

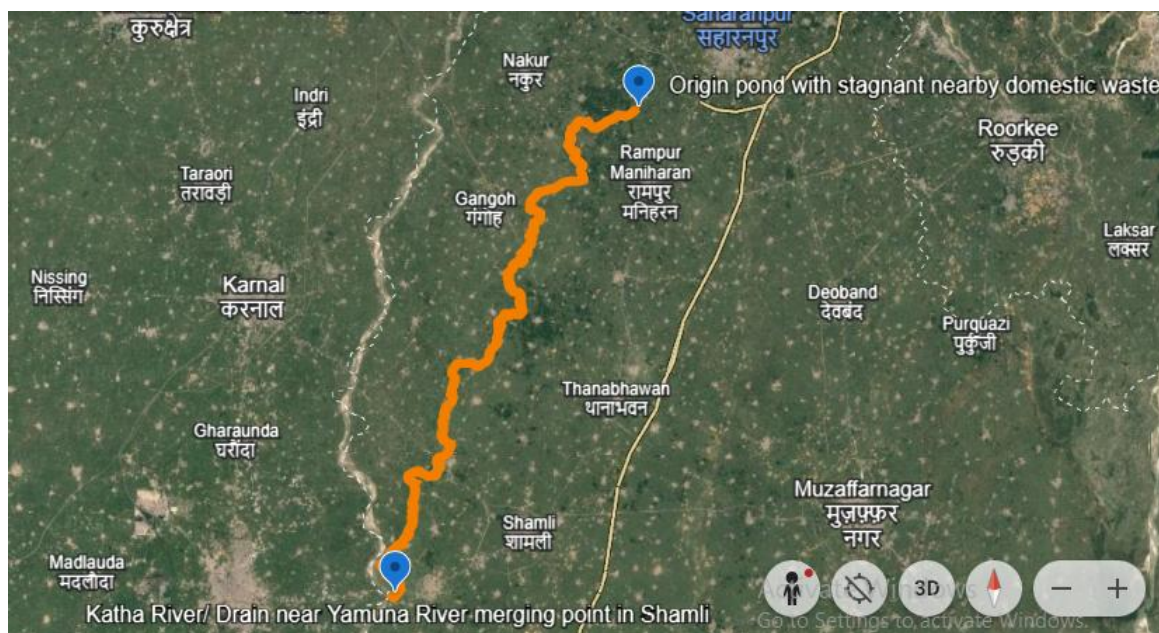


Site Visit Report
for
Katha River/ Drain in Saharanpur and
Shamli, Uttar Pradesh

Date of visit– 20.01.2026 to 22.01.2026

Executive Summary

The Katha River, originating from the Shivalik foothills in Saharanpur district, Uttar Pradesh, flows through villages like Radaur and Kaula Kheri before entering Shamli district near Akapur Phusgarh and Mudet Khadar. Documented as "Katha Nadi" in Survey of India toposheets (H43R2) and revenue records across multiple villages, it serves as a rain-fed tributary of the Yamuna, historically vital for irrigation, drinking water, and groundwater recharge. The Honorable National Green Tribunal, in Original Application No. 546/2025, vide order dated 03.11.2025, directed concerned departments to take note of the environmental degradation, encroachment, and pollution issues in the river.



1. Site Visit Report Details

Visiting Team

S. No.	Organization/Department	Designation	Name
1	NMCG	Project Officer	Dr. Kriti Varma
2	NMCG	Small River Rejuvenation Expert	Mr. Harish Kumar Mahavar
3	UPPCB, Saharanpur	Regional Officer	Mr. Yogender
4	Irrigation Division, Saharanpur	Assistant Engineer	Mr. Vinod Kumar
5	Irrigation Division, Saharanpur	Junior Engineer	Mr. Satya Kumar
6	Irrigation Division, Saharanpur	Junior Engineer	Mr. Gurdeep Singh
7	Irrigation Division, Saharanpur	Junior Engineer	Mr. Udham Singh
8	Panchayat Raj Vibhag	Consulting Engineer	Mr. Vinay Sharma

9	DGC, Saharanpur	DPO	Mr. Pranav
10	DGC, Shamli	DPO	Mr. Sonu kumar
11	PCB, Shamli	Assistant Engineer	Mr. Santosh Kumar
12	Drainage, Shamli	Assistant Engineer	Mr. Sanjay Kumar Mittal
13	Development Block, Kairana	Assistant BDO	Mr. Rahul kumar
14	PCB, Shamli	JRF	Mr. Diwaker Gehlot

2. Introduction

Background and Purpose of the Visit

The Katha River/ Drain, a tributary of the Yauna River, with a total length of ~110 km (58 km in Saharanpur, and 52.3km in Shamli district) originates from Shivalik foothills and flows through Radaur and Kaula Kheri villages before entering Shamli district near Akapur, Phusgarh, and Mudet Khadar. It traverses Shamli villages including Shamla, Rasana, Rangana, Jhinhana, Paoti Khurd, and Bibipur Reserve Forest, continuing through Dabheri Khurd, Isapur Khurgyan, and Nagla Rai, before merging with the Yamuna River near Haiderpur and Mawi villages in Shamli district.

3. Objectives of the Site Visit:

The site visit was undertaken to:

- Assess existing pollution (sewage discharge, MSW dumping, algal proliferation) and encroachments at geotagged coordinates in Saharanpur-Shamli stretch.
- Assess hydrological degradation extent and natural flow obstruction causes for NGT OA 546/2025 compliance.
- Verify Katha watercourse classification through revenue records, historical gazetteers, and Survey of India toposheets, resolving storm drain vs. river discrepancy.
- Coordinate inter-departmental action matrix (District Administration, Irrigation, Revenue, UPPCB, Municipal Corporations) for immediate remediation.
- Recommend scientific restoration measures including bed demarcation, sewage diversion, and stormwater flow revival.

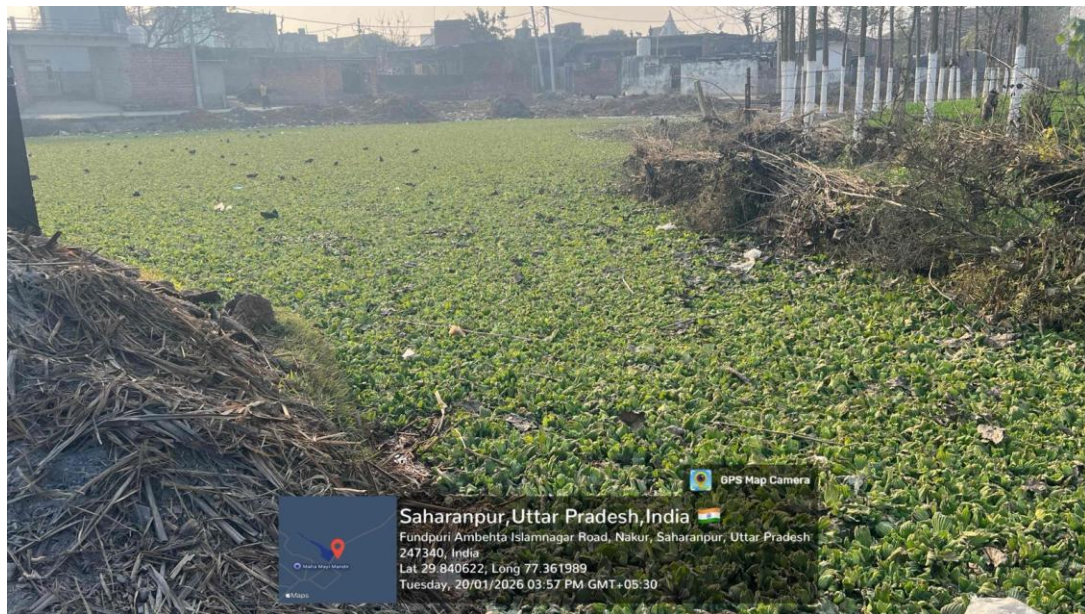
4. Key Observations During the Visit Saharanpur

Location 1: Fundpuri Ambehta Islamnagar Road, Nakur, Saharanpur

Coordinates: Lat 29.840622°, Long 77.361999°

Observations:

- i. **Visible Pollution:** Dense algal bloom covering entire water surface (green aquatic vegetation layer)
- ii. **Solid Waste:** Plastic and municipal waste scattered on banks
- iii. **Primary Issue:** Water eutrophication with heavy organic matter accumulation
- iv. **Status:** Active sewage inflow (visible discharge points)



Location 1: Stagnant nearby domestic waste at Fundpuri Ambehta Islamnagar Road, Nakur, Saharanpur

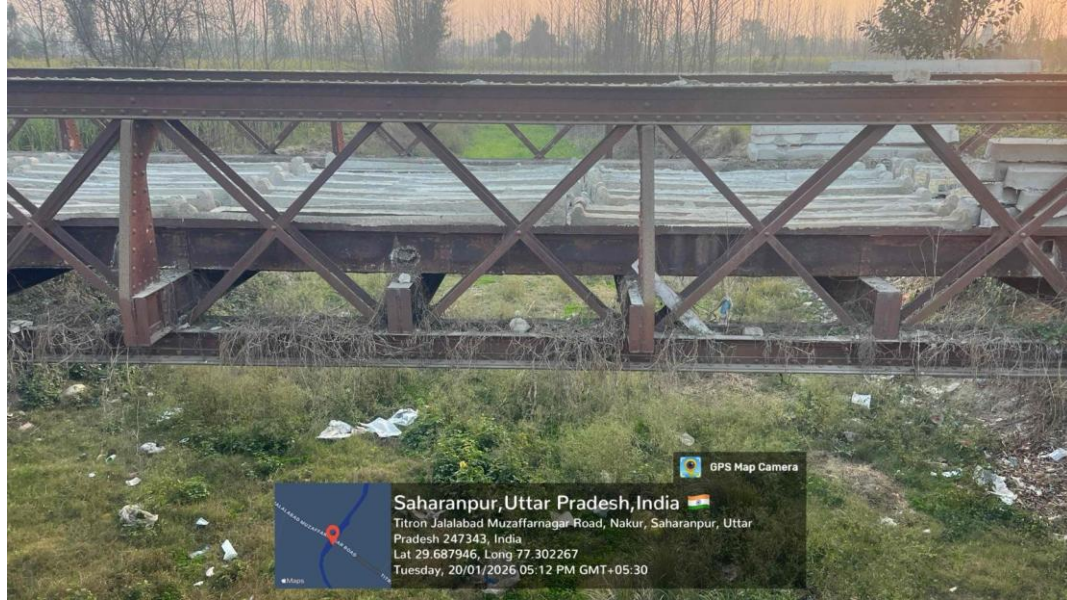
Location 2: Titron Jalalabad Muzaffarnagar Road, Nakur, Saharanpur

Coordinates:

- i). Bridge location: Lat 29.687946°, Long 77.302267°
- ii). Downstream site: Lat 29.686019°, Long 77.302320°

Observations at Bridge:

- i). **Hydraulic Status:** Minimal water flow observed; stagnant conditions
- ii). **Vegetation:** Sparse aquatic vegetation on banks; signs of pollution stress
- iii). **Access:** Bridge partially provides access over the drain
- iv). **Status:** No active natural flow; bridge serving as physical obstruction



Location 2: Titron Jalalabad Muzaffarnagar Road, Nakur, Saharanpur (Bridge Location)

Observations Downstream (Lat 29.686019°):

- i). **Waste Accumulation:** Scattered plastic and solid waste on streambed
- ii). **Water Level:** Completely dried-up



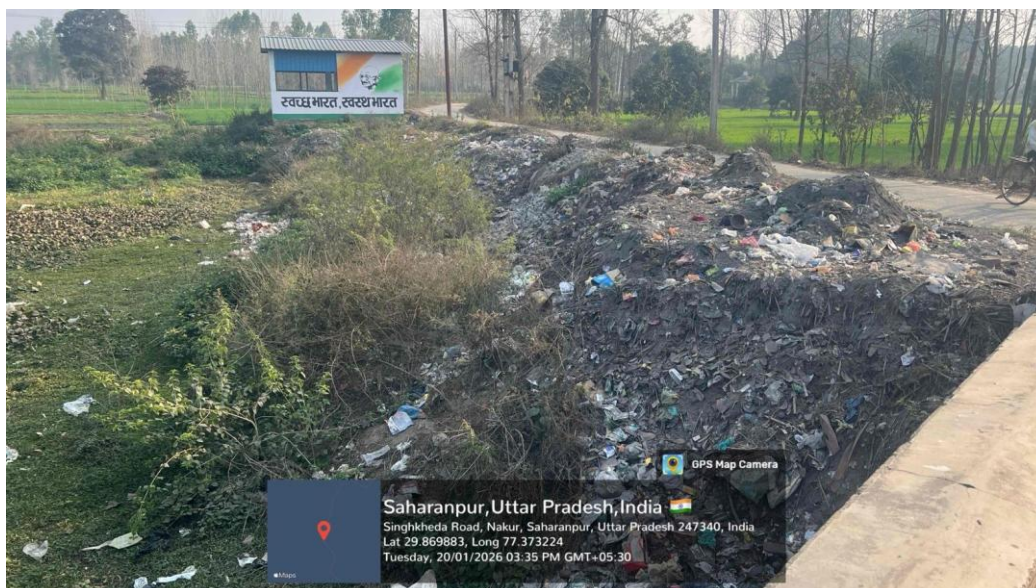
Location 2: Titron Jalalabad Muzaffarnagar Road, Nakur, Saharanpur (Downstream)

Location 3: Municipal Waste Dumping Site – Singkheda Road, Saharanpur

Coordinates: Lat 29.869880°, Long 77.373224°

Observations:

- i). **Primary Issue:** Large-scale municipal solid waste (MSW) dumping directly into drain
- ii). **Waste Types:** Domestic waste
- iii). **Encroachment Status:** Effective encroachment through waste dumping



Location 3: Municipal Waste Dumping Site – Singkheda Road, Saharanpur

Location 4: Drain Section with Bank Stabilization

Coordinates: Lat 29.872337°, Long 77.406188°

Observations:

- i). **Bank Conditions:** Partially stabilized banks with stone/brick reinforcement at certain points
- ii). **Vegetation:** Dense riparian vegetation (willows, poplars) planted along banks
- iii). **Access:** Walking paths visible along drain banks
- iv). **Water Presence:** Stagnant water with algal bloom; minimal flow velocity

- v). **Encroachment Form:** Effective use of drain as dumping ground and access path rather than formal encroachment structures



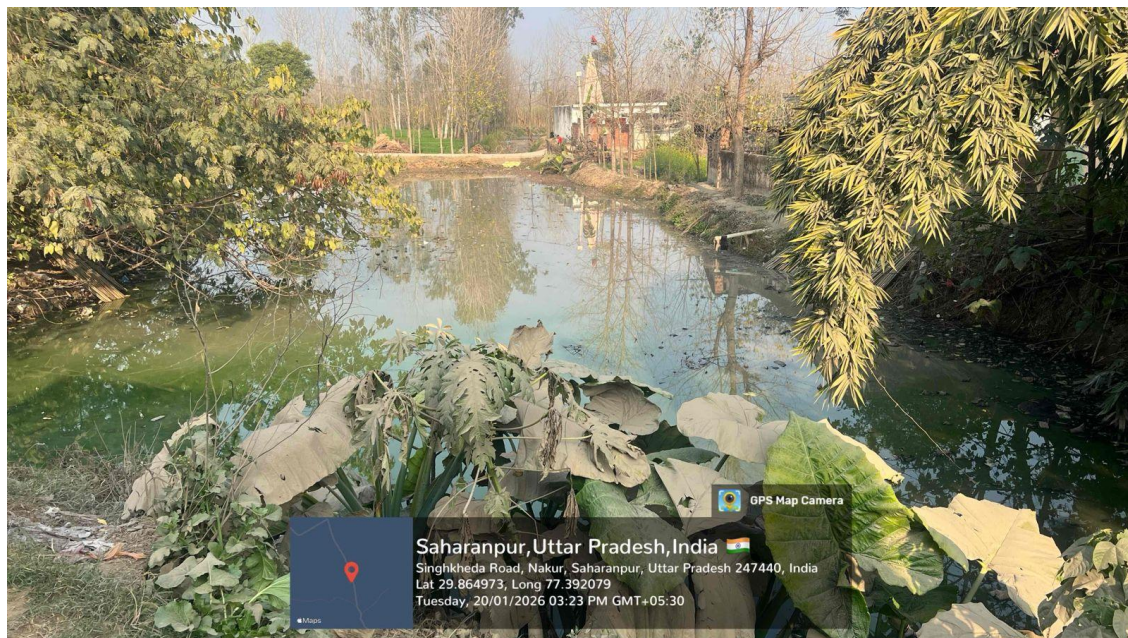
Location 4: Drain Section with Bank Stabilization & stagnant nearby domestic waste

Location 5: Drain with Lush Vegetation Cover – Singkheda Road

Coordinates: Lat 29.864973°, Long 77.392057°

Observations:

- i). **Vegetation Type:** Mature poplar and willow plantations on both banks
- ii). **Water Presence:** Visible stagnant water body with green algal surface
- iii). **Aquatic Plants:** Water hyacinth and other invasive aquatic weeds present
- iv). **Adjacent Land Use:** Agricultural areas visible
- v). **Status:** Drain functions as seasonal wetland/stagnant pond rather than flowing water body



Location 5: Drain with Lush Vegetation Cover & stagnant nearby domestic waste –
Singhkheda Road

Location 6: Drain Section with Visible Pollution – Singhkheda Road

Coordinates: Lat 29.864869°, Long 77.392023°

Observations:

- i). **Pollution Type:** Untreated sewage evident; dark discolored water with organic debris
- ii). **Riparian Vegetation:** Sparse due to pollution stress
- iii). **Animal Activity:** Birds and aquatic fauna absent (indicating ecological dead zone)
- iv). **Smell/Odor:** Strong odor of decomposition and sewage
- v). **Status:** Active pollution zone requiring immediate remediation



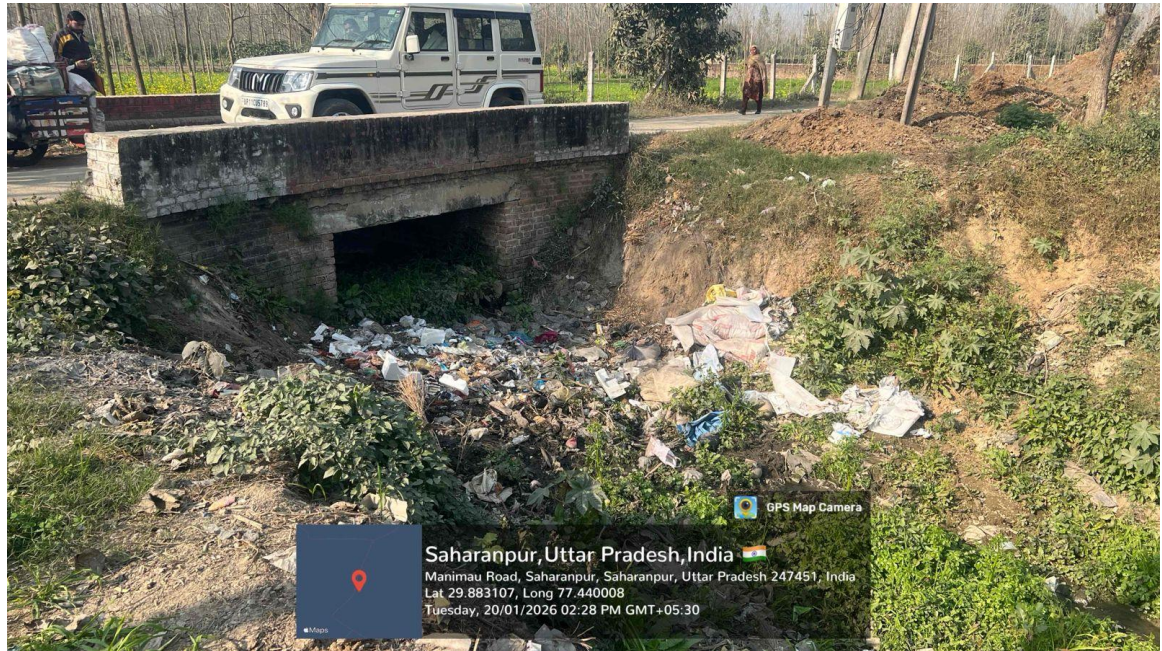
Location 6: Drain Section with Visible Pollution – Singhkheda Road

Location 7: Drain at Manimau Road, Saharanpur

Coordinates: Lat 29.883108°, Long 77.440005°

Observations:

- i). **Water Condition:** Stagnant water with limited flow
- ii). **Algal Status:** Green algae bloom present
- iii). **Bank Access:** Accessible from road; informal pathways visible
- iv). **Vegetation:** Sparse vegetation; ground-level aquatic plants
- v). **Encroachment Pattern:** Minor – primarily from livestock access and informal pathways



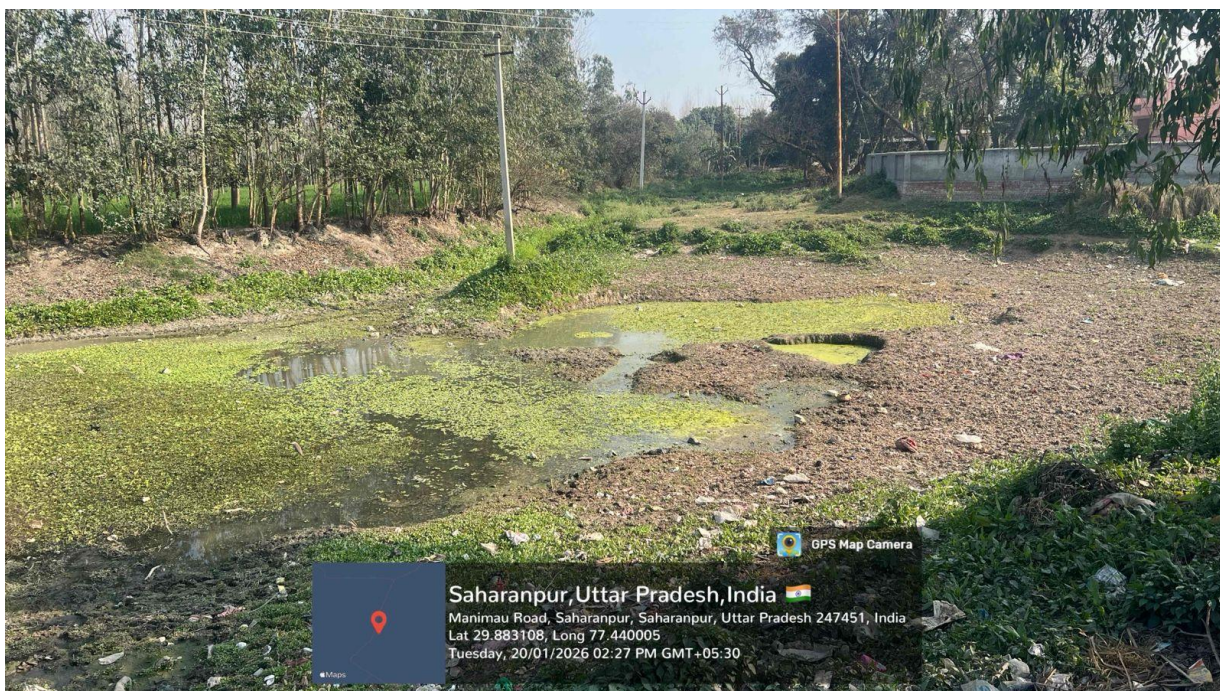
Location 7: Drain at Manimau Road, Saharanpur

Location 8: Drain Course – Manimau Road Section (Naya Bans)

Coordinates: Lat 29.883107°, Long 77.440007°

Observations:

- i). **Flow Status:** Minimal water movement; nearly stagnant conditions
- ii). **Sediment Deposition:** Significant silt and organic matter accumulation on bed
- iii). **Vegetation Pattern:** Riparian vegetation restricted; willows in scattered patches
- iv). **Agricultural Interface:** Drain borders agricultural fields; runoff from fields enters drain



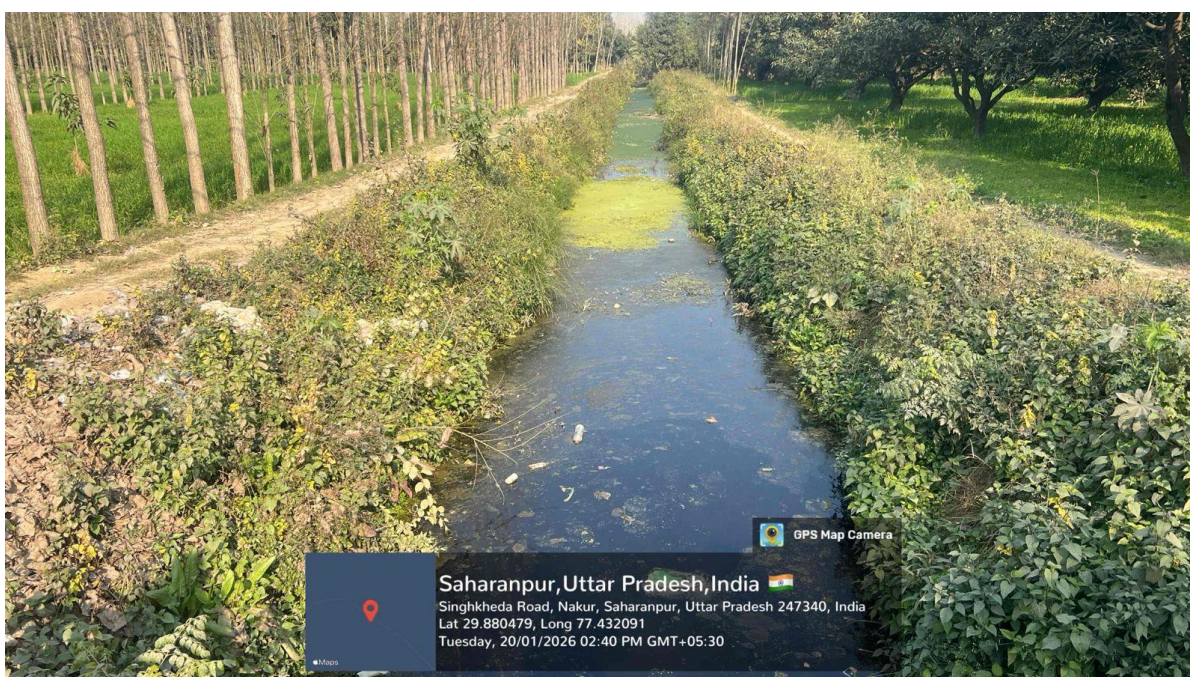
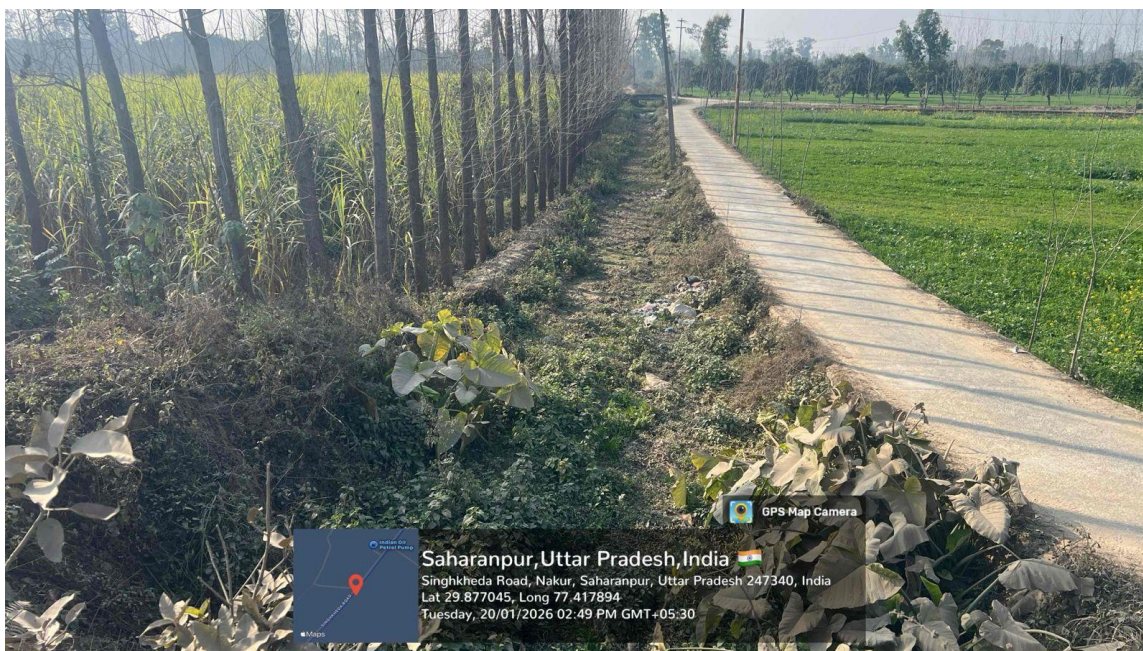
Location 8: Origin Pond & stagnant nearby domestic waste – Manimau Road Section
(Naya Bans)

Location 9: Poplar Plantation with Drain – Singkheda and Manimau Roads

Coordinates: Lat 29.877045°, Long 77.417894° to Lat 29.880479°, Long 77.432091°

Observations:

- i). **Agroforestry Integration:** Dense poplar/willow plantation established as riparian buffer
- ii). **Drain Accessibility:** Drain runs through/alongside plantation area
- iii). **Water Level:** Low; visible only in certain sections
- iv). **Agricultural Benefit:** Banks stabilized; agroforestry provides economic benefit while protecting drain margins
- v). **Encroachment Status:** No formal encroachment in plantation area



Location 9: Poplar Plantation with Drain – Singkheda and Manimau Roads

Shamli

Location 1: Merging point of Katha with Yamuna

Coordinates: Lat 29.386413°, Long 77.158207° **Observations:**

- i). **Water Level:** No water
- ii). **Channel:** No proper channel evident
- iii). **Encroachment Status:** No formal encroachment in plantation area



Location 1: Merging point of Katha with Yamuna

Location 2: Dry channel at Titron, Jalalabad

Coordinates: Lat 29.386541°, Long 77.162161°

Observations:

- i). **Waste Accumulation:** Scattered plastic and solid waste on streambed
- ii). **Water Level:** Completely dried-up



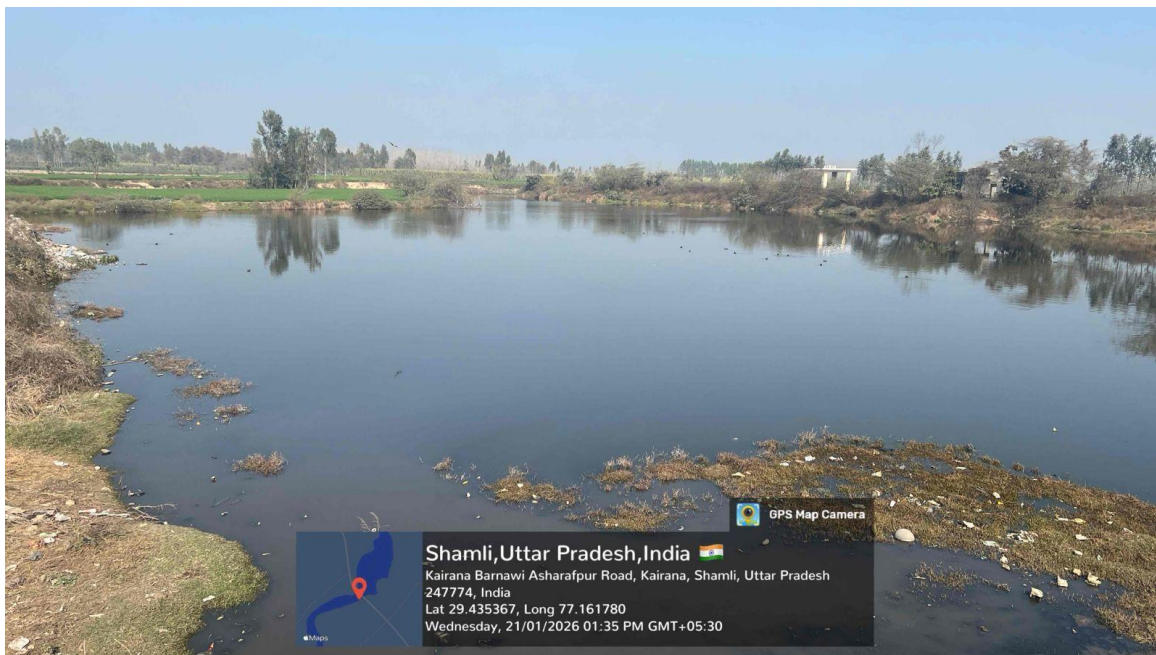
Location 2: Dry channel at Titron, Jalalabad

Location 3: Kairana, Ashrafpur

Coordinates: Lat 29.435367°, Long 77.161780°

Observations:

- i). **Pollution Type:** Untreated sewage evident; dark discolored water with organic debris
- ii). **Riparian Vegetation:** Sparse due to pollution stress
- iii). **Animal Activity:** Birds and aquatic fauna absent (indicating ecological dead zone)
- iv). **Smell/Odor:** Strong odor of decomposition and sewage
- v). **Status:** Active pollution zone requiring immediate remediation



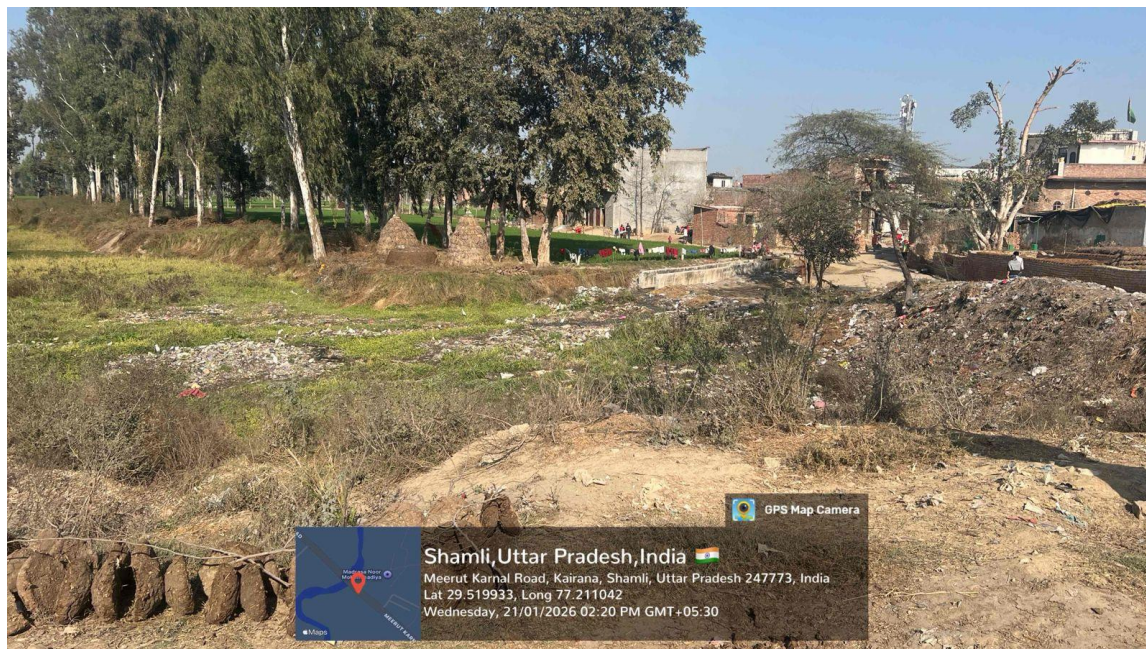
Location 3: Stagnant nearby domestic waste at Kairana, Ashrafpur

Location 4: Drain at Un, Meerut-Karnal Road

Coordinates: Lat 29.519934°, Long 77.211039°

Observations:

- i). **Flow Status:** Domestic discharge from the surrounding village
- ii). **Solid waste:** Found dumped along the drain
- iii). **Liquid waste:** Domestic sewage
- iv). **Agricultural Interface:** Drain borders agricultural fields; runoff from fields enters drain



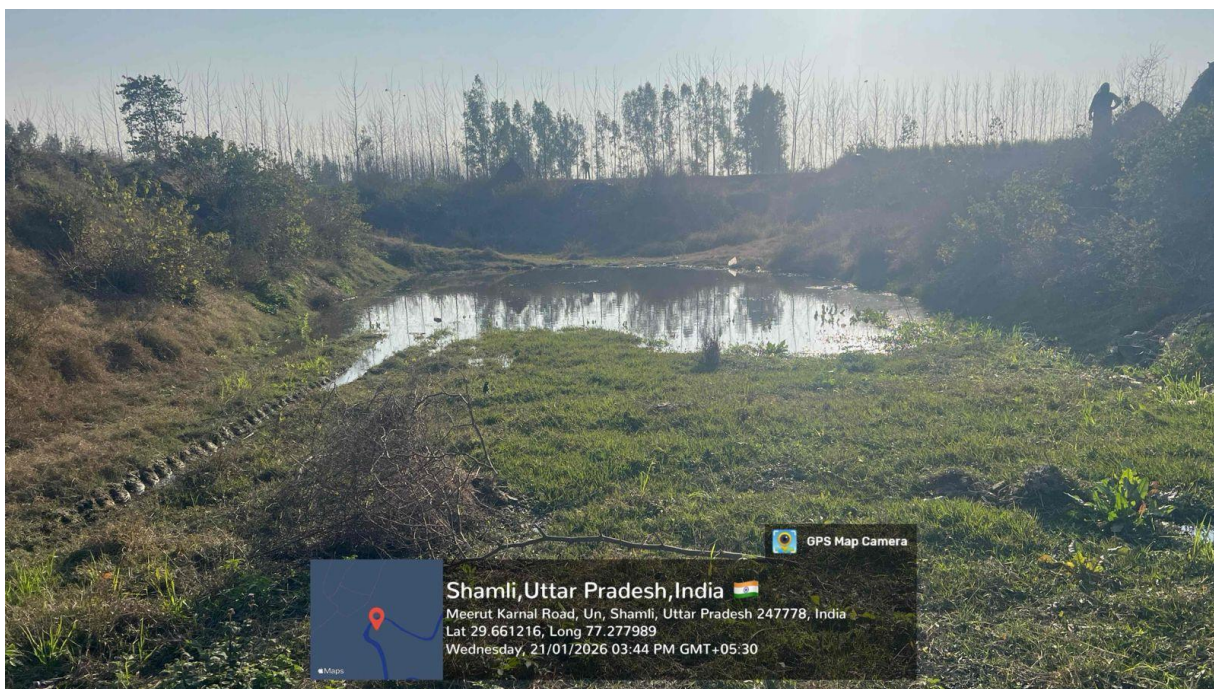
Location 4: Stagnant nearby domestic waste in drain at Un, Meerut-Karnal Road

Location 5: Drain at Sirsagarh (Nai Nagla)

Coordinates: Lat 29.661535°, Long 77.277441°

Observations:

- i). **Pollution Type:** Untreated sewage evident; dark discolored water with organic debris
- ii). **Riparian Vegetation:** Sparse due to pollution stress
- iii). **Smell/Odor:** Strong odor of decomposition and sewage
- iv). **Status:** Active pollution zone requiring immediate remediation



Location 5: Stagnant nearby domestic waste at Sirsagarh (Nai Nagla)

5. Action Plan for rejuvenation of Katha River/ Drain at Saharanpur and Shamli, UP

Department/Agency	Responsibility	Action Items	Timeline
District Administration/ District Revenue Officer/ Panchayati Raj, Saharanpur/ Shamli	Classification verification; encroachment removal	Revenue records review; legal notices	3-6 months
State Irrigation Department	Hydrological assessment; technical certification	Water body classification; flow data	2-3 months
UPPCB Regional Office, Saharanpur	Water quality monitoring; pollution control	Baseline assessment; enforcement	2-3 months
NMCG	Sewage management through NbS; MSW handling; River restoration oversight	Sewage treatment; waste diversion; Project planning; fund coordination	3-6 months
Forest Department	Plantation	Riparian buffers	3-6 months

District Administration	Overall coordination; enforcement	Inter- departmental meetings; action	2-3 months
Survey of India	Topographic confirmation	Map archival review; verification	2-3 months