

Supplementary Report

to

First Report of the Vishwamitri Committee

(Constituted by the Hon'ble Gujarat State Human Rights Commission)

In the Matter of

HRC/2024/PRESS/205/Vadodara City/legal-1

5 June 2025

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Report

During the hearing on 26.05.2025, it was mentioned by Hon'ble Chairperson of the commission that the order based on the submission of the "First Report of the Vishwamitri Committee" and submissions by the concerned authorities will be pronounced on 09.06.2025. It was suggested that this committee can submit its supplementary report by 05.06.2025.

The table below shows the information requested and received from concerned authorities.

Table 1: Information Requested and Received from Concerned Authorities

Sr. No.	Information Requested	Information Received
1	Drone survey of Vishwamitri River outfalls from GPCB, September 2024.	Received from GPCB Annexure II (Relevant Pages)
2	Relevant documents pertaining to the Vishwamitri River in connection with ongoing construction activities under NHRCL Project (Bullet Train) in the floodplains.	Received from NHRCL Annexure III (Relevant Pages)
3	Drone survey of Vishwamitri River outfalls from VMC, May 2025.	Received from VMC Annexure IV (Relevant images)

4	Detail action plan for plantation from Forest Department.	Pending
5	Log book of rescue events and other observations related to wildlife activities from Zoo Authorities.	Pending
6	Drone survey (before & during) of the desilting works at the reservoirs of Ajwa, Pratapura and new detention pond at Dena village.	Pending

The table below logs the course of events which have been elaborated upon later as Annexure I.

Table 2: Site Visits and Meetings

Sr. No.	Date	Events	Particulars
1	28.05.2025	Site Visit with VMC officials	Works of Eastern Banks
2	02.06.2025	Site Visit with VMC officials	Ajwa, Pratapnagar Reservoir, new detention pond at Dena village
3	03.06.2025	Site Visit with VMC officials	Ongoing Coir work at Sama area opposite Siddharth Bungalows and behind Amdedkar Bhawan, Vadodara
4	03.06.2025	Meeting with VMC officials	At VMC offices

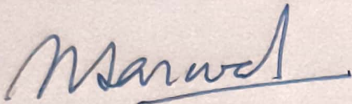
Observations and Recommendation

The following are the observation and suggestions of this committee:

1. Information has been received from the NHRCL as discussed in Table 1 above.
2. However, no action plan or progress report has been received from the NHAH that was requested by this committee.
3. Debris at many locations are still persistent and have not been removed prior to bank stabilization works.
4. It has been suggested that the stretches on the eastern banks that have healthy vegetation and no traces of debris, should not be disturbed.
5. Coir works have been implemented on depositional banks instead of erosional banks. It is the erosional banks with steep slopes that need immediate attention and should be prioritised for stabilization.
6. It is recommended that the plantation of vetiver grass be spaced at 3' intervals.
7. Systematic de-weeding of invasive species and plantation of native species should be carried out.
8. Native trees should be planted at upper banks across the watershed based on the suggestion of this committee.
9. The emergent and floating vegetation is important for the crocodile hatchlings. This vegetation should not be removed.
10. Emergent islands as a result of ongoing works at many locations are rich in biodiversity and habitats; they should be retained as mini-islands with the use of ecological engineering means.
11. Eco engineering (coco logs) works at toe areas of the bank, prone to scouring, should be installed at erosional banks. However, locations where wild life dens exist should not be disturbed.
12. Removal of debris should be prioritised at all locations beyond the "banks" of the River.

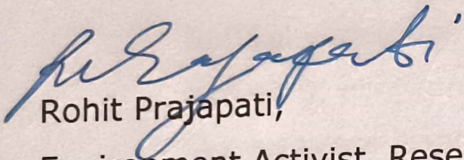
13. A C&D waste processing plant with adequate facilities and capacity should be installed at the earliest.
14. All existing structures, temporary and permanent, within the floodplains should be duly mapped and share with this committee.

The site visits of the ongoing works are in progress and are planned. This committee will submit subsequent reports with the progression of work.



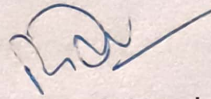
Neha Sarwate,

Environmental and Urban Planner



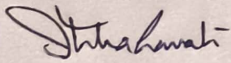
Rohit Prajapati,

Environment Activist, Researcher,
and Writer



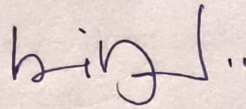
Dr. Ranjitsinh Devkar, PhD,

Zoologist



Dr. Jitendra Gavali, PhD,

Botanist



Mitesh Panchal, Architect and

Urban Planner

Annexure I: Site Visits and Meetings

28.05.2025: Site Visit with VMC on Eastern Banks

Location: Mangal Panday Bridge, Zoo, Kalaghoda, Palace Ground, Akota
Bullet train junction

Time: 8:30 am

Attendee:

Rohit Prajapati
Jitendra Gavali
Mitesh Panchal

Discussions:

1. Natural vegetation has sprouted at many locations along the river including pilot project coir work near Mangal Pandey Bridge. Vetiver grass planted by the agency has not sprouted.
2. It has been observed that many invasive species have naturally sprouted post rain event that will need to be removed manually and plantation of native species to be done under the guidance of experts / botanist / Forest Department.
3. Behind the Zoo, few trees are now in the middle of the river as VMC removes silt from the zoo side bank. It is recommended that these be converted into mini islands with the use of ecological engineering means.
4. It is recommended that tree plantation work be carried out at the earliest at the upper banks of the river in the Kamati Baug-zoo area.
5. A systematic framework for bank stabilization and simultaneous plantation needs to be established.
6. At the confluence Bahucharaji and Bhukhi kaans with the Vishwamitri River needs immediate attention to prevent potential erosion.

7. Any constructions that were carried out to facilitate the movement of the vehicles for the said desilting works should be removed and at least status quo (topography & levels) should be restored.
8. In general, the debris and silt deposited between the pillars of the bridges need to be removed. For example, pillars marked in the image at Akota-Danidia bazar bridge.
9. Dumping of fresh debris and municipal solid waste is still continuing and needs to be checked earliest.
10. This committee was informed that the eastern banks of the Akota area work will start shortly.
11. The junction between the River and Bullet Train at Akota needs to be restored appropriately; remove cement debris / pipes visible in image from river banks.







22.3083806 73.1895367
Anandpura, Vadodara, Gujarat









02.06.2025: Site Visit with VMC officials at Ajwa, Pratapnagar Reservoir, detention pond at Dena Village.

Location: Ajwa, Pratapnagar Reservoir, Dena

Time: 8:30 am

Attendee:

Neha Sarwate
Rohit Prajapati
Jitendra Gavali
Mitesh Panchal
Krishnakant Chauhan

Observations & Discussions:

1. The spillway work at Ajwa dam mentioned in the Mr. Navalawala High Level Committee report, page no 47-48, point 4.1.2, has not yet begun. The said work was supposed to be completed before the onset of monsoon of 2025. Screenshot is attached herewith.
2. As informed to us by the officials, it is manually not possible to divert the water at Ajwa reservoir below 211' above MSL.
3. It was informed by VMC officials that desilting work at two locations of Ajwa reservoir are at 30% of the estimated workload.
4. It was informed by VMC officials that desilting at Pratapura reservoir is reported to be twice the existing caring capacity of approx. 5 Lac cubic meters.
5. Desilting work at Dena village in the ravines of Surya river will result in an additional detention pond.
6. Drone survey (before & during) of the desilting works at the reservoirs of Ajwa, Pratapura and new detention pond at Dena village has been requested.
7. Map showing spatial extent of showing desilting works at Ajwa and Pratapura reservoirs has been shared with this committee.

8. Desilting work on the eastern banks along the river in the city area, is being conducted in an adhoc and haphazard manner, between Sama & Mungal Pande Bridge.
9. Desilting work at New Sama Bridge, North western bank of the river has not been conducted at certain patches.
10. Desilting work at South Western bank at New Sama Bridge, needs to be carried out till gabion wall.
11. It has been observed that the desilting work at many locations has created very steep slopes that need to be addressed at the earliest.



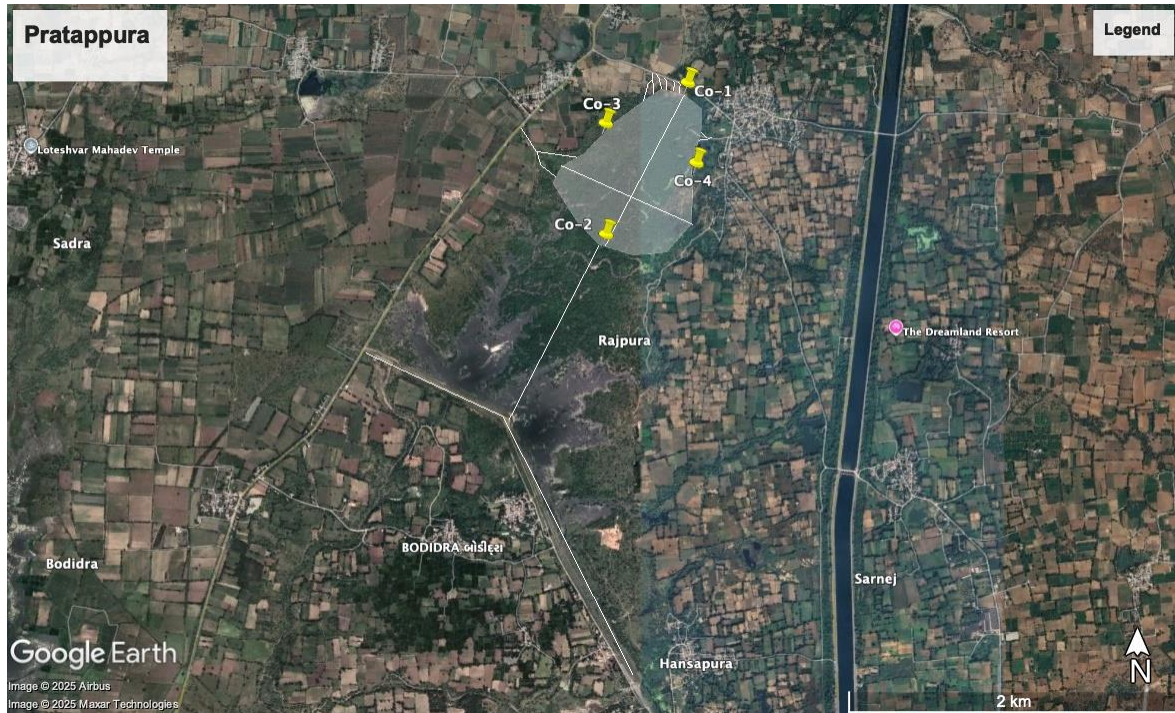


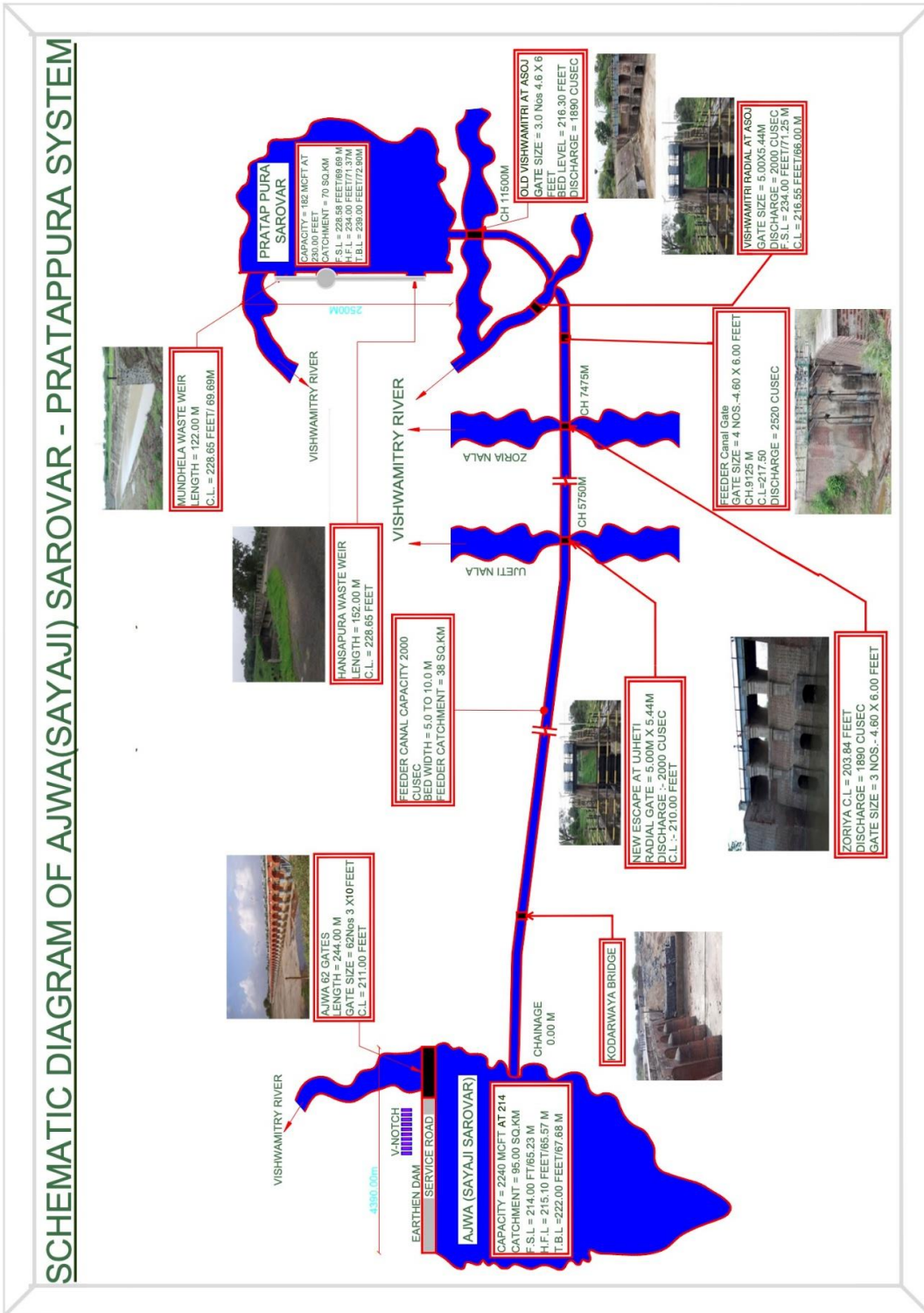












2024, 11-10-2024 & 26-11-2024. Lot of brainstorming took place in the meeting and it was decided to take short term and long term measures to mitigate the effect of Vishwamitri Flood in Vadodara city and its surrounding area under VUDA. Further, on the basis of interactive meetings with the prominent citizens and experts' opinion, (CWC, New Delhi and State Water Resources Department), available documents, data / maps, the consultant SECON's reports, original photographs / videos etc. the following recommendations are made by the Committee. In this context the Committee would also like to recommend that while taking into account the present limitations of the VMC and looking at the vastness of the works it's imperative that Government may like to examine technical and execution capabilities of government agencies/government departments/Municipal corporation and finalise execution agency accordingly, as though fit for the Execution of various works & measures recommended by the committee for efficient flood management in vadodara city.

4.1 Short Term Measures - Works to be accomplished before onset of monsoon 2025. (Rs. 1150 Crore)

4.1.1 Vishwamitri river channel modification / re-sectioning in Vadodara city having about 23.7 km length. It will help to enhance the discharge carrying capacity up to 1100 cumec and there is also requirement of river channel modification / re-sectioning in downstream of the city in total 24 km length from city end to the Pingalwada junction (junction of Vishwamitri & Dhadhar River).
(Action To Be Taken by VMC In City Area And VIC, WRD-GOG In Outside City Limit)

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4.1.2 For Ajwa Lake, the construction of additional spillway (with vertical gates) just downstream of the existing waste weir with reduction in crest level from 211' to 206' is recommended. Instead of option 3 and 4 mentioned above, this option is advisable as there is sufficient space to construct barrage downstream of waste weir with 25 gates of 26' (W) x 8' (H) size to discharge about 24000 cusec with total length as 240.78 m (790 ft.). Also there is an embankment downstream of the barrage location (height 222'). Therefore no need to construct additional embankments. (Work to be started in the working season 2024-25. (Action to be taken by : Design and drawing By Resources Person-Committee, Approval and issued by Design office SSNNL and Execution by VIC-WRD, GOG)

4.1.3 Dredging along the periphery of both Ajwa and Pratappura Sarovar when level dwindles in summer is recommended. (Action to be taken by VMC)

4.1.4 Storage capacity of Pratappura reservoir can be enhanced by introduction of gates in both the un-gated waste weir. Further dredging shall be done in the periphery of the reservoir during summer. (Action to be taken by VIC-WRD, GOG)

4.1.5 Construction of new buffer / pond and storage near Kotambi Village and near Bhaniyara where depression has been observed on Google map having Govt. land. This will store 2.65 + 3.3 = 5.95 MCM of water. (Action to be Taken by VUDA, VMC)

4.1.6 Increase capacity of Dhanora, Vadodara and Haripura tanks. This will store @ 11.1 MCM of water. (Action to be taken by VIC-WRD, GOG)

4.1.7 Straightening the meandering of Vishwamitri at some places where Govt. land is available. In this portion crocodiles can be rehabilitated temporarily. (Action

03.06.2025: Site Visit with VMC officials at Sama area opposite Siddharth Bungalows and behind Ambedkar Bhawan, Vadodara

Location: Sama opposite Siddharth Bungalows, Narhari Bridge behind Ambedkar Bhawan

Time: 11:00 am

Attendee:

Neha Sarwate
Rohit Prajapati
Dr. Ranjitsinh Devkar
Mitesh Panchal

Observations & Discussions:

1. Bank stabilization efforts have been conducted without removal of C&D waste and Municipal solid waste. This will deter the river rejuvenation efforts as the pollution will negatively impact the soil health and hence the river ecosystem.
2. The method of installation of coir work looks reasonable acceptable. However, location of works near Siddharth Bungalows and behind Ambedkar Bhawan are both deposition banks.
3. Bank stabilization interventions should be carried out at erosional banks as a priority.
4. Vegetation along the Siddharth Bungalows compound wall should not be disturbed. Even at locations like Mujmahuda bridge eastern bank next to dental collage should not have been disturbed.
5. The emergent and floating vegetation, is imperative for the newly hatched crocodile young ones. This vegetation should not be removed.
6. Historical locations of the crocodile dens should be preserved. The vegetation on either side of the dens stretching to at least twenty to fifty meters should be left undisturbed.

7. Information on organisms rescued dead or alive should be provided.
8. Update on the eggs rescued and shifted for artificial incubation should be provided.
9. A road map of the rehabilitation program for rescued organisms and hatchlings should be made and shared.
10. Vetiver grass need to be planted at 3' distance, so that other natural vegetation take place.







03.06.2025: Meeting with VMC, Bullet Train, Irrigation Department, Forest Department officials

Location: VMC Office, Khanderao Market

Time: 3:00 pm

Attendee:

Neha Sarwate
Rohit Prajapati
Dr. Ranjitsinh Devkar
Mitesh Panchal
Krishnakant Chauhan

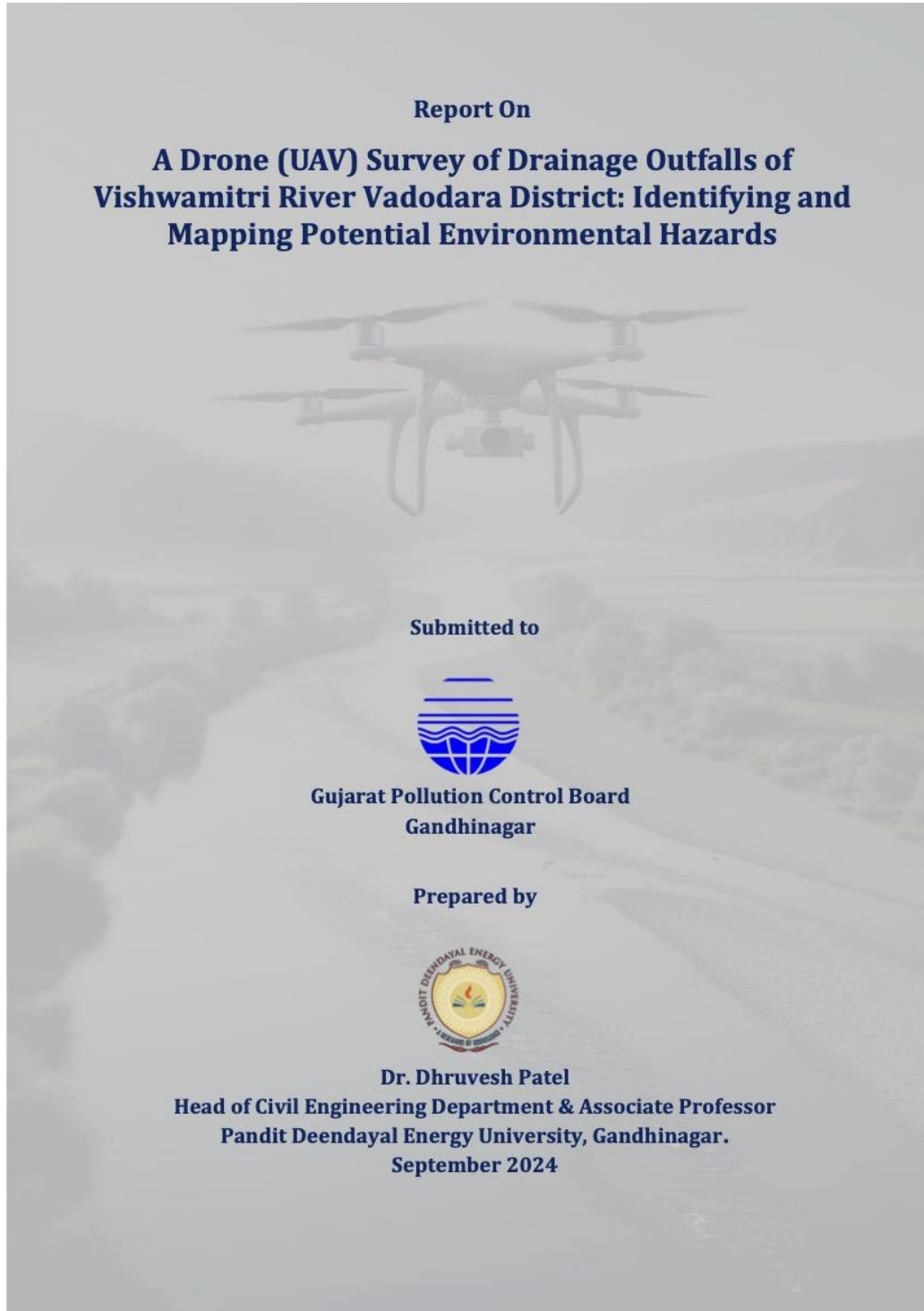
Discussions:

1. Bullet Train team have submitted requested report. This committee has received that same on 03.06.2025.
2. Bullet Train officials informed that they have removed some temporary obstructions in the river. The remaining removal of obstacles will be completed latest by 15.06.2025 or earlier in case of a rain event.
3. The desilting and bank stabilization works that were unable to be completed by the VMC and Irrigation Departments in their respective sections due to ongoing work of the Bullet Train, will be under taken by NHSRCL. The images of completed work will be shared.
4. It was reported by the Irrigation Department that out of their stretches of six packages, most of the work has been completed and certain stretches of two packages are in progress.
5. They also informed that the Irrigation Department are not in a position to apply eco engineering to stabilize the banks. Subsequent visit by this committee to the downstream stretches is to be planned.
6. The VMC have reported that they have conducted drone survey to identify sewage and storm water outfalls. They have identified 38

such outfalls along the 24 KM stretch of the Vishwamitri river in the VMC boundaries. Outfalls in tributaries have not been identified.

7. It has been agreed upon that the naturally activated meanders and stormwater ways will not be disturbed.
8. Officials from Forest Department and Zoo have reported that the wildlife volunteers have been rescued and relocated in the zoo. Likewise, the rescued eggs of turtles and crocodiles have also been shifted to the zoo and are under incubation. A log book for the same have been maintained by zoo. The information will be shared with the committee.

Annexure II: Drainage Outfalls Report by GPCB



4. Findings

The UAV reconnaissance along the Vishwamitri River in Vadodara yielded vital data on the occurrence and spatial distribution of drainage outfalls. Utilizing high-resolution imagery and advanced analysis software, the survey successfully identified a total of 51 Outfall and 13 lifting points in the river system. These outfalls were unevenly distributed between the riverbanks, with 33 on the left and 26 on the right including drainage outfall and lift irrigation points. The survey noted that these outfalls were dispersed among several nearby villages, with specific counts being Atladra (10), Kalali (08), Khalipur (11), Maneja (08), Manjalpur (01), Maretha (08), Talsat (10), and Vadsar (8) as detailed in Table 1.

Upon closer examination, the outfalls exhibited a range of structural characteristics. The diameters of these outfall pipes varied considerably. Additionally, there was a significant variation in the Reducing Levels (R.L.) of these outfalls, with the highest R.L. observed at 32m in Manjalpur village, and the lowest at 17m in Khalipur village from mean sea level (MSL).



Figure 4: Summary of Outfall V_01

The study further categorized the outfalls into four distinct types: circular pipes, rectangular shapes, trapezoidal, and irregular drainages.

Furthermore, the study provided detailed insights into specific outfalls. For instance, one figure illustrates a minor outlet contributing to an outfall. Similar detailed information for all 51 Outfall and 13 lifting points is comprehensively presented in table 1, facilitating thorough understanding

and analysis.

The effectiveness of the drone survey was not limited to the detection of the outfalls; it also proved instrumental in estimating their dimensional properties. This information is expected to be a key factor in informing future environmental and infrastructural decision-making processes.

5. Discussion

The problem of environmental deterioration brought on by the disposal of sewer waste is highlighted by the findings of the drone study conducted in the Vishwamitri River region. The numerous outfalls found along the Vishwamitri river segment serve as a stark reminder of the widespread pollution in this area. It was observed that the highest number of outfalls are situated in the villages of Khalipur and Atladra. This could potentially be linked to the larger presence municipal areas, thus resulting in a higher production of sewer waste.

In addition, the differences in R.L., kind, and size of the outfalls at various sites give us important information about the various approaches and procedures used in garbage disposal. For example, the existence of four distinct kinds of outfalls circular pipes, rectangular drainage systems, trapezoidal drainage systems, and irregular drainage systems indicates that there aren't any set procedures for disposing of sewer water and garbage. Furthermore, the presence of drainage pipes up to one meter in diameter may be a sign of significant waste outflow. It is also important to note the significant differences in flow depth that are observed throughout the day. This may be a sign of time-dependent waste disposal procedures, perhaps connected to municipal area. The notable variations in flow depths also point to a fluctuating amount of rubbish being dumped into the river.

The local environment is directly threatened by these garbage disposal practices because of the geological and hydrological aspects of the area. Because of the region's rich agricultural environment, permanent water availability, and fertile alluvial soils, sewer from municipal waste may have a negative effect on local agriculture and water quality

Overall, our results highlight how urgently efficient methods for tracking and regulating the release of sewer waste are needed. This entails the creation of uniform procedures for disposing of garbage, vigilant oversight of disposal sites, and robust enforcement of laws against unlawful outfalls. In addition, campaigns should be launched to increase public knowledge of the harm that sewer waste does to the surrounding ecosystem and public health. The thorough data obtained from this investigation provide a solid basis for guiding these tactics and choices.

6. Recommendations

Based on the findings of this study, we propose the following recommendations:

- 1. Standardize Waste Disposal Practices:** It is imperative that all local firms standardize their waste disposal practices due to the variety of outfalls that the investigation found. Strict rules for disposing of rubbish should be established by the Gujarat Pollution Control Board and local government entities. These rules should specifically address the kinds of waste outlets that are used and when they are open.
- 2. Regular Monitoring:** It is necessary to set up a routine monitoring system to make sure that trash disposal laws are followed. This study's use of drone technology suggests that it may be useful for monitoring the area and tracking unauthorized outfalls.
- 3. Severe Penalties for Non-Compliance:** Strict penalties ought to be implemented in order to discourage municipality from dumping of their sewer and waste unlawfully. For repeat offenders, this may entail severe fines, brief closures, or even permanent closures.
- 4. Waste Treatment:** Establishing waste treatment plants on their property should be promoted, if not required, by the government. By doing this, the number of pollutants released into the Vishwamitri would be greatly decreased.
- 5. Public Awareness and Education:** Involving the local community in these initiatives is essential. To inform the community about the detrimental impacts of sewer waste on the environment and human health, public awareness campaigns ought to be launched. Additionally, the community should be urged to report any unlawful garbage discharge operations.
- 6. Collaboration with Industrial Units:** Establishing regular communication channels with the municipal units is necessary to find workable solutions to this issue. This will guarantee that the suggested solutions are workable and meet the municipal sewer water operating needs.
- 7. Sustainability Planning:** Taking into account the possible effects of climate change and the rise in irrigation lifting activity in the area, a long-term sustainability strategy needs to be created. Achieving a balance between municipal area growth and environmental conservation should be the main goal of this plan.

8. Water Quality Monitoring: Regular monitoring of the Vishwamitri water quality is necessary to evaluate the effectiveness of these interventions. This can assist in monitoring the execution of strategies and policies and making necessary revisions.

If these suggestions are successfully put into practice, they may considerably lessen the detrimental effects that municipal waste has on the Vishwamitri, protecting the local ecology and guaranteeing the safety and well-being of the local populace.

7. Conclusion

An intriguing exercise that has yielded extensive observations on the current state of environmental health in the region is the drone assessment of the Vishwamitri River. The research has exposed a concerning trend of unregulated trash disposal by several municipal west establishments situated throughout the Khari region. The local population's health and way of life are negatively impacted by this disrespect for environmental standards, which also poses major risks to the ecosystem in the area. In conclusion, this report underscores the urgent need to address two critical environmental violations: the discharge of sewer water 51 outfalls into the river by nearby municipal area, and the unauthorized use of this contaminated water 13 irrigation points for irrigation. The resultant vegetables, tainted by the sewer water, pose severe health risks to consumers. It is imperative to enforce a ban on the use of such sewer water for irrigation and to implement strict penalties for those caught engaging in these illegal activities, including nearby farms and farmers.

The study's findings, in particular the identification of 51 outfalls and 13 lift irrigation points, the details of their sizes, kinds, and locations, provide a crucial foundation for upcoming decision-making procedures. Drone technology has also shown to be a very successful tool for doing these kinds of surveys, particularly in remote locations where it provides precise, high-resolution data that would be otherwise hard to obtain. But recognizing the issue and carrying out this study are just the first steps. Putting this knowledge to use is what will determine whether or not our project succeeds. The local government, the Gujarat Pollution Control Board, the local municipality themselves, and the local populace must work together to effectively tackle the issue at hand. We think it is possible to stop this environmental deterioration and work toward the Vishwamitri and the surrounding ecosystem's restoration by putting the recommendations from this study into practice.

In the end, it's critical to realize that the problem at hand is a worldwide environmental disaster that transcends the geographic boundaries of Vishwamitri River. The knowledge gained from this research and the subsequent steps we take can be a useful template for dealing with comparable environmental issues worldwide.

8. Acknowledgments

We extend our sincere gratitude to the Gujarat Pollution Control Board (GPCB) for entrusting this important project to us and for their invaluable guidance throughout its duration, in conjunction with the indispensable support of the GPCB regional office in Vadodara. Our heartfelt appreciation goes to the Pandit Deendayal Energy University (PDEU) for equipping us with the requisite advanced drone system and computing facilities that were essential to the successful execution and processing of the survey data. The dedication, expertise, and hard work of our research team are also commendably acknowledged for their substantial role in achieving our objectives. This project epitomizes the significance of collective efforts for environmental conservation, and we dedicate our results to the restoration of the Vishwamitri River ecosystem.

9. Appendices

GSHRC Vishwamitri Committee Supplementary Report

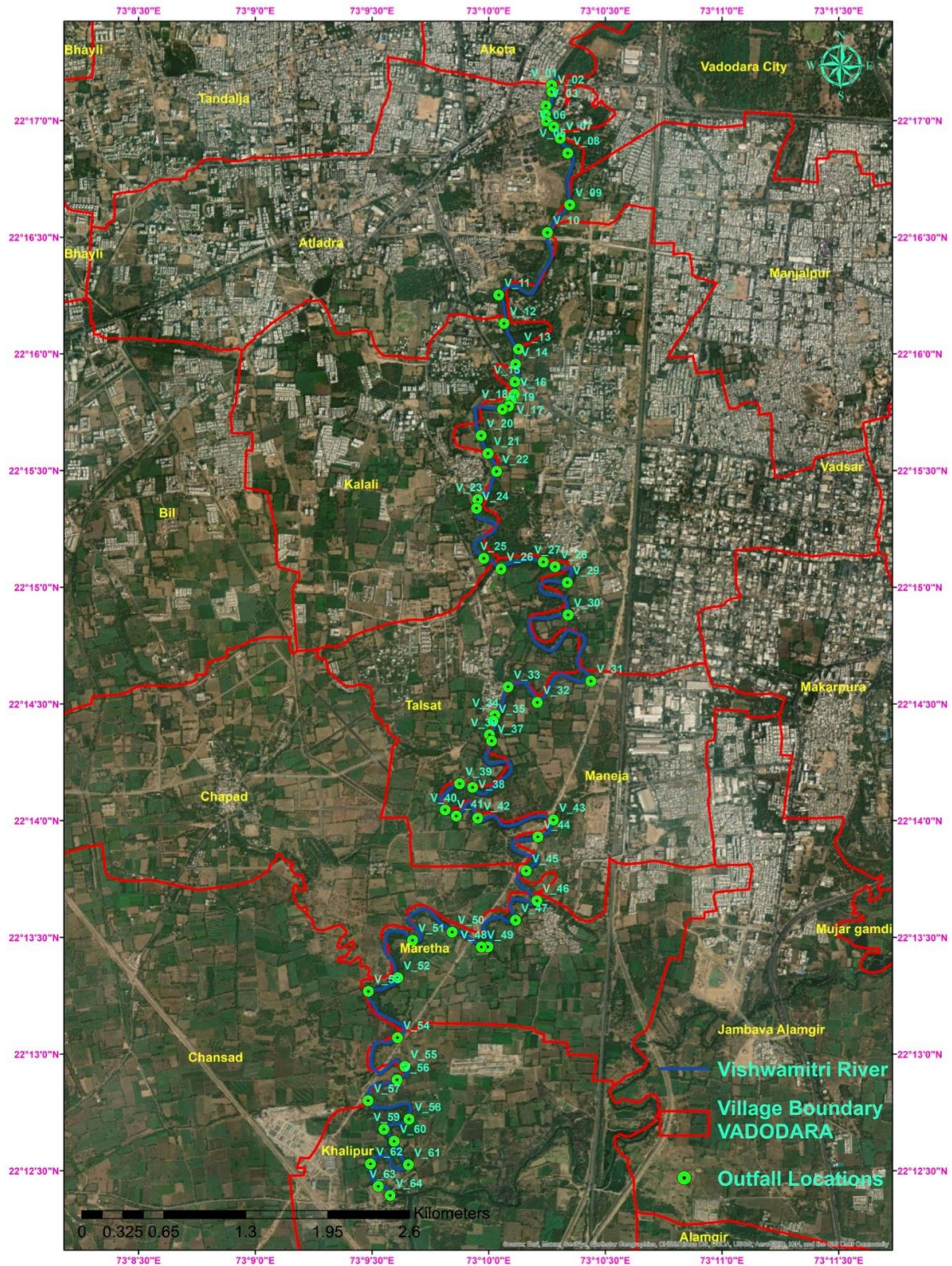
Sr.NO	ID NO	Latitude	Longitude	Projection	RL (Meter)	Side of Bank	Distance From Origine (Meter)	Time 07-11-2023 and 08-11-2023	Village	Remarks
Vishwamitri River										
1	Starting Point	22°17'11.14"N	73°10'17.33"E	WGS84/UTM Zone 43N	27		0	01:15 PM	Atladra	Starting Point
2	V_01	22°17'9.11"N	73°10'16.15"E	WGS84/UTM Zone 43N	27	Right	70	01:15 PM	Atladra	Drainage or Industrial Outlet and Municipal Solid Waste
3	V_02	22°17'7.42"N	73°10'16.26"E	WGS84/UTM Zone 43N	26	Both	122	01:15 PM	Atladra	Drainage Outlet and Municipal Solid Waste
4	V_03	22°17'3.84"N	73°10'14.71"E	WGS84/UTM Zone 43N	31	Right	233	01:14 PM	Atladra	Drainage or Miscellaneous Outlet and Municipal Solid Waste
5	V_04	22°17'1.60"N	73°10'14.56"E	WGS84/UTM Zone 43N	28	Right	306	01:14 PM	Atladra	Drainage or Miscellaneous Outlet and Municipal Solid Waste
6	V_05	22°16'59.84"N	73°10'14.83"E	WGS84/UTM Zone 43N	26	Right	350	01:14 PM	Atladra	Drainage or Miscellaneous Outlet and Municipal Solid Waste
7	V_06	22°16'58.36"N	73°10'16.73"E	WGS84/UTM Zone 43N	28	Left	416	01:14 PM	Atladra	Drainage or Miscellaneous Outlet
8	V_07	22°16'55.45"N	73°10'18.38"E	WGS84/UTM Zone 43N	30	Left	505	01:13 PM	Atladra	Drainage or Miscellaneous Outlet
9	V_08	22°16'51.61"N	73°10'20.31"E	WGS84/UTM Zone 43N	28	Right	661	01:13 PM	Atladra	Drainage Outlet
10	V_09	22°16'38.31"N	73°10'20.85"E	WGS84/UTM Zone 43N	32	Left	1080	01:12 PM	Manjalpur	Miscellaneous Outlet
11	V_10	22°16'31.20"N	73°10'15.10"E	WGS84/UTM Zone 43N	26	Right	1350	01:11 PM	Atladra	Drainage Outlet
12	V_11	22°16'15.14"N	73°10'2.56"E	WGS84/UTM Zone 43N	29	Right	2160	01:08 PM	Atladra	Drainage or Miscellaneous Outlet
13	V_12	22°16'7.84"N	73°10'3.94"E	WGS84/UTM Zone 43N	32	Right	2390	12:37 PM	Kalali	Miscellaneous or Drainage Outlet
14	V_13	22°16'1.24"N	73°10'7.67"E	WGS84/UTM Zone 43N	24	Left	2600	12:36 PM	Kalali	Miscellaneous Outlet
15	V_14	22°15'57.34"N	73°10'6.93"E	WGS84/UTM Zone 43N	29	Right	2720	12:36 PM	Kalali	Drainage or Industrial Outlet

Sr.NO	ID NO	Latitude	Longitude	Projection	RL (Meter)	Side of Bank	Distance From Origine (Meter)	Time 07-11-2023 and 08-11-2023	Village	Remarks
16	V_15	22°15'52.83"N	73°10'6.78"E	WGS84/UTM Zone 43N	28	Both	2850	12:36 PM	Vadsar	Industrial Outlet and Municipal Solid Waste
17	V_16	22°15'49.62"N	73°10'6.63"E	WGS84/UTM Zone 43N	26	Left	2960	12:35 PM	Vadsar	Industrial Outlet and Municipal Solid Waste
18	V_17	22°15'48.11"N	73°10'5.75"E	WGS84/UTM Zone 43N	28	Left	3000	12:35 PM	Vadsar	02 Industrial Outlet and Municipal Solid Waste
19	V_18	22°15'46.56"N	73°10'5.16"E	WGS84/UTM Zone 43N	30	Left	3050	12:35 PM	Vadsar	Industrial Outlet and Municipal Solid Waste
20	V_19	22°15'45.78"N	73°10'3.51"E	WGS84/UTM Zone 43N	27	Left	3100	12:35 PM	Vadsar	Miscellaneous or Lift Irrigation Outlet
21	V_20	22°15'39.00"N	73°9'58.04"E	WGS84/UTM Zone 43N	28	Left	3540	12:33 PM	Vadsar	Miscellaneous or Lift Irrigation Outlet
22	V_21	22°15'34.44"N	73°9'59.81"E	WGS84/UTM Zone 43N	28	Both	3670	12:33 PM	Kalali	Miscellaneous, Drainage Outlet and Municipal Solid Waste
23	V_22	22°15'29.77"N	73°10'1.99"E	WGS84/UTM Zone 43N	29	Left	3850	12:32 PM	Kalali	Miscellaneous or Lift Irrigation Outlet
24	V_23	22°15'22.55"N	73°9'57.16"E	WGS84/UTM Zone 43N	30	Right	4110	12:32 PM	Kalali	02 Miscellaneous or Lift Irrigation Outlet
25	V_24	22°15'20.29"N	73°9'56.85"E	WGS84/UTM Zone 43N	25	Right	4180	12:31 PM	Kalali	Miscellaneous Outlet
26	V_25	22°15'7.43"N	73°9'58.73"E	WGS84/UTM Zone 43N	30	Right	4760	12:29 PM	Kalali	Miscellaneous Outlet and Municipal Solid Waste
27	V_26	22°15'4.71"N	73°10'3.16"E	WGS84/UTM Zone 43N	30	Right	4910	12:29 PM	Talsat	Miscellaneous Outlet
28	V_27	22°15'6.50"N	73°10'14.03"E	WGS84/UTM Zone 43N	32	Left	5220	12:28 PM	Talsat	Industrial Outlet
29	V_28	22°15'5.28"N	73°10'17.06"E	WGS84/UTM Zone 43N	27	Left	5325	12:27 PM	Talsat	Drainage Outlet
30	V_29	22°15'1.20"N	73°10'20.19"E	WGS84/UTM Zone 43N	28	Left	5560	12:26 PM	Vadsar	Miscellaneous, Lift Irrigation and Drainage Outlet
31	V_30	22°14'52.91"N	73°10'20.42"E	WGS84/UTM Zone 43N	29	Left	6120	11:27 AM	Vadsar	Municipal Solid Waste
32	V_31	22°14'35.92"N	73°10'26.28"E	WGS84/UTM Zone 43N	28	Left	7460	11:24 AM	Maneja	Drainage Outlet and Municipal Solid Waste

GSHRC Vishwamitri Committee Supplementary Report

Sr.NO	ID NO	Latitude	Longitude	Projection	RL (Meter)	Side of Bank	Distance From Origine (Meter)	Time 07-11-2023 and 08-11-2023	Village	Remarks
33	V_32	22°1430.44"N	73°1012.51"E	WGS84/UTM Zone 43N	30	Left	7950	11:23 AM	Maneja	Lift Irrigation or Miscellaneous Outlet
34	V_33	22°1434.43"N	73°104.99"E	WGS84/UTM Zone 43N	28	Both	8240	11:22 AM	Talsat	Municipal Solid Waste and Miscellaneous Outlet
35	V_34	22°1427.19"N	73°101.58"E	WGS84/UTM Zone 43N	29	Right	8500	11:22 AM	Talsat	Municipal Solid Waste
36	V_35	22°1425.66"N	73°101.09"E	WGS84/UTM Zone 43N	28	Right	8525	11:21 AM	Talsat	Drainage and Miscellaneous Outlet
37	V_36	22°1422.11"N	73°100.18"E	WGS84/UTM Zone 43N	27	Right	8635	11:21 AM	Talsat	Miscellaneous or Lift Irrigation
38	V_37	22°1420.52"N	73°100.73"E	WGS84/UTM Zone 43N	27	Left	8690	11:21 AM	Maneja	Lift Irrigation
39	V_38	22°148.58"N	73° 955.85"E	WGS84/UTM Zone 43N	27	Right	9480	10:56 AM	Maneja	Miscellaneous Outlet
40	V_39	22°149.53"N	73° 952.51"E	WGS84/UTM Zone 43N	27	Right	9580	10:55 AM	Maneja	Miscellaneous or Lift Irrigation
41	V_40	22°142.79"N	73° 948.77"E	WGS84/UTM Zone 43N	26	Left	9880	10:55 AM	Talsat	Municipal Solid Waste
42	V_41	22°141.21"N	73° 951.66"E	WGS84/UTM Zone 43N	26	Right	9975	10:54 AM	Talsat	Lift Irrigation
43	V_42	22°140.68"N	73° 957.17"E	WGS84/UTM Zone 43N	25	Both	10200	10:53 AM	Talsat	Miscellaneous Outlet and Municipal Solid Waste
44	V_43	22°140.22"N	73°1016.63"E	WGS84/UTM Zone 43N	23	Left	10950	10:52 AM	Maneja	Drainage Outlet
45	V_44	22°1355.85"N	73°1012.65"E	WGS84/UTM Zone 43N	24	Right	11060	10:51 AM	Maneja	Miscellaneous Outlet
46	V_45	22°1347.14"N	73°109.65"E	WGS84/UTM Zone 43N	24	Left	11740	10:49 AM	Maneja	Miscellaneous Drainage, and Lift Irrigation Outlet
47	V_46	22°1339.45"N	73°1012.41"E	WGS84/UTM Zone 43N	22	Left	12000	10:49 AM	Maretha	Drainage, Lift Irrigation and Municipal Solid Waste.


Sr.NO	ID NO	Latitude	Longitude	Projection	RL (Meter)	Side of Bank	Distance From Origine (Meter)	Time 07-11-2023 and 08-11-2023	Village	Remarks
48	V_47	22°1334.44"N	73°106.91"E	WGS84/UTM Zone 43N	25	Left	12420	04:45 PM	Maretha	Lift Irrigation
49	V_48	22°1327.59"N	73° 959.77"E	WGS84/UTM Zone 43N	24	Left	12840	04:34 PM	Maretha	Lift Irrigation
50	V_49	22°1327.56"N	73° 958.09"E	WGS84/UTM Zone 43N	23	Left	12880	04:34 PM	Maretha	Lift Irrigation
51	V_50	22°1331.39"N	73° 950.59"E	WGS84/UTM Zone 43N	21	Left	13120	04:34 PM	Maretha	Lift Irrigation
52	V_51	22°1329.28"N	73° 940.42"E	WGS84/UTM Zone 43N	24	Left	13830	04:36 PM	Maretha	Lift Irrigation or Miscellaneous Outlet
53	V_52	22°1319.65"N	73° 936.64"E	WGS84/UTM Zone 43N	22	Left	14425	03:49 PM	Maretha	Lift Irrigation
54	V_53	22°1316.14"N	73° 929.07"E	WGS84/UTM Zone 43N	22	Right	14660	03:50 PM	Maretha	Drainage Outlet
55	V_54	22°134.26"N	73° 936.54"E	WGS84/UTM Zone 43N	24	Left	15190	03:52 PM	Khalipur	Miscellaneous Outlet
56	V_55	22°1256.83"N	73° 938.43"E	WGS84/UTM Zone 43N	21	Left	15875	03:54 PM	Khalipur	Lift Irrigation
57	V_56	22°1253.43"N	73° 936.44"E	WGS84/UTM Zone 43N	24	Left	16040	03:55 PM	Khalipur	Lift Irrigation
58	V_57	22°1248.06"N	73° 929.00"E	WGS84/UTM Zone 43N	19	Right	16350	03:04 PM	Khalipur	Lift Irrigation or Miscellaneous Outlet
59	V_58	22°1243.29"N	73° 939.50"E	WGS84/UTM Zone 43N	20	Left	16790	03:01 PM	Khalipur	Lift Irrigation
60	V_59	22°1240.71"N	73° 933.08"E	WGS84/UTM Zone 43N	24	Right	16980	03:00 PM	Khalipur	Lift Irrigation
61	V_60	22°1237.63"N	73° 935.69"E	WGS84/UTM Zone 43N	22	Left	17050	03:00 PM	Khalipur	Lift Irrigation
62	V_61	22°1231.58"N	73° 939.35"E	WGS84/UTM Zone 43N	17	Left	17340	02:59 PM	Khalipur	Lift Irrigation
63	V_62	22°1231.82"N	73° 929.59"E	WGS84/UTM Zone 43N	24	Right	17680	02:51 PM	Khalipur	Miscellaneous or Industrial Outlet
64	V_63	22°1226.03"N	73° 931.63"E	WGS84/UTM Zone 43N	23	Right	17800	02:52 PM	Khalipur	Miscellaneous or Industrial Outlet
65	V_64	22°1223.68"N	73° 934.66"E	WGS84/UTM Zone 43N	22	Right	17980	02:52 PM	Khalipur	Drainage Outlet
66	End Point	22°1223.88"N	73° 935.89"E	WGS84/UTM Zone 43N	20		18000	02:52 PM	Khalipur	Ending Point
Total Kilometer							18 Kilometer			



Annexure III: NHSRCL Documents

Relevant pages from NHSRCL Report

नेशनल हाई स्पीड रेल कॉर्पोरेशन लिमिटेड
 (केन्द्र सरकार एवं भाग लेने वाली राज्य सरकारों की संयुक्त क्षेत्र कंपनी)
National High Speed Rail Corporation Limited
 (A Joint Sector Company of Govt. of India and Participating State Government)



Date: 21.05.2025

NHSRCL/ST/MA/04/General/99/1/ OST-6903

To,
 ✓ The City Engineer,
 Vadodara Municipal Corporation,
 Khandarav Market Building, Rajmahal Road,
 Vadodara-390 001

Subject: Submission of Relevant Documents Pertaining to the Vishwamitri River in Connection with Ongoing Construction Activities under MAHSR Project in the Floodplain Zone.

Ref.: (i) Meeting with VMC Commissioner, VMC City Engineer and Committee Members on- 06/05/2025, 08/05/2025, 16/05/2025 & 19/05/2025
 (ii) VMC Bridge Project Department, City Engineer's Outward No. 158 dated 08/05/2025.

Dear Sir,

With reference to the discussion held during the meeting on **19th May 2025** and the communication received from your esteemed office regarding the submission of relevant documents pertaining to the ongoing construction activities of the **Mumbai-Ahmedabad High Speed Rail (MAHSR) project** within the **Vishwamitri River**, we hereby submit the required documentation and information for your reference and records. The submitted documents include:

1. **Exemption from EC and CRZ to Railway Project: Annexure-1**
2. **Permission/Acknowledgement Letter from VMC and VIC: Annexure-2**
3. **Dy. CF Permission/Acknowledgement letter: Annexure-3**
4. **Right of Use (ROU) Permission for Vishwamitri River: Annexure-4**
5. **Cross Section detail of all Vishwamitri river crossing(GAD): Annexure-5**
6. **Note on Action Plan for Clearance of temporary Structures and Post construction restoration: Annexure-6**
7. **Superimposition of the Vishwamitri Alignment Plan with MAHSR pier location on the Flood Plane Map: Annexure -7**
8. **Latest available Drone photos of all Vishwamitri river MAHSR construction sites**
9. **Control Measures during Construction (Crocodile Protection Management Plan): Annexure-8**
10. **Compliance Statement – A declaration outlining the project's adherence to applicable environmental and regulatory norms relevant to riverine ecosystems.**

23/05/25
 2 COPY
 SET

सीटी शेरवानी
 पंडितराय शर्मा
 पंडितराय शर्मा

पंजीकृत कार्यालय: 5th से 7th मंजिल, टॉवर-डी, वर्ल्ड ट्रेड सेंटर, नैरोजी नगर, नई दिल्ली - 110029
 Registered Office: 5th to 7th Floors, Tower-D, World Trade Centre, Nairoji Nagar, New Delhi - 110029
 +91-11-26700000/01 psm@nhsrcl.in

पंजीकृत कार्यालय: #1001-1006, दसवां तल, स्वास्तिक युनिवर्सल, भवन-ब, सेंट्रल मॉल के सामने, डुमस रोड, रण्ड, सुरत, गुजरात - 395007
 Office: #1001-1006, 10th Floor, Swastik Universal, Building-B, Opp. Central Mall, Dumas Road, Rundh, Surat, Gujarat-395007
 +91-261-2209890. +91-261-2209899. office.surat@nhsrcl.in

CIN No. U60200DL2016GOI291002



We affirm that all construction activities undertaken within the Vishwamitri River are in compliance with applicable norms and regulations, and necessary precautions have been implemented to minimize any adverse environmental impact.

If the VMC or Committee require any additional documentation, clarifications, or site presentations, we are ready to provide the same at the earliest convenience.

We appreciate the Committee's efforts to ensure sustainable and environmentally sound development in the Vishwamitri River region and remain committed to full cooperation.

Yours Faithfully,


21/05/25
(Akshaya Kumar)
Chief Project Manager /Co-ordination Surat



MAHSR C4 25 Apr 2025 SEC-05 CH-375.4 to CH-382.8km



MAHSR C4 25 Apr 2025 SEC-05 CH-375.4 to CH-382.8km







MAHSR C4 25 Apr 2025 SEC-05 CH-383.8 to CH-389.2km

Annexure IV: Drone survey of Vishwamitri River outfalls from VMC

Package 01 Location Co-ordinate number		
40	22.2405753, 73.1669709	

Package 02 Location Co-ordinate number		
31	22°15'53"N 73°10'05"E	
31A	22°15'52"N 73°10'07"E	
31B	22°15'56"N 73°10'06"E	
31C	22°15'58"N 73°10'06"E	
32	22°16'07"N 73°10'03"E	
33	22°16'30"N 73°10'14"E	
33A	22°16'28"N 73°10'19"E	
34	22°16'49"N 73°10'14"E	
34A	22°16'51"N 73°10'19"E	
35	22°16'55"N 73°10'18"E	
35A	22°17'02"N 73°10'15"E	
36	22°17'03"N 73°10'15"E	
36A	22°17'07"N 73°10'15"E	
37	22°15'01"N 73°10'21"E	
38	22°15'14"N 73°10'02"E	

Package 03 Location Co-ordinate number		
13	22°18'32"N 73°11'23"E	
14	22°18'31"N 73°11'21"E	
15	Lat 22.2857816, Long 73.1710867	
16	Lat 22.288904° Long 73.172506°	
17	Lat 22.3191434, Long 73.1912861	
18	Lat 22.3177204, Long 73.1900580	
19	Lat 22.3164376, Long 73.1892758	
19A	Lat 22.3156563, Long 73.1899101	
20	22°17'33.08"N 73°10'47.53"E	
21	22°17'33.65"N 73°10'48.02"E	
21A	22°17'37.15"N 73°10'49.37"E	
21B	22°17'38.09"N 73°10'49.62"E	
21C	22°17'39.29"N 73°10'50.07"E	
21D	22°17'39.78"N 73°10'50.38"E	
21E	22°17'45.62"N 73°10'52.16"E	
21F	22°17'46.98"N 73°10'52.51"E	
22	22°17'55.85"N 73°10'56.20"E	
23		
24	22°17'56"N, 73°10'56"E	
25	22°18'03"N, 73°10'67"E	
26	22°18'08"N, 73°11'01" E	
27	22°18'11" N, 73°11'05"E	
28	22°18'19"N, 73°11'11" E	
29	22°18'45" N, 73°11'22" E	
30	22°18'45"N, 73°11'24"E	
30A	22°18'50"N, 73°11'23"E	

Package 04 Location Co-ordinate number	
Sr. No	Location
1	22°21'22.7"N 73°12'48.6"E
2	22°21'08.5"N 73°12'27.0"E
3	22°21'08.5"N 73°12'27.0"E
4	22°20'49.1"N 73°12'35.1"E
5	22°20'17.7"N 73°12'17.1"E
6	22°20'17.1"N 73°12'12.8"E
7	22°20'14.8"N 73°12'05.8"E
8	22°19'47.9"N 73°11'50.8"E
9	22°19'39.0"N 73°11'52.3"E
10	22°19'33.1"N 73°11'44.9"E
11	22°19'31.2"N 73°11'43.4"E
12	22°19'27.2"N 73°11'42.2"E

Screenshots from Drone Survey

