CENTRAL/2025

Date:18/02/2025

- 1- **Sample Location:** PAHUNJ RIVER, JHANSI
- 2- **District:** Jhansi
- 3- **Address:** DHOBIGHAT, JHANSI
- 4- **Sample Source:** River
- 5- **Type of sample :** Surface Water
- 6- **Sample Collected By :** Rishi Kumar Kushwaha , LA & Manoj Varma , JRF
- 7- **Odour :** None
- 8- **Quantity and Packing :** 2 Litre Plastic Jerrycan, MPN Bottle
- 9- **Date of Sample Collection :** 29/01/2025
- 10- **Analys Indented by :** RO Jhansi
- 11- **Date of sample receipt in Lab :** 30/01/2025

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	0.0065	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	1.3689	0.01-1000mg/l
Total Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	3300	<1.8 MPN/100 ml & above
Fecal Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	200	<1.8 MPN/100 ml & above
*Manganese, APHA 24th Ed. 3500-Mg B Calculation Method 2023	mg/l	0.1486	-
*Arsenic, APHA 24th Ed. 3114-Hydride Generation AAS Method 2023	mg/l	0.007	-

*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



REGIONAL LABORATORY JHANSI
UTTAR PRADESH POLLUTION CONTROL BOARD

Avas Vikas Colony, Talpura Yojna, Kanpur Road, Jhansi

TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-30264303/Jhansi/2025

Date:25/02/2025

- 1- Sample Location: PAHUNJ RIVER, JHANSI
- 2- District: Jhansi
- 3- Address: DHOBIGHAT, JHANSI
- 4- Sample Source: River
- 5- Type of sample : Surface Water
- 6- Sample Collected By : Rishi Kumar Kushwaha , LA & Manoj Varma , JRF
- 7- Odour : None
- 8- Quantity and Packing : 2 Litre Plastic Jerrycan, DO Bottle
- 9- Date of Sample Collection : 29/01/2025
- 10- Analysis Indented by : RO Jhansi
- 11- Date of sample receipt in Lab : 31/01/2025

Parameter	Unit	Results	Detection Range
pH, APHA24th Ed.4500-B: 2023	-	7.57	02-12
Turbidity, APHA24th Ed 2130B	N.T.U	18	1-500NTU
Colour, APHA 24th Ed. 2120B: 2023	Hazen	5	5-10000 Hazen
Conductivity, APHA 24th Ed. 2510B :2023	µS/cm	511	0.1-10000 µS/cm
Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	17.0	5.0 -10000 mg/l
Dissolved Solids, APHA 24th Ed. 2540 °C Total Dissolved Solids dried at 180 °C 2023	mg/l	301.0	5.0 -10000 mg/l
Total Solids, APHA24th Ed2540B: 2023	mg/l	318.0	5.0 -15000 mg/l
Hardness, APHA 24th Ed. 2340 °C EDTA Titrimetric Method 2023	mg/l	214.0	10.0 -5000 mg/l
Calcium, APHA 24th Ed. 3500Ca-B:2023	mg/l	178.0	10.0 -1000 mg/l
Magnesium, APHA 24th Ed 3500Mg B: 2023	mg/l	36.0	10-1000 mg/l
Chloride, APHA24th Ed 4500-Cl- B: 2023	mg/l	35.48	3.0 - 500 mg/l
Alkalinity, APHA 24th Ed. 2320:2023	mg/l	83	20-5000 mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	3.5	1.0 -1000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	15.64	4.0 -1000 mg/l
D.O. , APHA 24th Ed. 4500-OB Iodometric Method 2023	mg/l	6.16	0.2-14.0 mg/l
Temp, APHA 2550 B (2-74) 24th Edition 2023, Laboratory and field Methods	°C	18	4 - 70 °C

*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
[Abhishek Kumar(LA), Anil Kumar
Sharma(SA), Krishna Rawat(JRF),
Rishi Kumar Kushwaha (LA), Manoj
Verma(JRF), Pradeep Kumar
Shukla(JRF)]

Authorized by
Madhavi
Kamalvanshi
Dr Madhvi Kamalvanshi (SO)

Digitally signed by Madhavi
Kamalvanshi
Date: 2025.02.25 13:04:28
+05'30'

Imraan Ali Digitally signed by Imraan Ali
Date: 2025.02.25 17:02:53
+05'30'
Regional Officer



CENTRAL LABORATORY
UTTAR PRADESH POLLUTION CONTROL BOARD
 Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010



TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-30264228/CENTRAL/2025

Date:18/02/2025

- 1- **Sample Location:** Pahunj Dam, Jhansi
- 2- **District:** Jhansi
- 3- **Address:** Gwalior Road, Jhansi
- 4- **Sample Source:** River
- 5- **Type of sample :** Surface Water
- 6- **Sample Collected By :** Rishi Kumar Kushwaha , LA & Manoj Varma , JRF
- 7- **Odour :** None
- 8- **Quantity and Packing :** 2 Litre Plastic Jerrycan, MPN Bottle
- 9- **Date of Sample Collection :** 29/01/2025
- 10- **Analys Indented by :** RO Jhansi
- 11- **Date of sample receipt in Lab :** 30/01/2025

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	0.0171	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	1.3145	0.01-1000mg/l
Total Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	3400	<1.8 MPN/100 ml & above
Fecal Coliform, APHA 9221 24th Ed. : 2023	MPN/100 ml	400	<1.8 MPN/100 ml & above
*Manganese, APHA 24th Ed. 3500-Mg B Calculation Method 2023	mg/l	0.1396	-
*Arsenic, APHA 24th Ed. 3114-Hydride Generation AAS Method 2023	mg/l	0.007	-

*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)]

Authorized by
 Reeta Keshav
 Date: 2025.02.18
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 Reeta Keshav (ASO)

IMRAN
 AHMAD KHAN
 Chief Environmental Officer
 Central Laboratory

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 IMRAN AHMAD KHAN
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 15:35:44 +05'30'



**REGIONAL LABORATORY JHANSI
UTTAR PRADESH POLLUTION CONTROL BOARD**

Avas Vikas Colony, Talpura Yojna, Kanpur Road, Jhansi

TEST REPORT: WATER LABORATORY(SURFACE WATER)

Ref no-30264245/Jhansi/2025

Date:25/02/2025

- 1- **Sample Location:** Pahunj Dam, Jhansi
- 2- **District:** Jhansi
- 3- **Address:** Gwalior Road, Jhansi
- 4- **Sample Source:** River
- 5- **Type of sample :** Surface Water
- 6- **Sample Collected By :** Rishi Kumar Kushwaha , LA & Manoj Varma , JRF
- 7- **Odour :** None
- 8- **Quantity and Packing :** 2 Litre Plastic Jerrycan, DO Bottle
- 9- **Date of Sample Collection :** 29/01/2025
- 10- **Analysis Indented by :** RO Jhansi
- 11- **Date of sample receipt in Lab :** 31/01/2025

Parameter	Unit	Results	Detection Range
pH, APHA24th Ed.4500-B: 2023	-	7.53	02-12
Turbidity, APHA24th Ed 2130B	N.T.U	14	1-500NTU
Colour, APHA 24th Ed. 2120B: 2023	Hazen	5	5-10000 Hazen
Conductivity, APHA 24th Ed. 2510B :2023	µS/cm	530	0.1-10000 µS/cm
Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	15.0	5.0 -10000 mg/l
Dissolved Solids, APHA 24th Ed. 2540 °C Total Dissolved Solids dried at 180 °C 2023	mg/l	321.0	5.0 -10000 mg/l
Total Solids, APHA24th Ed2540B: 2023	mg/l	336.0	5.0 -15000 mg/l
Hardness, APHA 24th Ed. 2340 °C EDTA Titrimetric Method 2023	mg/l	264.0	10.0 -5000 mg/l
Calcium, APHA 24th Ed. 3500Ca-B:2023	mg/l	206.0	10.0 -1000 mg/l
Magnesium, APHA 24th Ed 3500Mg B: 2023	mg/l	58.0	10-1000 mg/l
Chloride, APHA24th Ed 4500-Cl- B: 2023	mg/l	38.98	3.0 - 500 mg/l
Alkalinity, APHA 24th Ed. 2320:2023	mg/l	60	20-5000 mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	3.4	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	6.25	0.2-14.0 mg/l
Temp, APHA 2550 B (2-74) 24th Edition 2023, Laboratory and field Methods	°C	18	4 - 70 °C

*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
[Abhishek Kumar(LA), Krishna
Rawat(JRF), Anil Kumar Sharma(SA),
Manoj Verma(JRF), Rishi Kumar
Kushwaha (LA), Pradeep Kumar
Shukla(JRF)]

Authorized by
Madhvi
Kamalvanshi
Dr Madhvi Kamalvanshi (SO)

Digitally signed by Madhvi
Kamalvanshi
Date: 2025.02.25 13:22:39 +05'30'

Imraan Ali
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Imraan Ali
Date: 2025.02.25
17:01:15 +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/>



संदर्भ सं०

Ref. No. H.25840/C-2/NGT-688/25

सेवा में,

नगर आयुक्त,
नगर निगम,
जनपद-झांसी।

दिनांक

Date 18/03/25.

पंजीकृत

विषय: माननीय राष्ट्रीय हरित अधिकरण, नई दिल्ली में योजित ओ०ए० सं०-593/2017 पर्यावरण सुरक्षा समिति व अन्य बनाम यूनियन ऑफ इण्डिया व अन्य में पारित आदेश दिनांक 21.05.2020 के अनुपालन में नगर निगम, झांसी के क्षेत्रान्तर्गत आच्छादित नया गॉव ड्रेन, लहरगिर्द बस स्टैण्ड ड्रेन, नियर प्रभु रामलाल आश्रम ड्रेन, राजघाट कॉलौनी ड्रेन, नियर जय एकेडमी ड्रेन एवं बिहाइन्ड गणेश बिहार कॉलौनी ड्रेन के माध्यम से पहुँज नदी में निस्तारित हो रहे सीवेज उत्प्रवाह के शुद्धिकरण हेतु समुचित सीवेज शुद्धिकरण व्यवस्था स्थापित न किये जाने के दृष्टिगत उत्तरदायी विभाग नगर निगम, झांसी के विरुद्ध रु० 16.10 करोड़ धनराशि की पर्यावरणीय क्षतिपूर्ति अधिरोपित किये जाने के सम्बन्ध में निर्गत कारण बताओ नोटिस दिनांक 25.02.2025 की पूर्ति किये जाने के सम्बन्ध में।

महोदय,

कृपया बोर्ड मुख्यालय के पत्रांक एच 24698/सी-2/एन०जी०टी०-688/25 दिनांक 25.02.2025 का संदर्भ ग्रहण करने का कष्ट करें, जिसके माध्यम से माननीय राष्ट्रीय हरित अधिकरण, नई दिल्ली में योजित ओ०ए० सं०-593/2017 पर्यावरण सुरक्षा समिति व अन्य बनाम यूनियन ऑफ इण्डिया व अन्य में पारित आदेश दिनांक 21.05.2020 के अनुपालन में नगर निगम, झांसी के क्षेत्रान्तर्गत आच्छादित नया गॉव ड्रेन, लहरगिर्द बस स्टैण्ड ड्रेन, नियर प्रभु रामलाल आश्रम ड्रेन, राजघाट कॉलौनी ड्रेन, नियर जय एकेडमी ड्रेन एवं बिहाइन्ड गणेश बिहार कॉलौनी ड्रेन के माध्यम से पहुँज नदी में निस्तारित हो रहे सीवेज उत्प्रवाह के शुद्धिकरण हेतु समुचित सीवेज शुद्धिकरण व्यवस्था स्थापित न किये जाने के दृष्टिगत उत्तरदायी विभाग नगर निगम, झांसी के विरुद्ध रु० 16.10 करोड़ धनराशि की पर्यावरणीय क्षतिपूर्ति अधिरोपित किये जाने के सम्बन्ध में कारण बताओ नोटिस जारी किया गया था।

उक्त कारण बताओ नोटिस को राज्य बोर्ड द्वारा पंजीकृत डाक के माध्यम से प्रेषित किया गया था, जिसे आन लाइन ट्रैक किये जाने से ज्ञात हुआ कि उक्त नोटिस आपको दिनांक 01.03.2025 को प्राप्त हो गया है, किन्तु आप द्वारा नोटिस के परिप्रेक्ष्य में राज्य बोर्ड को कोई उत्तर/प्रत्यावेदन उपलब्ध नहीं कराया गया है।

उपरोक्तानुसार निर्गत कारण बताओ नोटिस दिनांक 25.02.2025 के परिप्रेक्ष्य में राज्य बोर्ड के क्षेत्रीय अधिकारी, झांसी द्वारा पत्र दिनांक 17.03.2025 के माध्यम से कारण बताओ नोटिस की पूर्ति संबंधी संस्तुति आख्या बोर्ड मुख्यालय को उपलब्ध करायी गयी है। उक्त आख्यानुसार नगर निगम, झांसी के क्षेत्रान्तर्गत आच्छादित नया गॉव ड्रेन, लहरगिर्द बस स्टैण्ड ड्रेन, नियर प्रभु रामलाल आश्रम ड्रेन, राजघाट कॉलौनी ड्रेन, नियर जय एकेडमी ड्रेन एवं बिहाइन्ड गणेश बिहार कॉलौनी ड्रेन का निरीक्षण राज्य बोर्ड के क्षेत्रीय कार्यालय, झांसी द्वारा दिनांक 17.03.2025 को किया गया। आख्यानुसार उक्त वर्णित 06 ड्रेन में से 04 ड्रेन (नया गॉव ड्रेन, लहरगिर्द बस स्टैण्ड ड्रेन, नियर प्रभु रामलाल आश्रम ड्रेन, राजघाट कॉलौनी ड्रेन) को टैण्ड कर दिनांक 05.12.2024 से 26 एम०एल०डी० सीवेज शुद्धिकरण संयंत्र (एस०टी०पी०), ग्राम-लहरगिर्द में शुद्धिकृत किया जा रहा है तथा शेष 02 ड्रेन यथा नियर जय एकेडमी ड्रेन एवं बिहाइन्ड गणेश बिहार कॉलौनी ड्रेन के उत्प्रवाह के शोधन हेतु नगर निगम, झांसी द्वारा टैपिंग हेतु डी०पी०आर० तैयार कर लिया गया है किन्तु वर्तमान तक उक्त ड्रेन के टैपिंग का कार्य नहीं किया गया है।

उपरोक्त से स्पष्ट है कि आप द्वारा यद्यपि नगर निगम, झांसी के क्षेत्रान्तर्गत आच्छादित 04 ड्रेन (नया गॉव ड्रेन, लहरगिर्द बस स्टैण्ड ड्रेन, नियर प्रभु रामलाल आश्रम ड्रेन, राजघाट कॉलौनी ड्रेन) को टैण्ड कर दिनांक 05.12.2024 से 26 एम०एल०डी० सीवेज शुद्धिकरण संयंत्र (एस०टी०पी०), ग्राम-लहरगिर्द में शुद्धिकृत किया जा रहा है किन्तु शेष 02 ड्रेन यथा नियर जय एकेडमी ड्रेन एवं बिहाइन्ड गणेश बिहार कॉलौनी ड्रेन के उत्प्रवाह के टैपिंग का कार्य नहीं किया गया है।

उक्त के दृष्टिगत क्षेत्रीय अधिकारी, झांसी के पत्र दिनांक 17.03.2025 के माध्यम से माननीय राष्ट्रीय हरित अधिकरण, नई दिल्ली में योजित ओ०ए० सं०-593/2017 पर्यावरण सुरक्षा समिति व अन्य बनाम यूनियन ऑफ इण्डिया व अन्य में पारित आदेश दिनांक 21.05.2020 के अनुपालन में नगर निगम, झांसी के क्षेत्रान्तर्गत आच्छादित 04 ड्रेन (नया गॉव

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टी.सी. - 12 वी, विभूति खण्ड, गोमती नगर,

लखनऊ - 226 010

दूरभाष : 0522-2720828, 2720831

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Fax : 0522-2720764, 2720676

E-mail : info@uppcb.in

Website : www.uppcb.com 14 MID

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ड्रेन, लहरगिर्द बस स्टैण्ड ड्रेन, नियर प्रभु रामलाल आश्रम ड्रेन, राजघाट कॉलौनी ड्रेन) हेतु दिनांक 01.07.2020 से दिनांक 05.12.2024 तक (53 माह) एवं शेष 02 ड्रेन यथा नियर जय एकेडमी ड्रेन एवं बिहाइन्ड गणेश बिहार कॉलौनी ड्रेन के उत्प्रवाह के शोधन हेतु दिनांक 01.07.2020 से दिनांक 29.01.2025 तक (55 माह) हेतु शीवेज उत्प्रवाह के पूर्ण रूपेण शुद्धिकरण हेतु समुचित शुद्धिकरण व्यवस्था स्थापित न किये जाने के दृष्टिगत उत्तरदायी यथा नगर निगम, झांसी के विरुद्ध पर्यावरणीय क्षतिपूर्ति रू० 16.10 करोड़ अधिरोपित किये जाने की संस्तुति की गयी है।

अतः उपरोक्त वर्णित तथ्यों एवं राज्य बोर्ड के क्षेत्रीय अधिकारी, झांसी की संस्तुति को दृष्टिगत सक्षम अधिकारी के अनुमोदनोपरान्त कारण बताओ नोटिस दिनांक 25.02.2025 की पुष्टि करते हुये उत्तरदायी यथा नगर निगम, झांसी के विरुद्ध पर्यावरणीय क्षतिपूर्ति रू० 16.10 करोड़ (रू० सोलह करोड़ दस लाख मात्र) अधिरोपित की जाती है। उक्त पर्यावरणीय क्षतिपूर्ति धनराशि विलम्बतम् 15 दिवस में निम्नलिखित **Payment Gateway** एवं विवरण के माध्यम से जमा किया जाना सुनिश्चित किया जाये:-

Payment Gateway- <https://erp.eshiksa.net/DirectFeesv3/UPPCB>
Nature of Pollution- Water Pollution
EC imposed in compliance- NGT Order

संलग्नक: उपरोक्तानुसार।

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

1. जिलाधिकारी, झांसी।
2. क्षेत्रीय अधिकारी, उ०प्र० प्रदूषण नियंत्रण बोर्ड, झांसी।

सक्षम अधिकारी की अनुमति से निर्गत।

Atul K. Yadav
मुख्य पर्यावरण अधिकारी, वृत्त-2

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Atul K. Yadav
मुख्य पर्यावरण अधिकारी, वृत्त-2

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