National Mission for Clean Ganga

Site Visit Report for Pollution and Encroachment in Manorama/Manwar River, Basti, Uttar Pradesh

Date – 24.02.2026 to 25.02.2026

Site Visit Report:	Pollution and Encroachment in Manorama/Manwar River, Basti, Uttar Pradesh	**Location:**	Basti District, Uttar Pradesh
Date/Time:	24.02.2026 to 25.02.2026		

#	**Agenda items for the site visit**
	1. Core Assessments: Evaluate pollution sources (confirm no direct sewage discharge, verify irrigation canal escapes as non-polluting), map solid waste blockages from villages/temples causing stagnation, assess encroachments, river morphology, and water quality in the river. 2. Stakeholder Coordination: Conduct inter-departmental meetings with DM Basti, Irrigation, UPPCB for data provision (village disposal sites, SWM details), geotag sites, document with photographs, and draft action plan for rejuvenation.

Site Visit Attendees		
#	**Organization**	**Name**
1	NMCG	Dr. Kriti Varma, Project Officer
2	PMC	Mr. Harish Kumar Mahavar (Small River Rejuvenation Expert)

1 Introduction

1.1 Background and purpose of the visit

The Manorama/Manwar River in Basti district, Uttar Pradesh, has drawn attention from a VIP reference from Shri Harish Dwivedi, Hon'ble MP, Lok Sabha, dated 31.07.2025, highlighting pollution from untreated wastewater, industrial effluents, and encroachments along its banks. This river, with mythological and historical significance, faces degradation that threatens its ecological role in the region, prompting NMCG to examine interventions under its Small Rivers Rejuvenation program.

The site visit from 24.02.2026 to 25.02.2026 by the NMCG Small River Rejuvenation Team aims to conduct a comprehensive ground verification of pollution sources, encroachments, and river morphology to enable targeted rejuvenation measures. Key purposes include assessing remediation feasibility, coordinating with district departments for pending data like village disposal details and SWM status, and recommending nature-based solutions to restore flow obstructed by waste dumping. This aligns with NGT directives and government schemes like One District One River for sustainable river health.

1.2 Key officials met during the site visit

Flood Works Division-I Basti

Present Officer/Employee Visit S.R.R Team On dated - 24-02-2026

S.No.	Name of Officer/Employee	Post Name	Contact No.
1	Shri Dinesh Kumar	Executive Engineer	9919279197
2	Shri Sanjay Kumar Shukla	Assistant Engineer III	8853021800
3	Shri Sheelbhadra Singh	Assistant Engineer II	8707391518
4	Shri Atul Kumar	Junior Engineer	9451395668
5	Shri Shivcharan	Junior Engineer	9140377763
6	Shri Yogendra Pratap Chaudhary	Junior Engineer	9454885548
7	Shri Pradeep Kumar	Junior Engineer	7985436921
8	Shri Sanjay Kumar Singh	Junior Engineer	7317011872
9	Shri Jitendra Pratap	Junior Engineer	7408373351
10	Shri Ravi Kumar Prajapati	Junior Engineer	8299104025
11	Shri Jitendra Kumar Prajapati	Junior Engineer	8318348231
12.	Shri Amit Kumar Gupta	D.P.O Basti	7007485428

25.02.26 / 25.02.2026

S.No.	officer	Post Name	Contact
01.	Smt. Kshitija Jyotsana	DM	
02.	Shri Sarthak Agrawal	CDO	
03.	Dr. Shireen	DFO	9335052197
04.	Shri Dinesh Kumar	Excn Flood	9919279197
05.	Shri Sanjay Kr. Shukla	AE III	7317011872/8853021800
06.	" Sanjay Kr. Singh	JE	7317004872
07.	Shri Ashutosh Tiwari	EO office	8840142843
08.	Shri Amit Kumar Gupta	DPO	7007485428

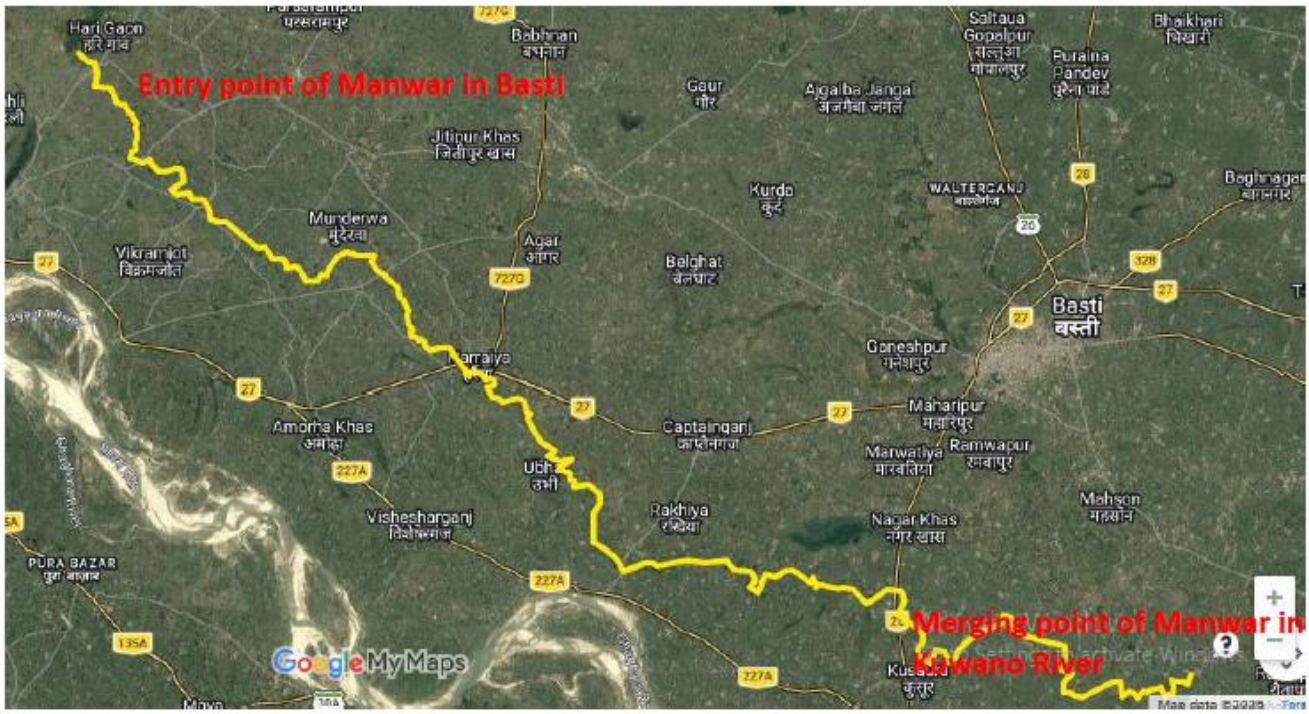

Figure 1: Manorama/Manwar River Map

2 Overview of the site visit -

2.1 Project background & technical details of the sites visited

The Manorama/Manwar River in Basti district, Uttar Pradesh, spans over 215 km, originating from Tirre Tal in Gonda district and flowing through Gonda (97 km) and Basti districts (115 km) before merging with the Kuwano River in Basti district. It holds cultural and religious significance as it flows near the historically important Makhaura Dham, which is a highly revered as it holds significant importance in Ramayana traditions. According to Hindu mythology, it is believed that Putreshti Yagya (sacred ritual for progeny) was performed here under the guidance of Sage Rishyashringa, which led to the birth of Rama, Lakshmana, Bharata, and Shatrughna to King Dasharatha.

It was observed during the site visit that no drains were falling directly into the river. However, the small drains from the village accumulates in ponds nearby which get merged with the river during monsoon, ultimately polluting the river. Solid waste pollution was also evident throughout the river stretch. No specific STP/ETT projects are presently under operation, but proposal for drain treatment through Nature-based Solutions (NbS) is under consideration.

2.2 Details of visit- Agenda

1. The site visit agenda for the Manorama/Manwar River followed a structured two-day plan, beginning with team assembly, travel to Basti, and initial briefing with District Magistrate and local officials including EO, DPRO, and Irrigation representatives.
2. Day 1: Introductory meeting with district officials and reconnaissance survey in the upstream region for pollution, encroachment, and solid waste issues, geotagging, baseline photography, and water quality spot checks.
3. Day 2: Detailed stretch-wise surveys in the downstream region covering solid waste blockages from villages, sewage pond inspections, and encroachment issues, stakeholder consultations for pending data, and action matrix drafting to support NMCG rejuvenation proposals.

2.2.1 Detailed Observations

Observations confirm that no drains from the village directly enters the river. However, the waste water from villages accumulates in ponds which ultimately

merges with the river during monsoon season. The river was found to be highly polluted due to solid waste dumping and agricultural run-off from adjacent fields into the river causing reduced flow, stagnation, and eutrophic conditions. The list of canal escape drains, as obtained by Irrigation Department, Basti were observed to be non-polluting and not discharging sewage or effluents into the river. Harraiya administration manages sewage collection in dedicated ponds, preventing direct river discharge; major town on the bank is Harraiya.

Water Quality at Key Locations (Reported by UP Pollution Control Board):

Location	pH	DO (mg/L)	BOD (mg/L)	COD (mg/L)
Makhaura Dham	7.25	4.06	6.8	36.0
Harraiya (LKO-GKP Bridge)	7.36	2.11	10.2	51.2

Water quality shows organic loading with BOD exceeding bathing class limits at Harraiya, consistent with stagnation from waste blockages.

2.3 Recommendations & Action Plan for Rejuvenation of Manwar/Manorama River

Department/Agency	Responsibility	Action Items	Timeline
District Administration	Coordination, data provision	Submit pending data; remove encroachments	1-3 months
Irrigation Department	Drain monitoring	Ensure no sewage in canal escape drains	Every month
UPPCB	Water quality monitoring	Regular sampling	Every month
NMCG	River quality improvement & rejuvenation	NbS for liquid waste management, river bank stabilization through riparian buffers, e-flow augmentation.	12 months

2.4 Conclusion

Manwar/ Manorama river is highly polluted from solid waste disposal and agricultural run-off. The drains from villages do not discharge waste directly into the river but accumulates in ponds nearby which ultimately merges into the river during monsoon. The water quality, as reported by UP-PCB raises concern. Primary degradation stems from solid waste dumping by riverside villages and temples, causing complete blockages and stagnation across the stretch.

Immediate priority is solid waste management, community awareness, and data submission from district authorities to enable NMCG's Small Rivers Rejuvenation interventions, including NbS measures, ensuring ecological restoration and sustained flow.

Site Visit Photographs:

Figure 2: Manwar River starting point in District Basti, UP (Distrct boundary of Gonda & Basti

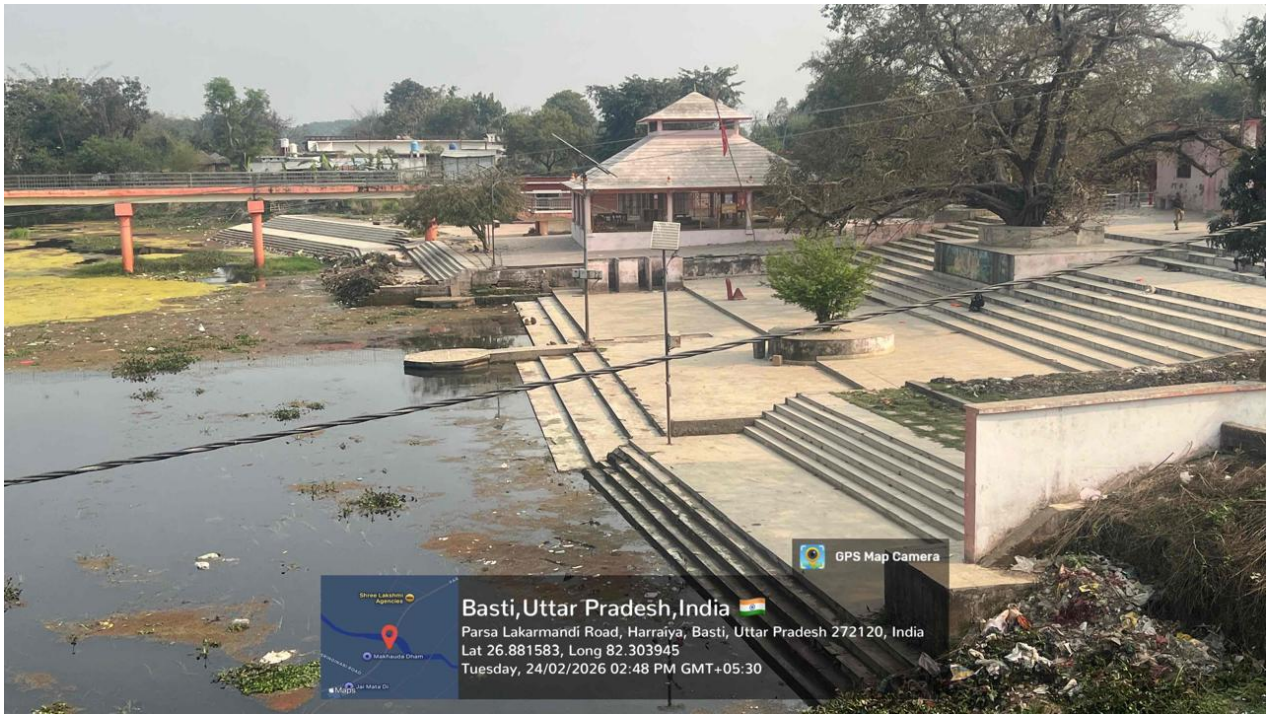

Figure 3: Solid waste dumping at Makhaura Dham, Harraya, Basti, UP

Figure 4: Stagnant water at Makhaura Dham, Harraya, Basti, UP

Figure 5: Drain at Makhaura Dham, Harraya, Basti, UP

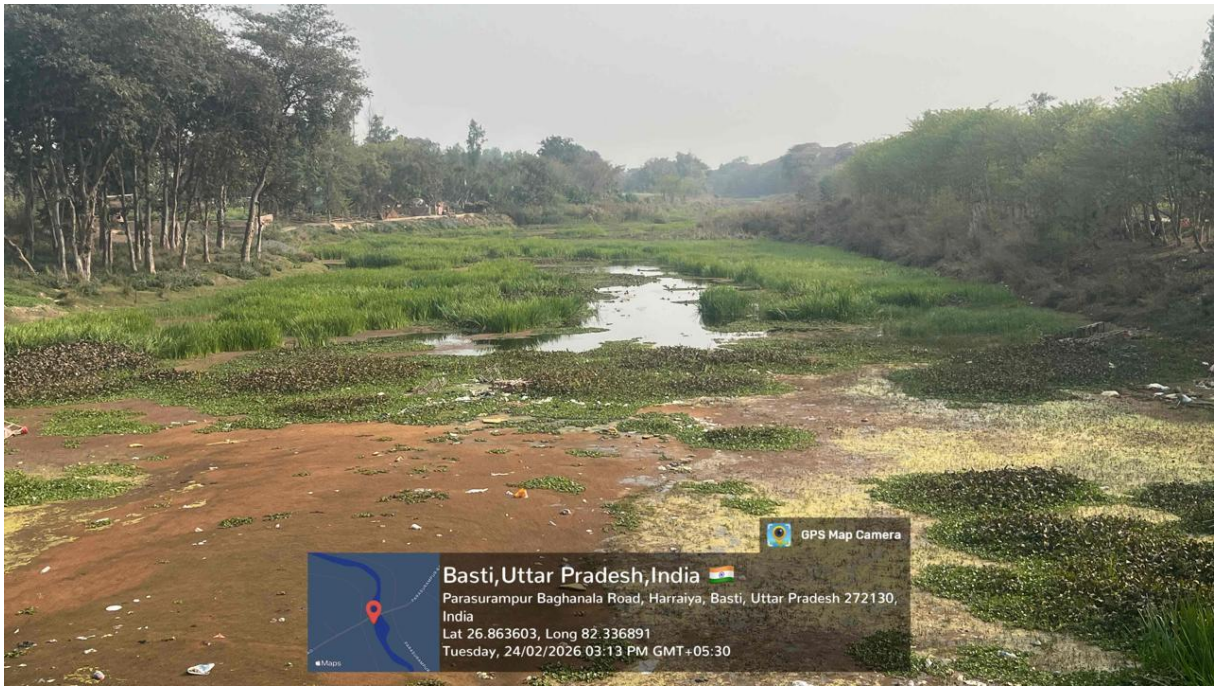

Figure 6: Stagnant Water at Parasurampur Baghanala Road, Harraiya, Basti, UP

Figure 7: Encroachment at Dhusainiya Sringinari Road, Harriya, Basti, UP

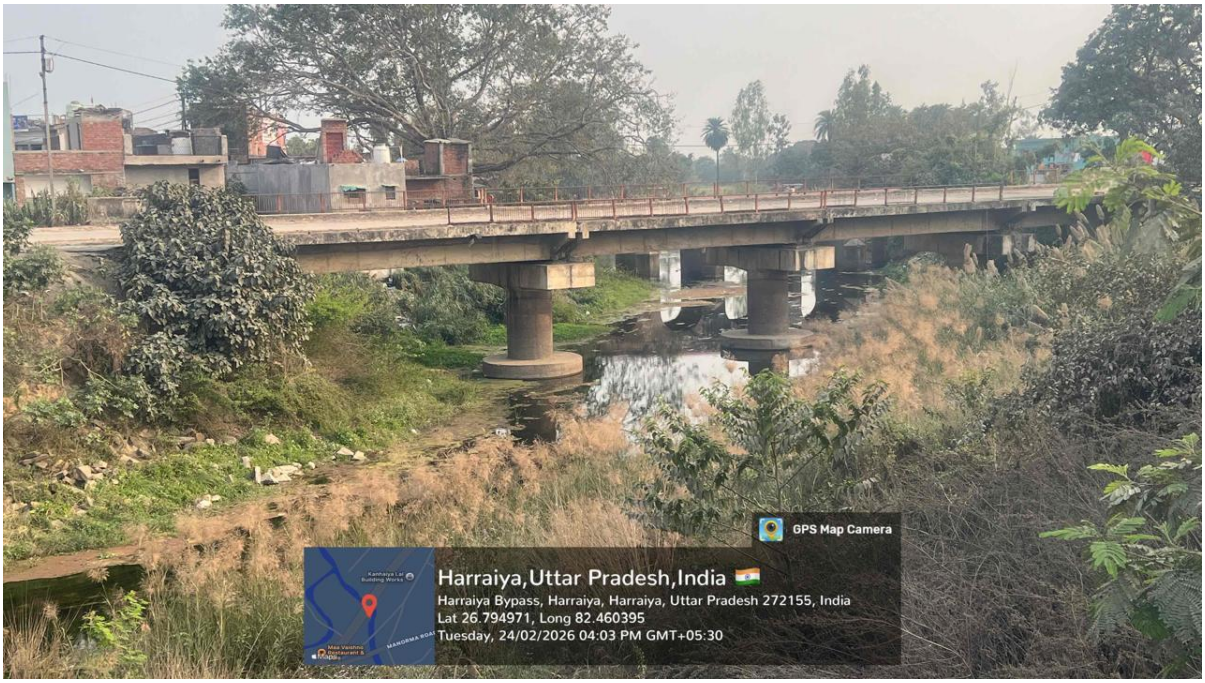

Figure 8: Harriya Bypass, Harriya, UP

Figure 9: Sewage collection pond in Harriya, UP

Figure 10: Another Sewage collection pond at Harriya, UP

List of Canal Escape Drains

कार्यालय सरयू नहर खण्ड–4, बस्ती

मनवर नदी मे आकर मिलने वाले नालों का विवरण

Sl. No.	Name of drain	Origin	Tail end	Length (Km.)	Discharge (Cusec)	Discharge (Cumec)
1	2	3	4	5	6	7
1	हढ़ही ड्रेन	हढ़ही ताल	मनवर नदी	1.000	57.30	1.62
2	रोहरौली ड्रेन	रोहरौली ताल	मनवर नदी	6.460	57.35	1.62
3	श्रीपतपुर ड्रेन	श्रीपतपुर ताल	मनवर नदी	5.000	24.44	0.69
4	ऐलहवा ड्रेन	ऐलहवा ताल	मनवर नदी	2.900	85.80	2.43
5	बसंतपुर ड्रेन	गलौरीखुर्द	मनवर नदी	6.020	52.00	1.47
6	भदेपुर पेनहबाबू ड्रेन	भदेपुर ताल	मनवर नदी	2.800	41.24	1.17
7	बनगवाँ ड्रेन	बनगंवा ताल	मनवर नदी	2.100	30.88	0.87
8	बदाशी ड्रेन	बदाशी ताल	मनवर नदी	5.000	73.68	2.09
9	मझारी ड्रेन	मझारी ताल	मनवर नदी	4.900	72.12	2.04
10	सेमरा चीगन ड्रेन	सेमरा चीगन ग्राम	मनवर नदी	0.900	13.28	0.38
11	पिलाई ड्रेन	पिलाई ग्राम	मनवर नदी	2.900	42.64	1.21
12	रसूलपुर खखौरा ड्रेन	रसूलपुर खखौरा ताल	मनवर नदी	1.100	16.20	0.46
13	मनवा ड्रेन	मनवा ताल	मनवर नदी	0.950	14.04	0.40
14	घोरगहवा ड्रेन	घोरगहवा ग्राम	मनवर नदी	12.200	179.60	5.09
15	श्रृंगीनारी ड्रेन	धवई ताल	मनवर नदी	17.600	399.05	11.30
16	कुसौरा ड्रेन	कुसौरा ग्राम	मनवर नदी	13.100	289.58	8.20
17	गोरिया ड्रेन	चंदोताल	मनवर नदी	11.000	600.00	16.99
18	रामरेखा ट्रंक ड्रेन	तालगाव ताल	मनवर नदी	37.400	1434.41	40.60

अधिशासी अभियंता
सरयू नहर खण्ड-4, बस्ती

Water Quality Report of Manoram River Harriya 32542402

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-32542402/CENTRAL/2025 Date:17/07/2025

1- Sample Location: MANORAMA RIVER NEAR LKO-GKP ROAD BRIDGE, HARRAIYA
2- District: Basti
3- Address: NEAR LKO-GKP ROAD BRIDGE, HARRAIYA, BASTI
4- Sample Source: River
5- Type of sample : Surface Water
6- Sample Collected By : Nitish Kumar Saudarshi, J.E.
7- Odour : None
8- Quantity and Packing : 2 Litre Plastic Jerican & D.O. Bottle
9- Date of Sample Collection : 24/06/2025
10- Analyis Indented by : RO Basti
11- Date of sample receipt in Lab : 25/06/2025

Parameter	Unit	Results	Detection Range
pH, APHA24th Ed.4500-B: 2023	-	7.36	02-12
Colour, APHA 24th Ed. 2120B: 2023	Hazen	50	5-10000 Hazen
Conductivity, APHA 24th Ed. 2510B :2023	µS/cm	324.4	0.1-10000 µS/cm
Dissolved Solids, APHA 24th Ed. 2540 °C Total Dissolved Solids dried at 180 °C 2023	mg/l	227.0	5.0 -10000 mg/l
Hardness, APHA 24th Ed. 2340 °C EDTA Titrimetric Method 2023	mg/l	103.0	10.0 -5000 mg/l
Chloride, APHA24th Ed 4500-Cl- B: 2023	mg/l	10.0	3.0 - 500 mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	10.2	1.0 -1000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	51.2	4.0 -1000 mg/l
D.O. , APHA 24th Ed. 4500-OB Iodometric Method 2023	mg/l	2.11	0.2-14.0 mg/l

*Non-NABL Parameter.

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

Analyzed by
[Jyoti Tiwari (SA)]

Authorized by
Reeta Keshav
Reeta Keshav (ASO)

IMRAN
Chief Environment Officer

Water Quality Report of Manorama River Makhaura Dham 32542352

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-32542352/CENTRAL/2025 **Date:17/07/2025**

1- **Sample Location:** MANORAMA RIVER NEAR MAKHAUDA DHAM, HARRAIYA BASTI
2- **District:** Basti
3- **Address:** MAKHAUDA DHAM, VILL-MAKHAUDA, HARRAIYA BASTI
4- **Sample Source:** River
5- **Type of sample :** Surface Water
6- **Sample Collected By :** Nitish Kumar Sundarbhi, J.E.
7- **Odour :** None
8- **Quantity and Packing :** 2 Liter Plastic Jerican & D.O. Bottle
9- **Date of Sample Collection :** 24/06/2025
10- **Analyis Indented by :** RO Basti
11- **Date of sample receipt in Lab :** 25/06/2025

Parameter	Unit	Results	Detection Range
pH, APHA24th Ed.4500-B: 2023	-	7.25	02-12
Colour, APHA 24th Ed. 2120B: 2023	Hazen	30	5-10000 Hazen
Conductivity, APHA 24th Ed. 2510B :2023	µS/cm	364.1	0.1-10000 µS/cm
Dissolved Solids, APHA 24th Ed. 2540 °C Total Dissolved Solids dried at 180 °C 2023	mg/l	255.0	5.0 -10000 mg/l
Hardness, APHA 24th Ed. 2340 °C EDTA Titrimetric Method 2023	mg/l	121.0	10.0 -5000 mg/l
Chloride, APHA24th Ed 4500-Cl- B: 2023	mg/l	12.0	3.0 - 500 mg/l
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	6.8	1.0 -1000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	36.0	4.0 -1000 mg/l
D.O. , APHA 24th Ed. 4500-OB Iodometric Method 2023	mg/l	4.06	0.2-14.0 mg/l

*Non-NABL Parameter.

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

Analyzed by
[Jyoti Tiwari (SA)]

Authorized by
Reeta Keshav (ASO)

IMRAN AHMAD KHAN
Chief Environmental Officer
Central Laboratory