Regional office
Rajasthan State Pollution Control Board
Choudhary Campus, Near Durga Petrol Pump, Dahod Road, Thikariya, Banswara
Email:-rorpcbbanswara2021@gmail.com www.environment.rajasthan.gov.in

RPCB/RO/BANSWARA/NGT/OA/69-2025/602 Date:21.08.2025

E-mail

The Registrar,
Hon'ble NGT,
Central Zone Bench, Bhopal.
E-mail: ngtczbbho-mp@gov.in

Sub: Joint Committee Report in O.A. No. 69/2025 (CZ) in the matter of Vikesh Mehta Vs State of Rajasthan & Ors.

Ref: Hon'ble NGT order dated 26.05.2025.

Sir,
With reference to above subject matter, please find enclosed Report of Joint Committee Constituted in O.A. No. 69/2025 (CZ) in the matter of Vikesh Mehta Vs State of Rajasthan & Ors., for kind perusal please.

Encl: As above

Your Sincerely

(Ravi Chandel)
Regional Officer
RSPCB Banswara

Signature valid
Digitally signed by Ravi Kumar Chandel
Designation : Environmental Engineer
Date: 2025.08.21 15:10:51 IST
Reason: Approved

RajKaj Ref No.: 17306457
eSign 1.0

Joint Committee Report

In compliance of Hon'ble NGT (CZ) order dated 26.5.2025 in the O.A. No. 69 of 2025

In the matter of

Vikesh Mehta

Vs

State of Rajasthan & Ors.

Committee members:

i. Sh. Sunil Kumar Meena, Scientist 'E' (Rep. of Central Pollution Control Board, Regional Directorate Bhopal).
ii. Sh J K Charan, Superintending Engineer, PHED, Banswara (Rep. of Principal Secretary, PHED, State of Rajasthan)
iii. Sh Ravi Chandel, EE, Regional Officer, RSPCB, Banswara (Rep. of Additional Chief Secretary, Department of Environment & Climate Change).
iv. Sh Ravi Chandel, EE, Regional Officer, RSPCB, Banswara (Rep. of Member Secretary, RSPCB, Jaipur).

Date of Visit: 25.06.2025

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Joint Committee Report

Hon'ble National Green Tribunal (CZ) vide its order dated 26.5.2025 in O.A. 69 of 2025 in the matter of Vikesh Mehta Vs State of Rajasthan & Ors directed under Para 7 & 8 as

Para 7. *We deem it just and proper to call a report on the matter in issue, in present application, from a Joint Committee consisting of:*

i. One Representative from the Principal Secretary (Environment), State of Rajasthan, Jaipur (Rajasthan)

ii. One Representative from the Principal Secretary, Public Health Engineering Department (PHED), State of Rajasthan, (Rajasthan)

iii. One representative from the Central Pollution Control Board, integrated office at Bhopal, (M.P.)

iv. One representative from the Member Secretary, State Pollution Control Board, Jaipur (Rajasthan)

Para 8. *The Committee is directed to visit the site and submit the factual and action taken report within six weeks. The State PCB will be the nodal agency for coordination and logistic support.*

Copy of the Hon'ble NGT order dated 26.5.2025 is enclosed as **Annexure-I.**

In compliance of the order, a committee of following officers was constituted:

1. Sh. Sunil Kumar Meena, Scientist 'E' (Rep. of Central Pollution Control Board, Regional Directorate Bhopal).
2. Sh J K Charan, Superintending Engineer, PHED, Banswara (Rep. of Principal Secretary, PHED, State of Rajasthan)
3. Sh Ravi Chandel, EE, Regional Officer, RSPCB, Banswara (Rep. of Additional Chief Secretary, Department of Environment & Climate Change).
4. Sh Ravi Chandel, EE, Regional Officer, RSPCB, Banswara (Rep. of Member Secretary, RSPCB, Jaipur).

- The committee visited the site on 25.6.2025 and visited Kagdi dam, Water Treatment Plants, Hydroelectric power plant, localities of Banswara city to get the factual status of the issues raised in the application by the applicant i.e. Sh Vikesh Mehta.

<u>The major issues raised by the applicant are as stated below:</u>

- Poor water treatment quality & supply of contaminated water
- The poor state of Kagdi reservoir due to eutrophication, low dissolved oxygen level & growth of water hyacinth

- Inaction of PHED to run the water treatment plant efficiently and no weed harvesting by the WRD & other authorities.

1.0 Field visit of the Joint committee:

The committee jointly conducted site visit on 25.6.2025 to account the factual status on the issues raised by the applicant. The committee was accompanied by officials of Water Resource Department (WRD), PHED laboratory staff and laboratory staff of CPCB & RSPCB. The applicant was contacted to join the visit, however due to his other engagement, he was not able to present. The copy of the attendance sheet is enclosed as **Annexure-II.**

Following terms of references of field visit were finalized by the committee to ascertain the factual situation:

1. To assess the water quality at Kagdi dam, reason of water hyacinth growth in the dam.
2. To assess the water treatment quality of all the 03 operational WTPs
3. To assess the quality of the water supplied to colonies & opinion of the residents of the colonies

On the upstream of the Kagdi dam, a water body named Bai Talab is present which is fed through the overflow water of the Mahi Bajaj Sagar Power House during month of May & June of summer season via by-pass channel. In rest of the months the overflow water is sent directly to Kagdi dam through open channel &underground pipeline. All the 03 water bodies were visited. Further, all the 03 operational Water treatment Plants of 4.54MLD, 9.25MLD & 10.5MLD capacity were visited and sampled for the quality of treatment. Few colonies were also visited to assess the quality of water supplied.

2.0 Field Observations: Water bodies, Water Treatment Plants and Supplied water quality

The Committee inspected the major water reservoirs, namely Kagdi Dam, Bai Talab, and the hydropower facility on the Mahi River, to assess the existing water supply network. It was noted that both Bai Talab and Kagdi Dam receive inflows from the outfall of the Mahi Bajaj Sagar Dam. During the peak summer months (May–June), the outfall first discharges into Bai Talab, from where the surplus water overflows into Kagdi Dam. In the remaining months of the year, the outfall from Mahi Bajaj Sagar Dam is directly conveyed to Kagdi Dam through a combination of open channels and underground pipelines.

The status of the water network and field observations are as given below:

2.1.1 Kagdi pick-up reservoir/dam:

The water supply to Banswara city is being done through this earthen dam (geo-graphic location - Latitude: 23.545927 & Longitude: 74.462386) located 3 km away from Banswara city, on Banswara-Ratlam Road. The dam was constructed way back in 1983 by Water Resources Department (WRD)& managed by the WRD itself. The dam is having gross balancing capacity of 4.24 million M^3. The catchment is 32.52 Square KMs. The minimum drawdown level is maintained upto 230.75m whereas the full tank level is 236 metres. Currently the dead storage is of 0.59million M^3, that makes the net capacity available of 3.65 million M^3. For flood management & discharge of water, ogee-shaped spillway with 6 radial gates (6m by 4.4m) provided having spillway capacity of 16767 cusecs. 11 MLD is the average daily withdrawal for water supply. There are 02 canals are provided viz. Left Main Canal (LMC) & Right Main Canal (RMC) to discharge the water to supply to downstream villages for irrigation & hydro-power generation.

On the day of visit, committee observed water hyacinth (weed) floating in reservoir, however the area under the water hyacinth was not large. The water hyacinth was found on corners and in the middle of the reservoir. Water Resource Department (WRD) official informed that the proliferation of the weed is commonly observed post the regulation period i.e. after April month when both the LMC & RMC are closed, that result is stagnancy of water during summer period. A weed removal machine deputed by Rajasthan Urban Infrastructure Development Project (RUIDP) was found operational on the day of visit. The logbook provided for machine operation period i.e. January to June 2025 is enclosed as **Annexure-III.**As per the logbook data, the machine operated for 8hrs daily. The collected water hyacinth is dumped on the bank of the reservoir. The details of weed quantity harvested are not maintained by operator. Committee observed that there was no industrial & sewerage discharged observed into the reservoir. Further, as informed by WRD, no contract was awarded for fishing at Kagdi dam. On-site analysis of the water quality was conducted to assess the quality of the water. The pH was 7.64 and Dissolved Oxygen (DO) varied from 1.9 to 3.1mg/l at 27^{o}C ambient temperature. The lower value of DO suggest the anaerobicity. Further the water sample was collected & analysed in NABL/EPA recognised

laboratory for specific parameters. The observed values are as tabulated below:

Location: Kagdi pick-up reservoir	
Parameter	**Value**
pH	7.15
Colour (Pt-Co) Hazen	8.64
Turbidity NTU	8.2
Total Phosphorus mg/l	1.04
TKN mg/l	<5
Nitrate mg/l	2.58
Nitrite mg/l	0.49
DO mg/l	2.46

The analyzed value of the collected sample of Kagdi reservoir revealed that the reservoir is in a eutrophic to hyper-eutrophic condition with active oxygen depletion and substantial nutrient loading. These conditions favour frequent algal blooms and create excellent conditions for rapid water hyacinth establishment and spread.

The analysis of eutrophic condition is based on the following reference documents:

- *The classification of eutrophic condition based on Total Phosphorous is as given below:*
  - *Oligotrophic <0.01–0.02 mg/L,*
  - *Mesotrophic 0.02–0.05 mg/L,*
  - *Eutrophic 0.05–0.1 mg/L,*
  - *Hypereutrophic >0.1 mg/L*

Reference:

- *Carlson, R. E. (1977). A trophic state index for lakes. Limnology and Oceanography, 22(2), 361–369. https://doi.org/10.4319/lo.1977.22.2.0361*
- *Organisation for Economic Co-operation and Development (OECD). (1982). Eutrophication of waters: Monitoring, assessment and control.* OECD, Paris.

2.1.2 Kagdi Intake well:

A water intake well established for withdrawal of 4.54MLD water from Kagdi reservoir at geo-location Latitude: 23.545564& Longitude: 74.468501. Currently, the pumping is done by horizontal split casing pumps. However, new vertical pumping system is also found installed

and it was informed by Public Health Engineering Department (PHED) official that soon it will be under use. Water hyacinth was also observed near the intake well too. The on-site water quality assessed, and it revealed that the pH was 7.66 and the dissolved oxygen (DO) was 3.9mg/l at 27.5^{o}C ambient temperature. The collected water sample was analysed for specific parameters to assess the water quality & possibility of the weed proliferation. The results are as tabulated below:

Location: Kagdi Intake well	
Parameter	**Value**
pH	7.32
Turbidity NTU	4.41
Total Phosphorus mg/l	0.25
Nitrate mg/l	1.6
Nitrite mg/l	0.35
DO mg/l	3.84

The high total phosphorus (0.25 mg/L) combined with low DO (3.84 mg/L) indicates a strongly eutrophic system with a high likelihood of algal blooms; phosphorus is the dominant driver.

2.1.3 Bai Talab:

A waterbody known as Bai Talab, located upstream of the Kagdi Reservoir at the geo-coordinates Latitude 23.545564 and Longitude 74.468501, serves as a source of inflow to the reservoir. The waterbody is under a fishing contract arrangement. During the field visit conducted on 25 June 2025, the talab was observed to be at full capacity, with overflow water discharging into the Kagdi Reservoir.

Significant infestation of water hyacinth (Eichhornia crassipes) was noted, covering approximately half of the water surface. Control measures are being undertaken through netting operations; however, a substantial proliferation of the weed was particularly evident in the transitional zone (Latitude: 23.544634 & Longitude: 74.473035) between Bai Talab and the open-water accumulation area of the Kagdi Reservoir.

The on-site water quality assessed, and it revealed that the pH was 7.85 and the dissolved oxygen (DO) was 5.8mg/l at 28^{o}C ambient temperature. The collected water sample was analysed for specific parameters to assess the water quality & possibility of the weed proliferation. The results are as tabulated below:

Location: Bai Talab	
Parameter	**Value**
pH	7.21
Colour (Pt-Co) Hazen	5.76
Turbidity NTU	9.1
Total Phosphorus mg/l	0.83
TKN mg/l	6.72
Nitrate mg/l	0.48
Nitrite mg/l	0.13
DO mg/l	5.71

The water quality at Bai Talab reflects nutrient-rich, hypereutrophic conditions. The combination of very high phosphorus (0.83 mg/L), elevated TKN (6.72 mg/L), and moderate turbidity (9.1 NTU) indicates strong susceptibility to algal blooms and invasive aquatic weeds (e.g., water hyacinth). Although DO (5.71 mg/L) is presently above critical stress levels, further bloom events could reduce DO drastically, risking fish mortality and water quality deterioration in Bai Talab and downstream Kagdi Reservoir

2.1.4 Hydro Project Mahi (Power House-I)

On the upper side of the Bai talab & Kagdi reservoir, the Hydro project Mahi (Power House (PH)–I) is located at Latitude 23.544602 and Longitude 74.506614, where the backwater of the Mahi Bajaj Sagar Dam is stored. The plant was established in 1986 with a power generation capacity of 50 MW (2 × 25 MW). Initially operated by the Rajasthan State Electricity Board (RSEB), it is presently named as Rajasthan Rajya Vidyut Utpadan Nigam Limited (RVUNL).

The downstream water supply system consists of an underground channel and a bypass channel. After power generation at PH-I, water is discharged through the machines and flows from the tailrace to the Balancing Reservoir No. 1 (Kagdi Pickup Weir) via a combination of tunnel and open channel, having a total length of 4,312.95 m (tunnel: 1,625.98 m; open channel: 2,686.97 m). Alternatively, water can also be diverted through a bypass channel routed via Bai Talab, with a total length of approximately 3,065 m (PH-I to Bai Talab: 2,728 m; Bai Talab to Kagdi Weir: 337 m). The bypass channel, having a carrying capacity of about 600–700 cusecs (18.42 cumecs), is owned and operated by the Water Resources Department (WRD), Banswara.

As per operational practice, water supply to the Kagdi Pickup Weir during the maintenance period of PH-I (typically post-April) is ensured

via the bypass channel routed through Bai Talab. For the year 2025–26, the bypass channel was first opened on 20 May 2025. Once the water level in Mahi Bajaj Sagar Dam reaches 276–278 m, electricity generation at PH-I will resume and the bypass channel will subsequently be closed. During the present visit, the water level was observed at 272.75 m, while the depth of water in the Kagdi Weir reservoir was recorded as 6 m.

Records of the water supplied through the underground channel for the last three years (2022-23 to 2024-25) provided by the RVUNL, Banswara vide letter dated 02.07.2025, revealed that mostly post-April the discharge is being done through by-pass channel routed through Bai Talab for 2 to 3 months. Copy of the letter dated 2.7.2025 is enclosed as **Annexure-IV.** During visit, it was observed that the bypass channel has algal growth and proliferation of aquatic plants.

It was informed that no routine testing or analysis of water quality is carried out at this location by WRD or RVUNL. To assess the water quality of the Mahi Bajaj Sagar dam water at Power House-I, sample was collected. The analysed values are as given below:

Location: Hydro Project PH-I	
Parameters	**Value**
pH	7.3
Turbidity NTU	10.81
Total Phosphorus mg/l	0.25
TKN mg/l	26.32
Nitrate mg/l	0.96
Nitrite mg/l	0.38

The results reveals that the water at Power House–I is heavily nutrient-enriched, classified as hypereutrophic based on phosphorus and nitrogen levels. The high TKN suggests substantial organic pollution, possibly from upstream wastewater or agricultural inputs. Elevated turbidity and nutrient levels increase the risk of algal blooms, oxygen depletion, and water quality deterioration downstream in the Bai talab &Kagdi dam water system.

2.1.5 Insights on the nutrient dynamics along the water flow path (Hydro power PH-I → Bai Talab → Kagdi Reservoir)

The Hydro Project Power House–1 (PH-1) serves as the primary upstream source, discharging water into Bai Talab through the bypass channel. Analytical results indicate exceptionally high Total Kjeldahl Nitrogen (TKN: 26.32 mg/L), signifying substantial organic and nitrogenous loading. This establishes PH-1 as the principal contributor of nitrogen-rich water to the downstream aquatic system.

Bai Talab, which intercepts the discharge from PH-1, functions as a nutrient accumulation and transformation zone. Here, Total Phosphorus concentration reaches 0.83 mg/L, the highest among the monitored sites. In combination with elevated nitrogen inputs, these conditions are highly conducive to eutrophication, manifested by extensive water hyacinth infestation and potential algal bloom formation. Field observations of dense macrophyte proliferation corroborate this nutrient enrichment scenario.

At the Kagdi Reservoir Intake Structure, located downstream of Bai Talab, the water quality reflects the compounded influence of upstream loading. Despite a reduction in nutrient concentrations (TKN: ~7 mg/L; TP: 0.25 mg/L), the system exhibits dissolved oxygen depletion (3.84 mg/L), indicative of accelerated microbial decomposition and oxygen consumption driven by organic matter and algal activity. This oxygen stress signals the onset of water quality deterioration and potential ecological imbalance within the reservoir.

This longitudinal flow sequence states a progressive nutrient transfer and impact chain:

- *Power House-I (Hypereutrophic): Nitrogen-dominated discharge, initiating eutrophication pressure.*
- *Bai Talab (Hypereutrophic, Extreme): Phosphorus enrichment zone, driving weed proliferation and algal bloom risks.*
- *Kagdi Reservoir (Hypereutrophic, Oxygen-Stressed): Final recipient, showing compounded nutrient impacts and declining ecological health.*

This pathway underscores the critical need for nutrient management interventions to mitigate eutrophication risks and safeguard the ecological integrity of the downstream reservoir system.

2.2.1 WATER TREATMENT SYSTEM

There are 03 water treatment plant (WTP)in operation of 4.54MLD, 9.25MLD & 10.54MLD capacity to supply the treated water to Banswara city. Committee visited all the 03 WTPs to assess the treatment facility & quality of the treatment. The WTP-wise details are as given below:

2.2.2 WATER TRATMENT PLANT (4.54MLD)

- General Information
  - Location: Latitude 23.546283, Longitude 74.468695
  - Operating Agency: Public Health Engineering Department (PHED), Banswara
  - Year of Commissioning: 1990
  - Source of Raw Water: Kagdi Weir Dam Reservoir
  - Operational Status:
    Daily Intake Volume: 5.26 MLD
    Daily Supply Volume: 4.82 MLD

- Treatment Scheme and Flow Chart

  Inlet → Pre-Chlorination & Alum Dosing → Clariflocculator → Rapid Sand Filters → post-chlorination → Clear Water Reservoir (CWR) → Outlet Supply

- Treatment Units & Specifications

(i) Intake Facility
- Capacity: 248.40 m^3/hr
- Pumps Installed: 2 Nos. Vertical Turbine Pumps @ Intake Well
- Horizontal Split Case Pump Sets: 30 HP / 40 HP / 50 HP – 1 No. each

(ii) Chlorination & Alum Dosing
- Present dosing is manual, with no automated/proper dosing system installed.
- Average Dosing Parameters:
  - Alum: 13.74 mg/l (Consumption: 2264.3 kg/month)
  - Chlorine: 7.82 mg/l (Consumption: 1211.8 kg/month)

(iii) Clariflocculator
  - Clarification & flocculation go simultaneously

(iv) Rapid Sand Filters
- Type: Gravity-based Rapid Sand Filters

- Design Filtration Rate: 6.0 $m^3/m^2/hr$
- Current Operating Rate: 4.46 $m^3/m^2/hr$
- Number of Filter Sections: 3
- Filter Bed Area: 3 Nos. × 3.90 m × 4.20 m = 49.14 m^2
- Total Bed Depth: 2.25 m
- Media Specification:
  - Fine Sand (0.55–0.75 mm): 600 mm
  - Gravel 40 mm: 150 mm
  - Gravel 20 mm: 150 mm
  - Gravel 10 mm: 200 mm
- Backwash:
  - Frequency: Daily, 10 minutes @ 36 $m^3/m^2/hr$ (alternating filters)
  - Backwash water is returned to Kagdi Reservoir.

(v) Clear Water Reservoir (CWR)

- Residual Chlorine Maintained: 2.01 mg/l (average at clean water tank).

➢ <u>Supply & Distribution</u>

- Treated Water Supply Zone: 4.54 MLD WTP supplies to Zones 08, 11, 12, 13 & 14.
- Feeding OHSRs:
  1. Muslim Colony
  2. Gaushala
  3. Kalika Mata OHSR
  4. GLSR
- OHSR Cleaning: Carried out once every six months.

➢ <u>Maintenance Status</u>

- Filter Media Replacement:
  - Frequency: Once every 4–5 years.
  - Last Replacement: 09/02/2025 to 20/02/2025.
- Equipment Maintenance & Upgradation Works:
  - Repair & replacement of Clariflocculator bridge, motors, and valves.
  - Flash mixer replacement.
  - Electrical cabling and grouting works.
  - Replacement of sluice valves for backwash tank.
  - Repair/replacement of Alum dosing system.
  - Interlinking of new & existing Clear Water Reservoirs at AEN Campus.

➢ Field Observations during CPCB sampling

- Two samples were collected from inlet and outlet of the WTP; the analyzed value is as tabulated below:

Parameters	Sample location		Drinking water standard IS 10500:2012
	Inlet	Outlet	
pH	6.62	6.8	6.5-8.5
Colour (Pt-Co) Hazen	BDL	BDL	15
Turbidity NTU	23.91	1.81	5
Nitrate mg/l	BDL	BDL	45
TDS mg/l	169	160	2000
Chloride mg/l	27	20	1000
Total Hardness mg/l	115.2	111.36	600
Fluoride mg/l	BDL	0.20	1.5
Iron (Fe) mg/l	0.079	0.067	0.3

***Note**: BDL for colour is <3 Hazen, BDL for Nitrate is 0.3 mg/l & BDL for Fluoride is 0.2 mg/l*

The treatment quality was found well below the prescribed limits specified under IS: 10500:2012.

- Based on the operational parameters observed during the visit and the practice adopted for treatment following is concluded:

The WTP has sufficient pumping capacity and is operating its filters below the design rate (4.46 vs 6.0 $m^3/m^2/hr$), which helps maintain good water quality and longer filter runs. However, the reliance on manual chemical dosing reduces dosing accuracy. In addition, about 0.295 MLD of backwash water (≈5.6% of intake) is directly returned to the reservoir, causing both water loss and risk of re-contaminating the source with solids and nutrients.

To improve performance, key actions include:

- Installing a flow meter to measure intake,
- Shifting to automated, flow-proportional chemical dosing,
- Settling or treating backwash water before return (or diverting it to sludge management),
- Adopting criteria-based backwashing instead of fixed daily cycles.

These measures would optimize chemical use, conserve water, improve treated water quality, and reduce eutrophication risks in the reservoir.

2.2.3 WATER TREATMENT PLANT (9.25MLD) – AEN Campus, Banswara

- Location: Latitude: 23.547076, Longitude: 74.441845
- Operator: Rural Urban Infrastructure Development Project (RUIDP), Banswara
- Commissioning & Capacity
  - Commissioned: February 2025
  - Design Capacity: 9.25 MLD
  - Current Operations:
    - Daily Intake: 6.53 MLD
    - Daily Supply: 6.01 MLD

- Source of Raw Water:
  Kagdi Weir Dam Reservoir, conveyed through a 4 km long pipeline.

- Treatment Scheme

  Inlet → Cascade Aerator → Pre-Chlorination & Alum Dosing → Clariflocculator → Rapid Sand Filters → post-chlorination → Clear Water Reservoir → Outlet

- Treatment Units – Specifications and Performance

i. Intake Facility
  - Installed capacity: 295–305 m^3/hr
  - Flow Meter: Installed
  - Observed Flow Rate (at time of visit): 242 m^3/hr

ii. Chemical Dosing
  - Automatic dosing system for alum and chlorine provided.
  - Average Chemical Dosing & Consumption (Monthly):
    - Alum: 25.34 mg/L (3,565 kg)
    - Chlorine: 9.02 mg/L (1,293 kg)

iii. Clariflocculator

iv. Rapid Sand Filters
  - Type: Gravity-based
  - Design Filtration Rate: 6.0 $m^3/m^2/hr$
  - Current Filtration Rate: 3.75 $m^3/m^2/hr$ (favorable for filter runs and water quality)
  - No. of Units: 4 sections (2 × 4 × 2.5 m × 4.0 m = 80 m^2)
  - Total Bed Depth: 2.80 m
  - Media Specifications:
    - Fine Sand (0.55–0.75 mm) – 900 mm
    - Gravel (40 mm) – 150 mm
    - Gravel (20 mm) – 150 mm
    - Gravel (10 mm) – 200 mm
  - Backwashing: Daily, 10 minutes @ 36 $m^3/m^2/hr$, alternately
  - Backwash Water: Recycled into the process

v. Clear Water Reservoir (CWR)
  - Average residual chlorine maintained: 2.0 mg/L

vi. Distribution and Supply
  - Service Zones: 05, 07, 09, 15 & 16
  - Major OHSRs fed: Ghantaghar, Ambamata
  - OHSRs cleaned every six months

vii. Water Quality Monitoring

- In-house laboratory available.
- Routine parameters tested daily: pH, turbidity, chlorine, colour, temperature, and TDS.

viii. Maintenance Status

- Plant is newly commissioned; filter media is fresh and has not been replaced yet.

➢ Field Observations during CPCB sampling

- Two samples were collected from inlet and outlet of the WTP; the analyzed value is as tabulated below:

Parameters	Sample location		Drinking water standard IS 10500:2012
	Inlet	Outlet	
pH	6.83	6.8	6.5-8.5
Colour (Pt-Co) Hazen	92.17	BDL	15
Turbidity NTU	52.86	BDL	5
Nitrate mg/l	1.48	BDL	45
TDS mg/l	145	162	2000
Chloride mg/l	16	21	1000
Total Hardness mg/l	107.52	103.68	600
Fluoride mg/l	0.20	BDL	1.5
Iron (Fe) mg/l	0.264	0.087	0.3

Note: *BDL for Colour is <3 Hazen, BDL for Nitrate is 0.3 mg/l, BDL for Fluoride is 0.2 mg/l & BDL for Turbidity is 1 NTU*

The treatment quality was found well below the prescribed limits specified under IS: 10500:2012.

➢ Based on the operational parameters observed during the visit and the practice adopted for treatment following is concluded:

The performance assessment of the 9.25 MLD WTP at AEN Campus, Banswara, indicates that the plant is operating efficiently with respect to turbidity and color removal, achieving near-complete clarification (52.86 NTU to BDL and 92.17 Pt-Co to BDL), which highlights the effectiveness of the clariflocculator and the rapid sand filters. The conservative filtration rate (3.75 $m^3/m^2/hr$ vs. design 6.0) is favorable for extended filter runs and superior effluent quality, suggesting high filter bed efficiency and minimal breakthrough of suspended solids. Alum dosing concentration (25.34 mg/L), however, appears on the higher side compared to typical ranges (15-20 mg/L for surface water of moderate turbidity), indicating possible over-dosing that may lead to unnecessary sludge generation and elevated residual aluminum in treated water. The sweep flocculation was also observed in the clarifier

that indicate higher alum dosing. The automated chemical dosing system ensures precision, but optimization through jar testing and real-time coagulant demand adjustment is recommended to reduce chemical consumption and environmental burden. Overall, the WTP is technically sound, producing water within IS 10500:2012 standards.

2.2.4 Water Treatment Plant – 10.54 MLD

- Location: Latitude 23.547549, Longitude 74.441441
- Operated by: PHED, Banswara
- Commissioning & Capacity: Commissioned in 2007
- Current Operations:
  Average daily intake – 10.50 MLD;
  Average daily supply – 9.62 MLD.
- Source: Kagdi Weir Dam Reservoir

➢ Treatment Process Flow

Inlet → Pre-Chlorination & Alum Dosing → Clariflocculator → Rapid Sand Filters → Post-chlorination → Clear Water Reservoir (CWR) → Outlet

➢ Treatment Units, Specifications & Dosing

i. Intake Facility
- Capacity: 300–310 m^3/hr
- Observation: No flow meter installed for measuring raw water intake.

ii. Coagulant & Disinfection (Alum and Chlorination)
- Dosing: Manual dosing system in operation (no automated facility).
- Monthly Average Consumption:
  - Alum: 11.62 mg/l (3,439 kg/month)
  - Chlorine: 9.05 mg/l (3,114 kg/month)

iii. Clariflocculator

iv. Rapid Sand Filters
- Type: Gravity-based Rapid Sand Filters
- Design Filtration Rate: 6.0 m^3/m^2/hr
- Current Operating Rate: 3.28 m^3/m^2/hr
- Filter Sections: 2 units
- Filter Bed Area: 2 × (4.3 m × 5.5 m) = 94.6 m^2
- Total Bed Depth: 2.30 m
- Media Specification:
  - Fine Sand (0.55–0.75 mm): 600 mm
  - Gravel layers: 40 mm (150 mm), 20 mm (150 mm), 10 mm (200 mm)

- Backwash Frequency: Daily for 10 minutes @ 36 $m^3/m^2/hr$ (alternating); backwash water is recycled.
- Clear Water Reservoir (CWR) - Residual chlorine consistently maintained at 2.0 mg/l.

➢ Treated Water Supply

Service Zones	**Overhead Storage Reservoirs (OHSRs) Fed**
Zones 01, 02, 03, 04, 06, 10, 17 & 18	(1) Housing Board, (2) Mahi Sarovar Nagar, (3) RSEB Colony, (4) Civil Lines, (5) Shastri Nagar, (6) Collectorate Office, (7) Bahubali Colony, (8) Khandu Colony

➢ Monitoring & Laboratory Facilities:

- On-site water testing laboratory operational.
- Routine monitoring of pH, turbidity, chlorine residual, colour, temperature, and TDS conducted daily.

➢ Maintenance

- Filter Media Replacement: Carried out from 23.04.2025 to 29.04.2025. Media replacement cycle: every 4–5 years.
- Recent Repair & Rehabilitation Works:
  - Replacement of filter media.
  - Repair/replacement of structural bridge of clariflocculator with motors.
  - Replacement of gate valves for raw water channel & filter bed.
  - Flash mixer replacement.
  - Electrical cabling work for clariflocculator bridge.
  - Grouting to control leakages.
  - Air blower with motors replaced, along with associated electromechanical, piping & civil works.
  - Replacement of sluice valve for backwash tank.
  - Repairs & upgrades to alum dosing system.
  - Interlinking of new and existing Clear Water Reservoirs at AEN Campus.

➢ Field Observations during CPCB sampling
  - Two samples were collected from inlet and outlet of the WTP; the analyzed value is as tabulated below:

Parameters	Sample location		Drinking water standard IS 10500:2012
	Inlet	Outlet	
pH	6.84	6.86	6.5-8.5
Colour Pt-Co	31.68	BDL	15
Turbidity NTU	109.7	**9.1**	5
Nitrate mg/l	0.46	BDL	45
TDS mg/l	138	167	2000
Chloride mg/l	13	24	1000
Total Hardness mg/l	105.6	115.2	600
Fluoride mg/l	BDL	BDL	1.5
Iron (Fe) mg/l	0.718	0.139	0.3

Note: *BDL for Colour is <3 Hazen, BDL for Nitrate is 0.3 mg/l & BDL for Fluoride is 0.2 mg/l*

The treatment quality was found well below the prescribed limits specified under IS: 10500:2012. Except for the turbidity i.e. 9.1NTU.

- Based on the operational parameters observed during the visit and the practice adopted for treatment following is concluded:

  The 10.54 MLD Water Treatment Plant at Kagdi Weir Dam, operated by PHED Banswara, exhibits stable hydraulic performance with an average intake of 10.5 MLD and supply of 9.62 MLD, alongside conservative filter loading rates (3.28 $m^3/m^2/hr$ compared to the design 6.0 $m^3/m^2/hr$), which promote longer filter runs and effective solids capture. However, plant operations remain constrained by the absence of a raw water flow meter and reliance on manual chemical dosing, which prevents flow-proportional adjustment. The current average alum dose of 11.62 mg/L (≈3.4 MT/month) is relatively low for raw water of turbidity >100 NTU, as evidenced by effective colour and iron removal but residual treated water turbidity of 9.1 NTU, exceeding IS 10500:2012 standards, indicating suboptimal coagulation–flocculation performance. Chlorine consumption averages 9.05 mg/L (≈3.1 MT/month), with a consistent residual of 2.0 mg/L maintained in the clear water reservoir, higher than typically required for maintaining compliance at consumer points, signifying scope for dosage optimization. Recent rehabilitation interventions—including replacement of filter media, valves, flash mixer, and alum dosing components, along with structural and electromechanical upgrades—have strengthened system reliability. To further enhance process efficiency, adoption of automated alum dosing based on jar testing or streaming current

monitoring, installation of flow-proportional chlorination with residual-based trim control, and improved management of backwash water recycling are recommended. Overall, while the plant reliably meets most drinking water quality parameters, refinements in chemical dosing control and monitoring are critical to achieving consistent turbidity compliance and overall operational efficiency.

The WTP-wise water supply network & detail of OHSR with capacity is as tabulated below:

S. No.	Name & Capacity of WTP	Zones	OHSRs	Capacity of OHSRs (KL)
1	9.25 MLD WTP at AEN Campus	Zone 05	Direct Pumping	NA
2		Zone 07		
3		Zone 09		
4		Zone 15	Ghantaghar/Tripoliya	850
5		Zone 16	Amba Mata	540
6	10.40 MLD WTP at AEN Campus	Zone 01	Housing Board	300
7		Zone 02	Mahi Sarovar Nagar	112
8		Zone 03	Civil Lines	420
9		Zone 04	RSEB	112
10		Zone 06	Shastri Nagar/New Housing Board	275
11		Zone 10	Collectorate Office	600
12		Zone 17	Bahubali Colony	360
13		Zone 18	Khandu Colony	450
14		M G Hospital	M G Hospital	50
15		Jila Parishad Campus	Jila Parishad Campus	50
16	4.54 MLD WTP at Kagdi	Zone 08	Direct Pumping	NA
17		Zone 11	Muslim Colony	600
18		Zone 12	Gaushala	350
19		Zone 13	Kalika Mata	225
20		Zone 14	Kalika Mata GLSR	1044

2.3.1 Water quality of supplied water at colonies:

The committee conducted visits across multiple residential colonies during 25.6.2025 & 26.6.2025 to review drinking water supply and gather community feedback. Harijan Basti, Nayi Abadi, Muslim Basti, Nabipura, Housing board, Gupteshwar Mahdev and other residential colonies were visited. On-site residual free chlorine's measurement was conducted at multiple locations; it was observed that the residual chlorine was varied from 0.2PPM to 02PPM. Water samples from 04 locations were collected for further analysis. The results are as tabulated below:

Location	Sampling location				Drinking Water Standard IS-10500:2012
	Parshad House Harijan Basti	Shahrukh Khan Muslim Basti	Paresh House Nabipura	Ashok Gupta Housing Board	
pH	6.97	7.02	7.15	7.14	6.5-8.5
Colour Pt-Co	BDL	BDL	BDL	BDL	15
Turbidity NTU	5	2.51	3.51	BDL	5
Nitrate mg/l	BDL	1.02	1.83	0.36	45
TDS mg/l	164	483	316	163	2000
Chloride mg/l	23	56	32	20	1000
Total Hardness mg/l	113.28	307.2	230.4	115.2	600
Fluoride mg/l	BDL	0.601	0.431	0.20	1.5
Iron (Fe) mg/l	0.179	0.233	0.222	0.228	0.3
Aluminium (Al) mg/l	0.17	0.06	0.11	0.17	0.2

Note: Below detection Limit (BDL) value for Color <3 Hazen, BDL for Nitrate is 0.3 mg/l & BDL for Fluoride is 0.2 mg/l, BDL for Turbidity is 1 NTU

The supplied water quality was found within the prescribed limit of drinking water as per the IS 10500:2012.

Further, residents reported that during May 2025, several areas experienced yellow-colored, odorous, and in some cases muddy water. These complaints were temporary, lasting for 15–20 days, and currently, no major water quality issues are being reported.

It was submitted by PHED that during the 1st week of May, 2025 the pumped water of Kagdi dam was having light yellowish colour. The measures like increasing alum &chlorine dosing, weed removal and operating fountain system at Kagdi dam to increase dissolved oxygen were taken to address the issue of yellow colored water supply. Further, cascade aerator system at new 9.25 MLD WTP is constructed to increase oxygen level in raw water.

During visit (25 & 26 June 2025), some resident of Nayi abadi raised the issue of light brown stains on cloth after washing. Copy of the feedback forms are enclosed as **Annexure-V.**

The analysis report of the Kagdi reservoir, Bai Talab, Hydro Power House-I, WTPs and residential colonies are enclosed as **Annexure-VI.**

The photographs taken during the visit are also enclosed as **Annexure-VII.**

3.0 Health related issue:

The committee contacted Principal Medical Officer, M.G. Hospital, Banswara for accounting the prevalence of any water-borne diseases in past months or year. PMO vide its letter dated 28.6.2025 submitted the records of IPD & OPD patients of last 03 years (June 2022 to June 2025) and stated that based on the available records, no outbreak in water-borne diseases was observed. Copy of the letter dated 28.6.2025 is enclosed as **Annexure-VIII.**

4.0 Summary:

The Kagdi Reservoir, Bai Talab, and upstream Hydro Project Power House-I collectively exhibit hypereutrophic conditions due to excessive nutrient loading, primarily phosphorus and nitrogen. Bai Talab was found heavily infested with water hyacinth, covering nearly half of its surface, while Kagdi Reservoir showed lower but still evident weed proliferation. Analytical data revealed very high phosphorus concentrations (0.83 mg/L in Bai Talab, 0.25 mg/L in Kagdi Intake), coupled with low dissolved oxygen levels (2–3.8 mg/L in Kagdi Reservoir and Intake), indicating advanced eutrophication and risks of algal blooms, oxygen depletion, and ecological imbalance. Nutrient inflows from the Hydro Project discharge (high TKN: 26.32 mg/L) significantly contribute to this deterioration, making eutrophication a systemic problem along the entire flow path.

The three operational WTPs (4.54, 9.25, and 10.54 MLD) are functioning but with operational challenges. The 4.54 MLD WTP relies on manual dosing and recycles backwash water directly to the reservoir, risking nutrient re-contamination. The 9.25 MLD WTP, newly commissioned, is technically sound and achieves excellent clarification but appears to be using excess alum dosing, indicating scope for optimization. The 10.54 MLD WTP is operating with manual dosing and no raw water flow meter, leading to sub-optimal chemical dosing. While water quality at the outlets mostly complied with IS-10500:2012 standards, turbidity exceedance (9.1 NTU) at the 10.54 MLD WTP highlights ineffective coagulation-flocculation. Overall, the treatment plants are stable but require improvements in dosing automation, turbidity control, and backwash water management.

Field visits to residential colonies revealed that during May 2025, many households received yellow-colored, odorous, and occasionally muddy water, resulting in consumer complaints. Residents of Nayi Abadi also

reported brown stains on washed clothes, suggesting high residual iron and alum carryover in treated water. Residual chlorine levels varied widely (0.2–2 ppm), reflecting inconsistency in disinfection practices. However, during the June 2025 visit, water samples tested from colonies were largely within IS-10500:2012 limits for drinking water quality, with iron levels below 0.3 mg/L and aluminum below 0.2 mg/L. Importantly, records from M.G. Hospital, Banswara, confirmed that no outbreaks of water-borne diseases were reported in the last three years.

5.0 Recommendations

Based on the observations made during field visit followed by monitoring reports, following are the recommendations made by the committee for the concern departments for implementation:

1. Nutrient & Weed Management in Reservoirs by WRD, RUIDP & RVUNL
    i. Prepare comprehensive nutrient & weed management plan.
    ii. Implement continuous weed removal & disposal at Bai Talab and Kagdi Dam with proper record-keeping of harvested biomass.
    iii. Introduce nutrient management measures viz. floating wetlands, sediment dredging, controlled inflow from Hydro Project, cleaning of by-pass channel routed to Bai talab.
    iv. Introduce biological control i.e. *Neochetina* of water hyacinth. *Technical support of Directorate of Weed Research (DWR), Jabalpur may be availed.*
    v. Regularly monitor of Dissolved Oxygen (DO), phosphorus, and nitrogen levels to assess eutrophication control.

2. Improvement in WTP Operations by PHED
    i. Install flow-proportional automated chemical dosing systems for alum and chlorine at all WTPs.
    ii. Optimize alum dosing through jar testing and coagulant demand monitoring to reduce sludge and prevent staining complaints.
    iii. Manage backwash water properly (settling tanks/sludge treatment) instead of discharging directly to reservoirs.
    iv. Ensure turbidity of treated water consistently complies with IS:10500 (<1 NTU desirable).

3. Water Supply & Distribution Improvements by PHED
   i. Standardize chlorine dosing to maintain 0.5–1.0 ppm residual chlorine at consumer points (avoid both under- and over-chlorination).
   ii. Investigate cases of muddy water through pipeline integrity checks for possible sewer line intrusion.
   iii. Increase public awareness on water conservation and reporting of water quality issues.

4. Monitoring & Institutional Measures
   i. Create a joint WRD–PHED protocol for seasonal monitoring of nutrient loads from Hydro Project discharges.
   ii. Publish monthly water quality bulletins for public transparency.

SUNIL KUMAR MEENA
Digitally signed by SUNIL KUMAR MEENA
Date: 2025.08.21 14:04:29 +05'30'

(Sunil Kumar Meena)
Scientist 'E'
CPCB, Bhopal

(J K Charan)
Superintending Engg
PHED, Banswara

(Ravi Chandel)
Executive Engg
RSPCB, Banswara
(Also rep. of ACS, Dept of Env & Climate Change)

Item No.1

BEFORE THE NATIONAL GREEN TRIBUNAL
CENTRAL ZONE BENCH, BHOPAL
(Through Video Conferencing)

Original Application No.69/2025(CZ)

Vikesh Mehta — Applicant (s)

Vs.

State of Rajasthan & Ors. — Respondent(s)

Date of Hearing: 26.05.2025

CORAM: HON'BLE MR. JUSTICE SHEO KUMAR SINGH, JUDICIAL MEMBER
HON'BLE DR. AFROZ AHMAD, EXPERT MEMBER

For Applicant (s): Ms. Diksha Chaturvedi, Adv.

For Respondent(s):

ORDER

1. Issue raised in this application are long-standing and systemic failure of the Public Health Engineering Department (PHED) and other concerned authorities to prevent environmental degradation and ensure safe water supply from Kagdi Dam, the principal water source for Banswara city, Rajasthan. The continuing discharge of biologically degraded, untreated, and contaminated water into the public distribution system has not only endangered public health but has also caused serious ecological imbalance, violating multiple provisions of the Water (Prevention and Control of Pollution) Act, 1974. The Kagdi Dam reservoir, which serves as the primary source of raw water for municipal supply, is infested with unchecked growth of water hyacinth (Eichhornia crassipes) and other aquatic weeds. Due to complete inaction in managing aquatic biomass and

sedimentation, the dam has effectively turned into a stagnant eutrophic water body, producing foul odors, hosting pathogenic bacteria, and suffering from critical depletion in dissolved oxygen (DO) levels. The failure to operate weed harvester machines and aeration systems installed by the department reflects gross environmental mismanagement, contributing directly to the deterioration of water quality and aquatic ecology.

This stagnation and decay have resulted in high levels of organic pollution, turning the Kagdi Dam into an ecological hotspot of anaerobic activity, with DO levels found as low as 1.5 mg/l as per the laboratory reports dated 14.05.2025 issued by PHED, Banswara. Such low DO levels not only make the water unfit for human use but also cause distress to aquatic life, destroy ecological diversity, and promote algal blooms and water-borne vectors—posing broader threats to riverine and groundwater systems. This is a classic case of eutrophication, which remains unregulated despite the area being a crucial ecological and drinking water zone.

2. The untreated water drawn from the dam is directed to the city's two filter plants— Rapid Gravity Filter (RGF) and conventional filter plants—but due to non-functioning or inadequate dosing of alum and chlorine, the raw, contaminated water remains largely unprocessed. As a result, yellow, foul-smelling, and visibly polluted water is being continuously supplied to residents of Banswara city, as documented through photographs, lab results, and media coverage from at least 11 colonies and

neighborhoods. Despite repeated complaints, the authorities have failed to implement any sustainable remediation measures or to halt the supply of non-potable water.

3. The ecological degradation of Kagdi Dam also threatens the long-term hydrological balance and aquatic biodiversity of the area. The stagnant and nutrient-rich water body is acting as a breeding ground for mosquitoes and other disease vectors, contributing to a public health emergency and further compounding the environmental crisis. The failure to clear weed biomass and oxygenate the water column is also resulting in further siltation and chemical instability, increasing the future environmental burden and cost of remediation.

4. A substantial issue of environmental has been raised. Issue notice to the respondents. Returnable within four weeks.

5. Applicant is directed to take necessary steps for service to the respondents by both ways and also on available email.

6. Respondents are directed to submit their reply within six weeks through E-filing portal, preferably in the form of searchable PDF/ OCR Support PDF and not in the form of Image PDF.

7. We deem it just and proper to call a report on the matter in issue, in present application, from a Joint Committee consisting of:

(i) One Representative from the Principal Secretary (Environment), State of Rajasthan, Jaipur (Rajasthan)
(ii) One Representative from the Principal Secretary, Public Health Engineering Department (PHED), State of Rajasthan, (Rajasthan)
(iii) One representative from the Central Pollution Control Board, integrated office at Bhopal, (M.P.)
(iv) One representative from the Member Secretary, State Pollution Control Board, Jaipur (Rajasthan)

8. The Committee is directed to visit the site and submit the factual and action taken report within six weeks. The State PCB will be the nodal agency for coordination and logistic support.

9. Applicant is directed to supply the required documents and copy of the application to the committee and the respondents within a week and after compliance of service, the Applicant has to submit an affidavit that notices and copy of the application have been served upon the committee and respondents.

10. The report in the matter be filed by the Committee by email at ngtczbbho-mp@gov.in preferably in the form of searchable PDF/OCR Support PDF and not in the form of Image PDF.

11. The Collector Bhilwara/District Administration is directed to examine the matter and in light of the report submitted by the Jan Swasthya Abhiyantriki Vibhag Rajasthan Banswara, The district administration and collector have to make alternate arrangement for providing safe and portable water to the citizens of Banswara immediately and submit the action taken report before the date of listing

List it on **26th August, 2025**.

Sheo Kumar Singh, JM

Dr. Afroz Ahmad, EM

26th May 2025
O. A No. 69/2025(CZ)
K

Annexure-II

NGT OA No. 69/2025

Committee visit Date 25/06/25

Sr. No.	Name	Mobile No.	Sign.
1	Sunil Kr Meena, SE-CPCB	9617007250	
2.	J.K. Chasta SE PHED,	9414426182	
3.	Ravi Chandel	RO, RPCB 9829565321	
4.	Kalpesh Lohar	EE, PHED, BSW 8890488872	
5.	Sujeet kr. Jha	XEN, RVOM,	9413349511
6.	Sandeep singh parmar	Asst, WRD (Mahi)	9009340402
7.	Hari Shanker Meena	Asst PHED	9414577780
8.	Ashok kumar	Asst R.U.I.D.P	7976371932
9.	P.C. Dayma	Sr. Lab. Asstt. PHED lab	9636822596

Operation of Aquatic Weed Harvester at Kagdi Lake										
Working Location:-		Kagdi Lake					Vehicle: -	Weed	Harvester	
Driver, Manpower & Diesel are provided by agency.										
		Time Before Lunch		Time After Lunch			Operated & Verified by			
		Starting	Closing	Starting	Closing	Total Hrs.	Name of	RUIDP		
Day	Date	AM	PM	PM	PM	Duration	Driver	ACM	AEN	SE
Wednesday	01-01-2025									
Thursday	02-01-2025	9.30	11.30	4.00	6.00	4.00	Giri			
Friday	03-01-2025	9.30	11.30	4.00	6.00	4.00	Giri			
Saturday	04-01-2025	9.30	11.30	4.00	6.00	4.00	Giri			
Sunday	05-01-2025									
Monday	06-01-2025	9.30	11.30	4.00	6.00	4.00	Giri			
Tuesday	07-01-2025	9.30	11.30	4.00	6.00	4.00	Giri			
Wednesday	08-01-2025	9.30	11.30	4.00	6.00	4.00	Giri			
Thursday	09-01-2025									
Friday	10-01-2025	9.30	11.30	4.00	6.00	4.00	Giri			
Saturday	11-01-2025	9.30	11.30	4.00	6.00	4.00	Giri			
Sunday	12-01-2025									
Monday	13-01-2025	9.30	11.30	4.00	6.00	4.00	Giri			
Tuesday	14-01-2025	9.30	11.30	4.00	6.00	4.00	Giri			
Wednesday	15-01-2025	9.30	11.30	4.00	6.00	4.00	Giri			
Thursday	16-01-2025	9.30	11.30	4.00	6.00	4.00	Giri			
Friday	17-01-2025									
Saturday	18-01-2025	9.30	11.30	4.00	6.00	4.00	Giri			
Sunday	19-01-2025	9.30	11.30	4.00	6.00	4.00	Giri			
Monday	20-01-2025	9.30	11.30	4.00	6.00	4.00	Giri			
Tuesday	21-01-2025	9.30	11.30	4.00	6.00	4.00	Giri			
Wednesday	22-01-2025									
Thursday	23-01-2025	9.30	11.30	4.00	6.00	4.00	Giri			
Friday	24-01-2025	9.30	11.30	4.00	6.00	4.00	Giri			
Saturday	25-01-2025	9.30	11.30	4.00	6.00	4.00	Giri			
Sunday	26-01-2025									
Monday	27-01-2025	9.30	11.30	4.00	6.00	4.00	Giri			
Tuesday	28-01-2025	9.30	11.30	4.00	6.00	4.00	Giri			
Wednesday	29-01-2025	9.30	11.30	4.00	6.00	4.00	Giri			
Thursday	30-01-2025									
Friday	31-01-2025	9.30	11.30	4.00	6.00	4.00	Giri			

BIPL SC HP JOINT VENTRUE

सहायक अभियन्ता
PIU, बांसवाड़ा

Operation of Aquatic Weed Harvester at Kagdi Lake

Working Location:-		Kagdi Lake					Vehicle: -	Weed	Harvester	
Driver, Manpower & Diesel are provided by agency.										
		Time Before Lunch		Time After Lunch			Operated & Verified by			
		Starting	Closing	Starting	Closing	Total Hrs.	Name of	RUIDP		
Day	Date	AM	PM	PM	PM	Duration	Driver	ACM	AEN	SE
Saturday	01-02-2025	9.00	12.00	3.00	6.00	6.00	Giri			
Sunday	02-02-2025									
Monday	03-02-2025	9.00	12.00	3.00	6.00	6.00	Giri			
Tuesday	04-02-2025	9.00	12.00	3.00	6.00	6.00	Giri			
Wednesday	05-02-2025	9.00	12.00	3.00	6.00	6.00	Giri			
Thursday	06-02-2025	9.00	12.00	3.00	6.00	6.00	Giri			
Friday	07-02-2025									
Saturday	08-02-2025	9.00	12.00	3.00	6.00	6.00	Giri			
Sunday	09-02-2025	9.00	12.00	3.00	6.00	6.00	Giri			
Monday	10-02-2025	9.00	12.00	3.00	6.00	6.00	Giri			
Tuesday	11-02-2025	9.00	12.00	3.00	6.00	6.00	Giri			
Wednesday	12-02-2025									
Thursday	13-02-2025	9.00	12.00	3.00	6.00	6.00	Giri			
Friday	14-02-2025	9.00	12.00	3.00	6.00	6.00	Giri			
Saturday	15-02-2025	9.00	12.00	3.00	6.00	6.00	Giri			
Sunday	16-02-2025									
Monday	17-02-2025	9.00	12.00	3.00	6.00	6.00	Giri			
Tuesday	18-02-2025	9.00	12.00	3.00	6.00	6.00	Giri			
Wednesday	19-02-2025	9.00	12.00	3.00	6.00	6.00	Giri			
Thursday	20-02-2025									
Friday	21-02-2025	9.00	12.00	3.00	6.00	6.00	Giri			
Saturday	22-02-2025	9.00	12.00	3.00	6.00	6.00	Giri			
Sunday	23-02-2025									
Monday	24-02-2025	9.00	12.00	3.00	6.00	6.00	Giri			
Tuesday	25-02-2025	9.00	12.00	3.00	6.00	6.00	Giri			
Wednesday	26-02-2025	9.00	12.00	3.00	6.00	6.00	Giri			
Thursday	27-02-2025	9.00	12.00	3.00	6.00	6.00	Giri			
Friday	28-02-2025									

BIPL SC HP JOINT VENTRUE

सहायक अभियन्ता
PIU, बांसवाड़ा

Operation of Aquatic Weed Harvester at Kagdi Lake

Working Location:-	Kagdi Lake					Vehicle: -	Weed	Harvester	
Driver, Manpower & Diesel are provided by agency.									
		Time Before Lunch		Time After Lunch			Operated & Verified by		
		Starting	Closing	Starting	Closing	Total Hrs.	Name of	RUIDP	
Day	Date	AM	PM	PM	PM	Duration	Driver	ACM	AEN	SE
Saturday	01-03-2025	8.30	12.30	2.00	6.00	8.00	Giri			
Sunday	02-03-2025	8.30	12.30	2.00	6.00	8.00	Giri			
Monday	03-03-2025	8.30	12.30	2.00	6.00	8.00	Giri			
Tuesday	04-03-2025	8.30	12.30	2.00	6.00	8.00	Giri			
Wednesday	05-03-2025									
Thursday	06-03-2025	8.30	12.30	2.00	6.00	8.00	Giri			
Friday	07-03-2025	8.30	12.30	2.00	6.00	8.00	Giri			
Saturday	08-03-2025	8.30	12.30	2.00	6.00	8.00	Giri			
Sunday	09-03-2025									
Monday	10-03-2025	8.30	12.30	2.00	6.00	8.00	Prakash			
Tuesday	11-03-2025	8.30	12.30	2.00	6.00	8.00	Prakash			
Wednesday	12-03-2025	8.30	12.30	2.00	6.00	8.00	Prakash			
Thursday	13-03-2025									
Friday	14-03-2025	8.30	12.30	2.00	6.00	8.00	Prakash			
Saturday	15-03-2025	8.30	12.30	2.00	6.00	8.00	Prakash			
Sunday	16-03-2025									
Monday	17-03-2025	8.30	12.30	2.00	6.00	8.00	Prakash			
Tuesday	18-03-2025	8.30	12.30	2.00	6.00	8.00	Prakash			
Wednesday	19-03-2025	8.30	12.30	2.00	6.00	8.00	Prakash			
Thursday	20-03-2025	8.30	12.30	2.00	6.00	8.00	Prakash			
Friday	21-03-2025									
Saturday	22-03-2025	8.30	12.30	2.00	6.00	8.00	Prakash			
Sunday	23-03-2025	8.30	12.30	2.00	6.00	8.00	Prakash			
Monday	24-03-2025	8.30	12.30	2.00	6.00	8.00	Prakash			
Tuesday	25-03-2025	8.30	12.30	2.00	6.00	8.00	Prakash			
Wednesday	26-03-2025									
Thursday	27-03-2025	8.30	12.30	2.00	6.00	8.00	Prakash			
Friday	28-03-2025	8.30	12.30	2.00	6.00	8.00	Prakash			
Saturday	29-03-2025	8.30	12.30	2.00	6.00	8.00	Prakash			
Sunday	30-03-2025									
Monday	31-03-2025	8.30	12.30	2.00	6.00	8.00	Prakash			

BIPL SCHP JOINT VENTRUE

सहायक अभियन्ता
PIU, बांसवाड़ा

Operation of Aquatic Weed Harvester at Kagdi Lake

Working Location:-	Kagdi Lake					Vehicle: -	Weed Harvester		
Driver, Manpower & Diesel are provided by agency.									
		Time Before Lunch		Time After Lunch			Operated & Verified by		
		Starting	Closing	Starting	Closing	Total Hrs.	Name of	RUIDP	
Day	Date	AM	PM	PM	PM	Duration	Driver	ACM	AEN	SE
Tuesday	01-04-2025	8.30	12.30	2.00	6.00	8.00	Karan			
Wednesday	02-04-2025	8.30	12.30	2.00	6.00	8.00	Karan			
Thursday	03-04-2025									
Friday	04-04-2025	8.30	12.30	2.00	6.00	8.00	Karan			
Saturday	05-04-2025	8.30	12.30	2.00	6.00	8.00	Karan			
Sunday	06-04-2025									
Monday	07-04-2025	8.30	12.30	2.00	6.00	8.00	Karan			
Tuesday	08-04-2025	8.30	12.30	2.00	6.00	8.00	Karan			
Wednesday	09-04-2025	8.30	12.30	2.00	6.00	8.00	Karan			
Thursday	10-04-2025	8.30	12.30	2.00	6.00	8.00	Karan			
Friday	11-04-2025									
Saturday	12-04-2025	8.30	12.30	2.00	6.00	8.00	Karan			
Sunday	13-04-2025	8.30	12.30	2.00	6.00	8.00	Karan			
Monday	14-04-2025	8.30	12.30	2.00	6.00	8.00	Karan			
Tuesday	15-04-2025	8.30	12.30	2.00	6.00	8.00	Karan			
Wednesday	16-04-2025									
Thursday	17-04-2025	8.30	12.30	2.00	6.00	8.00	Karan			
Friday	18-04-2025	8.30	12.30	2.00	6.00	8.00	Karan			
Saturday	19-04-2025	8.30	12.30	2.00	6.00	8.00	Karan			
Sunday	20-04-2025									
Monday	21-04-2025	8.30	12.30	2.00	6.00	8.00	Karan			
Tuesday	22-04-2025	8.30	12.30	2.00	6.00	8.00	Karan			
Wednesday	23-04-2025	8.30	12.30	2.00	6.00	8.00	Karan			
Thursday	24-04-2025									
Friday	25-04-2025	8.30	12.30	2.00	6.00	8.00	Karan			
Saturday	26-04-2025	8.30	12.30	2.00	6.00	8.00	Karan			
Sunday	27-04-2025									
Monday	28-04-2025	8.30	12.30	2.00	6.00	8.00	Karan			
Tuesday	29-04-2025	8.30	12.30	2.00	6.00	8.00	Karan			
Wednesday	30-04-2025	8.30	12.30	2.00	6.00	8.00	Karan			

BIPL SC HP JOINT VENTRUE

सहायक अभियन्ता
PIU, बांसवाड़ा

Operation of Aquatic Weed Harvester at Kagdi Lake

Working Location:-	Kagdi Lake					Vehicle: -	Weed	Harvester	
Driver, Manpower & Diesel are provided by agency.									
		Time Before Lunch		Time After Lunch			Operated & Verified by		
		Starting	Closing	Starting	Closing	Total Hrs.	Name of	RUIDP	
Day	Date	AM	PM	PM	PM	Duration	Driver	ACM	AEN	SE
Thursday	01-05-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Friday	02-05-2025									
Saturday	03-05-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Sunday	04-05-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Monday	05-05-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Tuesday	06-05-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Wednesday	07-05-2025									
Thursday	08-05-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Friday	09-05-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Saturday	10-05-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Sunday	11-05-2025									
Monday	12-05-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Tuesday	13-05-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Wednesday	14-05-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Thursday	15-05-2025									
Friday	16-05-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Saturday	17-05-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Sunday	18-05-2025									
Monday	19-05-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Tuesday	20-05-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Wednesday	21-05-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Thursday	22-05-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Friday	23-05-2025									
Saturday	24-05-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Sunday	25-05-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Monday	26-05-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Tuesday	27-05-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Wednesday	28-05-2025									
Thursday	29-05-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Friday	30-05-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Saturday	31-05-2025	8.30	12.30	2.00	6.00	8.00	Naresh			

BIPL SC HP JOINT VENTRUE

सहायक अभियन्ता
PIU, बांसवाड़ा

Operation of Aquatic Weed Harvester at Kagdi Lake

Working Location:-	Kagdi Lake					Vehicle: -	Weed	Harvester	
Driver, Manpower & Diesel are provided by agency.									
		Time Before Lunch		Time After Lunch			Operated & Verified by		
		Starting	Closing	Starting	Closing	Total Hrs.	Name of	RUIDP	
Day	Date	AM	PM	PM	PM	Duration	Driver	ACM	AEN	SE
Sunday	01-06-2025									
Monday	02-06-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Tuesday	03-06-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Wednesday	04-06-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Thursday	05-06-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Friday	06-06-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Saturday	07-06-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Sunday	08-06-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Monday	09-06-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Tuesday	10-06-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Wednesday	11-06-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Thursday	12-06-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Friday	13-06-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Saturday	14-06-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Sunday	15-06-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Monday	16-06-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Tuesday	17-06-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Wednesday	18-06-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Thursday	19-06-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Friday	20-06-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Saturday	21-06-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Sunday	22-06-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Monday	23-06-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Tuesday	24-06-2025	8.30	12.30	2.00	6.00	8.00	Naresh			
Wednesday	25-06-2025									
Thursday	26-06-2025									
Friday	27-06-2025									
Saturday	28-06-2025									
Sunday	29-06-2025									
Monday	30-06-2025									

BIPL SCHP JOINT VENTRUE

सहायक अभियन्ता
PIU, बांसवाड़ा

2025
International Year of Cooperatives

RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LIMITED

Corporate Identify Number (CIN)-U40102RJ2000SGC016484
OFFICE OF THE DEPUTY CHIEF ENGINEER (GEN.)
VIDYUT NAGAR, RRVUNL, BANSWARA – 327001
Phone No. 02962-251252 E-Mail: se.genbanswr@rrvun.com web site: www.rvunl.com

No. RRVUNL /Dy CE(Gen)/BSW/2025-26 / F. /D. 307 Dated: 02\07\25

The Regional Officer,
Rajasthan State Pollution control Board,
Choudhary Campus,
Near Durga Petrol Pump,
Dahod Road, Thikariya,
Banswara-327001

Sub: - Request for Information in the matter related to NGT case O.A.No.69/2025.
Ref:- Your Request Letter No. RPCB/RO Banswara/364 Dated 30/06/2025.

In reference to the above cited subject, the point wise information which pertains to this Office mentioned in AnnexurI is as under:-

i. Year of Plant Establishment: Mahi PH-I=1986,
Mahi PH-II=1989.
Capacity of Power Generation : Mahi PH-I= 50 MW
Mahi PH-II=90 MW
Established By : Rajasthan State Electricity Board (RSEB) then, Now known as Rajasthan rajya Vidyut Utpadan Nigam Limited (RVUNL)
Operated by : Rajasthan State Electricity Board (RSEB) then, Now known as Rajasthan rajya Vidyut Utpadan Nigam Limited (RVUNL)

ii. Downstream water supply system viz. through underground channel & through by-pass channel: The water released through machines after generation at Mahi PH-I, RVUN, Banswara flows from tail race to the Balancing Reservoir No.1 i.e. kagdi pick-up, consists the Tunnel and Open channel. The By pass channel is owned and operated by the Water Resource Department (WRD), Banswara.The details of By pass Channel may be obtained from the WRD, Banswara only.
Records of last 3 years showing that the water supplied through underground channel is enclosed at Annexure-A. The records of last 3 years that the water supplied through by By-pass channel may be obtained from the WRD, Banswara only, because it is owned and operated by the WRD, Banswara only.

iii. Length of By pass Channel to Bai Talab is the asset of the WRD Banswara, hence the proper length detail of the same may be obtained from the WRD, Banswara only.
From Tail race of Mahi PH-I, the Length of Tunnel is 1484.00 M and further Channel is 3090.00 M , hence the total length of Tunnel cum Channel to the Kagdi pick up is 1484+3090=4574 M as per available records.

This is for your kind information and ready reference please.

Enclosed:- Annexure-A

02-07-25
Dy. Chief Engineer (Gen)
RVUN, Banswara.

02/07/2025

Annexure-A

Details of Last three years showing in which month water released through Underground channel to Kagdi Pick Up (Machine Dischrage at Mahi PH-I, RVUN, Banswara to Kagdi pick up)

Year 2022-23	Water released through Machines at Mahi PH-I in Mcft
April	2001.28
May	91.58
June	63.94
July	31.97
August	615.31
September	9363.6
October	5627.75
November	7168.52
December	8231.33
January	8130.24
February	7103.81
March	4585.42

Year 2023-24	Water released through Machines at Mahi PH-I in Mcft
April	0
May	0
June	0
July	38.88
August	4685.47
September	5735.23
October	5375.81
November	5376.81
December	5377.81
January	5378.81
February	5379.81
March	5380.81

Year 2024-25	Water released through Machines at Mahi PH-I in Mcft
April	1575.94
May	1138.75
June	3.46
July	0
August	825.98
September	9715.68
October	7176.38
November	5430.24
December	7845.12
January	7991.14
February	7458.05
March	6798.82

Executive Engineer (O&M/PH-I)
RVUN, Banswara

मै प्रेमचन्द मेहता निवासी (वार्ड सं./कॉलोनी) 43, पंचपोल गेट (मालीवाला) बांसवाड़ा वर्तमान मे जन स्वा. अभि. विभाग, नगर उपखण्ड बांसवाड़ा द्वारा सप्लाई किये जा रहे पेयजल (पीने के पानी) की गुणवत्ता से संतुष्ट हुं ।

जन स्वा. अभि. विभाग बांसवाड़ा द्वारा सप्लाई किये जा रहे पेयजल (पीने के पानी) की गुणवत्ता से कोई शिकायत नही है ।

दिनांक : 26/6/25

प्रेमचन्द

हस्ताक्षर

- 8 दिन से कोई समस्या नही
- पानी में odour - पीला होना पाया गया।
- 26.06.25 → Residual Cl_2 2 ppm

मै देवलाल जी निवासी (वार्ड सं./कॉलोनी) 15 14
वार्ड पार्षद बांसवाड़ा वर्तमान मे जन स्वा. अभि. विभाग, नगर उपखण्ड बांसवाड़ा द्वारा सप्लाई किये जा रहे पेयजल (पीने के पानी) की गुणवत्ता से संतुष्ट हुं ।

जन स्वा. अभि. विभाग बांसवाड़ा द्वारा सप्लाई किये जा रहे पेयजल (पीने के पानी) की गुणवत्ता से कोई शिकायत नही है ।

दिनांक : 25/6/25

हस्ताक्षर

=> हरिजन बस्ती
वार्ड नं 14

=> मई 2025 में पीले पानी की समस्या आई थी, वर्तमान से साफ पानी आ रहा,

=> Residual chlorine - 0.7 पाई गई,

=> AEN ऑफिस से New WTP की जानकारी ले रहे

=> OHSR - Ambamata

मै ..... निवासी (वार्ड सं./कॉलोनी)..... .....
..... बांसवाड़ा वर्तमान मे जन स्वा. अभि. विभाग, नगर उपखण्ड बांसवाड़ा द्वारा सप्लाई किये जा रहे पेयजल (पीने के पानी) की गुणवत्ता से संतुष्ट हुं ।

जन स्वा. अभि. विभाग बांसवाड़ा द्वारा सप्लाई किये जा रहे पेयजल (पीने के पानी) की गुणवत्ता से कोई शिकायत नही है ।

दिनांक : 25/6/2025

हस्ताक्षर

=> पहले गंदा आता था, (मई माह

=> अब पानी साफ आ रहा है

=>

मै ..... निवासी (वार्ड सं./कॉलोनी)..... .....
..... बांसवाड़ा वर्तमान मे जन स्वा. अभि. विभाग, नगर उपखण्ड बांसवाड़ा द्वारा सप्लाई किये जा रहे पेयजल (पीने के पानी) की गुणवत्ता से संतुष्ट हुं ।

जन स्वा. अभि. विभाग बांसवाड़ा द्वारा सप्लाई किये जा रहे पेयजल (पीने के पानी) की गुणवत्ता से कोई शिकायत नही है ।

दिनांक : 25/6/25

हस्ताक्षर

मै अरोड़ा सुपर निवासी (वार्ड सं./कॉलोनी) E13/सिंग कॉलो
..... बांसवाड़ा वर्तमान मे जन स्वा. अभि. विभाग, नगर उपखण्ड बांसवाड़ा द्वारा सप्लाई किये जा रहे पेयजल (पीने के पानी) की गुणवत्ता से संतुष्ट हुं ।

जन स्वा. अभि. विभाग बांसवाड़ा द्वारा सप्लाई किये जा रहे पेयजल (पीने के पानी) की गुणवत्ता से कोई शिकायत नही है ।

दिनांक : 25/6/2024

हस्ताक्षर

1) पहले एक माह पहले गंदा पानी आता था
2) वर्तमान मे साफ पानी आ रहा है
3) पेयजल आपूर्ति 10.50 MLD WTP AEN ऑफिस से पानी आ रहा है

मै ..... निवासी (वार्ड सं./कॉलोनी) .....
..... बांसवाड़ा वर्तमान मे जन स्वा. अभि. विभाग, नगर उपखण्ड बांसवाड़ा द्वारा सप्लाई किये जा रहे पेयजल (पीने के पानी) की गुणवत्ता से संतुष्ट हुं ।

जन स्वा. अभि. विभाग बांसवाड़ा द्वारा सप्लाई किये जा रहे पेयजल (पीने के पानी) की गुणवत्ता से कोई शिकायत नही है ।

दिनांक :
3/6/2025

हस्ताक्षर

⇒ वर्तमान मे पानी साफ आ रहा
2) एक माह पहले गन्दा पानी
3) सप्लाई स्रोत - 10.50 MLD WTP
Agra नहर से आपूर्ति

मै फतेहपुरा निवासी (वार्ड सं./कॉलोनी) नवी पुरा ..... बांसवाड़ा वर्तमान मे जन स्वा. अभि. विभाग, नगर उपखण्ड बांसवाड़ा द्वारा सप्लाई किये जा रहे पेयजल (पीने के पानी) की गुणवत्ता से संतुष्ट हुं ।

जन स्वा. अभि. विभाग बांसवाड़ा द्वारा सप्लाई किये जा रहे पेयजल (पीने के पानी) की गुणवत्ता से कोई शिकायत नही है ।

दिनांक :

हस्ताक्षर

1) वर्तमान के पानी साफ़ आ रहा है

2) नई लाइन में गंदा पानी की शिकायत आई थी

CPCB

CENTRAL POLLUTION CONTROL BOARD
REGIONAL DIRECTORATE (CENTRAL)
BHOPAL

WATER LABORATORY
Fresh Water Analysis Report

Project Name		**NGT OA: 69/2025, Banswara**		**Report No.**	**FW/25-26/58**
Sample Description		**Kagdi Reservoir (Weir), Banswara**		**Date of Issue**	**10.07.2025**
Date of sample collection		25.06.2025		**Requisition No.**	121
Date of sample receipt		30.06.2025		**Type of Sample**	Grab
Sample Analysis Period		30.06.2025 to 10.07.2025		**Sample Collected By**	Sh. A Tiwari, Sh. SS Kushwah
Sr. No.	**Parameter Name**	**Unit**	**Result Value**	**Method**	**Lowest Detection Limit**
1	Colour	Pt-Co Scale	8.64	APHA, 2120-B	03 Colour Unit
2	Dissolved Oxygen	mg/L	2.46	APHA 4500-O-C	0.3 mg/L
3	pH	pH unit	7.15	APHA, 4500H+B	2.0
4	Turbidity	N.T.U.	8.2	APHA, 2130-B	01 NTU
5	Nitrite Nitrogen (as N)	mg/L	0.49	APHA 4500-NO_2-B	0.02 mg/L
6	Nitrate Nitrogen (as N)	mg/L	2.58	APHA 4500-NO_3E	0.3 mg/L

*BDL: Below Detection Limit, NT: Not Traceble, ND: Not Detected

Note: 1. The results relate only to the samples tested.
2. The report shall not be reproduced except in full without the written approval of the laboratory.

Prepared By:

मिलिन्द कुमार निमजे/Milind Kumar Nimje
वैज्ञानिक-'ग',लैब प्रमुख एवं सरकारी विशलेपक
Scientist-'C' Lab Head & Government Analyst
क्षेत्रीय निदेशालय / Regional Directorate
केन्द्रीय प्रदूषण नियंत्रण बोर्ड,भोपाल (म.प्र.)
Pollution Control Board,Bhopal (M.P.)

Authorized Signatory:

ISO 9001: 2015

ISO 45001: 2018

EPA Recognised

END OF REPORT

TEST REPORT

ULR No.: TC687225000001287F			**Test Report No:- CES/20250702A01**	
Report Issue Date : 04.07.2025				
Customer information				
Name & Address of the Customer To, **M/s Regional Director,** **Central Pollution Control Board "Paryawaran Parisar",** **E – 5, Arera Colony, Bhopal (M.P.) – 462016**			Name of Contact person : Nil Contact no.: Nil Work Order No. : LB-99/73/2023-LAB-RD-BHOPAL/13998/330-331 Date : 01.07.2025	
Sample Name: water (FW/25-26/58)				
Sampling details				
Sampling plan details:				
Sample Collected By :- Client			**Sample quantity :**	: 1 Litre
Sample Packing	:	Plastic bottle	**Sample Condition:**	: Fit for Analysis
Date of Sampling	:	02.07.2025	**Date of Receipt**	: 02.07.2025
Period of testing	:	02.07.2025 to 04.07.2025		

S. No.	Test Parameters	Unit	Test method	Result Obtained
Chemical Testing				
1	Total Kjeldahl Nitrogen	mg/L	APHA 24th ed. 2023 4500-Norg -B	<5.00
2	Total Phosphate	mg/L	APHA 24th ed. 2023 4500 - PD	1.04

Reviewed By:

Authorized Signatory

NEELAM UPADHYAY
TECHNICAL MANAGER

CES ANALYTICAL AND RESEARCH SERVICES (I) PVT. LTD. BHOPAL

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Project Name		**NGT OA: 69/2025, Banswara**		**Report No.**	**FW/25-26/59**
Sample Description		**Kagdi Intake Structure**		**Date of Issue**	**10.07.2025**
Date of sample collection		25.06.2025		**Requisition No.**	121
Date of sample receipt		30.06.2025		**Type of Sample**	Grab
Sample Analysis Period		30.06.2025 to 10.07.2025		**Sample Collected By**	Sh. A Tiwari, Sh. SS Kushwah
Sr. No.	**Parameter Name**	**Unit**	**Result Value**	**Method**	**Lowest Detection Limit**
1	Colour	Pt-Co Scale	BDL	APHA, 2120-B	03 Colour Unit
2	Dissolved Oxygen	mg/L	3.84	APHA 4500-O-C	0.3 mg/L
3	pH	pH unit	7.32	APHA, 4500H+B	2.0
4	Turbidity	N.T.U.	4.41	APHA, 2130-B	01 NTU
5	Nitrite Nitrogen (as N)	mg/L	0.35	APHA 4500-NO_2-B	0.02 mg/L
6	Nitrate Nitrogen (as N)	mg/L	1.6	APHA 4500-NO_3E	0.3 mg/L

*BDL: Below Detection Limit, NT: Not Traceble, ND: Not Detected

Note: 1. The results relate only to the samples tested.
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Prepared By:

मिलिन्द कुमार निमजे/Milind Kumar Nimje
वैज्ञानिक–'ग',लैब प्रमुख एवं सरकारी विशलेषक
Scientist-'C' Lab Head & Government Analyst
क्षेत्रीय निदेशालय / Regional Directorate
केन्द्रीय प्रदूषण नियंत्रण बोर्ड,भोपाल (म.प्र.)
Central Pollution Control Board,Bhopal (M.P.)

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ISO 45001: 2018

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TEST REPORT

ULR No.: TC687225000001288F		**Test Report No:- CES/20250702A02**	
Report Issue Date : 04.07.2025			
Customer information			
Name & Address of the Customer To, **M/s Regional Director,** **Central Pollution Control Board "Paryawaran Parisar",** **E – 5, Arera Colony, Bhopal (M.P.) – 462016**		Name of Contact person : Nil Contact no.: Nil Work Order No. : LB-99/73/2023-LAB-RD-BHOPAL/13998/330-331 Date : 01.07.2025	
Sample Name: water (FW/25-26/59)			
Sampling details			
Sampling plan details:			
Sample Collected By :- Client		**Sample quantity :**	: 1 Litre
Sample Packing	: Plastic bottle	**Sample Condition:**	: Fit for Analysis
Date of Sampling	: 02.07.2025	**Date of Receipt**	: 02.07.2025
Period of testing	: 02.07.2025 to 04.07.2025		

S. No.	Test Parameters	Unit	Test method	Result Obtained
Chemical Testing				
1	Total Kjeldahl Nitrogen	mg/L	APHA 24th ed. 2023 4500-Norg -B	<5.00
2	Total Phosphate	mg/L	APHA 24th ed. 2023 4500 - PD	0.25

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TECHNICAL MANAGER

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Project Name		**NGT OA: 69/2025, Banswara**		**Report No.**	**FW/25-26/61**
Sample Description		**Bai Talaab**		**Date of Issue**	**10.07.2025**
Date of sample collection		25.06.2025		**Requisition No.**	121
Date of sample receipt		30.06.2025		**Type of Sample**	Grab
Sample Analysis Period		30.06.2025 to 10.07.2025		**Sample Collected**	Sh. A Tiwari, Sh.
Sr.	**Parameter Name**	**Unit**	**Result Value**	**Method**	**Lowest Detection**
1	Colour	Pt-Co Scale	5.76	APHA, 2120-B	03 Colour Unit
2	Dissolved Oxygen	mg/L	5.71	APHA 4500-O-C	0.3 mg/L
3	pH	pH unit	7.21	APHA, 4500H+B	2.0
4	Turbidity	N.T.U.	9.1	APHA, 2130-B	01 NTU
5	Nitrite Nitrogen (as N)	mg/L	0.13	APHA 4500-NO_2-B	0.02 mg/L
6	Nitrate Nitrogen (as N)	mg/L	0.48	APHA 4500-NO_3E	0.3 mg/L

*BDL: Below Detection Limit, NT: Not Traceble, ND: Not Detected

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Prepared By:

मिलिन्द कुमार निमजे/Milind Kumar Nimje
वैज्ञानिक-'ग',लैब प्रमुख एवं सरकारी विशलेषक
Scientist-'C' Lab Head & Government Analyst
क्षेत्रीय निदेशालय / Regional Directorate
केन्द्रीय प्रदूषण नियंत्रण बोर्ड,भोपाल (म.प्र.)
Central Pollution Control Board,Bhopal (M.P.)

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END OF REPORT

TEST REPORT

ULR No.: TC687225000001290F		**Test Report No:- CES/20250702A04**	
Report Issue Date : 04.07.2025			
Customer information			
Name & Address of the Customer To, **M/s Regional Director,** **Central Pollution Control Board "Paryawaran Parisar",** **E – 5, Arera Colony, Bhopal (M.P.) – 462016**		Name of Contact person : Nil Contact no.: Nil Work Order No. : LB-99/73/2023-LAB-RD-BHOPAL/13998/330-331 Date : 01.07.2025	
Sample Name: water (FW/25-26/61)			
Sampling details			
Sampling plan details:			
Sample Collected By :- Client		**Sample quantity** :	: 1 Litre
Sample Packing	: Plastic bottle	**Sample Condition:**	: Fit for Analysis
Date of Sampling	: 02.07.2025	**Date of Receipt**	: 02.07.2025
Period of testing	: 02.07.2025 to 04.07.2025		

S. No.	Test Parameters	Unit	Test method	Result Obtained
Chemical Testing				
1	Total Kjeldahl Nitrogen	mg/L	APHA 24th ed. 2023 4500-Norg -B	6.72
2	Total Phosphate	mg/L	APHA 24th ed. 2023 4500 - PD	0.83

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TECHNICAL MANAGER

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Project Name		**NGT OA: 69/2025, Banswara**		**Report No.**	**FW/25-26/60**
Sample Description		**Hydro Project Power House-1**		**Date of Issue**	**10.07.2025**
Date of sample collection		25.06.2025		**Requisition No.**	121
Date of sample receipt		30.06.2025		**Type of Sample**	Grab
Sample Analysis Period		30.06.2025 to 10.07.2025		**Sample Collected By**	Sh. A Tiwari, Sh. SS Kushwah
Sr.	**Parameter Name**	**Unit**	**Result Value**	**Method**	**Lowest Detection**
1	Colour	Pt-Co Scale	BDL	APHA, 2120-B	03 Colour Unit
2	pH	pH unit	7.3	APHA, 4500H+B	2.0
3	Turbidity	N.T.U.	10.81	APHA, 2130-B	01 NTU
4	Nitrite Nitrogen (as N)	mg/L	0.38	APHA 4500-NO_2-B	0.02 mg/L
5	Nitrate Nitrogen (as N)	mg/L	0.96	APHA 4500-NO_3E	0.3 mg/L

*BDL: Below Detection Limit, NT: Not Traceble, ND: Not Detected

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Prepared By:

मिलिन्द कुमार निमजे/Milind Kumar Nimje
वैज्ञानिक-'ग',लैब प्रमुख एवं सरकारी विश्लेषक
Scientist-'C' Lab Head & Government Analyst
क्षेत्रीय निदेशालय / Regional Directorate
केन्द्रीय प्रदूषण नियंत्रण बोर्ड,भोपाल (म.प्र.)
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TEST REPORT

ULR No.: TC687225000001289F		**Test Report No:- CES/20250702A03**	
Report Issue Date : 04.07.2025			
Customer information			
Name & Address of the Customer To, **M/s Regional Director,** **Central Pollution Control Board "Paryawaran Parisar",** **E – 5, Arera Colony, Bhopal (M.P.) – 462016**		Name of Contact person : Nil Contact no.: Nil Work Order No. : LB-99/73/2023-LAB-RD-BHOPAL/13998/330-331 Date : 01.07.2025	
Sample Name: water (FW/25-26/60)			
Sampling details			
Sampling plan details:			
Sample Collected By :- Client		**Sample quantity** :	: 1 Litre
Sample Packing	: Plastic bottle	**Sample Condition:**	: Fit for Analysis
Date of Sampling	: 02.07.2025	**Date of Receipt**	: 02.07.2025
Period of testing	: 02.07.2025 to 04.07.2025		

S. No.	Test Parameters	Unit	Test method	Result Obtained
Chemical Testing				
1	Total Kjeldahl Nitrogen	mg/L	APHA 24th ed. 2023 4500-Norg -B	26.32
2	Total Phosphate	mg/L	APHA 24th ed. 2023 4500 - PD	0.25

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TECHNICAL MANAGER

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Project Name		**NGT OA: 69/2025, Banswara**		**Report No.**	**FW/25-26/62**
Sample Description		**WTP 4.54 MLD Inlet**		**Date of Issue**	**10.07.2025**
Date of sample collection		25.06.2025		**Requisition No.**	121
Date of sample receipt		30.06.2025		**Type of Sample**	Grab
Sample Analysis Period		30.06.2025 to 10.07.2025		**Sample Collected By**	Sh. A Tiwari, Sh. SS Kushwah
Sr. No.	**Parameter Name**	**Unit**	**Result Value**	**Method**	**Lowest Detection Limit**
1	Colour	Pt-Co Scale	BDL	APHA, 2120-B	03 Colour Unit
2	pH	pH unit	6.62	APHA, 4500H+B	2.0
3	Total Dissolved Solids	mg/L	169	APHA 2540 C	10 mg/L
4	Chloride	mg/L	27	APHA, 4500-Cl-B	05 mg/L
5	T. Hardness (as $CaCO_3$)	mg/L	115.2	APHA 2340-C	10 mg/L
6	Turbidity	N.T.U.	23.91	APHA, 2130-B	01 NTU
7	Nitrate Nitrogen (as N)	mg/L	BDL	APHA 4500-NO_3E	0.3 mg/L
8	Fluoride (as F)	mg/L	BDL	APHA 4500-F-C	0.2 mg/L

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Prepared By:

मिलिन्द कुमार निमजे/Milind Kumar Nimje
वैज्ञानिक-'ग',लैब प्रमुख एवं सरकारी विश्लेषक
Scientist-'C' Lab Head & Government Analyst
क्षेत्रीय निदेशालय / Regional Directorate
केन्द्रीय प्रदूषण नियंत्रण बोर्ड,भोपाल (म.प्र.)
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Project Name	**NGT OA: 69/2025, Banswara**		**Report No.**	**Inst/FW/25-26/62**
Sample Description	**WTP 4.54 MLD Inlet**		**Date of Issue**	**10.07.2025**
Date of sample collection	25.06.2025		**Requisition No.**	121
Date of sample receipt	30.06.2025		**Type of Sample**	Grab
Sample Analysis Period	30.06.2025 to 10.07.2025		**Sample Collected By**	Sh. A Tiwari, Sh. SS Kushwah

Sr. No.	**Parameter Name**	**Unit**	**Result Value**	**Method**	**Lowest Detection Limit**
1	Iron (as Fe)	mg/L	0.079	APHA 3111 B	0.005

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मिलिन्द कुमार निमजे/Milind Kumar Nimje
वैज्ञानिक-'ग',लैब प्रमुख एवं सरकारी विशलेषक
Scientist-'C' Lab Head & Government Analyst
क्षेत्रीय निदेशालय / Regional Directorate
केन्द्रीय प्रदूषण नियंत्रण बोर्ड,भोपाल (म.प्र.)
Central Pollution Control Board,Bhopal (M.P.)

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END OF REPORT

Project Name		**NGT OA: 69/2025, Banswara**		**Report No.**	**FW/25-26/63**
Sample Description		**WTP 4.54 MLD Outlet**		**Date of Issue**	**10.07.2025**
Date of sample collection		25.06.2025		**Requisition No.**	121
Date of sample receipt		30.06.2025		**Type of Sample**	Grab
Sample Analysis Period		30.06.2025 to 10.07.2025		**Sample Collected By**	Sh. A Tiwari, Sh. SS Kushwah
Sr. No.	**Parameter Name**	**Unit**	**Result Value**	**Method**	**Lowest Detection Limit**
1	Colour	Pt-Co Scale	BDL	APHA, 2120-B	03 Colour Unit
2	pH	pH unit	6.8	APHA, 4500H+B	2.0
3	Total Dissolved Solids	mg/L	160	APHA 2540 C	10 mg/L
4	Chloride	mg/L	20	APHA, 4500-Cl-B	05 mg/L
5	T. Hardness (as $CaCO_3$)	mg/L	111.36	APHA 2340-C	10 mg/L
6	Turbidity	N.T.U.	1.81	APHA, 2130-B	01 NTU
7	Nitrate Nitrogen (as N)	mg/L	BDL	APHA 4500-NO_3E	0.3 mg/L
8	Fluoride (as F)	mg/L	0.2	APHA 4500-F-C	0.2 mg/L
9	Faecal Coliform	MPN/100ml	<1.8	APHA 9221-E	<1.8 MPN/100ml
10	Total Coliform	MPN/100ml	<1.8	APHA 9221-A,B,C	<1.8 MPN/100ml

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मिलिन्द कुमार निमजे/Milind Kumar Nimje
वैज्ञानिक-'ग',लैब प्रमुख एवं सरकारी विशलेषक
Scientist-'C' Lab Head & Government Analyst
क्षेत्रीय निदेशालय/Regional Directorate
केन्द्रीय प्रदूषण नियंत्रण बोर्ड,भोपाल (म.प्र.)
Central Pollution Control Board,Bhopal (M.P.)

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Project Name		**NGT OA: 69/2025, Banswara**		**Report No.**	**Inst/FW/25-26/63**
Sample Description		**WTP 4.54 MLD Outlet**		**Date of Issue**	**10.07.2025**
Date of sample collection		25.06.2025		**Requisition No.**	121
Date of sample receipt		30.06.2025		**Type of Sample**	Grab
Sample Analysis Period		30.06.2025 to 10.07.2025		**Sample Collected By**	Sh. A Tiwari, Sh. SS Kushwah
Sr. No.	**Parameter Name**	**Unit**	**Result Value**	**Method**	**Lowest Detection Limit**
1	Iron (as Fe)	mg/L	0.067	APHA 3111 B	0.005

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मिलिन्द कुमार निमजे/Milind Kumar Nimje
वैज्ञानिक-'ग',लैब प्रमुख एवं सरकारी विश्लेषक
Scientist-'C' Lab Head & Government Analyst
क्षेत्रीय निदेशालय/Regional Directorate
केन्द्रीय प्रदूषण नियंत्रण बोर्ड,भोपाल (म.प्र.)
Central Pollution Control Board,Bhopal (M.P.)

Authorized Signatory:

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Project Name		**NGT OA: 69/2025, Banswara**		**Report No.**	**FW/25-26/64**
Sample Description		**WTP 9.25 MLD Inlet**		**Date of Issue**	**10.07.2025**
Date of sample collection		25.06.2025		**Requisition No.**	121
Date of sample receipt		30.06.2025		**Type of Sample**	Grab
Sample Analysis Period		30.06.2025 to 10.07.2025		**Sample Collected By**	Sh. A Tiwari, Sh. SS Kushwah
Sr. No.	**Parameter Name**	**Unit**	**Result Value**	**Method**	**Lowest Detection Limit**
1	Colour	Pt-Co Scale	92.17	APHA, 2120-B	03 Colour Unit
2	pH	pH unit	6.83	APHA, 4500H+B	2.0
3	Total Dissolved Solids	mg/L	145	APHA 2540 C	10 mg/L
4	Chloride	mg/L	16	APHA, 4500-Cl-B	05 mg/L
5	T. Hardness (as $CaCO_3$)	mg/L	107.52	APHA 2340-C	10 mg/L
6	Turbidity	N.T.U.	52.86	APHA, 2130-B	01 NTU
7	Nitrate Nitrogen (as N)	mg/L	1.48	APHA 4500-NO_3E	0.3 mg/L
8	Fluoride (as F)	mg/L	0.2	APHA 4500-F-C	0.2 mg/L

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मिलिन्द कुमार निमजे/Milind Kumar Nimje
वैज्ञानिक-'ग',लैब प्रमुख एवं सरकारी विश्लेषक
Scientist-'C' Lab Head & Government Analyst
क्षेत्रीय निदेशालय / Regional Directorate
केन्द्रीय प्रदूषण नियंत्रण बोर्ड,भोपाल (म.प्र.)
Central Pollution Control Board,Bhopal

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END OF REPORT

Project Name		**NGT OA: 69/2025, Banswara**		**Report No.**	**Inst/FW/25-26/64**
Sample Description		**WTP 9.25 MLD Inlet**		**Date of Issue**	**10.07.2025**
Date of sample collection		25.06.2025		**Requisition No.**	121
Date of sample receipt		30.06.2025		**Type of Sample**	Grab
Sample Analysis Period		30.06.2025 to 10.07.2025		**Sample Collected By**	Sh. A Tiwari, Sh. SS Kushwah
Sr. No.	**Parameter Name**	**Unit**	**Result Value**	**Method**	**Lowest Detection Limit**
1	Iron (as Fe)	mg/L	0.264	APHA 3111 B	0.005

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मिलिन्द कुमार निमजे/Milind Kumar Nimje
वैज्ञानिक-'ग',लैब प्रमुख एवं सरकारी विश्लेषक
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क्षेत्रीय निदेशालय / Regional Directorate
केन्द्रीय प्रदूषण नियंत्रण बोर्ड,भोपाल (म.प्र.)
Central Pollution Control Board,Bhopal (M.P.)

Authorized Signatory:

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Project Name		**NGT OA: 69/2025, Banswara**		**Report No.**	**FW/25-26/65**
Sample Description		**WTP 9.25 MLD Outlet**		**Date of Issue**	**10.07.2025**
Date of sample collection		25.06.2025		**Requisition No.**	121
Date of sample receipt		30.06.2025		**Type of Sample**	Grab
Sample Analysis Period		30.06.2025 to 10.07.2025		**Sample Collected By**	Sh. A Tiwari, Sh. SS Kushwah
Sr. No.	**Parameter Name**	**Unit**	**Result Value**	**Method**	**Lowest Detection Limit**
1	Colour	Pt-Co Scale	BDL	APHA, 2120-B	03 Colour Unit
2	pH	pH unit	6.79	APHA, 4500H+B	2.0
3	Total Dissolved Solids	mg/L	162	APHA 2540 C	10 mg/L
4	Chloride	mg/L	21	APHA, 4500-Cl-B	05 mg/L
5	T. Hardness (as $CaCO_3$)	mg/L	103.68	APHA 2340-C	10 mg/L
6	Turbidity	N.T.U.	BDL	APHA, 2130-B	01 NTU
7	Nitrate Nitrogen (as N)	mg/L	BDL	APHA 4500-NO_3E	0.3 mg/L
8	Fluoride (as F)	mg/L	BDL	APHA 4500-F-C	0.2 mg/L
9	Faecal Coliform	MPN/100ml	<1.8	APHA 9221-E	<1.8 MPN/100ml
10	Total Coliform	MPN/100ml	<1.8	APHA 9221-A,B,C	<1.8 MPN/100ml

*BDL: Below Detection Limit, NT: Not Traceble, ND: Not Detected

Note: 1. The results relate only to the samples tested.
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Prepared By:

मिलिन्द कुमार निमजे/Milind Kumar Nimje
वैज्ञानिक-'ग',लैब प्रमुख एवं सरकारी विश्लेषक
Scientist-'C' Lab Head & Government Analyst
क्षेत्रीय निदेशालय / Regional Directorate
केन्द्रीय प्रदूषण नियंत्रण बोर्ड,भोपाल (म.प्र.)
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END OF REPORT

Project Name	**NGT OA: 69/2025, Banswara**		**Report No.**	**Inst/FW/25-26/65**
Sample Description	**WTP 9.25 MLD Outlet**		**Date of Issue**	**10.07.2025**
Date of sample collection	25.06.2025		**Requisition No.**	121
Date of sample receipt	30.06.2025		**Type of Sample**	Grab
Sample Analysis Period	30.06.2025 to 10.07.2025		**Sample Collected By**	Sh. A Tiwari, Sh. SS Kushwah

Sr. No.	**Parameter Name**	**Unit**	**Result Value**	**Method**	**Lowest Detection Limit**
1	Iron (as Fe)	mg/L	0.087	APHA 3111 B	0.005

*BDL: Below Detection Limit, NT: Not Traceble, ND: Not Detected

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वैज्ञानिक-'ग',लैब प्रमुख एवं सरकारी विश्लेषक
Scientist-'C' Lab Head & Government Analyst
क्षेत्रीय निदेशालय / Regional Directorate
केन्द्रीय प्रदूषण नियंत्रण बोर्ड,भोपाल (म.प्र.)
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Project Name		**NGT OA: 69/2025, Banswara**		**Report No.**	**FW/25-26/66**
Sample Description		**WTP 10.54 MLD Inlet**		**Date of Issue**	**10.07.2025**
Date of sample collection		25.06.2025		**Requisition No.**	122
Date of sample receipt		30.06.2025		**Type of Sample**	Grab
Sample Analysis Period		30.06.2025 to 10.07.2025		**Sample Collected By**	Sh. A Tiwari, Sh. SS Kushwah
Sr. No.	**Parameter Name**	**Unit**	**Result Value**	**Method**	**Lowest Detection Limit**
1	Colour	Pt-Co Scale	31.68	APHA, 2120-B	03 Colour Unit
2	pH	pH unit	6.84	APHA, 4500H+B	2.0
3	Total Dissolved Solids	mg/L	138	APHA 2540 C	10 mg/L
4	Chloride	mg/L	13	APHA, 4500-Cl-B	05 mg/L
5	T. Hardness (as $CaCO_3$)	mg/L	105.6	APHA 2340-C	10 mg/L
6	Turbidity	N.T.U.	109.7	APHA, 2130-B	01 NTU
7	Nitrate Nitrogen (as N)	mg/L	0.46	APHA 4500-NO_3E	0.3 mg/L
8	Fluoride (as F)	mg/L	BDL	APHA 4500-F-C	0.2 mg/L

*BDL: Below Detection Limit, NT: Not Traceble, ND: Not Detected

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Prepared By:

मिलिन्द कुमार निमजे/Milind Kumar Nimje
वैज्ञानिक-'ग',लैब प्रमुख एवं सरकारी विशलेषक
Scientist-'C' Lab Head & Government Analyst
क्षेत्रीय निदेशालय/Regional Directorate
केन्द्रीय प्रदूषण नियंत्रण बोर्ड,भोपाल (म.प्र.)
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Project Name		**NGT OA: 69/2025, Banswara**		**Report No.**	**Inst/FW/25-26/66**
Sample Description		**WTP 10.54 MLD Inlet**		**Date of Issue**	**10.07.2025**
Date of sample collection		25.06.2025		**Requisition No.**	122
Date of sample receipt		30.06.2025		**Type of Sample**	Grab
Sample Analysis Period		30.06.2025 to 10.07.2025		**Sample Collected By**	Sh. A Tiwari, Sh. SS Kushwah
Sr. No.	**Parameter Name**	**Unit**	**Result Value**	**Method**	**Lowest Detection Limit**
1	Iron (as Fe)	mg/L	0.718	APHA 3111 B	0.005

*BDL: Below Detection Limit, NT: Not Traceble, ND: Not Detected

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वैज्ञानिक–'ग',लैब प्रमुख एवं सरकारी विश्लेषक
Scientist-'C' Lab Head & Government Analyst
क्षेत्रीय निदेशालय / Regional Directorate
केन्द्रीय प्रदूषण नियंत्रण बोर्ड,भोपाल (म.प्र.)
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Project Name		**NGT OA: 69/2025, Banswara**		**Report No.**	**FW/25-26/67**
Sample Description		**WTP 10.54 MLD Outlet**		**Date of Issue**	**10.07.2025**
Date of sample collection		25.06.2025		**Requisition No.**	122
Date of sample receipt		30.06.2025		**Type of Sample**	Grab
Sample Analysis Period		30.06.2025 to 10.07.2025		**Sample Collected By**	Sh. A Tiwari, Sh. SS Kushwah
Sr. No.	**Parameter Name**	**Unit**	**Result Value**	**Method**	**Lowest Detection Limit**
1	Colour	Pt-Co Scale	BDL	APHA, 2120-B	03 Colour Unit
2	pH	pH unit	6.86	APHA, 4500H+B	2.0
3	Total Dissolved Solids	mg/L	167	APHA 2540 C	10 mg/L
4	Chloride	mg/L	24	APHA, 4500-Cl-B	05 mg/L
5	T. Hardness (as $CaCO_3$)	mg/L	115.2	APHA 2340-C	10 mg/L
6	Turbidity	N.T.U.	9.1	APHA, 2130-B	01 NTU
7	Nitrate Nitrogen (as N)	mg/L	BDL	APHA 4500-NO_3E	0.3 mg/L
8	Fluoride (as F)	mg/L	BDL	APHA 4500-F-C	0.2 mg/L
9	Faecal Coliform	MPN/100ml	<1.8	APHA 9221-E	<1.8 MPN/100ml
10	Total Coliform	MPN/100ml	<1.8	APHA 9221-A,B,C	<1.8 MPN/100ml

*BDL: Below Detection Limit, NT: Not Traceble, ND: Not Detected

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क्षेत्रीय निदेशालय / Regional Directorate
केन्द्रीय प्रदूषण नियंत्रण बोर्ड,भोपाल (म.प्र.)
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Project Name		**NGT OA: 69/2025, Banswara**		**Report No.**	**Inst/FW/25-26/67**
Sample Description		**WTP 10.54 MLD Outlet**		**Date of Issue**	**10.07.2025**
Date of sample collection		25.06.2025		**Requisition No.**	122
Date of sample receipt		30.06.2025		**Type of Sample**	Grab
Sample Analysis Period		30.06.2025 to 10.07.2025		**Sample Collected By**	Sh. A Tiwari, Sh. SS Kushwah
Sr. No.	**Parameter Name**	**Unit**	**Result Value**	**Method**	**Lowest Detection Limit**
1	Iron (as Fe)	mg/L	0.139	APHA 3111 B	0.005

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Prepared By:

मिलिन्द कुमार निमजे/Milind Kumar Nimje
वैज्ञानिक-'ग',लैब प्रमुख एवं सरकारी विश्लेषक
Scientist-'C' Lab Head & Government Analyst
क्षेत्रीय निदेशालय / Regional Directorate
केन्द्रीय प्रदूषण नियंत्रण बोर्ड,भोपाल (म.प्र.)
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Project Name		**NGT OA: 69/2025, Banswara**		**Report No.**	**FW/25-26/68**
Sample Description		**Parshad House, Harijan Basti**		**Date of Issue**	**10.07.2025**
Date of sample collection		25.06.2025		**Requisition No.**	122
Date of sample receipt		30.06.2025		**Type of Sample**	Grab
Sample Analysis Period		30.06.2025 to 10.07.2025		**Sample Collected By**	Sh. A Tiwari, Sh. SS Kushwah
Sr. No.	**Parameter Name**	**Unit**	**Result Value**	**Method**	**Lowest Detection Limit**
1	Colour	Pt-Co Scale	BDL	APHA, 2120-B	03 Colour Unit
2	pH	pH unit	6.97	APHA, 4500H+B	2.0
3	Total Dissolved Solids	mg/L	164	APHA 2540 C	10 mg/L
4	Chloride	mg/L	23	APHA, 4500-Cl-B	05 mg/L
5	T. Hardness (as $CaCO_3$)	mg/L	113.28	APHA 2340-C	10 mg/L
6	Turbidity	N.T.U.	5	APHA, 2130-B	01 NTU
7	Nitrate Nitrogen (as N)	mg/L	BDL	APHA 4500-NO_3E	0.3 mg/L
8	Fluoride (as F)	mg/L	BDL	APHA 4500-F-C	0.2 mg/L
9	Faecal Coliform	MPN/100ml	<1.8	APHA 9221-E	<1.8 MPN/100ml
10	Total Coliform	MPN/100ml	<1.8	APHA 9221-A,B,C	<1.8 MPN/100ml

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वैज्ञानिक-'ग',लैब प्रमुख एवं सरकारी विश्लेषक
Scientist-'C' Lab Head & Government Analyst
क्षेत्रीय निदेशालय / Regional Directorate
केन्द्रीय प्रदूषण नियंत्रण बोर्ड,भोपाल (म.प्र.)
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Project Name		**NGT OA: 69/2025, Banswara**		**Report No.**	**Inst/FW/25-26/68**
Sample Description		**Parshad House, Harijan Basti**		**Date of Issue**	**10.07.2025**
Date of sample collection		25.06.2025		**Requisition No.**	122
Date of sample receipt		30.06.2025		**Type of Sample**	Grab
Sample Analysis Period		30.06.2025 to 10.07.2025		**Sample Collected By**	Sh. A Tiwari, Sh. SS Kushwah
Sr. No.	**Parameter Name**	**Unit**	**Result Value**	**Method**	**Lowest Detection Limit**
1	Iron (as Fe)	mg/L	0.179	APHA 3111 B	0.005

*BDL: Below Detection Limit, NT: Not Traceble, ND: Not Detected

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मिलिन्द कुमार निमजे/Milind Kumar Nimje
वैज्ञानिक-'ग',लैब प्रमुख एवं सरकारी विश्लेषक
Scientist-'C' Lab Head & Government Analyst
क्षेत्रीय निदेशालय / Regional Directorate
केन्द्रीय प्रदूषण नियंत्रण बोर्ड,भोपाल (म.प्र.)
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TEST REPORT

ULR No.: TC687225000001291F		**Test Report No:- CES/20250702A05**	
Report Issue Date : 04.07.2025			
Customer information			
Name & Address of the Customer To, **M/s Regional Director,** **Central Pollution Control Board "Paryawaran Parisar",** **E – 5, Arera Colony, Bhopal (M.P.) – 462016**		Name of Contact person : Nil Contact no.: Nil Work Order No. : LB-99/73/2023-LAB-RD-BHOPAL/13998/330-331 Date : 01.07.2025	
Sample Name: water (FW/25-26/68)			
Sampling details			
Sampling plan details:			
Sample Collected By :- Client		**Sample quantity** :	: 1 Litre
Sample Packing	: Plastic bottle	**Sample Condition:**	: Fit for Analysis
Date of Sampling	: 02.07.2025	**Date of Receipt**	: 02.07.2025
Period of testing	: 02.07.2025 to 04.07.2025		

S. No.	Test Parameters	Unit	Test method	Result Obtained
Chemical Testing				
1	Aluminium as Al	mg/L	IS:3025 P-65 ICP-MS–2022	0.17

Reviewed By:

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NEELAM UPADHYAY
TECHNICAL MANAGER

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Project Name		**NGT OA: 69/2025, Banswara**		**Report No.**	**FW/25-26/71**
Sample Description		**Shahrukh Khan, Muslim Basti**		**Date of Issue**	**10.07.2025**
Date of sample collection		25.06.2025		**Requisition No.**	122
Date of sample receipt		30.06.2025		**Type of Sample**	Grab
Sample Analysis Period		30.06.2025 to 10.07.2025		**Sample Collected By**	Sh. A Tiwari, Sh. SS Kushwah
Sr. No.	**Parameter Name**	**Unit**	**Result Value**	**Method**	**Lowest Detection Limit**
1	Colour	Pt-Co Scale	BDL	APHA, 2120-B	03 Colour Unit
2	pH	pH unit	7.02	APHA, 4500H+B	2.0
3	Total Dissolved Solids	mg/L	483	APHA 2540 C	10 mg/L
4	Chloride	mg/L	56	APHA, 4500-Cl-B	05 mg/L
5	T. Hardness (as $CaCO_3$)	mg/L	307.2	APHA 2340-C	10 mg/L
6	Turbidity	N.T.U.	2.51	APHA, 2130-B	01 NTU
7	Nitrate Nitrogen (as N)	mg/L	1.02	APHA 4500-NO_3E	0.3 mg/L
8	Fluoride (as F)	mg/L	0.601	APHA 4500-F-C	0.2 mg/L
9	Faecal Coliform	MPN/100ml	<1.8	APHA 9221-E	<1.8 MPN/100ml
10	Total Coliform	MPN/100ml	<1.8	APHA 9221-A,B,C	<1.8 MPN/100ml

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मिलिन्द कुमार निमजे/Milind Kumar Nimje
वैज्ञानिक-'ग',लैब प्रमुख एवं सरकारी विश्लेषक
Scientist-'C' Lab Head & Government Analyst
क्षेत्रीय निदेशालय / Regional Directorate
केन्द्रीय प्रदूषण नियंत्रण बोर्ड,भोपाल (म.प्र.)
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Project Name		**NGT OA: 69/2025, Banswara**		**Report No.**	**Inst/FW/25-26/71**
Sample Description		**Shahrukh Khan, Muslim Basti**		**Date of Issue**	**10.07.2025**
Date of sample collection		25.06.2025		**Requisition No.**	122
Date of sample receipt		30.06.2025		**Type of Sample**	Grab
Sample Analysis Period		30.06.2025 to 10.07.2025		**Sample Collected By**	Sh. A Tiwari, Sh. SS Kushwah
Sr. No.	**Parameter Name**	**Unit**	**Result Value**	**Method**	**Lowest Detection Limit**
1	Iron (as Fe)	mg/L	0.233	APHA 3111 B	0.005

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वैज्ञानिक–'ग',लैब प्रमुख एवं सरकारी विश्लेषक
Scientist-'C' Lab Head & Government Analyst
क्षेत्रीय निदेशालय / Regional Directorate
केन्द्रीय प्रदूषण नियंत्रण बोर्ड,भोपाल (म.प्र.)
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TEST REPORT

ULR No.: TC687225000001294F		**Test Report No:- CES/20250702A08**	
Report Issue Date : 04.07.2025			
Customer information			
Name & Address of the Customer To, **M/s Regional Director,** **Central Pollution Control Board "Paryawaran Parisar",** **E – 5, Arera Colony, Bhopal (M.P.) – 462016**		Name of Contact person : Nil Contact no.: Nil Work Order No. : LB-99/73/2023-LAB-RD-BHOPAL/13998/330-331 Date : 01.07.2025	
Sample Name: water (FW/25-26/71)			
Sampling details			
Sampling plan details:			
Sample Collected By :- Client		**Sample quantity** :	: 1 Litre
Sample Packing	: Plastic bottle	**Sample Condition:**	: Fit for Analysis
Date of Sampling	: 02.07.2025	**Date of Receipt**	: 02.07.2025
Period of testing	: 02.07.2025 to 04.07.2025		

S. No.	Test Parameters	Unit	Test method	Result Obtained
Chemical Testing				
1	Aluminium as Al	mg/L	IS:3025 P-65 ICP-MS–2022	0.06

Reviewed By:

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Project Name		**NGT OA: 69/2025, Banswara**		**Report No.**	**FW/25-26/72**
Sample Description		**Paresh House, Nabipura**		**Date of Issue**	**10.07.2025**
Date of sample collection		25.06.2025		**Requisition No.**	122
Date of sample receipt		30.06.2025		**Type of Sample**	Grab
Sample Analysis Period		30.06.2025 to 10.07.2025		**Sample Collected By**	Sh. A Tiwari, Sh. SS Kushwah
Sr. No.	**Parameter Name**	**Unit**	**Result Value**	**Method**	**Lowest Detection Limit**
1	Colour	Pt-Co Scale	BDL	APHA, 2120-B	03 Colour Unit
2	pH	pH unit	7.15	APHA, 4500H+B	2.0
3	Total Dissolved Solids	mg/L	316	APHA 2540 C	10 mg/L
4	Chloride	mg/L	32	APHA, 4500-Cl-B	05 mg/L
5	T. Hardness (as $CaCO_3$)	mg/L	230.4	APHA 2340-C	10 mg/L
6	Turbidity	N.T.U.	3.51	APHA, 2130-B	01 NTU
7	Nitrate Nitrogen (as N)	mg/L	1.83	APHA 4500-NO_3E	0.3 mg/L
8	Fluoride (as F)	mg/L	0.431	APHA 4500-F-C	0.2 mg/L
9	Faecal Coliform	MPN/100ml	<1.8	APHA 9221-E	<1.8 MPN/100ml
10	Total Coliform	MPN/100ml	<1.8	APHA 9221-A,B,C	<1.8 MPN/100ml

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मिलिन्द कुमार निमजे/Milind Kumar Nimje
वैज्ञानिक-'ग',लैब प्रमुख एवं सरकारी विश्लेषक
Scientist-'C' Lab Head & Government Analyst
क्षेत्रीय निदेशालय / Regional Directorate
केन्द्रीय प्रदूषण नियंत्रण बोर्ड,भोपाल (म.प्र.)
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Project Name	**NGT OA: 69/2025, Banswara**		**Report No.**	**Inst/FW/25-26/72**
Sample Description	**Paresh House, Nabipura**		**Date of Issue**	**10.07.2025**
Date of sample collection	25.06.2025		**Requisition No.**	122
Date of sample receipt	30.06.2025		**Type of Sample**	Grab
Sample Analysis Period	30.06.2025 to 10.07.2025		**Sample Collected By**	Sh. A Tiwari, Sh. SS Kushwah

Sr. No.	**Parameter Name**	**Unit**	**Result Value**	**Method**	**Lowest Detection Limit**
1	Iron (as Fe)	mg/L	0.222	APHA 3111 B	0.005

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मिलिन्द कुमार निमजे/Milind Kumar Nimje
वैज्ञानिक–'ग',लैब प्रमुख एवं सरकारी विश्लेषक
Scientist-'C' Lab Head & Government Analyst
क्षेत्रीय निदेशालय / Regional Directorate
केन्द्रीय प्रदूषण नियंत्रण बोर्ड,भोपाल (म.प्र.)
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TEST REPORT

ULR No.: TC687225000001295F		**Test Report No:- CES/20250702A09**	
Report Issue Date : 04.07.2025			
Customer information			
Name & Address of the Customer To, **M/s Regional Director,** **Central Pollution Control Board "Paryawaran Parisar",** **E – 5, Arera Colony, Bhopal (M.P.) – 462016**		Name of Contact person : Nil Contact no.: Nil Work Order No. : LB-99/73/2023-LAB-RD-BHOPAL/13998/330-331 Date : 01.07.2025	
Sample Name: water (FW/25-26/72)			
Sampling details			
Sampling plan details:			
Sample Collected By :- Client		**Sample quantity** :	: 1 Litre
Sample Packing	: Plastic bottle	**Sample Condition:**	: Fit for Analysis
Date of Sampling	: 02.07.2025	**Date of Receipt**	: 02.07.2025
Period of testing	: 02.07.2025 to 04.07.2025		

S. No.	Test Parameters	Unit	Test method	Result Obtained
Chemical Testing				
1	Aluminium as Al	mg/L	IS:3025 P-65 ICP-MS–2022	0.11

Reviewed By:

Authorized Signatory

CES ANALYTICAL AND RESEARCH SERVICES (I) PVT. LTD. BHOPAL

NEELAM UPADHYAY
TECHNICAL MANAGER

The Results relate only to the sample tested/Sampled

Note:-The report will not valid for legal case, if Prior permission not taken from CES.

----------*End of Report*---------

Page – 1 of 1

Note:

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Project Name		**NGT OA: 69/2025, Banswara**		**Report No.**	**FW/25-26/73**
Sample Description		**Ashok Gupta, Housing Board**		**Date of Issue**	**10.07.2025**
Date of sample collection		25.06.2025		**Requisition No.**	122
Date of sample receipt		30.06.2025		**Type of Sample**	Grab
Sample Analysis Period		30.06.2025 to 10.07.2025		**Sample Collected By**	Sh. A Tiwari, Sh. SS Kushwah
Sr. No.	**Parameter Name**	**Unit**	**Result Value**	**Method**	**Lowest Detection Limit**
1	Colour	Pt-Co Scale	BDL	APHA, 2120-B	03 Colour Unit
2	pH	pH unit	7.14	APHA, 4500H+B	2.0
3	Total Dissolved Solids	mg/L	163	APHA 2540 C	10 mg/L
4	Chloride	mg/L	20	APHA, 4500-Cl-B	05 mg/L
5	T. Hardness (as $CaCO_3$)	mg/L	115.2	APHA 2340-C	10 mg/L
6	Turbidity	N.T.U.	BDL	APHA, 2130-B	01 NTU
7	Nitrate Nitrogen (as N)	mg/L	0.36	APHA 4500-NO_3E	0.3 mg/L
8	Fluoride (as F)	mg/L	0.2	APHA 4500-F-C	0.2 mg/L
9	Faecal Coliform	MPN/100ml	<1.8	APHA 9221-E	<1.8 MPN/100ml
10	Total Coliform	MPN/100ml	<1.8	APHA 9221-A,B,C	<1.8 MPN/100ml

*BDL: Below Detection Limit, NT: Not Traceble, ND: Not Detected

Note: 1. The results relate only to the samples tested.
2. The report shall not be reproduced except in full without the written approval of the laboratory.

Prepared By:

मिलिन्द कुमार निमजे/Milind Kumar Nimje
वैज्ञानिक-'ग',लैब प्रमुख एवं सरकारी विश्लेषक
Scientist-'C' Lab Head & Government Analyst
क्षेत्रीय निदेशालय / Regional Directorate
केन्द्रीय प्रदूषण नियंत्रण बोर्ड,भोपाल (म.प्र.)
Central Pollution Control Board,Bhopal (M.P.)

Authorized Signatory:

ISO 9001: 2015

ISO 45001: 2018

EPA Recognised

END OF REPORT

Project Name		**NGT OA: 69/2025, Banswara**		**Report No.**	**Inst/FW/25-26/73**
Sample Description		**Ashok Gupta, Housing Board**		**Date of Issue**	**10.07.2025**
Date of sample collection		25.06.2025		**Requisition No.**	122
Date of sample receipt		30.06.2025		**Type of Sample**	Grab
Sample Analysis Period		30.06.2025 to 10.07.2025		**Sample Collected By**	Sh. A Tiwari, Sh. SS Kushwah
Sr. No.	**Parameter Name**	**Unit**	**Result Value**	**Method**	**Lowest Detection Limit**
1	Iron (as Fe)	mg/L	0.228	APHA 3111 B	0.005

*BDL: Below Detection Limit, NT: Not Traceble, ND: Not Detected

Note 1. The results relate only to the samples tested.
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Prepared By:

मिलिन्द कुमार निमजे/Milind Kumar Nimje
वैज्ञानिक-'ग',लैब प्रमुख एवं सरकारी विशलेषक
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Central Pollution Control Board,Bhopal (M.P.)

Authorized Signatory:

ISO 9001: 2015

ISO 45001: 2018

EPA Recognised

END OF REPORT

TEST REPORT

ULR No.: TC687225000001296F		**Test Report No:- CES/20250702A10**	
Report Issue Date : 04.07.2025			
Customer information			
Name & Address of the Customer To, **M/s Regional Director,** **Central Pollution Control Board "Paryawaran Parisar",** **E – 5, Arera Colony, Bhopal (M.P.) – 462016**		Name of Contact person : Nil Contact no.: Nil Work Order No. : LB-99/73/2023-LAB-RD-BHOPAL/13998/330-331 Date : 01.07.2025	
Sample Name: water (FW/25-26/73)			
Sampling details			
Sampling plan details:			
Sample Collected By :- Client		**Sample quantity** :	: 1 Litre
Sample Packing	: Plastic bottle	**Sample Condition:**	: Fit for Analysis
Date of Sampling	: 02.07.2025	**Date of Receipt**	: 02.07.2025
Period of testing	: 02.07.2025 to 04.07.2025		

S. No.	Test Parameters	Unit	Test method	Result Obtained
Chemical Testing				
1	Aluminium as Al	mg/L	IS:3025 P-65 ICP-MS-2022	0.17

Reviewed By:

Authorized Signatory

CES ANALYTICAL AND RESEARCH SERVICES (I) PVT. LTD. BHOPAL

NEELAM UPADHYAY
TECHNICAL MANAGER

The Results relate only to the sample tested/Sampled
Note:-The report will not valid for legal case, if Prior permission not taken from CES.

----------*End of Report*---------

Page – 1 of 1

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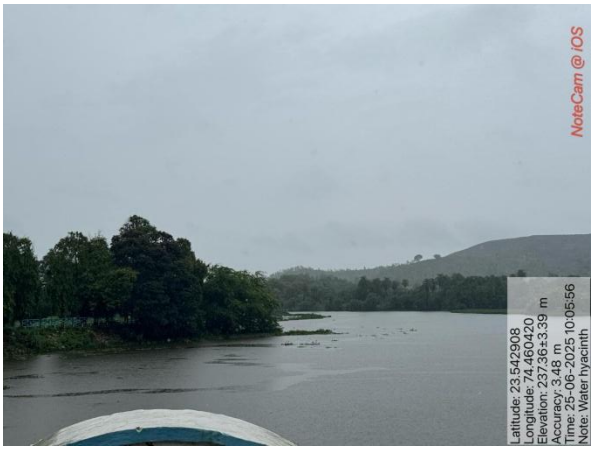
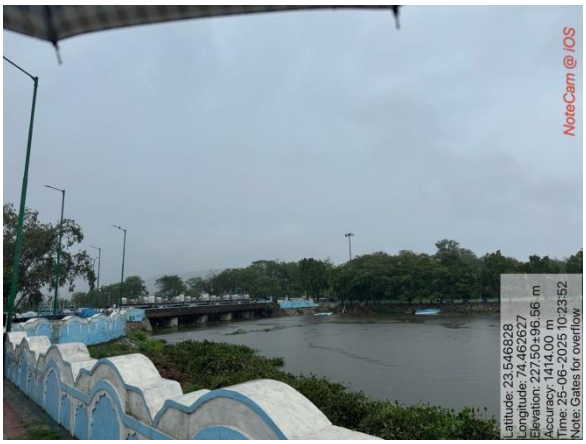
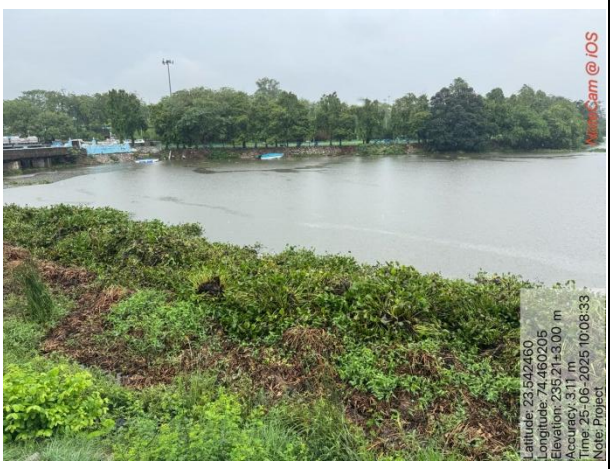
Photographs Taken During Field Visit

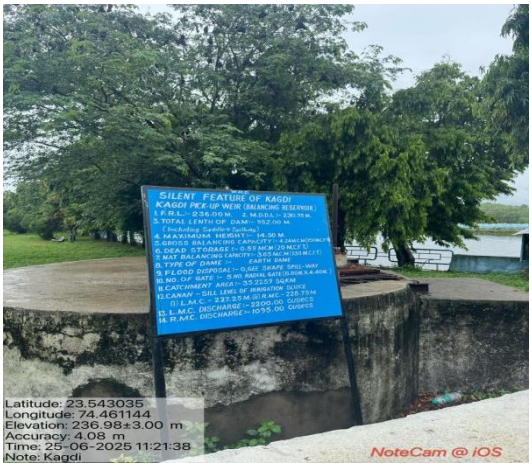




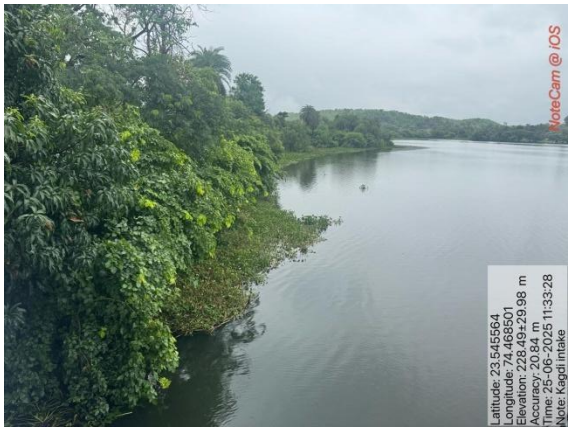
Kagdi Reservoir Weir

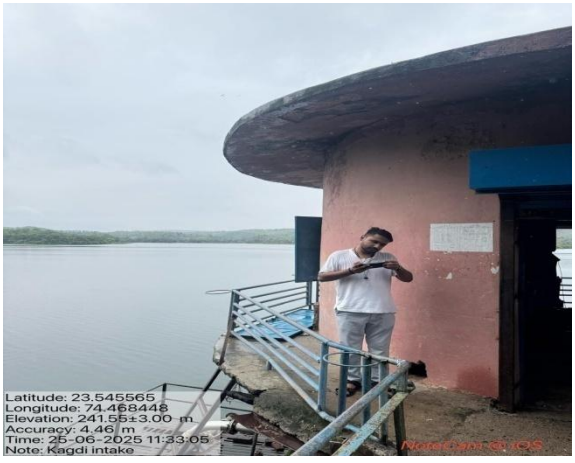


Water Hyacinth Kagdi Reservoir Weir

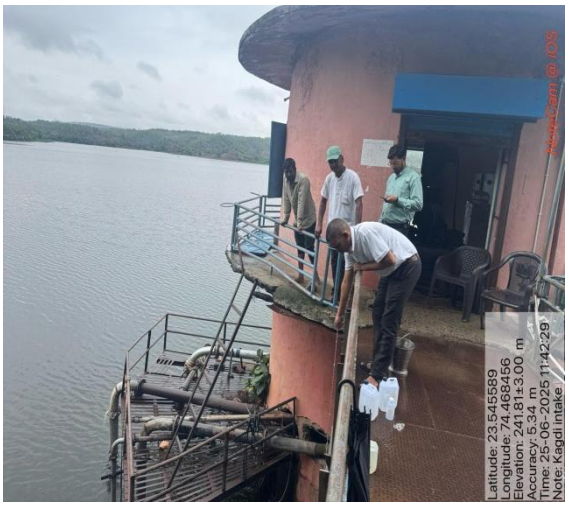


Kagdi Reservoir

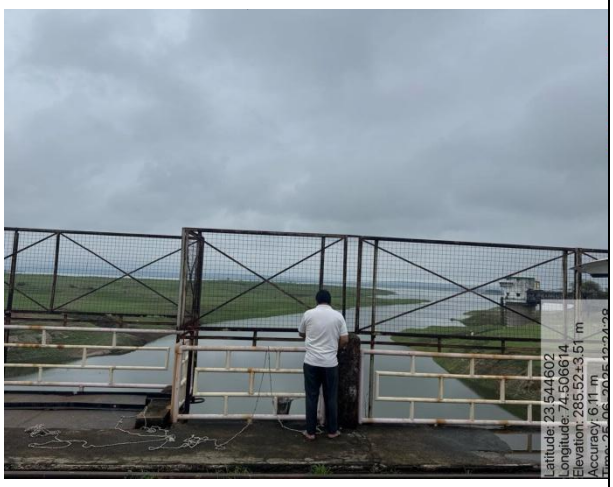




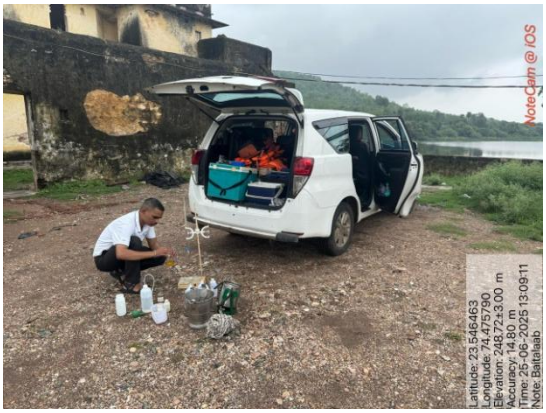
Kagdi Reservoir Intake Location

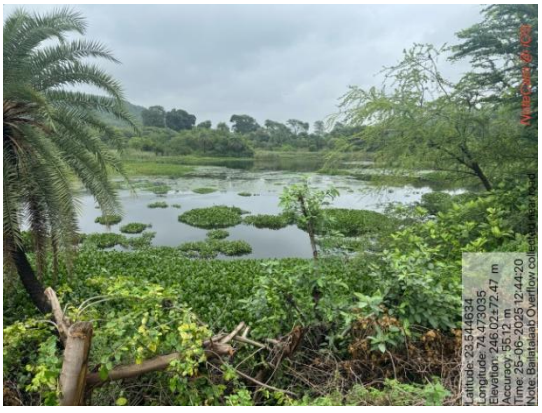


Sampling at Kagdi Intake Structure

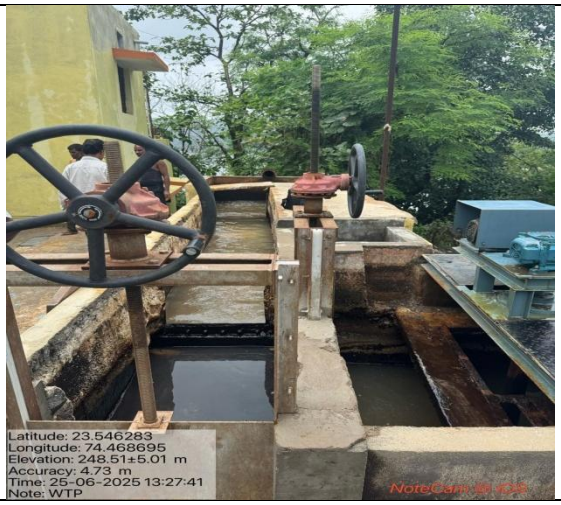


Hydro Power Project Phase-I



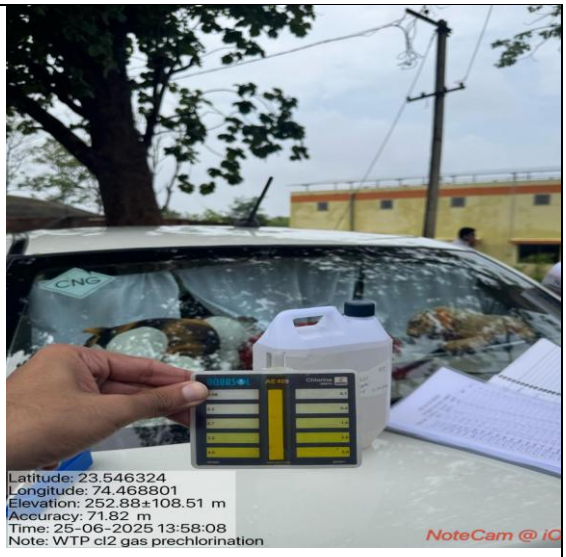


Bai Talaab & Water Hyacinth at Overflow Near Road

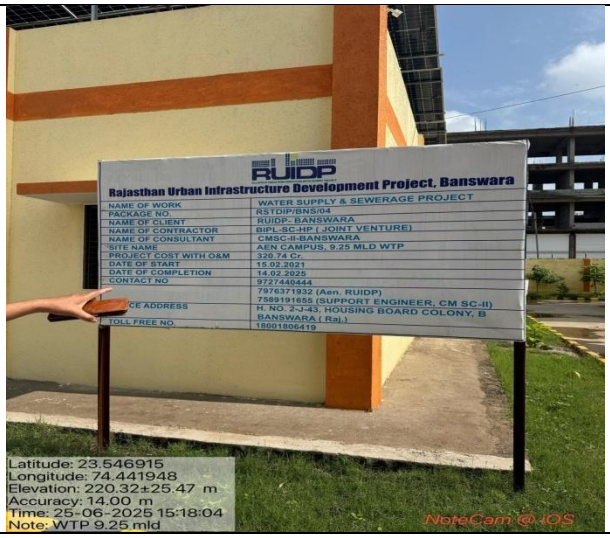


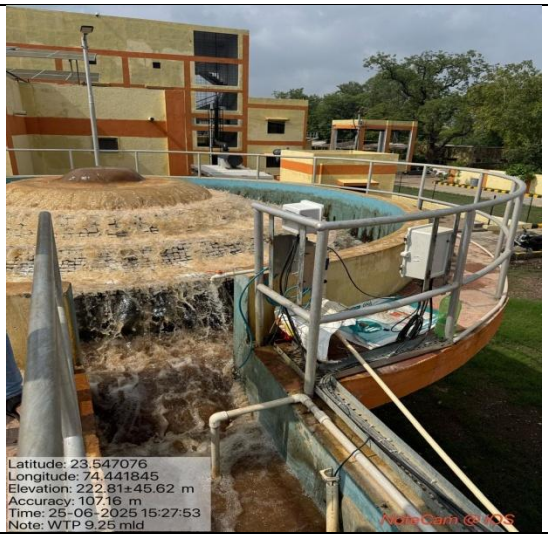
Water Treatment Plant WTP 4.54 MLD

Chlorine Tanks at WTP 4.54 MLD



Residual Chlorine Test at WTP 4.54 MLD





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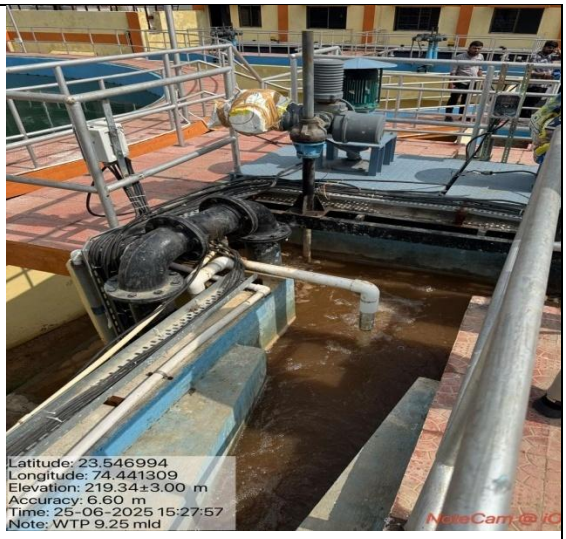

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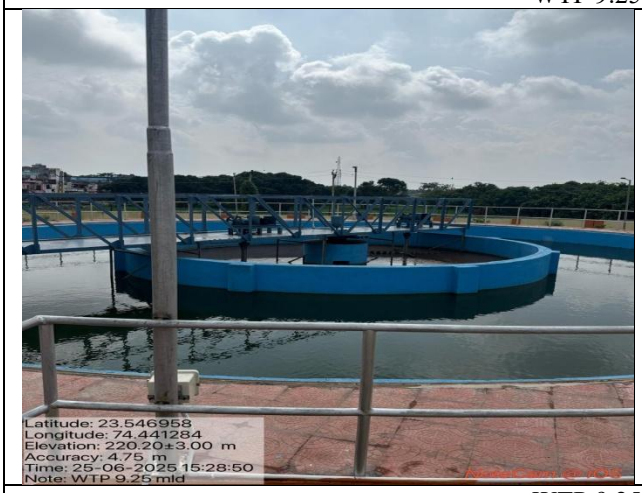

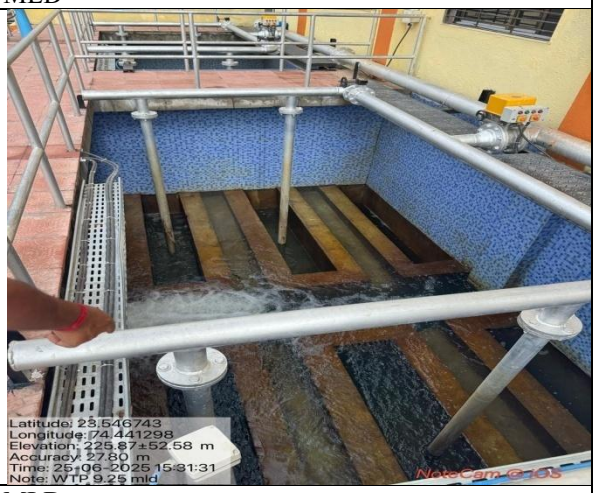

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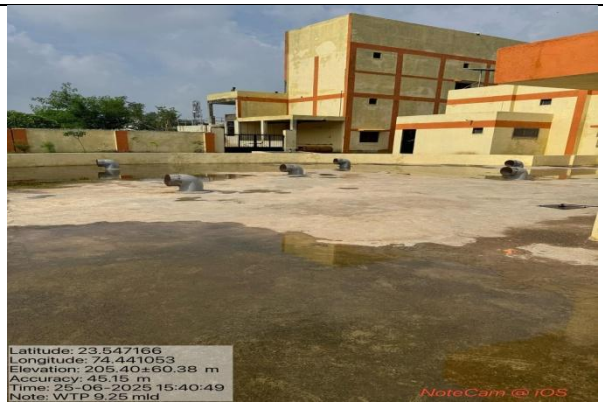

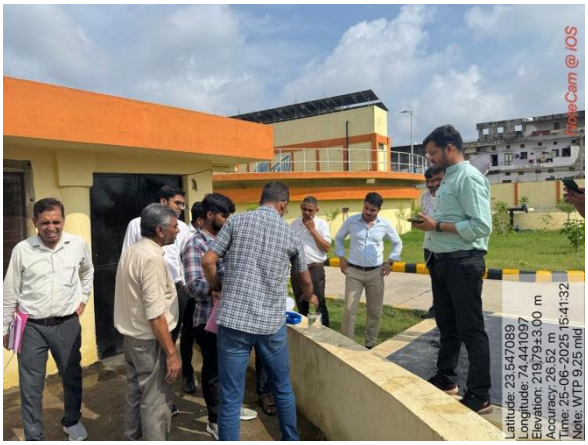

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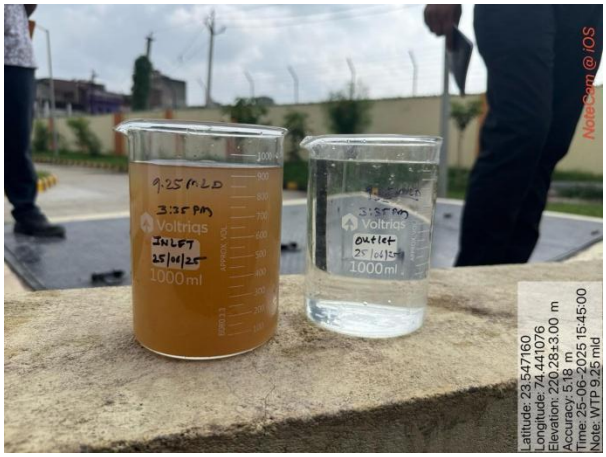
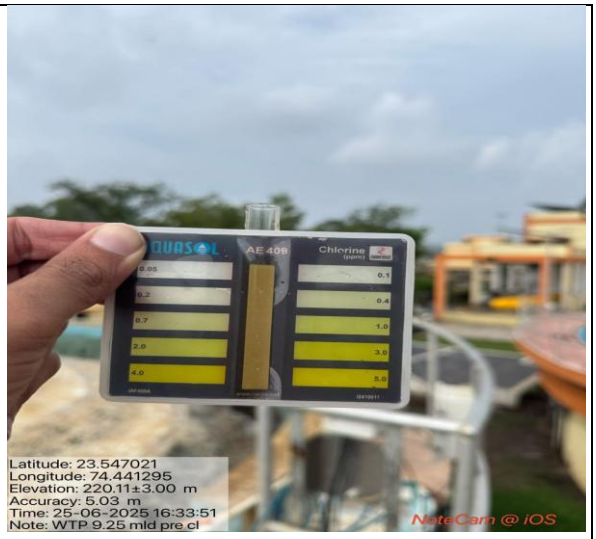
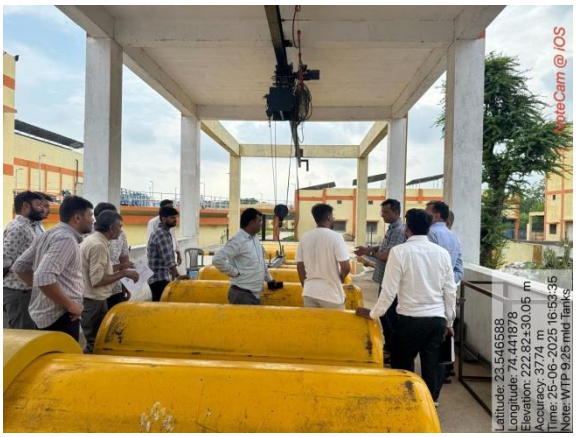
	
WTP 9.25 MLD	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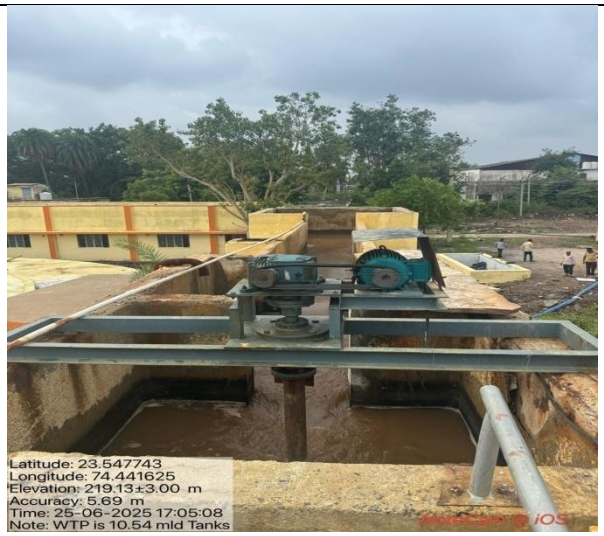

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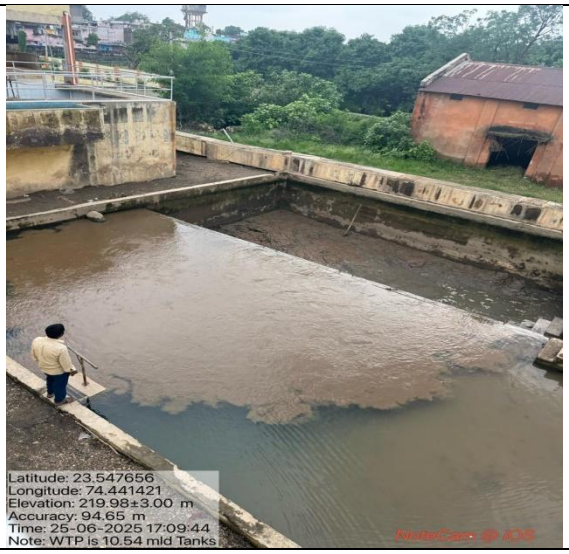

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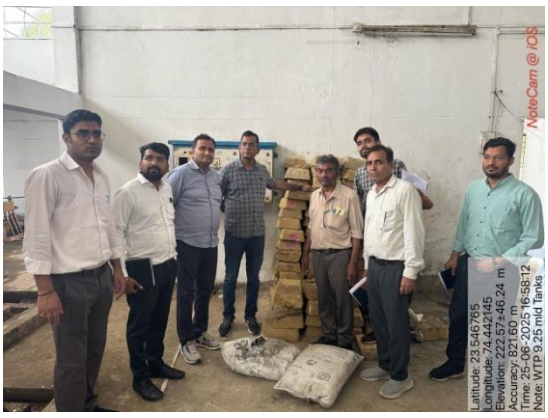

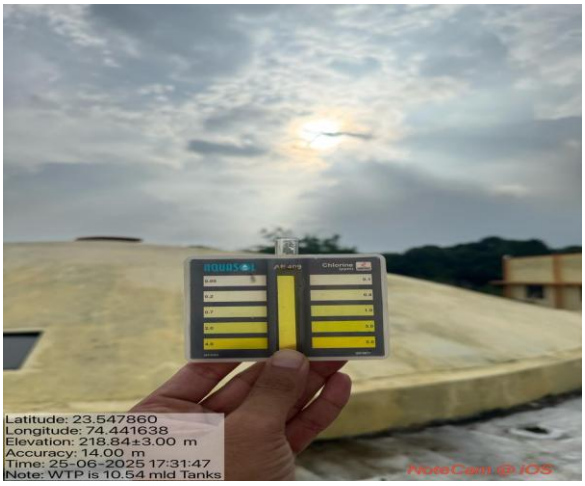

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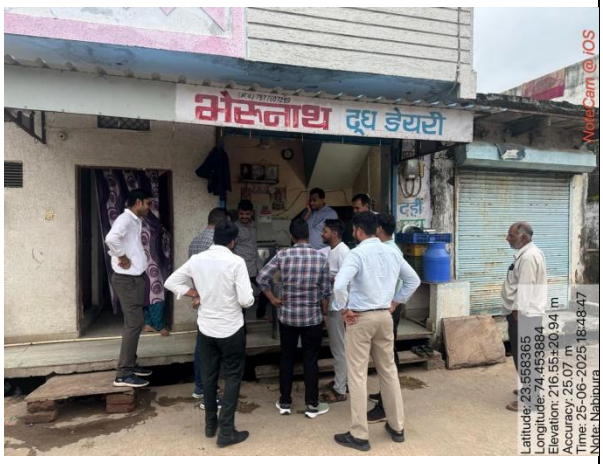
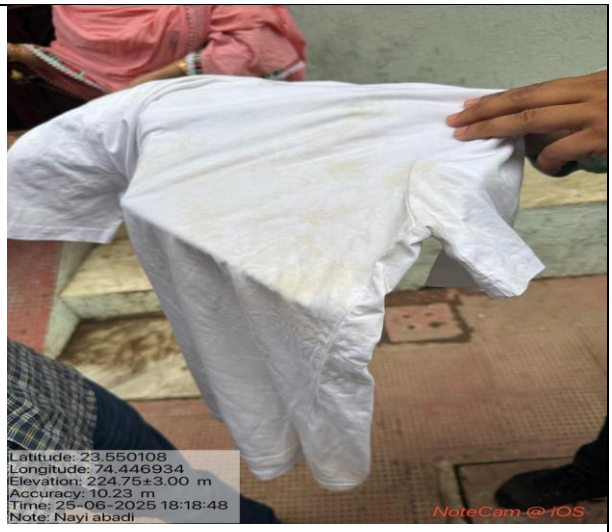
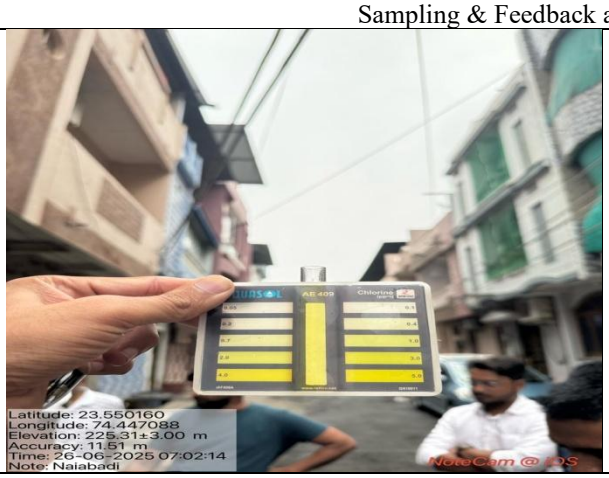
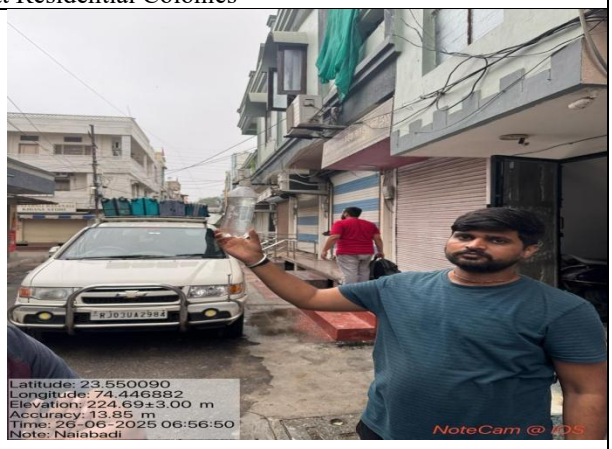




Sampling & Feedback at Residential Colonies





Sampling & Feedback at Residential Colonies

PRINCIPAL MEDICAL OFFICE, M.G. HOSPITAL BANSWARA 327001

S.NO. -: 523

Date -: 28-06-2025

Regional Director Office
Rajasthan State Pollution Control Board
Banswara

Subject -: Information on waterborne diseases in the last 3 year in compliance with HON'BLE NGT order in O.A. 69/2025 (CZ) – VIKESH MEHTA V/S State of Rajasthan & Ors.

Respected Sir,

In compliance of the above referenced matter following reports are attached with this letter. These reports do not show any outbreak in waterborne diseases in last 3 year, from June 2022 to June 2025.

PMO

MGH BANSWARA

MG HOSPITAL BANSWARA

	TEST DETAIL WIDAL AND HBS AG		
YEAR	MONTH	TOTAL WIDAL POSITIVE	HEPATITIS POSITIVE
2023	JAN	4	10
2023	FEB	3	6
2023	MARCH	13	21
2023	APRIL	11	19
2023	MAY	3	12
2023	JUN	13	10
2023	JULY	13	11
2023	AUG	16	10
2023	SEP	19	16
2023	OCT	48	25
2023	NOV	46	21
2023	DEC	34	25
YEAR	MONTH	TOTAL WIDAL POSITIVE	HEPATITIS POSITIVE
2024	JAN	16	8
2024	FEB	26	35
2024	MARCH	22	21
2024	APRIL	16	29
2024	MAY	16	43
2024	JUN	5	25
2024	JULY	13	36
2024	AUG	4	22
2024	SEP	4	35
2024	OCT	12	34
2024	NOV	12	22
2024	DEC	6	32
YEAR	MONTH	TOTAL WIDAL POSITIVE	HEPATITIS POSITIVE
2025	JAN	2	46
2025	FEB	7	21
2025	MARCH	6	36
2025	APRIL	0	39
2025	MAY	2	30

DR. DEEPA KATARA
J.S. MEDICINE
Govt.M.G. Hospital, Banswara
RMC-29832/21659,M.7014041197

	ACUTE DIARRHEA				ACUTE DIARRHEA	
YEAR	OPD	IPD		YEAR	OPD	IPD
Jan-22	62	46		Jan-23	109	87
Feb-22	78	59		Feb-23	181	100
Mar-22	102	92		Mar-23	201	103
Apr-22	79	68		Apr-23	85	73
May-22	87	77		May-23	92	76
Jun-22	101	69		Jun-23	78	55
Jul-22	106	114		Jul-23	187	137
Aug-22	176	159		Aug-23	171	127
Sep-22	201	119		Sep-23	98	84
Oct-22	164	84		Oct-23	123	70
Nov-22	64	53		Nov-23	63	48
Dec-22	72	54		Dec-23	93	61
	ACUTE DIARRHEA				ACUTE DIARRHEA	
YEAR	OPD	IPD		YEAR	OPD	IPD
Jan-24	65	51		Jan-25	102	54
Feb-24	82	71		Feb-25	147	88
Mar-24	191	116		Mar-25	192	94
Apr-24	201	119		Apr-25	457	110
May-24	178	109		May-25	176	85
Jun-24	142	90				
Jul-24	171	165				
Aug-24	291	230				
Sep-24	192	140				
Oct-24	489	47				
Nov-24	82	64				
Dec-24	62	55				

DR. DEEPA KAYARA
J.S. MEDICINE
Govt.M.G. Hospital, Banswara
RMC-29932/21659,M.7014041197

MG HOSPITAL BANSWARA				
YEAR	MONTH	ENTRIC FEVER		HEPATITIS POSITIVE
2022		OPD WIDAL POSITIVE	IPD	
2022	JAN	3	0	12
2022	FEB	2	0	11
2022	MARCH	3	0	17
2022	APRIL	8	2	21
2022	MAY	14	10	19
2022	JUN	13	11	26
2022	JULY	27	20	28
2022	AUGUST	32	24	34
2022	SEPTEMBER	37	31	36
2022	OCTOBER	19	15	31
2022	NOVMBER	4	0	39
2022	DECEMBER	2	0	37

MG HOSPITAL BANSWARA				
YEAR	MONTH	ENTRIC FEVER		HEPATITIS POSITIVE
2023		OPD WIDAL POSITIVE	IPD	
2023	JAN	4	0	12
2023	FEB	3	0	11
2023	MARCH	13	0	17
2023	APRIL	11	3	21
2023	MAY	3	2	19
2023	JUN	13	9	26
2023	JULY	13	28	28
2023	AUGUST	16	32	34
2023	SEPTEMBER	19	11	36
2023	OCTOBER	48	6	31
2023	NOVMBER	46	0	39
2023	DECEMBER	34	0	37

MG HOPSITAL BANSWARA				
YEAR	MONTH	ENTRIC FEVER		HEPATITIS POSITIVE
2024		OPD WIDAL POSITIVE	IPD	
2024	JAN	16	0	12
2024	FEB	26	0	11
2024	MARCH	22	0	17
2024	APRIL	16	0	21
2024	MAY	16	0	19
2024	JUN	5	0	26
2024	JULY	13	0	28
2024	AUGUST	4	1	34
2024	SEPTEMBER	4	14	36
2024	OCTOBER	12	15	31
2024	NOVMBER	12	0	39
2024	DECEMBER	6	0	37

MG HOSPITAL BANSWARA				
YEAR	MONTH	ENTRIC FEVER		HEPATITIS POSITIVE
2025		OPD WIDAL POSITIVE	IPD	
2025	JAN	2	0	46
2025	FEB	7	0	21
2025	MARCH	6	2	36
2025	APRIL	0	1	39
2025	MAY	0	1	30

DR. DEEPA KATARA
J.S. MEDICINE
Govt.M.G. Hospital, Banswara
RMC-29832/216[illegible] M 7014041197