Monthly Progress Report of Polluted River Stretches
November - 2022
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National Mission for Clean Ganga
Format for submission of Monthly Progress Report in the NGT Matter OA No. 673 of 2018 (in compliance to NGT order dated 24.09.2020)

For the State of Gujarat
November - 2022.

Overall status of the State:

I. Total Population: Urban Population – 2,57,45,083, Rural Population – 3,46,94,609 (Census - 2011)

II. Estimated Sewage Generation (MLD): 4003 MLD

III. Details of Sewage Treatment Plant:

- Existing no. of STPs and Treatment Capacity (in MLD): 73 nos, 3485 MLD
  [69 under construction STPs are complete and are now under trial /operational i.e additional 1370.44 MLD]
- Capacity Utilization of existing STPs: 2739 MLD
  [Additional utilization capacity as on November 2022 – 348.07 MLD from existing STPs]
- MLD of sewage being treated through Alternate technology: -
- Gap in Treatment Capacity in MLD: 518 MLD
  [**0.0 MLD - Gap** considering 4855.44 MLD treatment capacity as per Annexure 1A i.e total capacity of existing+ newly commissioned STPs. Additional treatment capacity is 852.44 MLD]
- No. of Operational STPs: 73 [142 as on November 2022]
- No. of Complying STPs: 10
- No. of Non-complying STPs: 08 (including 04 STPs not obtained fresh/renewal of CTE & CCA)
- ULBs having Oxidation ponds: 08
- Site of the STPs not visited: 03
- Details of STPs not available: 01
- STPs just commissioned / under trial run: 29
- Details not submitted: 83
- Details of each existing STP in the State: Details are as per **Annexure-I(A)**
- Details of under construction STPs in the State: Details are as per **Annexure-I(B)**
- Details of proposed STPs in the State: Details are as per **Annexure-I(C)**

IV. Details of Industrial Pollution:

No. of industries in the State	44143 (as per xgn data of date-23/11/2020)
No. of water Polluting industries in the state:	13239 (Source: India E-Track Portal March-2022 data)
Quantity of effluent generated from the industries in MLD:	Total industrial waste water generation from water polluting industries of the State- 16,092.44 MLPD.(Source XGN)
Quantity of hazardous sludge generated from the industries in TPD:	5000 to 8000 TPD. (The Hazardous waste include Landfillable, Incinerable, Recyclable, Used in pre processing/ co-processing.
Number of industries having ETPs:	12942 (Source: India E-Track Portal March-2022 data)
Number of industrial units connected to CETPS:	**6483** (Source: Annual Report: 2020-21)
Number and total capacity of ETPs (details of existing/ under construction / proposed)	➢ Existing ETPs-12942 (Source: India E-Track Portal March-2022 data) Capacity not available
Compliance status of the ETPs:	➢ No of ETP complying with Norms-12696 (Source: India E-Track Portal March-2022 data)
Number and total capacity of CETPs (details of existing/under construction/proposed):	➢ Existing CETPs : 36, Total Capacity: **800.236 MLD** ➢ Propose/Under construction: 16 , total capacity: 263.35 ➢ Under expansion: 3, Capacity: 45.5 *(as per India E-Track Portal July - 2021 data)
Status of compliance and operation of CETPs:	➢ Complying CETPs: 19, ➢ Non complying: 17 (Please refer **Annexure VI**) *(as per CM dash board data for **September-2022**, available on Board's website)

Town	No. of industries	Industrial discharge	Status of ETPs	Status of CETPs (existing, under construction & proposed)
Gujarat	44143	Total industrial waste water generation from water polluting industries of the State- 16,092.44 MLPD.(Source XGN)	Out of 13239 water polluting industries 12942 industries having ETPs. 12696 ETPs are complying with norms.	Existing CETPs : 36 Propose/Under construction/under expansion: 19

V. Solid Waste Management: (As per 9th ATR submitted on 21/12/2021)

Particulars	Data
Total number of Urban Local Bodies and their population	164
Current municipal solid waste generation	9862 MT/Day
Number, installed capacity and utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg- Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting), biomethanation, MRF	• There are total No. 596 of Plants for Vermi / Aerobic/ anaerobic Composting of installed processing capacity 6145 TPD. • There are 264 plants Material Recovery Facilities (MRF) with processing capacity of 4262.30 TPD installed capacity. • There are 5 plants of RDF with processing of 1055 TPD. • Biogas 35 plants with capacity of 163.3 TPD.
Action plan to bridge gap between installed capacity and current utilization of processing facilities (if gap > 20%)	Gap is less than 20% hence not applicable.
No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction)	There are 2 Processing plants C & D Waste with processing capacity of 1300 TPD.
Total no. of wards: no. of wards having door to door collection service: no. of wards practicing segregation at source falling into PRS:	1418 1418 Information not available
Details of MSW treatment facilities proposed and under construction (no., capacity, and technology)	7 Waste to Energy plants having total capacity 5500 TPD.
No. and area (in acres) of uncontrolled garbage dumpsites and sanitary landfills.	Information not available
No. and area (in acres) of legacy waste within 1km. buffer on both side of the PRS	Information not available
No. of drains falling into PRS and no. of drains having floating racks/screens installed to prevent solid waste from falling into PRS	Not provided, however Out of total 10 Nagarpalikas requiring in-situ remediation, STPs in 5 Nagarpalikas are already operational. STPs in remaining 5 Nagarpalikas will be commissioned before September – 2022 and are directed to start in-situ remediation of drains till the STPs are being commissioned. Surat Municipal Corporation has got the DPR Approved from National River Conservation Directorate (NRCD) for the "Pollution Abatement and Conservation of River Tapi Project" (Tapi Shudhhikaran Project) and the work has been started accordingly. During the course of time, several outlets have been identified and the same are planned to get under bioremediation work till the Sewage Treatment Plants are operational. Sardar Vallabhbhai National Institute of Technology (SVNIT) has been appointed as consultant for the same & Expression of Interest (EOI) were asked. The short listing of EOI has been finalized and the financial proposal has been invited from the short listed companies

	recently. Total 18 locations with approximately 130 MLD total flow have been covered under this work.

Status of ULB wise Management of Solid Waste

ULB	Total MSW generation in TPD	Total MSW being processed in TPD	Existing MSW facilities	Utilization Capacity of the existing MSW facilities	Proposed MSW Facilities & Completion Timeline
-	9862	8757.45	-	-	-

VI. Bio-medical Waste Management:

- Total Bio-medical waste generation(Related to entire State): 36.42 MT/day
  Total Bio-medical waste generation(Related to PRS): 27.54 MT/day
- No. of Hospitals and Health Care Facilities(Related to entire State): 31286
  No. of Hospitals and Health Care Facilities(Related to PRS): 28399
- Status of Treatment Facility/ CBMWTF(Related to entire State)
  : Existing – 20, Proposed – 1
  Capacity – 126 MT/day
  Status of Treatment Facility/ CBMWTF(Related to PRS): Existing – 16
  Capacity – 108 MT/day

VII. Hazardous Waste Management:

- **Total Hazardous Waste generation:** 3.05 MMT for the year 2020-21 as per online manifest data which includes landfill, incineration, recycling, co-processing and preprocessing.
  Hazardous waste generation related to PRS: 2.21 MMT
- **No. of Industries generating Hazardous waste:** About 19,662 hazardous waste generating units in the Gujarat state as per annual inventory 2019-20.
- **Treatment Capacity of all TSDFs:** Total installed capacity about 86,26,332 MT.
- **Average Quantity of Hazardous waste reaching the TSDFs and Treated (related to State):**
  1.05 MMT waste reaching TSDFs for the year 2020-21 as per online manifest data.
  Remaining waste is being treated through incineration (0.073 MMT) or utilized through recycling (1.17 MMT), co-processing (0.66 MMT) and preprocessing (0.12 MMT).
  Average Quantity of Hazardous waste reaching the TSDFs and Treated (related to PRS):
  0.76 MMT waste reaching TSDFs for the year 2020-21 as per online manifest data.
  Remaining waste is being treated through incineration (0.049 MMT) or utilized through recycling (0.83 MMT), co-processing (0.50 MMT) and preprocessing (0.061 MMT).

- **Details of on-going or proposed TSDF:** 6 nos. of proposed TSDF with 63,66,322 MT capacity as per Annual Report 2019-20.

Note: As the hazardous waste is being treated in the treatment facilities of the state and/or utilized irrespective of the districts where the hazardous waste is being generated and hence providing details of hazardous waste management separately for the State and along the polluted river stretches is not possible.

VIII. Plastic Waste Management:

- Total Plastic Waste generation: 408201.08 TPA (April 2019-March 2020)
- Treatment/ Measures adopted for reduction or management of plastic waste:

Disposal of Plastic Waste through	Co-processing	109157.435 MT (from April 2019 to August 2020)
	Recycler	Total no. recycling units: 597 Capacity of recycling plastic waste: 11,13,526.56 MT/Y
	Refuse Derived Fuel	MSW units : 2 Quantity of final product sold is 129,575 MT/Annum containing 7 % of plastic waste i.e. 9071 MT/Annum (April 2019-March 2020)
	Pyrolysis	Total no. of operational units: 2 Cap. to convert plastic waste into oil: 5075 TPA Plastic used as raw material: 600 MT/M

IX.	Details of Alternate Treatment Technology being adopted by the State/UT:
-Ahmedabad & Vadodara Municipal Corporations have set up dry sewage sludge hygienisation Cobalt – 60 gamma irradiation plant. (Ahmedabad Municipal Corporation - 100 tonnes per day) - Legacy waste treatment at Pirana dumping site, Ahmedabad.	
X.	Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment:
Identification of polluting sources including drains contributing to river pollution is already completed and submitted in the PRS action plan. Out of total 10 Nagarpalikas requiring in-situ remediation, STPs in 5 Nagarpalikas are already operational. STPs in remaining 5 Nagarpalikas will be commissioned before September – 2022 and are directed to start in-situ remediation of drains till the STPs are being commissioned.	
XI.	Details of Nodal Officer appointed by Chief Secretary in the State/UT:
In compliance to the direction of Hon'ble NGT with reference to set up of Monitoring Mechanism, Deputy Environmental Engineer (ShriT.C.Patel) has been deputed vide letter	

dated 10.06.2020 at Chief Secretary office to look after the Hon'ble NGT matters.	
XII.	Details of meetings carried under the Chairmanship of Chief Secretary in the State/UT:
All NGT matters are being reviewed regularly under chairmanship of Hon'ble CS.Total 2 review meetings are conducted so far under the chairmanship of Hon'ble CS to monitor the progress with reference to the action plans submitted w.r.t the Hon'ble NGT order in the matter of O.A. No.:- 673/2018and to resolve various issues/non -compliances. Last meeting was convened on 10/09/2020 under the chairmanship of Hon'ble Chief Secretary Gujarat State. **Three review** meetings have been convened so far w.r.t the Hon'ble NGT order in the matter of O.A. No.:- 606/2018 which also includes the review of matters related to O.A. No.:-673/2018.	
XIII.	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;
Details are attached as **Annexure – II**	
XIV.	Ground water regulation:
GWRDC has given details about the recently framed draft bill titled "Conservation, Protection, Regulation and Management of Ground Water in Gujarat State" Final comments /suggestions were sought by GWRDC vide letter dated 02/11/2020 from concerned departments for finalization of the draft bill. Seven meetings of sub-committee have been convened so far for finalization of the draft bill. The final draft bill was approved by the sub-committee during the meeting held on 12/11/2020 as per the minutes of meeting. The final draft of the bill has been submitted to the Chairman of the Committee and Special Secretary, (WR), Narmada Water Resource, Water Supply &Kalpsar department, Govt. of Gujarat, for consideration in the main committee meeting.	
XV.	Good irrigation practices being adopted by the State:
XVI.	Rain Water Harvesting:
XVII.	Demarcation of Floodplain and removal of illegal encroachments:
XVIII.	Maintaining minimum e-flow of river:
Details w.r.t point no. XV, XVI, XVII & XVIII is given by Irrigation Dept./ Water Resource Dept., NWR WS & KD as on date is attached as **Annexure – III.**	
XIX.	Plantation activities along the rivers:
Details w.r.t point no. XIX given by Forest Dept. /PCCF/ACCF/Concerned as on date is attached as **Annexure – IV**	

XX.	Development of biodiversity park:

As per the information received from GBB, vide letter dated 24.04.2020, Forest Dept. has established a very rich Botanical Garden at Waghai, Dangs. It also has a chain of Research Stations, Germ Plasms Banks, Provenance Banks, Sample Plots, Preservation Plots spread all over the State. Many working plans have Conservation or Preservation Working Circles for the express purpose of Biodiversity Conservation. The National Working Pan Code 2014 also mandates a Biodiversity Conservation Working Circle. All plans coming up for revision now shall have a Biodiversity Conservation Working Circle. Besides a host of Biodiversity based activities like Cactus Park, Ekta Van, Ekta Nursery, and Nutritional Park etc., have come up at Statue of Unity. Moreover, Shakkarbaug Zoo is an "A" Category zoological park along with many other zoological parks at Rajkot, Ahmedabad, Gandhinagar, Vadodara, Surat, Kevadiya etc. All these are repositories of biodiversity. Therefore, these may be treated as a Biodiversity park is totality.

GBB informed during the meeting held on 04/02/2020 at GPCB with PRS Assessment Team nominated by Ministry of Jal Shakti about proposal sent by them to CAMPA for funding of around Rs. 5 Crore for the development of Biodiversity Park. Team suggested tying up with AMC as they already have some plan to develop Biodiversity park at Khari under NRCP.

XXI.	Reuse of Treated Water:

Details are attached as **Annexure – V.**

XXII.	Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:

River Sabarmati has been selected as model river stretch during the 9thRRC meeting held on 27.11.2020.

XXIII.	Status of Preparation of Action Plan by the 13 Coastal States:

Direct sea discharge of industrial effluent is not permitted in the State. Study in this regard is being carried out by NIO and sea discharge of industrial effluent is allowed at the designated point into the sea as mentioned by NIO in case the effluent is meeting with the discharge norms.

As on February 2022, STPs having 4340.56 MLD capacity are operational in the state against the total sewage generation of 4003 MLD i.e additional treatment capacity of 337.56 MLD. In order to stop untreated sewage discharge into the Sea and the river stretches, STPs of about 2624.78 MLD (under construction and proposed) were planned against the gap of 518 MLD in the state and as on February – 2022 work of STPs with 855.56 MLD is completed.

The matter was discussed in detail during the 11th RRC meeting held on 15/09/2022. Work order for preparation of Action plan for the coastal & marine pollution is given to GEMI on 24/05/2022. Further the details sought by GEMI were furnished on 01/08/2022. The draft report of "Action plan for management of the costal and marine pollution" is expected to be received from GEMI (Gujarat Environment Management Institute) shortly and based on that the final action plan for management of the costal and marine pollution may be completed.

XXIV.	Regulation of Mining Activities in the State/UT:

Mining activities are regulated through Gujarat Minor Mineral Concession Rules and model guidelines framed by the Ministry of Mines. Mining leases obtain Environmental Clearance from SEIAA Gujarat or MoEF&CC as the case may be as per the provisions of EIA Notification – 2006 as well as Consent to Establishment and Consent to Operate from Gujarat Pollution Control Board.

XXV.	Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring

- Total number of notice of directions to defaulting units under section 31 A of Air Act – 1981 (up to 31/03/2021): 17288.
- Total number of closure directions to defaulting units under section 31 A of Air Act – 1981 (up to 31/03/2021): 6269 respectively.
- Total number of notice of directions to defaulting units under section 33 A of Water Act – 1974 (up to 31/03/2021): 19136.
- Total number of closure directions to defaulting units under section 33 A of Water Act – 1974 (up to 31/03/2021): 12479.
- Total number of notice of directions under rule 4(2) of the EPAct – 1986 read with Hazardous Waste (Management, Handling & Transboundary) Rules – 2008 (up to 31/03/2021): 4372
- Total number of closure directions under section 5 of the EPAct – 1986 read with Hazardous Waste (Management, Handling & Transboundary) Rules – 2008 (up to 31/03/2021): 1763

(As per Annual report – 2020-2021)

***Note: Incremental progress made by the State/UT in each activity to be provided.**

RRC meetings:

RRC meetings are held at GPCB, Gandhinagar to review the progress and the minutes of the meeting having progress status, is regularly submitted to CPCB. Last RRC (11th RRC) meeting

was conducted on 15/09/2022. Following are the major concluding remarks during the meeting addressing the concerned departments & agencies:

- Urban Development & Urban Housing Department through Gujarat Urban Development Mission & Swachh Bharat Mission to ensure treatment of 100% sewage generated in the State, adequate drainage network for receiving sewage at STPs and remediation / process of legacy waste in the State
- Urban Development & Urban Housing Department through Gujarat Urban Development Mission to take up the matter with concerned local bodies for obtaining CTE & CCA of GPCB for existing operational STPs & for installation of OCEMS in the existing operational STPs.
- Urban Development & Urban Housing Department through Gujarat Urban Development Mission to identify the issues, whether the STPs are non-complying due to technical faults or due to improper O&M.
- Urban Development & Urban Housing Department and Panchayat Rural Housing & Rural Development Department to avail the necessary funds for the schemes under Tapi Shudhdhikaran project.
- Gujarat Pollution Control Board thorugh Gujarat Environment Management Institute to prepare & submit action plan for management of coastal/ marine pollution.
- GPCB through all the Regional Offices to take follow up with the concerned local bodies for obtaining CTE & CCA of GPCB for existing operational STPs & to ensure the installation of OCEMS in the existing operational STPs.
- GPCB to take necessary actions against the non complying CETPs, ETPs & STPs.
- Gandhinagar Municipal Corporation & Ahmedabad Municipal Corporation to submit action taken report with regard to rejuvenation of model river Sabarmati.
- Industries Commissioner Office to expedite the deep sea disposal project.

Current status of the projects proposed under action plans of Polluted River Stretches: (*From total proposed 99 STPs related to PRS, work of 19 STPs (including existing STP of Gavier) is completed so far.*)

STPs:

Sr. No.	PRS	Proposed STP details	Status	Timeline details 1. Given in RAP 2. Revised	Amount of Bank Guarantee submitted (Rs. In crores) & Organization details	Remarks
1.	**Amravati (Priority - IV)**	• A meeting was held on 13/01/2021 under the chairmanship of ACS PRH&RDD for management of sewage, from villages being discharged in to the 6 PRS. During the meeting, looking to the magnitude & importance of the work, it was decided to seek the extension of time limit for further 3 years. • Work for management of sewage from villages related to PRS has been assigned to Gujarat Water Supply and Sewerage Board (GWSSB) as per the decision taken during the meeting held on 01/02/2021 under the chairmanship of Chief Secretary, Gujarat. • At present DPR under preparation. Work for STPs will be started by GWSSB after receiving land possession. • Details of STPs proposed are mentioned in **Table – 2** below:		1. Not mentioned in RAP	2.02 Cr. & Panchayat Rural Housing & Rural Development Department (Development Commissioner-Smart Village Society Gandhinagar of Gujarat State.)	

2.	**Amalakhadi (Priority - I)**	14 MLD STP (Ankleshwar Nagar Palika)	• Land is available. Work order given. 38% work completed.	1. March 2021 2. 15/09/2022 3. 31/12/2022 4. 27/09/2023	8.9 Cr. Gujarat Urban Development Mission	
			• For management of sewage from villages along the PRS, **details are same as mentioned in PRS Amravati hereinabove**. • Details of STPs proposed are mentioned in **Table – 2** below:	1. Not mentioned in RAP	*2.02 & Panchayat Rural Housing & Rural Development Department (Development Commissioner-Smart Village Society Gandhinagar of Gujarat State.)	
3.	**Anas (Priority - V)**	13.70 MLD of STP (Dahod Nagarpalika):	100% Completed & Operational.	1. March 2021 2. --	* 8.9 & Gujarat Urban Development Mission	
		4.60 MLD of STP (Zalod Nagarpalika)	100% Completed & Operational.	1. March 2021 2. --		
4.	**Baleshwar Khadi (Priority - V)**	For management of sewage from villages along the PRS, **details are same as mentioned in PRS Amravati hereinabove**. Details of STPs proposed are mentioned in **Table – 2** below:		1. Not mentioned in RAP	*2.02 & Panchayat Rural Housing & Rural Development Department (Development Commissioner-Smart Village Society Gandhinagar of Gujarat State.)	
5.	**Bhadar**	STP Jetpur–	100% Completed & Operational.	1. March 2021 2. --	* 8.9 & Gujarat Urban	

	(Priority - I)	Navagadh Nagarpalika (23.5 MLD):			Development Mission	
6.	**Bhogavo (Priority - I)**	Surendranagar (32.3 MLD STP)	Completed & Operational	1. October 2019 2. --	* 8.9 & Gujarat Urban Development Mission	
		Wadhwan 12.1 MLD STP	Estimates are under preparation for rising main work for conveying sewage of Wadhwan area to Surendranagar STP.	1. March 2021 2. 31/3/2022		
7.	**Damanganga (Priority - IV)**	Vapi Namdha (14 MLD)	100% Completed.	1. February 2020 2. 31/03/2022 3. 30/09/2022	* 8.9 & Gujarat Urban Development Mission	
		Vapi Chandor (29.53 MLD)	100% Completed.	1. March 2021 2. 31/03/2023 3. 31/12/2023		
		Vapi Notified Area Authority 10 (5+5) MLD	DPR is approved by Head Office and submitted to I.C office for approval under A.I.I. scheme.	1. 2020 2. December 2022	0.23 & Vapi Notified Area Authority	
8.	**Dhadhar (Priority - III)**	Kapurai (new) (60 MLD) (STP + Network)	Operational	1. December 2020 2. --	* 8.9 & Gujarat Urban Development Mission	
		Sayaji garden (7.5 MLD)	Completed & Operational.	1. March 2021 2. 28/02/2022		
		Channi (new) (50 MLD) (STP + Network)	Completed & Operational.	1. December 2021 2. 30/06/2022		

		Atladara (new) (84 MLD)*	05% completed.	1. December 2022 2. 31/12/2023		
		Tarsali/GIDC (new) (100 MLD) (STP + Network)*	05% completed.	1. December 2023 2. 31/12/2023		
		Karjan Nagarpalika 5.2 MLD	Completed & Under trial run.	1. December 2023 2. 15/06/2022		
		For management of sewage from villages along the PRS, **details are same as mentioned in PRS Amravati hereinabove**. Details of STPs proposed are mentioned in **Table – 2** below:		1. Not mentioned in RAP	*2.02 & Panchayat Rural Housing & Rural Development Department (Development Commissioner-Smart Village Society Gandhinagar of Gujarat State.)	
9.	**Khari (Priority - I)**	Vinzol (35 mld) AMC	Operational.	1. July 2019 2. --	* 8.9 & Gujarat Urban Development Mission	
		Vinzol (100 mld) AMC	Operational.	1.December 2019 2.---		
10.	**Kim (Priority - V)**	For management of sewage from villages along the PRS, **details are same as mentioned in PRS Amravati hereinabove**. Details of STPs proposed are mentioned in **Table – 2** below:		1. Not mentioned in RAP	*2.02 & Panchayat Rural Housing & Rural Development Department (Development Commissioner-Smart Village Society	

					Gandhinagar of Gujarat State.)	
11.	**Kolak (Priority - IV)**	10 MLD STP by Vapi Notified Area Authority (For PRS Kolak)	DPR is approved by Head Office and submitted to I.C office for approval under A.I.I. scheme.	1. May 2020 2. March 2022	*0.23 & Vapi Notified Area Authority	
		For management of sewage from villages along the PRS, **details are same as mentioned in PRS Amravati hereinabove**. Details of STPs proposed are mentioned in **Table – 2** below:		1. Not mentioned in RAP	*2.02 & Panchayat Rural Housing & Rural Development Department (Development Commissioner-Smart Village Society Gandhinagar of Gujarat State.)	
12.	**Mahi (Priority - IV)**	---	---			
13.	**Meshwo (Priority - V)**	---	---			
14.	**Mindhola (Priority - V)**	STP of 4 MLD (2+2 MLD) proposed by Sachin Notified Area Authority	Proposal is submitted and presented before Industries Commissioner (IC) for providing finance. IC office vide email dated 11/08/2021 informed to take this project in Common Environmental Infrastructure Facility Scheme (CEIF) of GoG for availing financial	1. May 2020 2. December 2022	0.75 & Sachin Notified Area Authority	Delayed due to COVID-19 pandemic, technical feasibility of the project, availability of land & finance, technical assessment of underground

			assistance.			pipeline network.
15.	**Narmada (Priority - V)**	---	---			
16.	**Sabarmati (Priority - I)**	Pirana 155 MLD STP	Completed & Operational.	1. March 2020 2. ---	* 8.9 & Gujarat Urban Development Mission	
		STP of Shankar Bhuvan 25 MLD	Completed & operational.	1. March 2020 2. ---		
		STP at Dafnala 25 MLD	Ministry of Defence has granted working permission on defence land on leasehold basis on 31.12.2020. After finalizing the M.O.U with Cantonment Ahmedabad, Work Order given. LOI given.	3. March 2021 4. 31/12/2022		
		STP at Kotarpur 60 MLD	Tender approved and work order given. 70% Physical progress.	1.March 2021 2.31/12/2022 3.31/03/2023		
		STP at Koteshwar 60 MLD	Tender to be invited	1. --- 2.31/12/2022 3.31/12/2023	---	Newly proposed STP which was not included in the River Action Plan
		Pethapur STP (12 MLD – tentative)	DTP under approval.	1.--- 2.31/12/2022 3.31/12/2023	---	Newly proposed STP which was not included in the River Action Plan
17.	**Shedhi (Priority - IV)**	Kheda STP (5.2 MLD)	Completed & Operational.	1.March 2021 2.15/06/2022	* 8.9 & Gujarat Urban	

		To Channel untreated sewage into STP (Nadiad)	Work order given on 17.01.2020 47% Completed.	1.July 2020 2.December 2021	Development Mission	
18.	**Tapi** **(Priority - IV)**		Land issues in 30 STPs have been sorted out from the total 52 STPs of Tapi Shuddhikaran. Details of STPs under Tapi Shuddhikaran is as per **Table-1**	As per Table - 1	* 8.9 & Gujarat Urban Development Mission	
19.	**Triveni** **(Priority-III)**	---	---		0.75 & Somnath Trust. **(Details as per Table – 2)**	
20.	**Vishwamitri** **(Priority - II)**	Kapurai (new) (60 MLD) (STP + Network)	Operational	1. December 2020 2. --	* 8.9 & Gujarat Urban Development Mission	
		Sayaji garden (7.5 MLD)	Completed & Operational.	1. March 2021 2. 28/02/2022		
		Channi (new) (50 MLD) (STP + Network)	Completed & Operational.	1. December 2021 2. 30/06/2022		
		Atladara (new) (84 MLD)*	05% completed.	1. December 2022 2. 31/12/2023		
		Tarsali/GIDC (new) (100 MLD) (STP + Network)*	05% completed.	1. December 2023 2. 31/12/2023		

Table-1 (For PRS Tapi)

Sr. No.	STP name & capacity	Current Status	Timeline details 1. Given in RAP 2. Revised	Remarks (land availability / status of land/other issue)
1.	Bhesan STP Augmentation (100 mld) SMC	100% Completed	1. December 2020 2. --	Plant completed, Trial run under progress
2.	Singanpore STP Upgradation & expansion(100 mld) SMC	100% Completed	1. April 2021 2. ---	Delay due to Covid-19.
3.	Bhatar STP Augmentation (115 mld) SMC	100% Completed and under trial run	1. April 2021 2. 30/04/2022	Delay due to Covid-19.
4.	Gavier (53 MLD) – Expansion	Existing STP. Enhancement of capacity utilization is under process.		
5.	Kamrej- Valak creek (43.24 mld) SUDA	Work in Progress 83% Completed	1. February 2022 2. March-2022	Land Possession received, Delay due to Covid-19.
6.	Kamrej- Varachha Creek (51.72 mld) SUDA	Work in Progress 40% Completed	1. February 2022 2. December-2022	Land Possession received ON 22.01.2021, Procurement of electrical & mechanical equipment and civil work has started. Delay due to Covid-19.
7.	Bharthana SPS 1 at TPS-83 (22.7 mld) SUDA	Work In Progress 5% Completed	1. February – 2022 2. September-2022	Land Possession received, Delay due to Covid-19.
8.	Kamrej- Kamrej 1 + Kolvad (Vav- 1) (16.09 mld)+ (18.5 mld) SUDA	Work in progress. 7% Completed	1. February – 2022 2. September-2022	Land Possession received
9.	Kamrej- Dungra (0.67 mld) SUDA	Work in progress. 5% Completed	1. February – 2022 2. September-2022	Land Possession received

10.	Kamrej-Dhoran Pardi-2 (12.5 mld) +Dhoran Creek (1.18 mld) ,SUDA	Work in progress. 1% Completed	1. February – 2022 2. September-2022	Land Possession received
11.	Kamrej – Kolibharthana (4.3 mld) SUDA	Work in progress. 5% Completed	1. February – 2022 2. September-2022	Land Possession received
12.	Kamrej- Pasodara (4.15 mld) + Laskana (5.17 mld), SUDA	Work in progress. 5% Completed	1. February – 2022 2. September-2022	Land Possession received
13.	Kamrej- Karjan (1 mld) SUDA	Work in progress. 1% Completed	1. February – 2022 2. September-2022	Land Possession received
14.	Kamrej- Kholeshwar (0.33 mld) SUDA	Work Order issued Work will be started as soon physical land Possession availed 0% Completed	1. February – 2022 2. September-2022	Collector sir submitted proposal for land to State Government on 19/09/2020. Delay due to Land Possession.
15.	Kamrej- Kathor (16 mld) SUDA	Work in progress. 10% Completed	1. February – 2022 2. September-2022	Land Possession received on 04.06.2021
	Cluster-1			
16.	Kamrej- Timba (0.75 MLD)	Work in Progress 95.11 % Completed	1. February – 2022 2. September-2022	Land is allotted.
17.	Kamrej- Sevni (5.18 MLD)			Land is allotted.
18.	Kamrej- JatBharthana (0.17 MLD)			Land is allotted.
19.	Kamrej- Maachi (0.16 MLD)			Land is allotted.
20.	Kamrej- Dhatva (0.34 MLD)			Land is allotted.
	Cluster-2			

21.	Kamrej- Ghala (1.39 MLD)	Work in Progress 91% Completed	1. February – 2022 2. September-2022	Land is allotted.
22.	Mandvi- Bodhan Village (1.3 MLD)			Land is allotted.
23.	Mandvi- Khanjroli (0.29 MLD)			Land is allotted.
	Cluster-3			
24.	Bardoli- Vaghecha (0.28 MLD)	Work in Progress 87.48 % Completed	1. February – 2022 2. June-2023	Land is allotted.
25.	Bardoli- Bhamaiya (0.17 MLD)			Land is allotted.
26.	Bardoli- Mori (0.15 MLD)			Land is allotted.
27.	Mandvi- Tarsada(0.82 MLD)			Land is allotted.
	Cluster-4			
28.	Mandvi- Punagam + Unn Kosadi (0.65 MLD)	Work in Progress 93.36 % Completed	1. February – 2022 2. June-2023	Land is allotted.
29.	Mandvi- Gamtalav Bujrang + Uskhed Khurd (0.45 MLD)			Land is allotted.
30.	Mandvi STP(3.5 MLD)	Work in Progress 75% Completed	1. February – 2022 2. Dec-2022	Land is allotted.
	Creek regions			
	Cluster-5			
31.	Mandvi-Koliwad (0.23 MLD)	Technical Sanction given in 165th TSC Committee of GWSSB. Tender to be invited after obtaining	1. February – 2022 2. *	Land allotment proposal is with Collector, Surat. DLR for land survey completed.

		Revised Administrative Approval 0% Completed * As GWSSB is implementing deposit work of Panchayat Department, Tender can be invited only after receiving necessary Administrative approval/Grant.		
32.	Mandvi- Ratania (0.18 MLD)			Land allotment proposal is with Revenue Department.
	Cluster-6			
33.	Mandvi-Vadod (0.14 MLD)	Technical Sanction given in 165th TSC Committee of GWSSB. Tender to be invited after obtaining Revised Administrative Approval 0% Completed * As GWSSB is implementing deposit work of Panchayat Department, Tender can be invited only after receiving necessary Administrative approval/Grant.	1. February – 2022 2. *	Land allotment proposal is with Collector, Surat. DLR for land survey completed.
34.	Mandvi- Munjalav (0.44 MLD)			
35.	Mandvi- Dharmapur (0.52 MLD)			
36.	Mandvi-Nogama (0.32 MLD)			
37.	Mandvi-Kolakui (0.15 MLD)			
38.	Mandvi-Ushker & Togapur (0.15 MLD)			
	Cluster-7			
39.	Mandvi-Kharoli (0.54 MLD)	Technical Sanction given in 165th TSC Committee of GWSSB. Tender to be invited after obtaining Revised Administrative Approval 0% Completed * As GWSSB is implementing deposit work of Panchayat Department, Tender can be invited only after receiving necessary Administrative approval/Grant.	1. February – 2022 2. *	Land allotment proposal is with Collector, Surat. DLR for land survey completed
40.	Mandvi-Gavachhi (0.45 MLD)			
41.	Mandvi-Kudashi (0.08 MLD)			
42.	Mandvi-Naren (0.46 MLD)			
43.	Mandvi-Pipariya (0.25 MLD)			

44.	Mandvi-Kevadia (0.21 MLD)			
	Creek Regions			
	Cluster-8			
45.	Mandvi-Godavadi (0.82 MLD)	Technical Sanction given in 165th TSC Committee of GWSSB. Tender to be invited after obtaining Revised Administrative Approval 0% Completed * As GWSSB is implementing deposit work of Panchayat Department, Tender can be invited only after receiving necessary Administrative approval/Grant.	1. February – 2022 2. *	Land allotment proposal is with Collector, Surat. DLR for land survey completed
46.	Mandvi-Kamlapor (0.33 MLD)			Land is available
47.	Mandvi-Nanadpor (0.34 MLD)			Land allotment proposal is with Collector, Surat. DLR for land survey completed
48.	Mandvi-Umarsadi (0.4 MLD)			Land allotment proposal is with Collector, Surat. DLR for land survey completed
	Cluster-9			
49.	Bardoli-Kadod-Haripura (2.64 MLD)	Technical Sanction given in 165th TSC Committee of GWSSB. Tender to be invited after obtaining Revised Administrative Approval 0% Completed * As GWSSB is implementing deposit work of Panchayat Department, Tender can be invited only after receiving necessary Administrative approval/Grant.	1. February – 2022 2. *	Land allotment proposal is with Collector, Surat. DLR for land survey completed
50.	Bardoli-Jakhala (0.18 MLD)			
51.	Bardoli-Miyawadi (0.08 MLD)			
52.	Bardoli-Masad (0.46 MLD)			

Note: Land is available in case of 30 STPs (14 Urban + 16 rural) from total 52 STPs (15 urban + 37 rural) of Tapi Shuddhikaran.

Table – 2

Status of Drainage work & STPs in Villages related to PRS.					
Sr.No	**Name of PRS**	**Village name**	**STP (MLD)**	**Current status**	**Land status**
1.	Dhadhar Dist: Vadodara	Por	1.88	DPR under approval	Land is available
2.	Kolak Dist: Valsad	Chiri	2.59	DPR under approval	Land is available
3.		Salvav	0.78	DPR under preparation.	Land not available
4.		Charvada	1.65	DPR under preparation.	Land not available
5.		Balitha	2.49	DPR under preparation.	Land not available
6.	Kim Dist: Surat	Kim	3.39	As GWSSB is implementing deposit work of Panchayat Department, Proposal for Administrative approval is sent to Development Commissioner,Gandhinagar dated.05/10/2021 which is awaited. Work can be started after receiving necessary Administrative approval/Grant.	Land not available
7.	Kim Dist: Bharuch	Sahol	0.16	As GWSSB is implementing deposit work of Panchayat Department, Proposal for Administrative approval is sent to Development Commissioner,Gandhinagar dated.05/10/2021 which is awaited. Work can be started after receiving necessary Administrative approval/Grant.	Land is available
8.	Baleshwar Khadi	Baleswar	0.90	As GWSSB is implementing	Land is available

9.	Dist: Surat	Kareli	0.13	deposit work of Panchayat Department, Proposal for Administrative approval is sent to Development Commissioner,Gandhinagar dated.05/10/2021 which is awaited. Work can be started after receiving necessary Administrative approval/Grant.	Land is available
10.		Dastan	0.24		Land is available
11.		Bagumara	0.56		Land is available
12.	Amlakhadi Dist: Bharuch	Bhadkodara	2.79	DPR under preparation.	Land not available
13.		Piraman	0.32	DPR under preparation.	Land not available
14.		Kapodara	0.90	DPR under preparation.	Land not available
15.		Kosamandi	2.60	DPR under preparation.	Land not available
16.	Amravati Dist: Bharuch	Sengpur	0.35	As GWSSB is implementing deposit work of Panchayat Department, Proposal for Administrative approval is sent to Development Commissioner,Gandhinagar dated.05/10/2021 which is awaited. Work can be started after receiving necessary Administrative approval/Grant.	Land is available
17.		Avadar	0.16		Land is available
18.		Dadhala	0.64	DPR under preparation.	Land not available
19.		Pardi	0.08	DPR under preparation.	Land not available
20.		Hirapor	0.28	As GWSSB is implementing deposit work of Panchayat Department, Proposal for Administrative approval is sent to Development Commissioner,Gandhinagar	Land is available

				dated.05/10/2021 which is awaited. Work can be started after receiving necessary Administrative approval/Grant.	
21.		Limet	0.15	DPR under approval	Land is available
22.		Piprod	0.10	As GWSSB is implementing deposit work of Panchayat Department, Proposal for Administrative approval is sent to Development Commissioner, Gandhinagar dated.05/10/2021 which is awaited. Work can be started after receiving necessary Administrative approval/Grant.	Land not available
Total			23.14		

Note: Land is available in case of 11 STPs from total 22 STPs of rural areas related to PRS.

CETPs:

Sr. No.	**PRS**	**CETP details**	**Status**	**Amount of Bank Guarantee submitted (Rs. In crores)**	**Organization**
1.	**Amravati (Priority - IV)**	There is no Industry in the vicinity of River Amravati and there is no discharge of industrial effluent in to Amravati river.		---	---
2.	**Amalakhadi (Priority - I)**	There is no any direct wastewater discharge from any CETP in to Amlakhadi		---	---
3.	**Anas (Priority - V)**	No any industrial effluent is being discharged into the stretch of River Anas.		---	---
4.	**Baleshwar Khadi**	Proposed Up gradation of CETP GETPL to	Obtained CTE Amendment for zero	0.45	Gujarat Eco Textile Park

	(Priority - V)	achieve ZLD to achieve ZLD	liquid discharge. Site office erection & area leveling is complete. Pre-treatment units 39% complete, tertiary treatment units 70% complete, MBBR tank 60% complete, gabion wall 90% complete and piping work 33% complete. The proposal is for Zero Liquid Discharge. However, the CETP is meeting with the norms.		Limited.
5.	**Bhadar (Priority - I)**	New CETP for washing ghat at Derdi & Monpar (20 MLD)	Obtained CTE amendment from GPCB. RCC work of floor of Aeration tank and excavation work of primary settling tank is completed. Further construction work will be started after getting approval from Ministry of Textile. This is a proposed CETP and no new industry will be permitted until and unless the CETP is commissioned.(Revised time limit 31/12/2022)		
		Expansion/Modification is mentioned as below:- CETP Dhareshwar (Modification): -	Work completed	0.01	Shree Dhareshwar GIDC Vistar Association
		Up gradation of CETP JDPA wrt collection sump	All three newly constructed collection sumps are in operation since September – 2020. No waste water flow in river Bhadar. Additional new activity (was not included in the River Action Plan): Work	0.4	Jetpur Dyeing & Printing Association.

			for separate Common Effluent Treatment Plant for treatment of waste water generated from Textile Mercerizing units is started and expected to be completed within 6 months.		
6.	**Bhogavo (Priority - I)**	No any CETP in the region of Surendranagar and there is no industrial effluent discharge in the Bhogavo river.			
7.	**Damanganga (Priority - IV)**	Expansion of the existing CETP of VGEL from 55 to 70 MLD.	EC for the proposed expansion is awaited. The project will be completed within 6 months from obtaining EC. However, the inlet quantity does not cross the threshold of 55 MLD and the CETP is almost meeting with the norms. However, up-gradation work with installation of 8000 kg/hr capacity spray dryer system, aspirator type jet aerators in aeration tank and UASB reactor-1, 20 nos. of Jet mixers in equalization tank etc. has been carried out.	0.69	Vapi Green Enviro Limited
8.	**Dhadhar (Priority - III)**	There is no any industrial effluent discharge/outlet into Dhadhar river stretch.		---	---
9.	**Khari (Priority - I)**	GIDCs of Naroda, Odhav, Vatva and GVMM are discharging their treated waste water from CETPs in to the MEGA Pipeline which is specifically dedicated for conveyance of Effluent generated from the estates which is ultimately being discharged in River Sabarmati. Hence there is no industrial waste water discharge in to River Khari from these industrial estates.		---	---
10.	**Kim**	There is no industrial wastewater discharge into this river stretch.		---	---

	(Priority - V)				
11.	**Kolak (Priority - IV)**	No any industrial effluent is being discharged into the stretch of River Kolak.		---	---
12.	**Mahi (Priority - IV)**	No any industrial effluent is being discharged into the stretch of River Mahi.		---	---
13.	**Meshwo (Priority - V)**	There is no Industrial wastewater discharge into this river stretch.		---	---
14.	**Mindhola (Priority - V)**	No Industrial wastewater discharge into this River stretch.		---	---
15.	**Narmada (Priority - V)**	No Industrial wastewater discharge into this river stretch.		---	---
16.	**Sabarmati (Priority - I)**	Green Environment Co-Operative So. Ltd., (GECSL) Expn: 16 to 35 MLD	100% installation work for 3 Fanton catalytic reactor is complete and 100% civil work for various treatment units is complete. Trial run for FCR plant is started from 25/06/2021 and it will take one or two months for stabilization. (Revised timeline 31/12/2021)	0.03	Green Environment Services Co-Op. So. Ltd.
		Naroda Enviro Projects Ltd. (NEPL) Expn-: 3 to 14 MLD	Expansion of CETP upto 14 MLD is completed after obtaining EC. Further up-gradation of CETP through Fenton technology, for obtaining GPCB norms at final outlet, is under progress.	0.01	Naroda Enviro Projects Ltd.
		Odhav Enviro Projects Ltd. (OEPL) modification:- Proposed Spray Dryer	Completed the installation of common effluent spray dryer project.	---	---
		Narol Dyestuff Enviro	At present no plan for further expansion	---	---

		Society (NDES) Expn. up to 0.45 MLD	of CETP due to current situation. However, Up-gradation of CETP units is in progress. CETP has ordered online monitoring system for effluent and additional tertiary treatment units, installation of filter press and online DO meter installation work is in progress.		
		Narol Textile Integrated Enviro Management (NTIEM)Expn:- 100 to 130 MLD	Recently completed up-gradation in their CETP to meet with the norms. Average inflow of 70-80 MLD against the 100 MLD capacity of CETP in current situation. Existing CETP is meeting with the norms. Presently no plan for Expansion.	0.22	Narol Textile Integrated Enviro Management
		Ahmedabad Hand Screen Printing Association (AHSPA)- New CETP(30 MLD)	Under construction, 90% civil work completed. (Timeline 28/02/2022)	0.08	Ahmedabad Hand Screen Printing Association
17.	**Shedhi (Priority - IV)**	ETP-Mafatlal Industries Limited Upgradation	ETP up-gradation and commissioning is completed. Stabilization is completed. Treated effluent, meeting with the norms, from the ETP is being discharged into inlet of the STP of Nadiad Nagarpalika and finally discharged into river Shedhi along with the treated sewage from STP of Nadiad Nagarpalika.	0.08	Mafatlal Industries Limited
		CETP Nadiad (0.5 MLD)	Nadiad GIDC association has put up proposal for land allotment to GIDC.	0.05	Nadiad GIDC Association.

			Nadiad GIDC Industries Association vide letter dated 03/02/2021 submitted that the CETP will be made functional within 2 years from allotment of land by GIDC.		
18.	**Tapi (Priority - IV)**	No Industrial wastewater discharge into this river stretch		---	---
19.	**Triveni (Priority - III)**	There is no Industrial effluent discharge into this River stretch.		---	---
20.	**Vishwamitri (Priority - II)**	There is no industrial effluent discharge into the river stretch of Vishwamitri.		---	---

Deep Sea Disposal Pipeline for PRS Sabarmati & Bhadar:

- An unprecedented initiative, deep sea disposal pipeline projects to eliminate Industrial Footprint from River Sabarmati and Bhadar worth Rs. 2147 Crore as stated below have been given approval by State Government vide GR dated 26/11/2019.:
    1. Ahmedabad (Priority I) (300 MLD) (Rs. 1478 Cr.)
    2. Jetpur (Priority I) (80 MLD) (Rs. 669 Cr.)
- For Ahmedabad, 70% contribution of Capex will be from State Government and 30% from industries. For Jetpur, 80% contribution of Capex will be from State Government and 20% from industries. Opex will be entirely borne by the industries.
- State Government has allotted budget of Rs. 500 Cr. for the financial year 2019-2020 for the entire pipeline project.
- Industrial Associations have also deposited their first installment of 10 % of project cost towards capital cost contribution.
- State Government has allotted pipeline projects to Industries & Mines Department and execution of the project will be done by Gujarat Water Infrastructure Ltd (GWIL) as depository work.
- GWIL has floated the tender for Ahmedabad region pipeline on 14/10/2020 which is on hold and Jetpur region pipeline on 02/10/2020.

- In case of Jetpur region, tender is finalized and agency is fixed. Other administrative procedure is going on.
- Originally the project was planned for disposal of effluent in the Gulf of Cambay. As the disposal point falls on the upstream of the proposed Kalpsar Reservoir, an ambitious project of the State - a huge fresh water coastal reservoir for irrigation, now it is required to find an alternative for disposal of effluent. Meetings dated 06/01/2021 and 31/03/2021 were convened under the chairmanship of Hon'ble C.S. to discuss the issues in implementation of deep sea effluent disposal pipeline project for industrial areas of Ahmedabad region. Various alternatives were discussed during the meetings and it was decided that the facts will be brought to the notice of the Government by the Industries Department and a decision by the Government will be taken on way forward.

Annesxure – 1(A)
Details of each existing STP in the State

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP as on October-22	Reason for Non Compliance	Action Taken
1.	Ahmedabad Pirana 2009	60	60	Operational	DNS		
2.	Ahmedabad Old Pirana 2004	106	106	Operational	DNS		
3.	Ahmedabad Pirana 2009	180	180	Operational	DNS		
4.	Ahmedabad Vasna 2004	126	126	Operational	DNS		
5.	Ahmedabad Vasna 2009	35	35	Operational	DNS		
6.	Ahmedabad Vasna 2011	240	235	Operational	DNS		
7.	Ahmedabad Vinzol 2011	70	70	Operational	Non Compliance		NOD 23/11/2022
8.	Ahmedabad Vasna 2018	48	48	Operational	DNS		
9.	Ahmedabad JalViharVadaj2019	60	60	Operational	DNS		
10.	Ahmedabad Vinzol2020	35	30	Operational	Compliance		
11.	Ahmedabad Arvind Mill	8	8	Operational	DNS		
12.	Ahmedabad Rasala	1	1	Operational	DNS		
13.	Ahmedabad Vastrapur Lake	0.5	0.5	Operational	DNS		
14.	Ahmedabad V S Hospital	1	1	Operational	DNS		
15.	Ahmedabad Nikol	0.5	0.5	Operational	---		
16.	Ahmedabad ShahpurShankar Bhuvan 2020	25	20	Operational	DNS		
17.	Ahmedabad Lambha	5	2	Operational	DNS		
18.	Ahmedabad Vinzol 2021	100	-	Operational	Non Compliance	Operating without CCA	
19.	Ahmedabad Pirana2021	155	-	Operational	DNS		
20.	SuratSinganpore 2003/2014/2021	255	147.58	Operational	DNS		
21.	SuratKaranj	140	136.59	Operational	DNS		

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP as on October-22	Reason for Non Compliance	Action Taken
	1999/2015						
22.	SuratBhatar 1999/2014/2017	162	162	Operational	DNS		
23.	SuratAnjana 1995/2007/2019	122	121	Operational	DNS		
24.	SuratBamroli 2008/2019	100	100	Operational	DNS		
25.	SuratBhesan 1995/2009/2020	200	120.52	Operational	DNS		
26.	SuratKhajod 2011/2022	55	30.36	Operational	DNS		
27.	SuratAsarama 2011	15	15	Operational	DNS		
28.	SuratDindoli 2012/2019	167	72.50	Operational	DNS		
29.	SuratVariav-Kosad 2012/2017	134	131	Operational	DNS		
30.	SuratGavier 2016	53	16	Operational	DNS		
31.	Vadodara Tarsali	52	58	Operational	DNS		
32.	Vadodara Gajarawadi	66	72	Operational	DNS		
33.	Vadodara Kapurai	43	30	Operational	DNS		
34.	Vadodara Rajivnagar	78	55	Operational	DNS		
35.	Vadodara Sayaji garden	16	7	Operational	DNS		
36.	Vadodara Channi	21	21	Operational	DNS		
37.	Vadodara Atladara (old)	43	51	Operational	DNS		
38.	Vadodara Atladara (new)	43	43	Operational	DNS		
39.	Vadodara Kapurai (New)	60	22	Operational	DNS		
40.	Vadodara Bhayli Old	05	05	Operational	DNS		
41.	Vadodara Vemali	02	02	Operational	DNS		
42.	Vadodara Bhayli	45	30	Operational			
43.	Vadodara Chhani	50	29	Operational			

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP as on October-22	Reason for Non Compliance	Action Taken
44.	GandhinagarJaspur 2007	76	45	Operational	DNS		
45.	GandhinagarSargasan 2012-13	10	3	Operational	DNS		
46.	GandhinagarBasan 2011-12	2	1	Operational	DNS		
47.	Rajkot Nr Raiya village 2010	51	51	Operational	Compliance		
48.	Rajkot Raiyadhar 2017	56	35	Operational	Compliance		
49.	Rajkot Nr Madhapar 2018	44.5	10	Operational	Non Compliance	No valid CCA	NOD issued on 20/07/2022
50.	Rajkot Nr Kothariya Village 2017	15	11	Operational	Non Compliance		NOD issued on 11/11/2022
51.	Rajkot Gavaridad 2018	70	35	Operational	Compliance		
52.	Rajkot Madhapar 2019	80	65	Operational	Non Compliance	No valid CCA	NOD issued on 20/07/2022
53.	Bhavnagar Nari road, Kumbharwada	30	24	Operational	DNS		
54.	Bhavnagar Behind Excel industries	45	45	Operational	DNS		
55.	Jamnagar NavagamGhed	70	70	Operational	Compliance		
56.	Gandhidham - Anjar	30.00	22	Operational	DNS		
57.	Patan	25.00	13	Operational	DNS		
58.	Nadiad	51.26	20	Operational	DNS		
59.	Siddhpur	5.62	5	Operational	Oxidation Pond		
60.	Vallabh Vidhyanagar	15.00	12	Operational	DNS		
61.	Sanand	20.50	0	Non-Operational	DNS		
62.	Himmatnagar	17.51	6	Operational	DNS		
63.	Petlad	10.37	8	Operational	DNS		
64.	Dholka	13.60	8	Operational	DNS		
65.	Savarkundla	13.90	5	Operational	Oxidation Pond		
66.	Gadhda	6.50	2	Operational	Oxidation Pond		

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP as on October-22	Reason for Non Compliance	Action Taken
67.	Kathlal	3.80	2.59	Operational	Oxidation Pond		
68.	Mahudha	2.10	1.76	Operational	Oxidation Pond		
69.	Bayad	4.00	2.06	Operational	Oxidation Pond		
70.	Patadi	2.80	1.33	Operational	Oxidation Pond		
71.	Sojitra	2.30	2	Operational	Oxidation Pond		
72.	Dwarka	7.50	2.28	Operational	Compliance		
73.	Godhra	27.60	4	Operational	DNS		
74.	Bhuj	23.70	19	Operational	DNS		
75.	Bhachau	10	4	Operational	DNS		
76.	Anand-1	33	9	Operational	DNS		
77.	Anand-2	13.5	2.5	Operational	DNS		
78.	Surendranagar	32.3	17	Operational	DNS		
79.	Valsad-1	20.2	2	Operational	Site not visited		
80.	Morbi-1	28.8	6	Operational	Site not visited		
81.	Jasdan	8.80	4	Operational	Under trial run		
82.	Tharad	4.80	2.5	Operational	DNS		
83.	Dehgam	7.60	4	Operational	DNS		
84.	Dhangadhra	11.60	3	Operational	DNS		
85.	Porbandar-2	19.10	5	Operational	DNS		
86.	Bardoli	11.30	0	Under Trial Run			
87.	Vyara	6.50	1.50	Operational	DNS		
88.	ChhotaUdepur	5.00	1.5	Operational	DNS		
89.	Borsad	9.80	3	Operational	DNS		
90.	Idar	7.40	2.5	Operational	DNS		
91.	Visnagar-1	12.00	4	Operational	Compliance		
92.	Dahod	13.70	4	Operational	DNS		
93.	Zalod	4.60	1.5	Operational	DNS		
94.	Deesa	17	12	Operational	DNS		
95.	Mahuva	16.30	3.5	Operational	DNS		

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP as on October-22	Reason for Non Compliance	Action Taken
96.	Prantij	3.70	1.0	Operational	DNS		
97.	Khedbrahma	5.8	2.0	Operational	DNS		
98.	Bareja	3.10	-	Operational	Non Compliance	Not obtained CTE/CCA	
99.	Kheralu	2.90	-	Operational	Non Compliance		NOD issued
100.	Una	11.70	-	Operational	DNS		
101.	Morbi-2	9.30	-	Operational	Site not visited		
102.	Padra	5.60	-	Operational	DNS		
103.	Amreli	18.20	-	Operational	DNS		
104.	Dhandhukha	7.50	-	Operational	DNS		
105.	Umreth	6.10	-	Operational	DNS		
106.	Jetpur	23.50	-	Operational			
107.	Botad	32.00	-	Operational	DNS		
108.	Bantva	2.60	-	Operational	DNS		
109.	Visnagar-2	5.30	-	Operational	Compliance		
110.	Vijapur	4.10	-	Operational	Non Compliance		
111.	Kadi	12.80	-	Operational	Compliance		
112.	Ode	2.5	-	Operational	DNS		
113.	JunagadhBilkha Road, near CBSE School	8.2	-	Under Trial Run			
114.	Unjha	11.60	-	Operational	Compliance		
115.	Anklav	3.60	-	Operational	DNS		
116.	Devgadhbariya	3.80	-	Operational	DNS		
117.	Santrampur	2.91	-	Operational	DNS		
118.	Bavla	5.80	-	Operational	DNS		
119.	Viramgam	4.50	-	Operational	DNS		
120.	Karjan	5.20	-	Under Trial Run			
121.	Mehmdabad	5.60	-	Operational			
122.	Kheda	5.20	-	Operational			

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP as on October-22	Reason for Non Compliance	Action Taken
123.	SuratBhatar	115	-	Under Trial Run			
124.	SuratBamroli	115	-	Under Trial Run			
125.	SuratAsarma	22.5	-	Under Trial Run			
126.	Chalala	2.80	-	Operational			
127.	Kanjari	3.3	-	Operational			
128.	Kapadwanj	6.20	-	Operational			
129.	Mansa	5.0	-	Operational			
130.	Kaalol (P)	4.77	-	Operational			
131.	Thangadh	9.00	-	Under Trial Run			
132.	Dhanera	4.00	-	Under Trial Run			
133.	Harij	3.00	-	Under Trial Run			
Total		**4812.54**	**3087.07**				

*DNS – Details not submitted

New STPs under trial run:

134.	Visavadar	3.40	-	Operational			
135.	Chorvad	3.70	-	Operational			
136.	Bagasara	5.90	-	Under Trial Run			
137.	Rajula	5.70	-	Under Trial Run			
138.	Babra	4.00	-	Under Trial Run			
139.	Sikka	2.90	-	Under Trial Run			
140.	Jambusar	5.90	-	Under Trial Run			
141.	Amod	3.10	-	Under Trial Run			
142.	Bilimora	8.30	-	Under Trial Run			
Total		**42.9**	-				

Total Capacity of existing STPs = 4812.54 + 42.9 = 4855.44 MLD

Annexure – 1(B)

Details of under construction STPs in the State

No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
1.	Ahmedabad Maleksaban	30	95%	Completed	31/03/2023
2.	Ahmedabad Saijpur lake	07	25%	Completed	31/12/2023
3.	Ahmedabad Kotarpur	60	70%	Completed	31/03/2023
4.	Ahmedabad Dafnala	25	04%	Completed	31/10/2023
5.	SuratKaranj	71	25%	Completed	31/01/2024
6.	SuratVariav-Kosad	86	27%	Completed	31/01/2024
7.	Vadodara Vemali new	13	46%	Completed	30/07/2023
8.	Vadodara Atladra new	84	05%	Completed	31/12/2023
9.	Vadodara Tarsali new	100	05%	Completed	31/12/2023
10.	Rajkot Kothariya, on NH bypass	15	95%	Completed	31/12/2022
11.	Rajkot Raiyadhar	8.00	45%	Completed	30/06/2023
12.	Bhavnagar Axcel Industries	50	90%	Completed	31/12/2022
13.	Bhavnagar Akwada	19.2	45%	Completed	16/02/2023
14.	GandhinagarSargasan	50	0.00%	Completed	31/12/2023
15.	JunagadhKalva	15.50	10%	40%	31/12/2023
16.	JunagadhZanzarda	11.00	10%	40%	31/12/2023
17.	Karamsad	7.00	96%	Completed	31/03/2023
18.	Shehra	2.80	92%	Completed	31/03/2023
19.	Khambhat-1	6.80	78%	Completed	31/05/2023
20.	Khambhat-2	4.50	92%	Completed	31/03/2023
21.	Savli	2.5	24%	Completed	31/07/2023
22.	Dabhoi	8.96	86%	Completed	31/04/2023
23.	Balasinor	6.50	73%	Completed	31/03/2023
24.	Lunawada	5.60	85%	Completed	31/03/2023
25.	Boriavi	3.30	80%	Completed	31/03/2023
26.	Halol	12.35	45%	50%	21/07/2023
27.	Dakor	4.90	5%	Completed	31/12/2023
28.	Chotila-1	2.30	71%	Completed	31/03/2023
29.	Chotila-2	1.70	73%	Completed	31/03/2023
30.	Barwala	2.90	61%	Completed	31/05/2023
31.	Chaklasi	4.90	0%	Completed	31/12/2023
32.	Radhanpur	6.00	76%	Completed	31/05/2023
33.	Bhabhar	3.50	93%	Completed	31/03/2023
34.	Thara	3.60	90%	Completed	31/03/2023
35.	Vadali	3.80	90%	Completed	31/03/2023
36.	Talod	3.60	90%	Completed	31/03/2023
37.	Chanasma	2.50	65%	Completed	16/05/2023
38.	Modasa	12.0	0%	35%	31/12/2023
39.	Gondal	16.50	73%	Completed	31/05/2022
40.	Halvad	7.1	14%	Completed	19/10/2023
41.	Dhoraji	12.90	72%	Completed	31/03/2023
42.	Jamjodhpur	3.60	82%	Completed	31/03/2023
43.	Wankaner	5.80	48%	Completed	29/07/2023

44.	Bhachau	5.5	95%	Completed	31/03/2023
45.	Bhanvad	3.00	53%	Completed	31/06/2023
46.	Khambhalia	5.50	56%	Completed	31/06/2023
47.	Salaya, Jamnagar	6.20	76%	Completed	31/03/2023
48.	Dhrol	3.60	85%	Completed	31/03/2023
49.	Kalavad	4.50	90%	Completed	31/03/2023
50.	Rapar	5.2	89%	Completed	31/03/2023
51.	Okha	10.10	56%	Completed	25/06/2023
52.	Bhayavadar	3.10	53%	Completed	26/06/2023
53.	Beyt (near Okha)	1.00	05%	Completed	09/09/2023
54.	Ranavav-1 (Adityana)	3.00	0.00%	Completed	15/12/2023
55.	Ranavav-2	4.50	0.00%	Completed	15/12/2023
56.	Kutiyana	2.90	0.00%	Completed	15/12/2023
57.	Porbandar-Chhaya	13.10	0.00%	Completed	19/02/2023
58.	Mandvi-1 (JT Grounds)	5.30	3%	Completed	14/08/2023
59.	Mandvi-2 (Salaya)	3.20	1%	Completed	14/08/2023
60.	Maliya	2.50	0.00%	Completed	11/12/2023
61.	Talaja	5.80	95%	Completed	31/03/2023
62.	Lathi	3.80	0.00%	Completed	15/12/2023
63.	Damnagar	2.80	0.00%	Completed	15/12/2023
64.	Keshod	13.30	65%	Completed	31/06/2023
65.	Palitana	10.81	51%	Completed	31/05/2023
66.	Manavadar	4.90	90%	Completed	31/03/2023
67.	Kodinar	5.60	70%	Completed	31/05/2023
68.	Vallabhipur	2.30	01%	Completed	31/03/2023
69.	Shihor	8.9	87%	Completed	18/05/2023
70.	Sutrapada	4.00	68%	Completed	31/05/2023
71.	Talala	3.80	68%	Completed	31/05/2023
72.	Gariyadhar	7.1	78%	Completed	31/03/2023
73.	Jafrabad	5.4	0.00%	Completed	24/04/2023
74.	Dharampur	4.10	87%	Completed	31/03/2023
75.	Gandevi	2.60	85%	Completed	31/03/2023
76.	Rajpipla	5.5	91%	Completed	31/03/2023
77.	Umargam	6.48	35%	Completed	15/05/2023
78.	MandviSurat	3.50	97%	Completed	28/02/2023
79.	Pardi	4.60	0.00%	Completed	31/12/2023
80.	Ankleshwar	14.00	38%	Completed	27/09/2023
81.	Songadh	4.5	55%	Completed	03/06/2023
82.	Tarsadi	7.00	0.00%	Completed	30/09/2023
83.	Anand-3	6.50	95%	Completed	31/12/2022
84.	Bharuch	29.32	97%	96%	31/12/2022
85.	Kalol	23.50	20%	Completed	30/06/2023
86.	Palanpur	21.30	5%	95%	30/06/2023
87.	Porbandar-1	12.80	95%	Completed	31/12/2022
88.	Vapi-1	14.00	100%	Completed	30/11/2022
89.	Vapi-2	29.53	100%	Completed	31/12/2023
90.	Vadnagar	5.94	97%	Completed	31/12/2022

Total Capacity of STPs under construction = 1049.86 MLD

Annexure – 1(C)
Details of proposed STPs in the State

No.	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
1.	Ahmedabad Koteshwar	60	Tender to be invited	31/12/2023
2.	Vadodara Atladara	84	Tender Under Evaluation	31/12/2023
3.	Vadodara Tarsali	100	Tender Online	31/12/2023
4.	Vadodara Gajarawadi	130	DPR under scrutiny	31/12/2023
5.	GandhinagarBhat	25	DTP under approval	31/12/2023
6.	GandhinagarPethapur	12	DTP under approval	31/12/2023
7.	Jamnagar Nr Rangmati River	50	DPR/DTP stage	31/12/2023
8.	Junagadh Nr Lol River	29.50	Work order Given	31/12/2023
9.	Veraval- Patan	33.90	Tender Online	31/12/2023
10.	Vijalpor - Navsari	47.40	LoI issued	31/03/2023
11.	Thasra	2.30	Tender to be invited	31/12/2023
12.	Jamraval	2.60	Tender to be invited	31/12/2023
13.	Valsad-2	15.00	DPR approved	31/03/2023
14.	Mahesana-1	23.18	Tender approved	31/03/2023
15.	Mahesana-2	18.46	Tender approved	31/03/2023
16.	Mangrol	13.2	Under Administrative Approval	31/12/2023
17.	Vanthli	2.2	DPR/DTP stage	31/12/2023
18.	Limdi	7.4	DPR/DTP stage	31/12/2023
19.	Upleta	8.0	DPR/DTP stage	31/12/2023
20.	Kadodara	-	DPR/DTP stage	31/12/2023
21.	SMC (KanakpurKansad)	7.80	DPR/DTP stage	31/12/2023
22.	Rajkot Raiya	23	DPR under preparation	31/12/2024
23.	Rajkot Ghanteshwar	15	DPR under preparation	31/12/2024
24.	Surat Pal West Zone	32.14	DPR under preparation	01/12/2025
25.	Vadodara Undera	21	DPR under preparation	30/06/2024
26.	Vadodara Sherkhi	60	DPR under preparation	30/08/2024
27.	Vadodara Tarsali	60	DPR under preparation	30/12/2024
28.	Patan	25	DPR under preparation	30/10/2025
29.	Amreli	8	DPR under preparation	30/06/2024
30.	Surendranagar	15	DPR under preparation	31/10/2024

Total Capacity of Proposed STPs = 931.08 MLD.

Annexure-II

XIII. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river

1. Amlakhadi

(A)

Progress/Status Report of the River/PRS water quality monitoring for the Month November -2022:

Sr. No.	Month/ Date	Location ID	Name of Location	Parameter					
				pH	DO (mg/l)	BOD (mg/l)	COD (mg/l)	Fecal coliform (MPN/ 100ml)	Total coliform (MPN/100 ml)
1	June-2021	33440	Low Level Bridge	7.35	0.77	6	28	>1600	>1600
		32618	Pungam	7.53	1.34	6	32	70	280
2	July-2021	33440	Low Level Bridge	7.3	BDL	20	53	>1600	>1600
		32618	Pungam	7.28	0.12	16	90	94	350
3	August-2021	33440	Low Level Bridge	7.84	BDL	6	29	>1600	>1600
		32618	Pungam	7.44	1.26	5	28	>1600	>1600
4	September-2021	32522	Low Level Bridge	7.27	BDL	12	57	>1600	>1600
		32518	Pungam	7.18	0.74	23	126	>1600	>1600
5	October-2021	32522	Low Level Bridge	7.81	3.42	5	28	>1600	>1600
		32518	Pungam	7.69	5.2	4.38	29	920	>1600
6	November-2021	32522	Low Level Bridge	7.47	3.56	3.15	35	>1600	>1600
		32518	Pungam	7.44	3.89	<5	11	540	1600
7	December-2021	32522	Low Level Bridge	7.31	3.77	2.25	20	1600	>1600
		32518	Pungam	7.81	4.19	2.70	7	1600	>1600
8	January-2022	32522	Low Level	7.87	BDL	22	88	>1600	>1600

			Bridge						
		32518	Pungam	7.97	5.01	2.08	10	920	1600
9	February-2022	32522	Low Level Bridge	7.51	BDL	27	118	920	>1600
		32518	Pungam	7.67	BDL	24	109	920	>1600
10	March-2022	32522	Low Level Bridge	8.06	BDL	6	25	>1600	>1600
		32518	Pungam	7.6	BDL	12	61	>1600	>1600
11	April-2022	32522	Low Level Bridge	7.77	BDL	11	53	210	940
		32518	Pungam	7.62	BDL	11	40	110	220
12	May-2022	32522	Low Level Bridge	7.56	BDL	19	85	540	920
		32518	Pungam	7.65	BDL	17	70	920	>1600
13	June-2022	32522	Low Level Bridge	7.04	1.62	06	40	>1600	>1600
		32518	Pungam	7.51	3.03	06	37	280	540
14	July-2022	32522	Low Level Bridge	7.46	BDL	28	121	>1600	>1600
		32518	Pungam	7.57	BDL	12	54	>1600	>1600
15	August-2022	32522	Low Level Bridge	7.28	BDL	11	48	350	940
		32518	Pungam	7.51	BDL	10	48	540	1600
16	September-2022	32522	Low Level Bridge	7.36	1.02	6	30	>1600	>1600
		32518	Pungam	7.33	5.80	2.08	17	>1600	>1600
17	October-2022	32522	Low Level Bridge	7.52	BDL	50	211	>1600	>1600
		32518	Pungam	7.60	BDL	8	34	540	920
18	November-2022	32522	Low Level Bridge	7.54	3.08	<5	32	>1600	>1600
		32518	Pungam	7.75	BDL	8	32	>1600	>1600

(B)

Progress /Status Report for Ground water quality monitoring pertaining to PRS River for November -2022:

Location ID	Name of Location	Parameter										* HM- NA-Not Analyzed till date
		pH	BOD (mg/l)	COD (mg/l)	Cu mg/l	T.Cr. mg/l	H.Cr. mg/l	Fe mg/l	Pb mg/l	Mn mg/l	Ni mg/l	Zn mg/l
50634	Gujarat Gas Office, Umervada	7.52	<5	5	0.038	BDL	BDL	0.184	BDL	NA	0.042	0.062
50635	Vill. Juna Pungam	8.03	<5	5	0.042	BDL	BDL	0.268	BDL	NA	BDL	BDL
	Vill. Bhadkodra	--	--	--	--	--	--	--	--	--	--	--
	Vill. Kosmadi	--	--	--	--	--	--	--	--	--	--	--
	Piraman Gram Panchayat	--	--	--	--	--	--	--	--	--	--	--
	Vill. Sakarporbhatha	--	--	--	--	--	--	--	--	--	--	--

*NA-Not analyzed

(C) Drains Details with Flow:

Sr. No.	Location	Name of Inletting River/Drain	Discharge MLD	
			Max	Min
1	GIDC AnkleshwarValiaChokdi	Ankleshwar GIDC STP w/wstream/Ankleshwar GIDC drain*	7.5	3
2	Ankleshwar Station side drain	Ankleshwar Station side drain nr Low level bridge	0.5	0.2
3	Piraman village	Domestic w/w stream of Piraman village	0.25	0.1
4	Ankleshwar Nagar Palika Oxidation pond overflow	Ankleshwar Town drain	6.45	2.01
5	Ankleshwar Nagar Palika Juna Diva	Juna Diva Drain	0.5	0
6	Ankleshwar Nagar Palika SurtiBhagor drain	SurtiBhagor drain	0.05	0

(D)

STP & CETP results:
STP Results: Not Applicable
CETP Results: There is no industrial wastewater discharge into Amalakhadi.

2. Amravati

(A)

Progress/Status Report of the River/PRS water quality monitoring for the Month November -2022:

Sr. No.	Month/ Date	Location ID	Name of Location	Parameter					
				pH	DO (mg/l)	BOD (mg/l)	COD (mg/l)	Fecal coliform (MPN/ 100ml)	Total coliform (MPN/100 ml)
1	June-2021	43527	At village Dadhal	8.01	7.24	1.13	5	33	130
2	July-2021	43527	At village Dadhal	8.09	7.78	0.98	5	46	170
3	August-2021	43527	At village Dadhal	7.82	6.81	1.22	6	49	130
4	September-2021	83880	At village Dadhal	7.62	6.47	1.42	10	94	170
5	October-2021	83880	At village Dadhal	8.26	7.04	1.14	6	13	79
6	November-2021	83880	At village Dadhal	8.14	7.63	1.26	6	94	170
7	December-2021	83880	At village Dadhal	8.03	8.02	1.42	6	70	110
8	January-2022	83880	At village Dadhal	8.15	6.98	1.74	6	94	170
9	February-2022	83880	At village Dadhal	8.14	7.06	1.70	6	33	140
10	March-2022	83880	At village Dadhal	7.76	6.96	1.78	7	33	140
11	April-2022	83880	At village Dadhal	7.59	7.02	1.24	6	27	140
12	May-2022	83880	At village Dadhal	8.04	7.08	1.27	6	30	110
13	June-2022	83880	At village Dadhal	7.91	4.83	2.27	25	33	140
14	July-2022	83880	At village Dadhal	7.75	4.91	2.08	18	12	170
15	August-2022	83880	At village Dadhal	8.2	7.06	0.96	6	46	170
16	September-2022	83880	At village Dadhal	7.99	7.26	1.62	6	14	130
17	October-2022	83880	At village Dadhal	8.27	7.32	1.54	5	47	140
18	November-2022	83880	At village Dadhal	7.97	7.42	1.56	6	79	130

(B)

Progress /Status Report for Ground water quality monitoring pertaining to PRS River for November -2022:

Location ID	Name of Location	Parameter										
		pH	BOD (mg/l)	COD (mg/l)	Cu mg/l	T.Cr. mg/l	H.Cr. mg/l	Fe mg/l	Pb mg/l	Mn mg/l	Ni mg/l	Zn mg/l
50637	Jitali Water works	NA										

*NA-Not analyzed

(C) Drains Details with Flow:

Sr. No	Location	Name of Inletting River/Drain	Discharge *(Cusec)	
			Max	Min
1	Limbet Gram Panchayat- Ta. Jhagadia	Domestic w/w drain pipe line outlet in to River Amravati	0.1878	0.1
2	HiraporGramPanchayat- Ta. Valia	Domestic w/w drain pipe line outlet in to River Amravati	0.2120	0.1
3	Sangpur Gram Panchayat- Ta. Ankleshwar	Domestic w/w drain pipe line outlet in to River Amravati	0.2884	0.2
4	Pardi (Pardi-Piplod Group Gram Panchayat)- Ta. Ankleshwar	Domestic w/w drain pipe line outlet of Pardi in to River Amravati	0.0633	0.03
5	Piprod (Pardi-Piplod Group Gram Panchayat)- Ta. Ankleshwar	Domestic w/w drain pipe line outlet of Piprod in to River Amravati	0.0656	0.03
6	Avadar Gram Panchayat- Ta. Ankleshwar	Domestic w/w drain pipe line outlet in to River Amravati	0.1440	0.1
7.	Dadhal Gram Panchayat- Ta. Ankleshwar	Domestic w/w drain pipe line outlet in to River Amravati	0.3991	0.4

(D) STP & CETP results

Not Applicable

3. Anas

(A)

Progress/Status Report of the River/PRS water quality Monitoring (November– 2022):

Sr. No.	Month/ Date	Location ID	Name of Location	Parameter						
				pH	DO (mg/l)	BOD (mg/l)	COD (mg/l)	Fecal coliform (MPN/ 100ml)	Total coliform (MPN/100 ml)	TDS (mg/l)
1	June-2021		River Anas at Limdi (Zalod)-Kushalgadh road, Vill.Chakaliya, Dist.Dahod.	8.17	8.7	0.8	7.0	7.8	70	
2	July-2021		As above	7.83	7.4	0.5	6.0	6.0	63	
3	August-2021		As above	7.78	7.2	0.7	5.0	2.0	39	278
4	September-2021		As above	7.70	8.4	0.7	5.0	<1.8	34	288
5	October-2021		As above	8.45	8.3	0.7	6.0	<1.8	40	296
6	November-2021		As above	8.33	8.1	0.5	6.0	<1.8	40	240
7	December-2021		As above	8.45	8.5	0.5	7.0	4.0	64	274
8	January-2022		As above	8.41	8.5	0.6	6.0	2.0	33	308
9	February-2022		As above	8.49	8.4	0.6	7.0	2	27	350
10	March-2022		As above	8.29	8.5	0.6	9.0	4	33	446
11	April-2022		As above	8.49	6.6	0.7	9.0	6.8	47	428
12	May-2022		As above	8.48	8.0	0.7	7.0	2.0	33	422
13	June-2022		As above	8.12	7.8	0.8	8.0	2.0	21	466
14	July-2022		As above	8.49	7.0	0.7	8.0	2.0	27	350
15	August-2022		As above	8.26	7.9	0.8	5.0	4.0	12	402
16	September-2022		As above	8.49	7.3	0.6	7.0	4.0	27	208
17	October-2022		As above	8.49	7.5	0.7	5.0	2.0	27	226
18	November-2022		As above	8.28	7.7	0.7	6.0	4.0	21	206

Note: Does not fall in any Priority as per the MPRs of June-2020 to November-2022.

(B)

STPs Results

Parameter	Dahod STP (05/09/2022)	Jhalod STP (05/09/2022)
Temp	27	27
pH	8.62	8.93
SS (mg/L)	18	20
TCO (MPN/100 ml)	110	540
FCO (MPN/100 ml)	63	350
BOD (mg/L)	14	14

(C)

Drain details with flow:

Sr.No.	Location	Name of Inletting River/Drain	Discharge (MLD)	
			Max.	Min.
1	Mandavav Bridge, Mandavav - Dhamarada Road, Dahod.	River Khan	--	--
2	Kharasana Bridge, Zalod – Thunthikankachiya Road, Dist. Dahod. (Zalod)	River Machhananala	--	--

(D) CETPs Results

Not Applicable. As there is no discharge of industrial effluent in identified stretch of River Anas, there is no existing/ proposed CETP.

(E)

Progress /Status Report for Ground water quality monitoring pertaining to PRS River (November-2022):

Sampling Point	BOD (mg/L)	COD (mg/L)	DO (mg/L)	FCO (MPN/100 ml)	pH	TCO (MPN/100 ml)	TDS (mg/L)
Hand Pump Opp. M/S Star Rediator, Chakaliya Road, Gidc, Dahod, Dist. Dahod	0.7	13	4.2	<1.8	8.41	<1.8	1024
Well At Hindu Dharamashala, Station Road, Dahod	0.8	12	5.6	<1.8	8.49	<1.8	490

4. Baleshwar Khadi

(A)

Progress/Status Report of the River/PRS water quality Monitoring (November- 2022)

Sr. No.	Month/ Date	Location ID	Name of Location	Parameter					
				pH	DO (mg/l)	BOD (mg/l)	COD (mg/l)	Fecal coliform (MPN/ 100ml)	Total coliform (MPN/100 ml)
1	June-2021		Baleshwar Khadi	8.41	5.1	2.5	20	540	>1600
2	July-2021		Baleshwar Khadi	7.68	5.0	2.7	13	1600	>1600
3	August-2021		Baleshwar Khadi	7.69	5.1	2.3	12	920	>1600
4	September-2021		Baleshwar Khadi	7.69	5.3	2.2	14	920	>1600
5	October-2021		Baleshwar Khadi	7.65	5.7	1.6	7	170	540
6	November-2021		Baleshwar Khadi	7.82	5.2	2.7	8	220	920
7	December-2021		Baleshwar Khadi	7.85	6.7	1.4	12	210	920
8	January-2022		Baleshwar Khadi	8.05	4	2.8	15	540	>1600
9	February-2022		Baleshwar Khadi	8.11	4.4	2.7	16	540	>1600
10	March-2022		Baleshwar Khadi	8.22	6	2.1	14	110	>1600
11	April-2022		Baleshwar Khadi	7.82	5.7	1.8	14	130	>1600
12	May-2022		Baleshwar Khadi	7.84	5.2	2.4	12	150	920
13	June-2022		Baleshwar Khadi	7.74	5.5	2.5	12	920	>1600
14	July-2022		Baleshwar Khadi	7.8	5.3	2.5	24	54	>1600
15	August-2022		Baleshwar Khadi	8.42	5.4	2.3	20	920	>1600
16	September-2022		Baleshwar Khadi	8.22	6.8	2.2	14	1600	>1600
17	October-2022		Baleshwar Khadi	8.02	6.2	2.3	18	920	>1600
18	November-2022		Baleshwar Khadi	8.33	5.6	1.6	10	1600	>1600

Note: Does not fall in any Priority as per the MPRs of June-2020 to November – 2022.

(B) STP results

No existing STPs into this River stretch

(C) Drain details

Sr.No.	Name of Drain/Location	Discharged	
		Max	Min
1	Bagumara-Gangadhara	0.3 MLD	0.1 MLD
2	Baleshwar-Samrod	114 MLD	50 MLD

(D) Details of existing CETPs result

*** All the industries are CETP members having primary ETP facility.**

Date	Name of CETP	pH	BOD (mg/l)	COD (mg/l)	O&G (mg/l)	SS (mg/l)	NH3N (mg/l)	Phenolic Compounds (mg/l)
14/11/2022	CETP Of Gujarat Eco Textile Park Ltd	8.15	25	215	4.4	32	8.57	0.42
Standard		6.5 to 8.5	30	250	-	<60	50	1
14/11/2022	CETP Of New PalsanaIndustrial Co-Op. Society Ltd.	7.94	21	179	3.6	24	7.71	0.2
Standard		6.5 to 8.5	30	250	-	<60	50	1

(E) Progress/Status Report of the River/PRS ground water quality Monitoring:

Location:-BorewellAt Lucky Filling Station Palasana

Date	ALK	BOD	BOR	CHL	CND	COD	COL	DOX	FCO	MAG	NH3	NIT	NTR	pH	PHO	POT	SOD	SS	SUP	T.H	TCO	TDS	TKN	TMP
01/04/2021	420	0.8	0.09	92	1405	11	--	--	<2	43.8	0.84	--	0.8	8.5	0.13	0.85	25.7	12	27	270	<2	856	2.8	30
04/10/2021	320	2.1	0.058	175	1256	8	--	4.6	<2	46.21	0.28	--	0.054	8.35	0.131	1.45	26.73	2	82	290	<2	762	0.558	30
01/04/2022	320	1.4	0.092	270	1266	11	--	--	<2	46.64	0.28	--	0.046	8.02	0.046	1.3	23.7	4	78	300	<2	784	0.56	31
02/10/2022	280	1.4	0.187	265	1276	8	--	--	<2	38.91	0.29	--	0.04	8.46	0.108	0.8	19	8	78	240	<2	766	0.57	29

Location:-Borewell At Primary Health Center (PHC)

Date	ALK	BOD	BOR	CHL	CND	COD	COL	DOX	FCO	FLU	MAG	NH3	NIT	NTR	pH	PHO	POT	SOD	SS	SUP	T.H	TCO	TDS	TKN
01/04/2021	400	0.8	0.08	238	2096	10	--	--	<2	0.22	63.2	0.56	--	0.4	8.0	0.17	1.27	38.4	20	31	390	<2	1278	1.12
04/10/2021	280	2	0.093	260	1886	6	--	4.8	<2	0.54	70.53	0.28	--	0.07	8.34	0.097	2.18	40.13	2	122	430	<2	1146	0.558
01/04/2022	430	1.6	0.099	390	2155	8	--	--	<2	0.27	80.26	0.28	--	0.05	7.73	0.049	2.2	40.3	4	113	510	<2	1146	0.56
02/10/2022	400	1.5	0.145	425	2040	6	--	--	<2	0.25	58.37	0.29	--	0.050	8.33	0.090	1.2	31	12	122	370	<2	1224	0.57

5. Bhadar

(A)

Progress/Status Report of the River/PRS water quality monitoring for the Month November-2022:

Sr. No.	Month/ Date	Location ID	Name of Location	Parameter					
				pH	DO (mg/l)	BOD (mg/l)	COD (mg/l)	Fecal coliform (MPN/ 100ml)	Total coliform (MPN/100 ml)
1	June-2021	31211	Dublipat	8.26	BDL	18	54.37	150	540
2	July-2021	31211	Dublipat	8.23	BDL	22	72	220	540
3	August-2021	31211	Dublipat	7.87	BDL	6	29.6	210	540
4	September-2021	31211	Dublipat	7.45	6	2.6	18.38	170	540
5	October-2021	31211	Dublipat	7.59	6.2	2.3	8	110	350
6	November-2021	31211	Dublipat	7.86	5.9	2.4	10.4	140	350
7	December-2021	31211	Dublipat	8.38	BDL	14	55	150	350
8	January-2022	31211	Dublipat	8.02	BDL	9	34	140	350
9	February-2022	31211	Dublipat	8.50	BDL	21	62	170	350

10	March-2022	31211	Dublipat	8.18	BDL	69	202	350	920
11	April-2022	31211	Dublipat	8.26	BDL	39	128	350	920
12	May-2022	31211	Dublipat	7.91	4.1	25.45	147	540	920
13	June-2022	31211	Dublipat	7.67	3.1	7.75	42.14	350	920
14	July-2022	31211	Dublipat	7.98	5.8	2.4	14.15	280	920
15	August-2022	31211	Dublipat	7.61	2.0	13	39.60	220	920
16	September-2022	31211	Dublipat	6.79	6.1	2.2	10.67	240	920
17	October-2022	31211	Dublipat	8.10	4.8	4.0	21.20	170	540
18	November-2022	31211	Dublipat	8.42	5.5	2.5	15.05	140	540

(B) Progress /Status Report for Ground water quality monitoring pertaining to PRS River:

Location	Sampling date	BOD	COD	TDS	pH
Bore well of P. K. Patel	02/11/2022	1.1	7.50	928	7.55

(C) Drains Details with Flow:

Sr. No.	Location (Latitude and longitude)	Discharge (MLD)	
		Max	Min
1	Opp. Bhadar Stone Crusher	02	01
2	Sarang Nallah	00	00
3	Behind Gondra area	02	01
4	Behind Kabrastan	1.5	0.5
5	Near railway bridge	00	00
6	Maghedi Vokda	00	00

(D) STP & CETP results.

Sr. No.	Name of STP/CETP	Discharge Norms		November -2022 Results	
1	CETP of Jetpur Dyeing & Printing Association (PCB ID-19722)	DO (mg/l)	--	DO (mg/l)	---
		pH	6.5 to 9	pH	8.07
		BOD (mg/l)	100	BOD (mg/l)	69
		COD (mg/l)	250	COD (mg/l)	211
		Total coliform (MPN/ 100ml)	-	Total coliform (MPN/ 100ml)	---
		Fecal coliform (MPN/100 ml)	-	Fecal coliform (MPN/100 ml)	---
2	CETP of Shri Dhareshwar GIDC Vistar Assocation (PCB ID-20111)	DO (mg/l)	--	DO (mg/l)	--
		pH	6.5 to 9	pH	7.45
		BOD (mg/l)	30	BOD (mg/l)	60
		COD (mg/l)	100	COD (mg/l)	186
		Total coliform (MPN/ 100ml)	-	Total coliform (MPN/ 100ml)	---
		Fecal coliform (MPN/100 ml)	-	Fecal coliform (MPN/100 ml)	---
3	STP of Jetpur Dyeing and Printing Association (PCB ID-39298).	DO (mg/l)	--	DO (mg/l)	---
		pH	6.5 to 9	pH	8.21
		BOD (mg/l)	30	BOD (mg/l)	32
		COD (mg/l)	--	COD (mg/l)	121
		Total coliform (MPN/ 100ml)	-	Total coliform (MPN/ 100ml)	--
		Fecal coliform (MPN/100 ml)	< 1000	Fecal coliform (MPN/100 ml)	--

6. Bhogavo

(A)

Progress/Status Report of the River/PRS water quality monitoring for the Month November- 2022:

Sr. No.	Month/ Date	Location ID	Name of Location	Parameter					
				pH	DO (mg/l)	BOD (mg/l)	COD (mg/l)	Fecal coliform (MPN/ 100ml)	Total coliform (MPN/100 ml)
1	June-2021		D/S of Surendranagar City, Near Wadhvan Bridge	8.38	1.5	6	26.04	43	94
2	July-2021			7.86	2.5	3.8	18.28	43	120
3	August-2021			8.21	4.0	2.6	13.2	43	140
4	September-2021	29538		7.73	3.5	1.4	14.4	38	110
5	October-2021	29538		7.56	5.8	2.1	10	20	63
6	November-2021	29538		7.87	5.6	2.2	11.44	26	70
7	December-2021	29538		7.81	5.9	1.75	11.6	23	79
8	January-2022	29538		7.89	4.5	2.4	14.4	46	94
9	February-2022	29538		7.88	6.4	2.2	9.94	49	110
10	March-2022	29538		7.81	6.1	2.4	13.95	33	79
11	April-2022	29538		8.11	4.0	1.3	17.40	46	NA
12	May-2022	29538		8.13	3.8	1.71	25.2	46	120
13	June-2022	29538		7.83	2.1	4.16	27.2	70	170
14	July-2022	29538		7.83	5..2	2.7	17.40	110	280
15	August-2022	29538		7.57	3.5	06	22	94	220
16	September-2022	29538		8.48	6.1	2.3	13.84	79	170
17	October-2022	29538		8.24	5.5	2.2	11.91	63	170
18	November-2022	29538		8.08	5.9	2.3	10.73	49	140

(B)

Progress /Status Report for Ground water quality monitoring pertaining to PRS River (November-2022):

Location of sample collected	WATER PROJECT EMP PROGRAM BORE WELL WATER SAMPLE OF M/s BHAVANI PLASTIC GIDC WADHWAN – MONTHLY (29544)	
Sample ID	363613	
Date of sample collection	01-11-2022	
Parameter	**Unit**	**Result**
Arsenic	mg/l	NA
BOD	mg/l	1.1
COD	mg/l	7.16
Copper	mg/l	NA
pH	pH units	7.80
TDS	mg/l	1972
Iron	mg/l	NA
Lead	mg/l	NA
Mercury	Ppb	NA
Nickel	mg/l	NA
Zinc	mg/l	NA

(C) Drains Details with Flow:

Total no. of drains = 05

Sr. No.	**Location**	**Discharge (MLD)**	
		Max.	Min.
1	Kumbharpara	0.80	0.10
2	Naklangpara	1.00	0.15
3	Near Shradhdha Hotel	0.50	0.10
4	Nr. Bari Darwaja	0.90	0.15
5	Vadhwan Bridge	0.40	0.05

(D) STP & CETP results

Not Applicable

7. Damanganga

(A)

Progress/Status Report of the River/PRS water quality monitoring for the Month November-2022:

Sr. No.	Month/ Date	Location ID	Name of Location	Parameter					
				pH	DO (mg/l)	BOD (mg/l)	COD (mg/l)	Fecal coliform (MPN/ 100ml)	Total coliform (MPN/100 ml)
1	June-2021		GIDC Vapi Weir	7.88	6.80	0.7	9	12	47
			Zari Causeway Kachigam	7.74	5.10	2.2	22	1600	>1600
			Village Namdha	7.79	5.20	1.9	23	49	150
2	July-2021		GIDC Vapi Weir	7.93	7.0	0.7	9	11	46
			Zari Causeway Kachigam	7.96	5.30	1.9	20	920	1600
			Village Namdha	7.97	5.40	1.7	20	45	140
3	August-2021		GIDC Vapi Weir	7.81	7.10	0.7	8.0	8.1	31.0
			Zari Causeway Kachigam	7.95	6.50	0.8	11.0	79.0	240.0
			Village Namdha	7.92	6.60	0.9	14.0	27.0	94.0
4	September-2021		GIDC Vapi Weir	7.80	7.20	0.6	7.0	9.3	27.0
			Zari Causeway Kachigam	7.74	6.80	0.7	8.0	38.0	94.0
			Village Namdha	7.77	6.80	0.6	7.0	14.0	49.0
5	October-2021		GIDC Vapi Weir	7.60	6.80	0.7	8.0	10.0	26.0
			Zari Causeway Kachigam	7.25	6.10	0.9	10.0	39.0	110.0
			Village Namdha	7.53	6.30	0.8	9.0	13.0	47.0
6	November-2021		GIDC Vapi Weir	7.89	6.70	0.7	8.0	12.0	38.0
			Zari Causeway Kachigam	7.93	5.90	1.1	12	540.0	1600.0
			Village Namdha	7.94	6.20	0.9	11.0	31.0	94.0
7	December-		GIDC Vapi Weir	7.99	6.80	0.7	8.0	13.0	39.0

	2021		Zari Causeway Kachigam	7.38	5.70	1.2	13.0	540.0	1600.0
			Village Namdha	7.40	5.90	1.0	12.0	41.0	120.0
8	January-2022		GIDC Vapi Weir	7.73	6.70	0.7	8.0	13	40
			Zari Causeway Kachigam	7.48	5.20	1.6	21.0	920	1600
			Village Namdha	7.55	5.40	1.4	20.0	49	150
9	February-2022		GIDC Vapi Weir	7.95	6.80	0.7	8	12	41
			Zari Causeway Kachigam	7.73	5.40	1.5	20	920	>1600
			Village Namdha	7.88	5.40	1.5	21	46	140
10	March-2022		GIDC Vapi Weir	7.91	6.90	0.7	8.0	13	43
			Zari Causeway Kachigam	7.93	5.20	1.7	21.0	1600	>1600
			Village Namdha	7.60	5.30	1.5	18.0	49	170
11	April-2022		GIDC Vapi Weir	7.91	6.90	0.7	8.0	13.0	43.0
			Zari Causeway Kachigam	7.93	5.20	1.7	21.0	1600.0	>1600.0
			Village Namdha	7.60	5.30	1.5	18.0	49.0	170.0
12	May-2022		GIDC Vapi Weir	8.18	6.90	0.8	10.0	13	43
			Zari Causeway Kachigam	7.81	4.70	2.6	26.0	1600	>1600
			Village Namdha	7.86	4.90	2.0	24.0	84	280
13	June-2022		GIDC Vapi Weir	8.01	6.80	0.8	9.0	14	46
			Zari Causeway Kachigam	7.55	4.40	2.2	24.0	920	1600
			Village Namdha	7.93	4.80	2.0	22.0	94	350
14	July-2022		GIDC Vapi Weir	7.60	7.10	0.6	7.0	12	41
			Zari Causeway Kachigam	7.62	5.60	1.4	15.0	79	220
			Village Namdha	7.49	5.70	1.3	17.0	49	140
15	August-2022		GIDC Vapi Weir	7.63	7.0	0.6	7.0	11	32
			Zari Causeway Kachigam	7.64	5.60	1.3	14.0	94	350
			Village Namdha	7.59	5.70	1.2	15.0	39	120

16	September-2022		GIDC Vapi Weir	7.74	6.0	0.6	7.0	10	26
			Zari Causeway Kachigam	7.80	6.8	1.4	16	94	220
			Village Namdha	7.63	6.8	1.5	15	40	150
17	October-2022		GIDC Vapi Weir	7.97	7.2	0.8	8	24	84
			Zari Causeway Kachigam	7.92	6.4	1.5	15	<1.8	350
			Village Namdha	8	6.2	1.8	14	12	1600
18	November-2022		GIDC Vapi Weir	7.97	6.0	0.9	8	11	210
			Zari Causeway Kachigam	7.72	5.3	1.3	11	6	430
			Village Namdha	7.75	6.1	1.1	10	9	>1600

Note:- Does not fall in any priority as per MPRs for the months of June-2020 to November -2022.

(B) STP Results

There is no any Existing STP at present

(C) Drain details with flow

Sr.No.	Location/Name of Drain	Name of Inletting River/Drain	Discharge (MLD)	
			Max.	Min.
1	Zari Causeway Kachigaon Bridge, Daman (UT)	Kalkada Khadi (Domestic outfall from VapiNagarpalika Area)	20 MLD	18 MLD
2	Near GIDC Weir, Vapi	Domestic outfall from Village Chanod Area	0.5 MLD	0.3 MLD

(D) CETPs Results

CETP, Vapi (VGEL Vapi):

Samp.Dt.	Type	BOD(mg/l)		COD(mg/l)		NH3(mg/l)		pH		SS(mg/l)	
		Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
10/11/2022	ROU	328	24	1114	173	103.6	28.56	7.62	7.21	300	94
Standards			**30**		**250**		**50**		**6.5-8.5**		**100**

(E)

Progress/Status Report of the River/PRS ground water quality monitoring November – 2022

Date	Location	DO (mg/l)	pH	BOD (mg/l)	COD (mg/l)	Fecal Coliform (MPN/100 ml)	Total coliform (MPN/100 ml)	SS (mg/l)	Iron (mg/l)	Lead (mg/l)	Nickel (mg/l)
	Borewell at JillaPanchayat School, KantaFaliya, Village Namdha	3.4	7.75	0.8	9	<1.8	<1.8	6	0.067	BDL	0.014

Zinc (mg/l)	Manganese (mg/l)	Nitrite (mg/l)	Nitrate (mg/l)	Hexavalent Chromium (mg/l)	Total Chromium (mg/l)	Percent Sodium	NH3 (mg/l)	Total KejeldahlNirtogen (mg/l)	TDS (mg/l)	Conductivity (micromho/cm)
0.015	BDL	0.009	0.19	BDL	0.028	9.86	0.28	1.12	506	802

8. Dhadhar

(A)

Progress/Status Report of the River/PRS water quality Monitoring for the Month November-2022:

Sr. No.	Month/ Date	Location ID	Name of Location	Parameter						
				pH	DO (mg/l)	BOD (mg/l)	COD (mg/l)	Fecal coliform (MPN/ 100ml)	Total coliform (MPN/100 ml)	Faecal Streptococci 100 MPN/ 100 ml
1	June-2021	1865	Kothwada	7.67	0.9	16	69	>1600	>1600	
			Pingalwada	7.71	6.5	4.1	54	17	280	
2	July-2021	1865	Kothwada	7.75	0.9	9	44	>1600	>1600	>1600
			Pingalwada	7.85	5.1	3.7	13	14	94	10
3	August-2021	1865	Kothwada	7.73	0.9	6	31	350	>1600	350
			Pingalwada	7.8	5.6	2.7	8	130	1600	130

4	September-2021	1865	Kothwada	7.87	2.2	7	36	>1600	>1600	240
			Pingalwada	8.33	5.9	3.4	13	540	920	70
5	October-2021	1865	Kothwada	8.17	2.5	1.9	19	>1600	>1600	170
			Pingalwada	8.43	6.0	2.1	23	920	1600	49
6	November-2021	1865	Kothwada	7.61	0	9	54	>1600	>1600	110
			Pingalwada	8.03	7.7	1.7	5	920	1600	21
7	December-2021	1865	Kothwada	7.85	1.5	09	10	>1600	>1600	33
			Pingalwada	7.77	3.2	1.4	15	540	920	6.8
8	January-2022	1865	Kothwada	8.01	0.6	10	47	>1600	>1600	27
			Pingalwada	8.29	7.5	1.2	16	350	540	6.8
9	February-2022	1865	Kothwada	7.55	0.5	11	49	>1600	>1600	21
			Pingalwada	7.93	7.8	0.8	9	240	350	<1.8
10	March-2022	1865	Kothwada	8.05	1.9	12	51	>1600	>1600	17
			Pingalwada	8.01	7.1	0.8	10	270	350	<1.8
11	April-2022	1865	Kothwada	8.04	0.8	8	39	>1600	>1600	11
			Pingalwada	8.25	7.5	0.9	17	540	920	<1.8
12	May-2022	1865	Kothwada	8.26	0	13	64	>1600	>1600	11
			Pingalwada	8.52	6.08	0.9	30	>1600	>1600	<2
13	June-2022	1865	Kothwada	8.40	0.0	21	90	>1600	>1600	6.8
			Pingalwada	8.64	BDL	21	81	110	220	<1.8
14	July-2022	1865	Kothwada	7.56	3.2	20	79	540	9.74	<1.8
			Pingalwada	7.91	5.0	2.9	24	110	240	<1.8
15	August-2022	1865	Kothwada	7.7	1.8	7	48	210	920	<1.8
			Pingalwada	7.86	7.20	0.80	24	120	540	<1.8
16	September-2022	1865	Kothwada	8.01	3.5	3	34	920	1600	<1.8
			Pingalwada	8.38	6.9	1.2	19	240	350	<1.8
17	October - 2022	1865	Kothwada	8.02	6.0	0.9	22	>1600	>1600	<1.8
			Pingalwada	8.46	6.7	0.9	18	240	350	<1.8
18	November-2022	1865	Kothwada	8.18	5.9	3.7	20	>1600	>1600	11
			Pingalwada	8.28	6.3	0.9	16	>1600	>1600	6.8

(B) STPs Results

November-22					
Name of STP	**pH**	**COD mg/L**	**BOD mg/L**	**TC (MPN/100 ml)**	**FC (MPN/100 ml)**
STP at Tarsali – Capacity : 52 MLD	8.22	124	28	>1600	>1600
STP at Gajarawadi – Capacity : 66 MLD	8.26	75	18	>1600	>1600
STP at Sayaji Garden – Capacity : 16 MLD	8.68	12	<5	49	27
STP at Kapurai – Capacity : 43 MLD	8	61	12	>1600	>1600
STP at Rajivnagar – Capacity : 78 MLD	8.29	14	<5	79	33
STP at Chhani – Capacity : 21 MLD	8.36	69	16	>1600	>1600
Atladara – I (Old STP at Atladra) – Capacity : 43 MLD	8.56	39	9	920	540
Ataladara – II (New STP at Atladra) – Capacity : 43 MLD	8.38	82	19	>1600	>1600
Kapurai –New – Capacity : 60 MLD	8.32	13	<5	110	70

Note: NA – Not Analysed

(C) Drain details with flow

Sr. No.	Location	Name of Inletting Drain	Flow in MLD
1	Downstream of Pingalwada	Vishwamitri	409
2	Upstream of Pingalwada	Rangai	@ 1.3
3	Upstream of Pingalwada	Natural Kaans	@ 0.36

(D) CETPs Details
Not Applicable

(E)
Progress /Status Report for Ground water quality monitoring pertaining to PRS River:

Sample ID and Date	Sampling Point	pH	COD mg/l	BOD mg/l	TDS mg/l
364061-02/11/2022	Borewell At Por GIDC Office	8.46	12	0.8	932

9. Khari

(A)

Progress/Status Report of the River/PRS water quality monitoring for the Month November – 2022:

Sr. No.	Month/ Date	Location ID	Name of Location	Parameter					
				pH	DO (mg/l)	BOD (mg/l)	COD (mg/l)	Fecal coliform (MPN/ 100ml)	Total coliform (MPN/100 ml)
1	June-2021	13401	Lali village	7.81	BDL	37	254	>1600	>1600
2	July-2021	13401	Lali village	7.15	BDL	91	388	>1600	>1600
3	August-2021	13401	Lali village	Sample results yet not freezed					
4	September-2021	13401	Lali village	7.39	1.91	17	69	540	920
5	October-2021	13401	Lali village	8.11	BDL	72	296	>1600	>1600
6	November-2021	13401	Lali village	7.19	BDL	26	132	>1600	>1600
7	December-2021	13401	Lali village	7.96	BDL	33	131	>1600	>1600
8	January-2022	13401	Lali village	7.11	BDL	55	183	>1600	>1600
9	February-2022	13401	Lali village	7.30	BDL	56	200	>1600	>1600
10	March-2022	13401	Lali village	7.95	BDL	13	50	920	1600
11	April-2022	13401	Lali village	7.15	BDL	38	133	>1600	>1600
12	May-2022	13401	Lali village	7.78	BDL	28	118	>1600	>1600
13	June-2022	13401	Lali village	7.35	BDL	40	162	>1600	>1600
14	July-2022	13401	Lali village	7.25	BDL	54	178	>1600	>1600
15	August-2022	13401	Lali village	7.36	0.34	24	96	>1600	>1600
16	September-2022	13401	Lali village	7.22	BDL	21	46	>1600	>1600
17	October-2022	13401	Lali village	7.23	2.91	9	34	>1600	>1600
18	November-2022	13401	Lali village	7.33	0.62	29	110	>1600	>1600

(B)

Progress /Status Report for Ground water quality monitoring pertaining to PRS River for November -2022:

Location ID	Name of Location	Parameter									
		pH	BOD (mg/l)	COD (mg/l)	Cu mg/l	Fe mg/l	Pb mg/l	Cd mg/l	Ni mg/l	Zn mg/l	T. Cr.
10836	Borewell of Lali Gram Panchayat	Sample is not collected due to three monthly (3M) project.									

(C)

Drains Details with Flow: 219813

Sr.No.	Location	Name of Inletting River/Drain	Discharge (MLD)	
			Max.	Min.
1	Vinzol STP	STP discharge of AMC at Vinzol in to river Khari through Pipeline	185	165
2	Kharicut Canal at Railway Bridge	Railway Bridge near Vinzol	0.5	0.2

(D) STP & CETP results:

Vinzol STP(70MLD)(21913) November -22

Location of sample collection	Discharge norms	Analysis Results
Final out let of STP Dtd.	pH-6.5 to 8.5	7.20
	BOD- Less than 20mg/L	9
	SS- Less than 30mg/L	18
	Total coliform(TC)- < 1000 MPN/100 ml	920
	Fecal coliform(FC)- < 1000 MPN/100 ml	540
	Residual Chlorine-0.5mh/L	-

CETP Results: There is no industrial wastewater discharge into River Khari.

10. Kim

(A)

Progress/Status Report of the River/PRS water quality monitoring for the Month November-2022:

Sr. No.	Month/ Date	Location ID	Name of Location	Parameter					
				pH	DO (mg/l)	BOD (mg/l)	COD (mg/l)	Fecal coliform(MPN/ 100ml)	Total coliform (MPN/100 ml)
1	June-2021		Sahol Bridge	8.38	6.3	2.3	17	27	84
2	July-2021		Sahol Bridge	7.78	5.2	1.8	15	22	94
3	August-2021		Sahol Bridge	7.5	5.4	2.1	16	17	84
4	September-2021		Sahol Bridge	7.68	5.7	2.6	18	31	70
5	October-2021		Sahol Bridge	7.78	5.8	2	12	24	94
6	November-2021		Sahol Bridge	8.04	5.3	2.3	14	25	84
7	December-2021		Sahol Bridge	7.5	5.6	2.7	15	17	63
8	January-2022		Sahol Bridge	8.06	6	2.1	15	14	34
9	February-2022		Sahol Bridge	7.86	5.9	2.9	20	17	58
10	March-2022		Sahol Bridge	8.04	6	2.8	17	21	48
11	April-2022		Sahol Bridge	7.78	6.9	2.4	16	10	31
12	May-2022		Sahol Bridge	7.8	6	2.3	12	10	32
13	June-2022		Sahol Bridge	8.09	6.4	2.5	14	12	33
14	July-2022		Sahol Bridge	7.9	6.5	2.2	10	6	27
15	August-2022		Sahol Bridge	8.63	6.9	1.9	12	10	33
16	September-2022		Sahol Bridge	7.8	6.9	1.8	16	17	38
17	October-2022		Sahol Bridge	7.73	6.6	2	7	14	27
18	November-2022		Sahol Bridge	8.37	6.2	1.9	14	4	26

Does not fall in any priority as per MPRs for the months of January – 2020 to November – 2022.

(B)

Progress /Status Report for Ground water quality monitoring pertaining to PRS River for November- 22:

Location:- BOREWELL AT GARG TEX-O FEB PVT.LTD OLPAD

Date	% NA	ALK	BOD	CAL	COD	CND	DOX	FLU	MAG	NH3	NIT	NTR	pH	PHO	POT	SOD	SS	SUP	T.H	TCO	TDS	TKN	TMP	TUR
01/04/2021	31.79	190	0.8	164.33	17	14110	3.8	0.219	192.13	1.12	0.028	0.57	7.82	0.104	8.6	258	12	104	1200	42	8606	2.24	28	4
01/10/2021	31.9	230	2.9	188.4	24	13790	3.9	0.59	214.02	0.28	0.022	0.057	7.42	0.104	15.93	293.45	2	903	1350	<2	8384	0.558	30	BDL
02/04/2022	31.47	490	1.5	244.49	16	14190	--	0.26	155.65	0.28	--	0.58	7.46	0.043	3.9	73.4	6	282	630	<2	2860	1.68	30	BDL
01/10/2022	14.07	3040	1.5	392.8	6	14510	--	0.28	466.9	0.29	--	0.484	7.55	0.097	8.7	218	86	870	2900	<2	8706	1.14	28	BDL

Location:- BOREWELL AT PIRAMAL GLASS

Date	ALK	BOD	BOR	CHL	CND	COD	COL	DOX	FCO	FLU	MAG	NH3	NIT	NTR	pH	PHO	POT	SOD	SS	SUP	T.H	TCO	TDS	TKN	TMP	TUR
01/04/2021	320	0.6	0.09	737	3867	10	<5	4	<2	0.28	94.9	0.6	0.03	0.68	7.89	0.14	2.4	70.8	4	29	590	<2	2358	2.24	29	2
01/10/2021	319	2.7	0.085	530	3771	9	<5	4.3	<2	0.7	99.71	0.28	0.02	0.072	7.65	0.130	4.36	80.25	2	247	620	<2	2292	0.558	30	BDL
02/04/2022	500	1.4	0.093	970	3920	9	--	--	<2	0.36	99.71	0.28	--	0.58	7.46	0.043	3.9	73.4	6	282	630	<2	2860	1.68	30	BDL
01/10/2022	420	1.4	0.151	830	3966	7	--	--	<2	0.39	85.12	0.29	--	0.512	7.84	0.097	2.4	59	24	238	520	<2	2380	1.14	29	1

Location:- BOREWELL AT NEELAM FIBER KIM IND AREA PLOT (October-2022)

Date	ALK	BOD	BOR	CHL	CND	COD	CAL	DOX	FCO	FLU	MAG	NH3	NIT	NTR	pH	PHO	POT	SOD	SS	SUP	T.H	TCO	TDS	TKN	TMP	TUR
01/04/2021	390	0.8	0.09	605	3077	11	76.15	3.8	<2	0.34	94.9	0.3	0.04	0.6	8.4	0.13	1.9	56.3	8	25	580	<2	1876	1.68	31	1.8
01/10/2021	310	2.3	0.082	470	3348	10	76.15	4.4	<2	0.67	77.82	0.28	0.024	0.050	7.91	0.139	3.87	71.25	2	219	510	<2	2036	0.558	30	BDL

02/04/2022	520	1.5	0.095	670	4901	10	92.18	--	<2	0.42	102.14	0.28	--	0.5	7.63	0.037	4.1	76.6	4	195	650	<2	1966	1.68	30	BDL
01/10/2022	510	1.4	0.145	835	3977	6	72.14	--	<2	0.40	87.55	0.29	--	0.488	8.12	0.102	2.4	60	24	239	540	<2	2386	1.14	29	2

(C) Drains Details with Flow:

Sr.No.	Location/ Name of Drain	Name of Inletting River/Drain	Discharge	
			Max	Min
1	Kim to Sahol	Village Kim drain	10 MLD	2 MLD

(D) STP Results:

No Sewage treatment in this River stretch – Existing STP details – NA

(E) CETP Details

No Industrial waste water discharge into this River stretch – Existing CETPs details – NA

11. Kolak

(A)

Progress/Status Report of the River/PRS water quality monitoring for the Month November -2022:

Sr. No.	Month/ Date	Location ID	Name of Location	Parameter					
				pH	DO (mg/l)	BOD (mg/l)	COD (mg/l)	Fecal coliform (MPN/ 100ml)	Total coliform (MPN/100 ml)
1	June-2021		River Kolak at N.H. No.8, Morai	7.91	6.90	0.80	10	20	58
			River Kolak at Pataliya Bridge	7.86	5.70	1.50	17	920	1600

2	July-2021		River Kolak at N.H. No.8, Morai	7.58	6.70	0.60	9.0	20	49
			River Kolak at Pataliya Bridge	8.02	6.50	1.10	12	350	920
3	August-2021		River Kolak at N.H. No.8, Morai	7.96	7.10	0.7	8.0	13	34
			River Kolak at Pataliya Bridge	7.92	6.50	0.8	9.0	130	350
4	September-2021		River Kolak at N.H. No.8, Morai	7.87	7.20	0.6	7.0	11	33
			River Kolak at Pataliya Bridge	7.97	6.70	0.7	8.0	34	94
5	October-2021		River Kolak at N.H. No.8, Morai	7.95	7.20	0.6	7.0	10	32
			River Kolak at Pataliya Bridge	7.94	6.40	0.9	10.0	33	84
6	November-2021		River Kolak at N.H. No.8, Morai	8.01	6.90	0.7	8.0	11	38
			River Kolak at Pataliya Bridge	7.99	6.20	1.0	11.0	430	920
7	December-2021		River Kolak at N.H. No.8, Morai	7.86	6.80	0.6	8.0	12	39
			River Kolak at Pataliya Bridge	8.01	6.10	1.1	12.0	350	920
8	January - 2022		River Kolak at N.H. No.8, Morai	7.96	6.70	0.7	8.0	13	43
			River Kolak at Pataliya Bridge	7.82	6.00	1.2	13.0	430	920
9	February-2022		River Kolak at N.H. No.8, Morai	7.87	6.80	0.7	9	12	40
			River Kolak at Pataliya Bridge	7.84	5.70	1.3	14	540	1600

10	March-2022		River Kolak at N.H. No.8, Morai	7.92	6.90	0.6	8	11	38
			River Kolak at Pataliya Bridge	7.88	5.80	1.2	13	920	1600
11	April-2022		River Kolak at N.H. No.8, Morai	7.98	6.80	0.7	10.0	12	39
			River Kolak at Pataliya Bridge	7.94	5.70	1.3	14.0	920	1600
12	May-2022		River Kolak at N.H. No.8, Morai	8.19	6.70	0.8	12	13	38
			River Kolak at Pataliya Bridge	8.20	5.50	1.4	16	920	1600
13	June-2022		River Kolak at N.H. No.8, Morai	7.98	6.60	0.9	11	14	39
			River Kolak at Pataliya Bridge	7.39	5.50	1.3	15	920	1600
14	July-2022		River Kolak at N.H. No.8, Morai	7.93	7.0	0.6	7.0	13	33
			River Kolak at Pataliya Bridge	7.97	5.50	1.4	11.0	94	280
15	August-2022		River Kolak at N.H. No.8, Morai	8.01	6.8	0.6	7.0	14	38
			River Kolak at Pataliya Bridge	7.7	6.2	1.1	12.0	84	280
16	September-2022		River Kolak at N.H. No.8, Morai	7.79	6.5	0.7	7.0	9.2	33
			River Kolak at Pataliya Bridge	7.78	5.5	0.7	10.0	63	240
17	October-2022		River Kolak at N.H. No.8, Morai	7.87	6.9	0.9	8	14	40
			River Kolak at Pataliya Bridge	7.83	6.4	0.8	11	63	280

18	November-2022		River Kolak at N.H. No.8, Morai	7.97	6.8	0.8	8	17	84
			River Kolak at Pataliya Bridge	8.01	6.6	0.9	12	63	540

Note: - Does not fall in any priority as per MPRs of June-2020 to November -2022.

(B) STPs Results
There is no Existing STP at present

(C) Drain details with flow

Sr. No.	Location/Name of Drain	Name of Inletting River/Drain	Discharge (MLD)	
			Max.	Min.
1	Morai, Vapi	Bill Khadi	26 MLD	10 MLD

(D) CETPs Results
Not Applicable

(E)

Progress/Status Report of the River/PRS ground water quality Monitoring (November – 2022):

Date	Location	DO (mg/l)	pH	BOD (mg/l)	COD (mg/l)	Fecal Coliform (MPN/100 ml)	Total coliform (MPN/100 ml)	SS (mg/l)	Iron (mg/l)	Lead (mg/l)	Nickel (mg/l)
01/11/2022	Borewell at Koteshwar Mahadev Temple, Vatar	3.7	7.78	0.7	8	<1.8	<1.8	6	BDL	0.021	0.017

Zinc (mg/l)	Manganese (mg/l)	Nitrite (mg/l)	Nitrate (mg/l)	Hexavalent Chromium (mg/l)	Total Chromium (mg/l)	Percent Sodium	Ammonical Nitrogen (mg/l)	Total Kejeldahl Nirtogen (mg/l)	TDS (mg/l)	Conductivity (micro.s/cm)
0.689	0.038	0.018	0.36	BDL	0.023	6.37	0.28	1.12	498	854

12. Mahi

(A)

Progress/Status Report of the River/PRS water quality monitoring for the Month November-2022:

Sr. No.	Month/ Date	Location ID	Name of Location	Parameter					
				pH	DO (mg/l)	BOD (mg/l)	COD (mg/l)	Fecal coliform (MPN/ 100ml)	Total coliform (MPN/100 ml)
1	June-2021		River Mahi at Sevalia	7.45	8.2	0.7	6	11	70
2	July-2021		As above	7.67	8.5	0.6	5	2	48
3	August-2021		As above	8.06	8.4	0.6	5.0	2	39
4	September-2021		As above	7.96	7.9	0.6	5.0	2	48
5	October-2021		As above	8.48	7.7	0.7	5.0	2	40
6	November-2021		As above	8.3	8.5	0.5	5.0	2	40
7	December-2021		As above	7.95	8.5	0.5	6.0	6.8	63
8	January – 2022		As above	8.5	8.5	0.5	6.0	4	47
9	February-2022		As above	8.05	8.2	0.7	6.0	4	49
10	March-2022		As above	8.1	3.8	0.8	7	4	33
11	April-2022		As above	8.58	8.3	0.8	8	4	49
12	May-2022		As above	8.31	8.8	0.8	6	4	63
13	June-2022		As above	8.51	8.5	0.8	8	<1.8	11
14	July-2022		As above	8.46	8.4	0.7	6	6.8	33
15	August-2022		As above	8.26	7.8	0.7	5	2	33
16	September-2022		As above	8.49	8.0	0.8	6	4	49
17	October-2022		As above	8.49	8.0	0.7	6	6.8	33
18	November-2022		As above	8.49	7.9	0.8	6	6.8	43

\Note: - Does not fall in any priority as per MPRs for the month of July – 2020 to November – 2022.

13. Meshwo

(A)

Progress/Status Report of the River/PRS water quality monitoring for the Month November-2022:

Sr. No.	Month/ Date	Location ID	Name of Location	Parameter					
				pH	DO (mg/l)	BOD (mg/l)	COD (mg/l)	Fecal coliform (MPN/ 100ml)	Total coliform (MPN/100 ml)
1	June-2021		River Meshwo D/s at Shamlaji	7.60	7.12	0.93	8	4	21
2	July-2021			7.36	5.98	0.88	9	< 1.8	< 1.8
3	August-2021			7.47	5.91	0.73	14	< 1.8	11
4	September-2021			7.31	4.89	1.46	11	< 1.8	46
5	October-2021			7.61	6.02	0.80	12	< 1.8	12
6	November-2021			7.68	6.92	0.71	13	4	21
7	December-2021			7.20	6.75	0.79	12	< 1.8	14
8	January – 2022			7.69	5.74	0.57	15	< 1.8	21
9	Feb-2022			7.76	6.79	0.71	10	< 1.8	12
10	March-2022			7.61	7.55	0.78	11	< 1.8	14
11	April-2022			8.20	5.77	0.81	18	< 1.8	12
12	May-2022			7.84	5.98	0.73	18	< 1.8	12
13	June-2022			7.85	5.26	0.65	20	4	17
14	July-2022			7.20	6.51	0.85	17	< 1.8	11
15	August-2022			7.94	6.30	0.67	10	< 1.8	4
16	Septembe-2022			8.35	6.75	1.13	11	< 1.8	12
17	October-2022			7.55	6.14	1.43	12	< 1.8	14
18	November-2022			7.75	7.14	0.78	8	< 2	< 2

(B) STP Results
Not Applicable

(C) Drain Details
Not Applicable

(D) CETP Results
Not Applicable

(E) Progress/Status Report of the ground water quality Monitoring:

Date	Location	pH	BOD (mg/l)	COD (mg/l)	TDS (mg/l)
01/11/2022	Borewell from Shamlaji Dharamshala	7.60	1.08	7	620

14. Mindhola

(A)

Progress/Status Report of the River/PRS water quality monitoring for the Month November -2022:

Sr. No.	Month/ Date	Location ID	Name of Location	Parameter					
				pH	DO (mg/l)	BOD (mg/l)	COD (mg/l)	Fecal coliform (MPN/ 100ml)	Total coliform (MPN/100 ml)
1	June-2021		River Mindhola	8.38	6.3	2.3	17	27	84
2	July-2021		As above	7.74	5.1	2.7	22	350	>1600
3	August-2021		As above	7.50	6.0	1.8	20	540	>1600
4	September-2021		As above	7.58	6.0	1.7	14	920	>1600
5	October- 2021		River Mindhola	8.04	6	1.6	10	350	>1600

6	November-2021		River Mindhola	7.88	5.4	2.6	11	920	>1600
7	December-2021		As above	7.94	5	2.9	30	220	>1600
8	January – 2022		River Mindhola	7.62	3.2	7	35	540	>1600
9	February-2022		River Mindhola	7.95	5.2	2.9	26	>1600	>1600
10	March-2022		River Mindhola	8.07	4.7	2.2	14	240	>1600
11	April-2022		As above	7.63	5.6	2.9	24	70	430
12	May-2022		As above	7.66	5.8	2.9	18	220	540
13	June-2022		As above	7.53	5.8	3	20	280	350
14	July-2022		As above	8	5.9	2.6	12	17	280
15	August-2022		As above	8.7	6.2	2.3	10	79	430
16	September-2022		As above	7.94	5.1	2.8	18	94	220
17	October-2022		River Mindhola	8.26	5	2.8	18	110	350
18	November-2022		River Mindhola	8.07	5.1	2.7	18	110	540

(B)

Progress /Status Report for Ground water quality monitoring pertaining to PRS River:

Location: - BOREWELL AT SACHIN GIDC (SIEL)

Date	% NA	ALK	BOD	CAL	CHL	CND	COD	COL	DOX	FDS	FLU	MAG	NAA	NH3	NTR	pH	PHO	POT	SOD	SS	SUP	T. H	TCO	TDS	TKN	TMP	TUR
01/04/2021	28.2	260	1.2	116.2	2424	8704	13	<5	-	-	0.42	143.5	2.34	1.1	0.7	7.75	0.15	5.3	519	8	119	880	<2	5308	2.2	31	1
06/10/2021	--	580	2.8	144.3	1100	7767	11	--	4.4	--	0.79	179.97	2.17	0.28	0.07	7.6	0.208	8.9	165	2	503	1100	<2	4722	0.558	30	BDL
02/04/2022	31.81	330	1.7	96.19	1899	7794	14	--	--	--	0.53	104.58	2.98	0.56	0.57	7.1	0.106	7.8	145	6	559	670	<2	5650	2.24	29	BDL
02/10/2022	24.63	850	1.6	108.2	1709	8161	12	--	--	--	0.51	131.3	1.86	0.29	0.201	6.98	0.127	4.9	122	50	489	810	<2	4896	0.86	30	1

Location: - BOREWELL AT NR COMMON HAZ WASTE DSPO.SITE(GEPIL)

Date	%NA	ALK	BOD	CAL	CHL	CND	COD	COL	DOX	FDS	FLU	MAG	NH3	NTR	pH	PHO	POT	SOD	SS	SUP	T.H	TCO	TDS	TKN	TMP	TUR
01/04/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/10/2021	--	610	2.9	128.3	1050	7158	18	--	3.9	--	0.85	160.51	0.28	0.079	7.7	0.278	8.20	152	2	467	980	<2	4352	0.558	29	BDL
02/04/2022	14.91	145	1.6	24.05	120	774.8	14	--	--	--	0.82	29.18	0.28	0.24	7.7	0.115	0.8	14.5	4	35	180	<2	358	1.12	29	BDL
--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Location : - OPEN WELL AT GABHENI OPP: PANCHYAT OFFICE

Date	%NA	ALK	BOD	CAL	CHL	CND	COD	COL	DOX	FDS	FLU	MAG	NH3	NTR	pH	PHO	POT	SOD	SS	SUP	T.H	TCO	TDS	TKN	TMP	TUR
01/04/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/10/2021	--	600	1.9	136.3	950	7019	6	--	6.5	--	0.45	172.67	0.28	0.077	7.93	0.070	8.10	149	4	457	1050	<2	4268	0.558	27	BDL
02/04/2022	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

(C) Drains Details with Flow:

Sr.No.	Location	Name of Inletting River/Drain	Discharged	
			Max	Min
1	Sachin Notified area	Kapletha village drain meeting River Mindhola	1.6 MLD	0.5 MLD

Note: Entire Baleshwar Khadi is meeting to River Mindhola at village Samrod as major drain. Polluted River action plan of Baleshwar Khadi is prepared and submitted separately.

(D) STP & CETP results:

No Sewage treatment in this River stretch – Existing STP details – NA
No Industrial waste water discharge into this River stretch – Existing CETPs details – NA

15. Narmada

(A)

Progress/Status Report of the River/PRS water quality monitoring for the Month November - 2022:

Sr. No.	Month/ Date	Location ID	Name of Location	Parameter					
				pH	DO (mg/l)	BOD (mg/l)	COD (mg/l)	Fecal coliform (MPN/ 100ml)	Total coliform (MPN/100 ml)
1	June-2021		NTPC Zanor	7.91	8.13	1.06	5	21	46
			Zadeshwar	7.95	8.28	1.11	6	94	220
			Garudeshwar	8.02	8.32	0.72	6	13	47
2	July-2021		NTPC Zanor	8.24	7.68	1.22	10	22	70
			Zadeshwar	8.07	7.57	1.28	10	46	110
			Garudeshwar	7.97	7.43	0.7	5	17	70
3	August-2021		NTPC Zanor	7.87	7.28	1.02	11	23	94
			Zadeshwar	7.95	7.04	1.09	11	79	280
			Garudeshwar	8.28	8.13	0.68	5	21	70
4	September-2021		NTPC Zanor	8.19	6.89	1.18	12	22	70
			Zadeshwar	8.21	6.62	1.26	12	46	110
			Garudeshwar	7.51	6.41	1.28	5	26	70
5	October-2021		NTPC Zanor	7.88	6.72	1.21	10	46	110
			Zadeshwar	7.74	6.58	1.34	10	49	140
			Garudeshwar	8.26	7.43	0.8	05	17	49
6	November-2021		NTPC Zanor	8.18	8.05	0.81	10	22	70
			Zadeshwar	8.21	7.40	0.89	10	46	110
			Garudeshwar	8.25	8.16	0.7	05	24	70
7	December-2021		NTPC Zanor	8.21	8.02	0.8	9	34	79
			Zadeshwar	8.24	7.91	0.82	10	47	110
			Garudeshwar	8.02	8.11	0.72	5	21	27
8	January - 2022		NTPC Zanor	8.31	8.05	0.82	11	33	94
			Zadeshwar	8.32	7.63	0.84	14	49	140
			Garudeshwar	8.31	8.15	0.75	5	26	70
9	February-		NTPC Zanor	8.46	8.29	0.85	9	49	110

	2022		Zadeshwar	8.29	7.04	1.05	10	79	170
			Garudeshwar	8.18	8.58	0.77	5	17	46
10	March-2022		NTPC Zanor	8.31	7.73	0.88	10	33	110
			Zadeshwar	8.12	7.64	0.95	10	49	170
			Garudeshwar	8.2	8.15	0.8	5	17	33
11	April-2022		NTPC Zanor	8.34	7.08	0.91	12	22	70
			Zadeshwar	8.29	6.88	0.94	14	110	260
			Garudeshwar	8.45	8.51	0.84	5	23	49
12	May-2022		NTPC Zanor	8.34	7.30	0.9	12	22	49
			Zadeshwar	8.39	6.7	0.92	12	94	170
			Garudeshwar	8.57	8.46	0.84	5	13	47
13	June-2022		NTPC Zanor	7.96	6.98	0.87	8	26	46
			Zadeshwar	7.71	6.89	0.92	9	94	220
			Garudeshwar	8.14	8.15	0.86	5	22	47
14	July-2022		NTPC Zanor	8.38	7.1	0.84	11	21	46
			Zadeshwar	8.39	6.73	0.87	13	94	170
			Garudeshwar	8.11	7.64	0.84	5	21	70
15	August-2022		NTPC Zanor	7.48	7.06	0.82	5	21	46
			Zadeshwar	7.79	6.86	0.83	5	94	170
			Garudeshwar	7.98	7.47	0.85	5	17	70
16	September-2022		NTPC Zanor	7.81	7.22	0.88	8	22	70
			Zadeshwar	7.97	6.92	0.91	9	46	110
			Garudeshwar	7.88	7.42	0.80	5	26	70
17	October-2022		NTPC Zanor	8.2	7.48	0.84	6	17	70
			Zadeshwar	8.26	7.24	0.86	6	46	130
			Garudeshwar	8.17	7.48	0.84	5	33	79
18	November-2022		NTPC Zanor	8.28	7.42	0.83	7	22	70
			Zadeshwar	8.30	7.25	0.85	8	49	130
			Garudeshwar	8.33	7.40	0.85	5	21	40

Note: Does not fall in any Priority as per the MPRs of June-2020 to November -2022.

16. Sabarmati

(A)

Progress/Status Report of the River/PRS water quality monitoring for the Month November – 2022:

Sr. No.	Month/ Date	Location ID	Name of Location	Parameter					
				pH	DO (mg/l)	BOD (mg/l)	COD (mg/l)	Fecal coliform (MPN/ 100ml)	Total coliform (MPN/100 ml)
1	June-2021		Kheroj	Sample was not collected as river is dry					
			Mahudi	Sample was not collected as river is dry					
			Chiloda	Sample was not collected as river is dry					
			Hansol Bridge	7.63	7.13	0.88	15	17	70
			Railway Bridge	7.83	6.42	1.43	30	79	210
			V N Bridge	7.50	BDL	14	74	540	920
			Miroli	8.00	BDL	39	145	>1600	>1600
			Vautha	7.70	3.89	32	148	920	1600
2	July-2021		Kheroj	Sample was not collected as river is dry					
			Mahudi	Sample was not collected as river is dry					
			Chiloda	Sample was not collected as river is dry					
			Hansol Bridge	8.08	6.29	0.59	15	06	63
			Railway Bridge	7.96	6.51	1.5	27	63	350
			V N Bridge	7.96	0.1	71	244	>1600	>1600
			Miroli	7.28	4.08	31	117	>1600	>1600
			Vautha	7.48	0.09	28	103	>1600	>1600
3	August-2021		Kheroj	8.10	6.80	0.60	11	04	63
			Mahudi	Sample was not collected as river is dry					
			Chiloda	Sample was not collected as river is dry					
			Hansol Bridge	7.72	4.98	1.47	14	09	70
			Railway Bridge	7.40	6.40	1.42	18	47	240
			V N Bridge	8.19	Nil	60	518	>1600	>1600

			Miroli	Result yet not freeze					
			Vautha	8.05	Nil	42	98	540	920
4	September-2021		Kheroj	8.20	5.70	1.68	12	14	94
			Mahudi	Sample was not collected due to river found stagnant					
			Chiloda	Sample was not collected as river is dry					
			Hansol Bridge	7.75	5.57	1.40	15	12	110
			Railway Bridge	7.70	4.61	1.57	25	70	350
			V N Bridge	8.55	BDL	146	384	>1600	>1600
			Miroli	7.38	BDL	47	199	>1600	>1600
			Vautha	7.52	BDL	31	122	>1600	>1600
5	October-2021		Kheroj	8.14	6.53	0.74	12	21	46
			Mahudi	Sample was not collected during October month due to river found stagnant.					
			Chiloda	Sample was not collected during October month due to river found dry.					
			Hansol Bridge	Sample was not collected during October month due to river found dry.					
			Railway Bridge	7.65	6.03	14	84	350	540
			V N Bridge	7.26	BDL	143	611	>1600	>1600
			Miroli	7.81	BDL	31	112	>1600	>1600
			Vautha	8.81	BDL	41	156	540	920
6	November-2021		Kheroj	7.50	7.69	0.73	15	4	46
			Mahudi	Sample was not collected during October month due to river found stagnant.					
			Chiloda	Sample was not collected during October month due to river found dry.					
			Hansol Bridge	8.25	7.66	0.72	09	12	63
			Railway Bridge	7.27	3.06	12	69	540	920
			V N Bridge	8.36	BDL	147	537	>1600	>1600
			Miroli	7.18	BDL	29	105	>1600	>1600
			Vautha	7.79	BDL	27	101	>1600	>1600
7	December - 2021		Kheroj	7.77	7.56	0.82	12	12	47
			Mahudi	Sample was not collected during October month due to river found stagnant.					
			Chiloda	Sample was not collected during October month due to river found dry.					
			Hansol Bridge	7.58	5.55	0.89	14	12	70
			Railway Bridge	7.52	5.82	0.79	17	170	350
			V N Bridge	7.38	BDL	60	273	>1600	>1600
			Miroli	7.20	BDL	33	109	>1600	>1600

			Vautha	7.57	BDL	33	139	>1600	>1600
8	January - 2022		Kheroj	8.20	7.69	0.68	14	4	47
			Mahudi	Sample was not collected due to river found stagnant.					
			Chiloda	Sample was not collected due to river found dry.					
			Hansol Bridge	8.20	7.76	0.73	13	06	47
			Railway Bridge	7.94	6.53	1.53	15	70	280
			V N Bridge	7.26	BDL	-	-	>1600	>1600
			Miroli	7.84	BDL	51	205	>1600	>1600
			Vautha	7.5	BDL	32	87	>1600	>1600
9	February-2022		Kheroj	7.77	6.61	0.75	17	12	47
			Mahudi	Sample was not collected due to river found stagnant.					
			Chiloda	Sample was not collected due to river found dry.					
			Hansol Bridge	7.75	8.25	0.72	11	12	94
			Railway Bridge	7.00	4.34	1.69	36	120	350
			V N Bridge	7.19	BDL	86	264	>1600	>1600
			Miroli	7.35	BDL	66	288	>1600	>1600
			Vautha	7.64	BDL	35	137	>1600	>1600
10	March-2022		Kheroj	7.77	7.33	0.87	11	<1.8	33
			Mahudi	Sample was not collected due to river found stagnant.					
			Chiloda	Sample was not collected due to river found dry.					
			Hansol Bridge	7.71	6.67	0.98	18	21	94
			Railway Bridge	7.54	6.09	0.82	18	33	240
			V N Bridge	7.71	BDL	96	506	>1600	>1600
			Miroli	7.76	0.34	37	127	>1600	>1600
			Vautha	7.6	1.63	25	104	>1600	>1600
11	April-2022		Kheroj	Sample was not collected due to river found dry					
			Mahudi	Sample was not collected due to river found stagnant.					
			Chiloda	Sample was not collected due to river found dry.					
			Hansol Bridge	Sample was not collected due to river found stagnant					
			Railway Bridge	8.15	5.17	1.19	23	47	280
			V N Bridge	7.50	BDL	56	302		
			Miroli	7.39	1.19	26	95	>1600	>1600
			Vautha	7.68	BDL	77	256	>1600	>1600

12	May-2022		Kheroj	Sample was not collected due to river found dry					
			Mahudi	Sample was not collected due to river found stagnant.					
			Chiloda	Sample was not collected due to river found dry.					
			Hansol Bridge	Sample was not collected due to river found stagnant					
			Railway Bridge	7.70	3.94	2.04	49	39	140
			V N Bridge	7.14	0.33	46	196	>1600	>1600
			Miroli	7.96	BDL	24	84	>1600	>1600
			Vautha	8.00	BDL	41	164	>1600	>1600
13	June-2022		Kheroj	Sample is not collected as no flow observed					
			Mahudi	Sample was not collected due to river found stagnant.					
			Chiloda	Sample was not collected due to river found dry.					
			Hansol Bridge	Sample was not collected due to river found stagnant					
			Railway Bridge	8.36	2.45	28	155	120	430
			V N Bridge	7.33	BDL	92	329	>1600	>1600
			Miroli	7.29	BDL	29	124	>1600	>1600
			Vautha	7.71	BDL	39	202	>1600	>1600
14	July-2022		Kheroj	7.43	5.45	1.32	34	7.8	23
			Mahudi	Sample was not collected due to river found stagnant.					
			Chiloda	Sample was not collected due to river found dry.					
			Hansol Bridge	Sample was not collected due to river found stagnant					
			Railway Bridge	7.71	1.75	9	54	220	920
			V N Bridge	6.56	BDL	22	86	>1600	>1600
			Miroli	7.20	BDL	24	84	>1600	>1600
			Vautha	8.17	BDL	23	83	>1600	>1600
15	August-2022		Kheroj	7.84	5.34	0.78	11	<1.8	21
			Mahudi	7.29	5.45	1.49	08	<2	<2
			Chiloda	8.25	5.99	0.87	16	70	350
			Hansol Bridge	7.62	5.56	1.04	10	4	47
			Railway Bridge	7.33	4.52	1.92	21	170	540
			V N Bridge	7.0	BDL	22	86	>1600	>1600
			Miroli	7.54	5.24	7	34	>1600	>1600
			Vautha	7.31	BDL	20	48	>1600	>1600
16	September-		Kheroj	8.33	6.9	1.58	12	33	170

	2022		Mahudi	7.62	6.68	1.55	14	170	350
			Chiloda	7.8	6.47	0.91	18	12	70
			Hansol Bridge	7.18	6.29	1.03	16	12	60
			Railway Bridge	7.35	5.08	2.28	15	12	70
			V N Bridge	7.45	5.48	1.12	38	170	540
			Miroli	7.45	4.67	6	25	920	1600
			Vautha	7.7	5.24	12	30	>1600	>1600
17	October-2022		Kheroj	7.65	6.45	1.13	17	<1.8	33
			Mahudi	7.92	4.94	2.23	11	04	33
			Chiloda	7.64	6.53	2.3	11	12	70
			Hansol Bridge	7.36	5.66	1.17	14	06	47
			Railway Bridge	7.74	5.97	1.24	15	12	110
			V N Bridge	7.22	2.21	14	58	>1600	>1600
			Miroli	7.31	4.60	8	31	>1600	>1600
			Vautha	7.30	3.48	12	36	>1600	>1600
18	November-2022		Kheroj	7.71	6.75	1.42	9	04	33
			Mahudi	8.01	6.06	1.01	9	04	70
			Chiloda	Sample was not collected due to river found Dry					
			Hansol Bridge	7.80	6.05	1.54	09	12	70
			Railway Bridge	7.45	5.17	2.22	24	70	350
			V N Bridge	7.49	BDL	43	201	>1600	>1600
			Miroli	7.73	6.54	2.72	27	>1600	>1600
			Vautha	7.78	3.41	5.98	33	>1600	>1600

(B)

Progress /Status Report for Ground water quality monitoring pertaining to PRS River for November - 2022:

Sr No	Bore wells	pH	BOD(mg/I)	COD(mg/I)	TDS(mg/I)
1.	**Gandhi Ashram**, Ahmedabad	8.02	1.86	09	834
2.	**Jain Temple**, Ahmedabad (Half yearly)	Sample is not collected due to three monthly (6M) project.			
3.	**P T College**, Ahmedabad	7.83	1.43	08	440
4.	**Pirana Pumping Station**, Ahmedabad (Half Yearly)	Sample is not collected due to three monthly (6M) project.			

5.	**GyaspurNr.MSW Site**, Ahmedabad	7.45	1.59	10	2756
6.	**Ajmeri Farm**, Ahmedabad	Bore well under maintanance			
7.	**Excel Industries**, Ahmedabad	7.35	1.59	09	2210
8.	**UPL Djl**, Ahmedabad	7.20	1.64	09	3418
9.	**Miroli Pumping Station**, Ahmedabad(**10837)**	Sample is not collected due to three monthly (3M) project.			
10.	**NaklangMahadev**, Ahmedabad(**10823**)	Sample is not collected due to three monthly (3M) project			
11.	**Paldi-Kankaj**, Ahmedabad**(10824)**	Sample is not collected due to three monthly (3M) project			
12.	**GIDC Naroda**, Ahmedabad**(10817)**	7.65	1.87	11	1006
13.	**GIDC-Vatva**, Ahmedabad**(10820)**	7.53	1.87	11	1746
14.	**GIDC-GVMM**, Ahmedabad**(10821)**	7.98	1.57	11	1204
15.	**GIDC-Odhav**, Ahmedabad**(10804)**	7.52	1.56	9	1926
16.	**Narol,** Ahmedabad (closed)	-	-	-	-

(C)
Drains Details with Flow:

Total No of drains:-11

Major Drains:

- Outfall of old city area, danilimda (D/S of Vasna Barrage)
- AMC storm water drain (Danilimda)-30 MLD
- Pumping Station 76 MLD (Old Vasna area)
- Pumping Station 182 MLD (Old Pirana area)
- Outfall of new city area, Vasna ((D/S of Vasna Barrage)
- Domestic waste water discharged at WaghaKotar, Sukhadeshwar Pumping station, PethapurNagarpalika, flow-55.3 MLD
- Domestic waste water discharged through natural drain nala, Village – Koteshwar, flow- 0.73 MLD
- Domestic waste water discharged through underground pipeline at Bank of River Sabarmati near Indira Bridge, Vill – Bhat, flow- 0.06 MLD
- Domestic waste water discharged through underground pipeline at Bank of River Sabarmati near Indira Bridge, Village – Bhat, flow-2.16 MLD
- Domestic waste water discharged from outfall of AUDA line, Village Nana Chiloda, flow-0.43 MLD
- Domestic waste water discharged from outfall of Village Nana Chiloda, Flow-6.48 MLD

Directions u/s 33/A of Water Act have been issued by GPCB to Ahmedabad Urban Development Authority, Gandhinagar Municipal Corporation (Pethapur), Gram Panchayats of village Koteshwar, Bhat & Nana Chiloda asking them to take following measures:

1. To get detailed survey of untreated sewage discharge into River Sabarmati in terms of latitude longitude, flow, population, sewage characteristics etc under your jurisdiction.
2. To take immediate steps to stop discharge of untreated sewage directly into the river under your jurisdiction or inform to concerned authority if not covered under your jurisdiction.
3. To submit a Short term & long term action plan with Gantt Chart for each discharge point within 15 days.
4. Provide an interim treatment system as mentioned in Hon. NGT orders dt.22/02/2021.
5. Ensure that no any untreated & unauthorized sewage shall be discharge into the River from existing as well as new residential projects/society under your jurisdiction. Necessary directions for adequate treatment & disposal of sewage shall be issued by you.

(D)
STP & CETP results

STP Results (November - 2022)

Sr No	Parameters	pH	BOD (mg/l)	TSS (mg/l)	FCO MPN/100 ml	Residual chlorine (mg/l)
	Discharging Norms	**6.5 to 9.0**	**20**	**<50**	**<1000 MPN/100 ml**	**0.5**
1	AMC PIRANA STP 60 MLD (ASP TYPE)	7.43	14	08	>1600	-
2	AMC PIRANA STP 106 MLD (UASB TYPE)	7.68	19	12	>1600	-
3	AMC PIRANA STP 180 MLD (ASP TYPE)	7.60	05	12	1600	-
4	AMC VASNA OLD STP 126 MLD (UASB TYPE)	7.05	54	22	>1600	-
5	AMC VASNA STP 35 MLD (ASP TYPE)	7.27	62	38	>1600	-
6	AMC VASNA STP 240 MLD (ASP TYPE)	7.13	66	42	>1600	-
7	AMC VASNA STP 48 MLD (SBR TYPE)	7.16	26	10	>1600	-
8	AMC STP 60 MLD, VADAJ (SBR TYPE)	7.05	07	12	>1600	-
9	AMC STP 25 MLD, (SBR TYPE)	7.07	06	10	>1600	-

CETP Results (November - 2022)

Sr. No	Parameters	pH	COD(mg/l)	BOD(mg/l)
	Discharging norms of CETPs	**6.5 – 8.5**	**250**	**30**
1.	CETP GREEN VATVA(14438)	7.44	242	20
2.	CETP NEPL(12718)	7.76	263	35
3.	CETP OEPL(12890)	7.10	115	25
4.	CETP OGEPL(12891)	7.42	124	18
5.	CETP GVMM(11536)	6.34	67	17
6.	NAROL DYE STUFF CETP(12720)	6.90	260	37
7.	Narol Textile Infrastructure &Enviro Management (Narol Textile CETP)(34244)	7.75	95	13

17. Shedhi

(A)

Progress/Status Report of the River/PRS water quality monitoring for the Month November – 2022:

Sr. No.	Month/ Date	Location ID	Name of Location	Parameter					
				pH	DO (mg/l)	BOD (mg/l)	COD (mg/l)	Fecal coliform (MPN/ 100ml)	Total coliform (MPN/100 ml)
1	June-2021		River Shedhi at Kheda Matar Bridge	7.65	6.6	0.6	17	350	540
2	July-2021		As above	7.72	3.8	2.3	23	110	210
3	August-2021		As above	7.19	7.0	0.9	8.0	350	540
4	September-2021		As above	7.15	3.6	2.3	10	350	540
5	October-2021		As above	8.43	3.2	1.5	13	350	540
6	November-2021		As above	7.74	2.3	1.7	13	350	540
7	December-2021		As above	7.84	3.4	1.7	20	350	540
8	January-2022		As above	8.41	6.8	0.8	12	540	920

9	February-2022		As above	8.15	6.1	0.8	11	540	920
10	March-2022		As above	7.9	3.7	2.2	20	>1600	>1600
11	April-2022		As above	8.81	7.3	3.8	72	>1600	>1600
12	May-2022		As above	8.01	6.4	2.9	38	>1600	>1600
13	June-2022		AS above	7.49	5.6	2.4	30	120	240
14	July-2022		As above	7.69	3.1	2.6	35	210	350
15	August-2022		As above	8.16	5.6	2.4	11	110	350
16	September-2022		As above	7.71	3.7	2.8	14	170	540
17	October-2022		As above	8.19	5.5	3.5	15	540	920
18	November-2022		As above	8.26	5.7	3.8	16	540	920

(B)

Progress /Status Report for Ground water quality monitoring pertaining to PRS River for November-2022:

Month	Location	pH	BOD (mg/l)	COD (mg/l)
Nov- 2022	BorewellNadiadGIDC Water Works	8.29	0.8	10

(C)

Drains Details with Flow

Sr.No.	Location	Name of Inletting River/Drain	Discharge (MLD)	
			Max.	Min.
1	Nadiad	Natural Drain	34	28
2	Kheda	Natural drain	0.020	0.010

(D)

STP & CETP Results

Nadiad STP Results (November - 2022):

Sample Date	sampling point	BOD (mg/l)	COD (mg/l)	FC (MPN/100 ml)	pH	SS (mg/l)	TDS (mg/l)	NH3-N
29/11/2022	**From the final outlet of STP**	10	42	<1.8	8.38	46	1818	7.78
Standard		**<10**				**<10**		

CETP Results:

Not Applicable, No CETP in the PRS.

18. Tapi

(A)

Progress/Status Report of the River/PRS water quality monitoring for the Month November-2022:

Sr. No.	Month/ Date	Location ID	Name of Location	Parameter					
				pH	DO (mg/l)	BOD (mg/l)	COD (mg/l)	Fecal coliform (MPN/ 100ml)	Total coliform (MPN/100 ml)
1	June-2021		Kathor, N.H. 8	8.33	7.1	1.0	8	11	40
			Varachha Bridge	8.42	7.0	1.1	9	14	58
			ONGC Bridge	7.35	6.1	1.9	23	17	46
			Rander	8.4	7.2	0.9	6	12	40
			Swamivivekanand Bridge	7.45	5.5	2.8	25	43	120
			Sardar Bridge	7.45	5.6	2.6	21	23	70
			Umara Temple	7.47	6.0	2.0	-	24	94
2	July-2021		Kathor, N.H. 8	7.93	6.8	1.4	7	14	48
			Varachha Bridge	7.95	7.0	1.2	8	17	63
			ONGC Bridge	7.69	5.4	1.8	22	21	58
			Rander	7.81	7.2	1.0	6	17	70
			Swamivivekanand Bridge	7.53	4.8	2.4	13	47	140
			Sardar Bridge	7.62	5.2	2.0	12	38	120
			Umara Temple	7.51	5.0	2.2	-	20	63
3	August-2021		Kathor, N.H. 8	7.40	7.2	0.9	7	17	58
			Varachha Bridge	7.58	7.0	1.0	8	20	70
			ONGC Bridge	7.52	6.1	1.8	24	22	63
	2/8/21		Rander	7.81	7.2	0.9	5	33	120
	3/8/21		Swamivivekanand Bridge	7.73	5.9	2.2	18	49	150

	3/8/21		Sardar Bridge	7.78	5.7	2.3	19	43	140
	3/8/21		Umara Temple	7.76	6.2	1.9	-	17	58
4	September-2021		Kathor, N.H. 8	7.95	7.1	1.1	9	10	41
			Varachha Bridge	7.65	7.0	1.2	9	17	58
			ONGC Bridge	7.55	6.4	2	22	17	58
			Rander	7.69	7.0	1.1	9	26	94
			Swamivivekanand Bridge	7.21	6.6	1.9	12	47	140
			Sardar Bridge	7.3	6.7	1.9	13	41	120
			Umara Temple	7.26	6.4	1.9	-	14	46
5	October-2021		Kathor, N.H. 8	7.95	7.3	0.9	5	25	84
			Varachha Bridge	7.81	7.2	1	6	31	120
			ONGC Bridge	7.98	6.6	1.4	12	23	84
			Rander	8.29	7.1	0.9	7	25	84
			Swamivivekanand Bridge	7.81	6.9	1	8	58	150
			Sardar Bridge	7.7	6.8	1.1	9	48	120
			Umara Temple	7.76	6.7	1.3	-	40	94
6	November-2021		Kathor, N.H. 8	8.18	7.2	0.8	7	12	43
			Varachha Bridge	8.27	7	1	7	17	63
			ONGC Bridge	7.67	6.2	1.9	22	12	47
			Rander	8.09	7.1	1	8	32	110
			Swamivivekanand Bridge	7.57	6.8	1.3	10	43	150
			Sardar Bridge	7.46	6.5	1.5	11	41	110
			Umara Temple	7.4	6.4	1.6	-	14	48
7	December-2021		Kathor, N.H. 8	8.14	7.2	0.9	6	6	33
			Varachha Bridge	8.32	7.2	1	6	17	63
			ONGC Bridge	7.37	6.2	2.4	21	17	46
			Rander	8.22	7.1	1.1	7	22	110
			Swamivivekanand Bridge	7.91	6.2	2	19	33	130
			Sardar Bridge	7.94	6.1	2.1	19	11	46
			Umara Temple	7.7	6	2.2	20	17	58

8	January - 2022		Kathor, N.H. 8	8.15	7.2	1	7	10	31
			Varachha Bridge	7.74	6.9	1.1	9	17	46
			ONGC Bridge	7.49	6.3	2	24	12	46
			Rander	8.18	7.4	1.2	7	14	43
			Swamivivekanand Bridge	7.36	6.1	1.9	21	12	43
			Sardar Bridge	7.58	6.2	2	22	12	43
			Umara Temple	7.61	6.4	1.8	24	17	63
9	February-2022		Kathor, N.H. 8	8.13	7.2	1.1	8	6	26
			Varachha Bridge	8.45	7.1	1.1	9	10	47
			ONGC Bridge	7.82	6.37	2.4	24	12	31
			Rander	8.22	7	1.1	8	17	43
			Swamivivekanand Bridge	7.82	6.4	2.4	22	12	34
			Sardar Bridge	7.87	6.6	2.2	23	10	27
			Umara Temple	7.81	6.2	2.3	24	14	43
10	March-2022		Kathor, N.H. 8	8.49	7.3	1	7	6	27
			Varachha Bridge	8.46	7.2	1	8	11	43
			ONGC Bridge	8.25	6.5	2.5	25	11	47
			Rander	8.45	7.1	1.2	9	6	33
			Swamivivekanand Bridge	8.5	6.5	2.5	20	10	43
			Sardar Bridge	8.47	6.3	2.2	22	17	58
			Umara Temple	8.45	6.5	2.3	23	15	40
11	April-2022		Kathor, N.H. 8	7.84	7.1	1.1	8	6	22
			Varachha Bridge	7.87	7.1	1.0	7	10	46
			ONGC Bridge	7.41	7.1	2.0	24	12	48
			Rander	8.46	7	1.2	9	10	43
			Swamivivekanand Bridge	7.41	5.9	2	24	12	48
			Sardar Bridge	7.63	6.3	2.1	20	12	43
			Umara Temple	7.64	6.2	2.3	21	14	39
12	May-2022		Kathor, N.H. 8	7.86	7	0.9	8	12	27
			Varachha Bridge	7.9	6.9	1.1	9	14	32

			ONGC Bridge	7.44	6.8	1.6	21	14	46
			Rander	8.49	7	1	9	12	33
			Swamivivekanand Bridge	7.44	6.8	1.6	21	14	46
			Sardar Bridge	7.69	6.7	1.6	22	22	48
			Umara Temple	7.68	6.6	1.9	--	17	40
13	June-2022		Kathor, N.H. 8	8.43	7	0.9	8	14	34
			Varachha Bridge	8.17	7.1	1.1	10	17	43
			ONGC Bridge	8.11	6.5	2.4	24	10	41
			Rander	8.38	6.8	1.2	10	10	27
			Swamivivekanand Bridge	7.9	6.4	2	28	12	43
			Sardar Bridge	7.67	6.4	2.3	25	14	46
			Umara Temple	7.98	6.3	2.2	--	13	43
14	July-2022		Kathor, N.H. 8	8.1	6.8	0.9	8	6,	27
			Varachha Bridge	7.8	6.7	1.1	8	17	48
			ONGC Bridge	7.9	6.4	1.6	14	10	43
			Rander	7.9	6.9	1	8	17	48
			Swamivivekanand Bridge	7.66	6.6	1.8	16	12	34
			Sardar Bridge	7.61	6.6	1.7	18	10	40
			Umara Temple	7.72	6.5	1.9	-	14	58
15	August-2022		Kathor, N.H. 8	8.5	6.9	0.8	6	6	22
			Varachha Bridge	8.45	6.8	1	10	14	46
			ONGC Bridge	8.54	6.6	1.4	26	12	40
			Rander	8.5	6.9	1	8	6	31
			Swamivivekanand Bridge	8.47	6.6	1.6	28	17	63
			Sardar Bridge	8.55	6.7	1.5	26	17	58
			Umara Temple	8.53	6.2	1.7	28	12	38
16	September-2022		Kathor, N.H. 8	8.43	7	1.1	7	6	27
			Varachha Bridge	8.25	6.9	0.9	8	12	40
			ONGC Bridge	8.28	6.5	1.9	28	14	41
			Rander	8.35	7	1.0	10	14	46

			Swamivivekanand Bridge	8.26	7	1.2	26	17	58
			Sardar Bridge	8.06	6.7	1.4	28	21	63
			Umara Temple	8.35	6.4	1.6	30	17	48
17	October-2022		Kathor, N.H. 8	8.08	7.1	1	8	12	34
			Varachha Bridge	8.1	7.2	0.9	7	14	47
			ONGC Bridge	8.01	6.4	1.9	26	14	43
			Rander	7.95	6.9	1	8	17	48
			Swamivivekanand Bridge	7.85	6.8	1.2	24	12	46
			Sardar Bridge	7.87	6.5	1.5	28	17	58
			Umara Temple	7.8	6.5	1.7	-	10	39
18	November-2022		Kathor, N.H. 8	8.47	7.3	0.8	8	6	26
			Varachha Bridge	8.48	7.1	1	8	10	39
			ONGC Bridge	7.22	6	1.4	20	6	48
			Rander	8.44	7.2	0.9	10	6	26
			Swamivivekanand Bridge	8.32	6	1.1	13	10	47
			Sardar Bridge	8.46	6	1.3	12	10	48
			Umara Temple	8.3	5.2	1.5	-	6	27

(B)

Progress /Status Report for Ground water quality monitoring pertaining to PRS River:

Name of Location	Date	BOD	DOX	FCO	FLU	MAG	NH_3	pH	SS	SUP	T.H	TCO	TDS	TKN	TMP
BORE WELL OF KADOD, TA.MANDVI	04/10/2021	2	4.8	<2	0.72	46.21	0.28	7.71	2	79	280	<2	732	0.558	30
	01/04/2022	1.6	3.5	<2	0.70	36.48	0.28	7.77	4	71	230	<2	714	0.84	29
	02/10/2022	1.5	3.5	<2	0.65	43.78	0.29	7.97	10	87	270	<2	892	0.86	28
BORE WELL OF SHREE SAI ASHA PETROL PUMP(IOC),BHATHA	06/10/2021	2.6	4.7	<2	0.59	92.42	0.28	8.35	2	206	570	<2	1920	0.558	30
	02/04/2022	1.7	3.1	<2	0.60	82.69	0.28	8.24	6	161	530	<2	1630	1.12	29
	01/10/2022	1.6	3.3	<2	0.58	70.53	0.29	8.36	20	195	440	<2	1954	1.14	30

(C) Drains Details with Flow:

Sr.No.	Location/Name of Drain	Discharge (MLD) Average
	Outside SUDA – L	
1	Koliwad	0.12
2	Rataniya	0.09
3	Tarsada	0.47
4	Village near Tarsada	2.44
5	Mori	0.07
6	Bhamaiya	0.08
7	Vaghechha	0.16
8	Timba	0.40
9	Machhi	0.10
10	Dhatva	0.20
11	Dungra	0.45
12	Kholeshwar	0.21
	SUDA-L	
13	Kamrej	6.58
14	Kholwad	4.58
15	Vav	14.37
16	Laskana	4.75
17	KoliBharthana	3.84
18	Valak Creek	43.24
19	Varachha Creek	51.72
20	JatBharthana	5.19
21	Pasodara	4.09
22	Sevni	4.98
	SMC-L	
23	Kotar-7	75
24	Kotar-9	5
25	Makkai Bridge	9

26	Sardar Bridge	11
27	Umra Drain	7
28	Dimple Row House	5
29	RundhJakatnaka	2
	Outside SUDA – R	
30	Mandvi	22.28
31	GamtalavBujrang	0.23
32	Ushkhedkhurd	0.07
33	Puna gam	0.26
34	Unn -kosadi	0.21
35	Nandpore	1.23
36	Kharoli	1.07
37	Kevadiya–Vadod	0.20
38	Bodhan	0.88
39	Nogama	1.30
40	Karjan	0.46
41	Virpore	0.20
42	Limodara	0.67
43	DhoranPardi	12.31
44	Khanjroli	0.14
45	Ghala	0.66
	SUDA – R	
46	Kathor	13.56
47	Bharthana	17.29
	SMC – R	
48	Swaminarayan Temple	7.5
49	Pal Jakatnaka	12.5
50	Pal-Halpativas	15

(D) STP & CETP Results

STP Results

Sr.No	Location of STP	Date of Sample	pH	SS (mg/l)	BOD (mg/l)	FC (MPN/100 ml)
1	**Sewage Treatment Plant- Signapore, Surat**	03/11/2022	7.67	14	16	22
2	**Sewage Treatment Plant-Gavier, Surat**	03/11/2022	8.10	16	14	21

CETP Results

No Industrial waste water discharge into this River stretch

19. Triveni

(A)

Progress/Status Report of the River/PRS water quality Monitoring (November -2022):

Sr. No.	Month/ Date	Location ID	Name of Location	Parameter					
				pH	**DO (mg/l)**	**BOD (mg/l)**	**COD (mg/l)**	**Fecal coliform (MPN/ 100ml)**	**Total coliform (MPN/100 ml)**
1	June-2021		Triveni sangam	The sample could not be collected since sufficient water was not available for sampling. The river isn't perennial in nature.					
2	July-2021			7.53	6.0	2.3	11.2	< 1.8	< 1.8
3	August-2021			7.85	6	2.1	10	< 1.8	9.2
				Note: There was considerably higher pilgrimage rush due to auspicious shravan month					
4	September-2021			-	5.9	2.3	10.40	< 1.8	< 1.8
5	October-2021			7.39	6.2	2.1	14.4	< 1.8	< 1.8
6	November-2021			8.16	6.4	2.2	8.32	< 1.8	< 1.8
7	December-2021			7.59	6.3	2.2	9.1	< 1.8	< 1.8
8	January – 2022			7.57	6.6	2.1	9.1	< 1.8	< 1.8
9	February-2022			7.35	6.8	2.1	7.95	< 1.8	2
10	March-2022			7.44	6.8	2.1	7.97	< 1.8	< 1.8

11	April-2022			7.37	6.6	2.1	8.40	< 1.8	< 1.8
12	May-2022			7.33	7.6	1.83	8	< 1.8	2
13	June-2022			7.25	6.8	2.1	8.70	< 1.8	< 1.8
14	July-2022			7.57	6.5	2.1	8.70	< 1.8	< 1.8
15	August-2022			7.45	6.6	2.3	7.60	< 1.8	< 1.8
16	September-2022			7.52	6.6	2.1	08	<1.8	<1.8
17	October-2022			8.46	6.5	2.2	8.31	<1.8	2
18	November-2022			7.69	6.7	2.3	7.53	<1.8	<1.8

Note:- Does not fall in any Priority as per June-2020 to November-2022 MPRs.

(B) STP & CETP results

STP Results: There is no discharge of domestic wastewater into this River stretch

CETP Results: There is no Industrial effluent discharge into this River stretch.

20. Vishwamitri

(A)

Progress/Status Report of the River/PRS water quality monitoring for the Month November-2022:

Sr. No.	Month/ Date	Location ID	Name of Location	Parameter						
				pH	DO (mg/l)	BOD (mg/l)	COD (mg/l)	Fecal Coliform (MPN/100ml)	Total coliform (MPN/100ml)	Faecal Streptococci (MPN/100ml)
1	June-2021	3204	At Asod	8.05	7.4	0.7	7	11	90	
		3205	At Khalipur	7.24	0	21	88	>1600	>1600	
2	July-2021	3204	At Asod	7.81	8.5	0.7	6.0	11	70	
		3205	At Khalipur	7.22	0	15	68	>1600	>1600	
3	August-2021	3204	At Asod	7.67	8.2	0.7	5.0	17	70	<1.8
		3205	At Khalipur	7.15	0	12	54	>1600	>1600	47
4	September-2021	3204	At Asod	7.89	8.2	0.8	5.0	6	63	< 1.8
		3205	At Khalipur	7.73	0	6	33	>1600	>1600	33

5	October-2021	3204	At Asod	8.44	8	0.8	6.0	6.8	70	< 1.8
		3205	At Khalipur	8.2	0	8	35	>1600	>1600	17
6	November-2021	3204	At Asod	7.76	8	0.7	6.0	6.8	70	< 1.8
		3205	At Khalipur	7.28	0	18	65	>1600	>1600	33
7	December-2021	3204	At Asod	7.78	8	0.5	6.0	6.8	70	<1.8
		3205	At Khalipur	7.76	0	23	105	>1600	>1600	27
8	January-2022	3204	At Asod	8.13	8.5	0.6	6	2	63	<1.8
		3205	At Khalipur	7.55	0.0	25	90	>1600	>1600	21
9	February-2022	3204	At Asod	8.29	7.9	0.7	8	<1.8	47	<1.8
		3205	At Khalipur	7.62	0	27	92	>1600	>1600	17
10	March-2022	3204	At Asod	7.89	7.8	0.7	8	4	63	<1.8
		3205	At Khalipur	7.49	0	14	68	>1600	>1600	11
11	April-2022	3204	At Asod	8.49	4.8	0.9	10	4	63	<1.8
		3205	At Khalipur	7.79	0	17	83	>1600	>1600	11
12	May-2022	3204	At Asod	Sample not collected since no water in river it was found dry during visit.						
		3205	At Khalipur	7.74	0	15	73	>1600	>1600	63
13	June-2022	3204	At Asod	Sample not collected since no water in river it was found dry during visit.						
		3205	At Khalipur	7.73	0	30	63	>1600	>1600	11
14	July-2022	3204	At Asod	Sample not collected since no water in river it was found dry during visit						
		3205	At Khalipur	7.73	1.0	14	213	540	14.	<1.8
15	August-2022	3204	At Asod	8.08	6.60	0.80	6	2	47	<1.8
		3205	At Khalipur	7.39	2.1	5	24	920	1600	<1.8
16	September-2022	3204	At Asod	7.99	6.5	0.7	7	2	27	<1.8
		3205	At Khalipur	7.76	0	16	63	920	1600	<1.8
17	October-2022	3204	At Asod	8.13	7.2	0.8	13	4	33	<1.8
		3205	At Khalipur	7.88	0	12	51	>1600	>1600	<1.8
18	November-2022	3204	At Asod	8.34	7	0.8	6	4	26	<1.8
		3205	At Khalipur	8.25	0	8	40	>1600	>1600	33

(B)

Progress /Status Report for Ground water quality monitoring pertaining to PRS River for November-2022:

Sample ID and Date	Sampling Point	pH	COD	BOD	TDS
*	WATER PROJECT RAP BOREWELL AT HANUMAN TEMPLE ATLADRA				
364100-02/11/2022	WATER PROJECT RAP BOREWELL AT KAMATIBAUG	8.21	11	0.8	940

*****during visit it was non operational due to electricity issue sample could not be collected.

(C) Drains Details with Flow

Sr. No.	Location	Name of Inletting Drain	Flow in MLD
1	Nr. New Sama Bridge	Cygnus School – Krishna Party Plot Drain	0.972
2	Parth School	Bharwadwas	1.440
3	Behind VUDA Bldg.	-	1.500
4	Behind Sayaji Soc.	SayajiSoc.Drain	1.944
5	Bahucharaji Kirti Tower	Various Tributaries at different Locations	11.127
6	Bhimnath Bridge	ParshuramBhatta	1.35
7	B/H Jail Court	Jail & Court Compund Drain	0.305
8	Nr. AkotaDandiaBarzar Bridge	-	0.00
9	Nr. Urmi School	Overflow of Sama Lake	2.333
10	BharwadwasSama	GIPCL Circle Drain	3.840
11	Nr. Narhari Bridge	-	2.092
12	Planatorium	Various Tributaries at different Locations in BhukhiKaans	14.959
13	Nr.Darshanam (Parshuramnagar Soc.)	ParshuramBhatta	2.218
14	Nr. AkotaDandiaBarzar Bridge	-	1.037
15	B/h. Akota Village	Akota Village	0.47
16	Nr. Ratri Bazar	VIP road drain	2.312
17	Urmi Bridge	Sama Lake Char Rasta	2.197
18	Bharwadwas	Kamatipura Area	2.00

19	Opp. Agora Mall	Navrachana School – GIPCL Circle	1.128
20	Opp. Ratri Bazar	EME Campus	0.00
21	Munjmahuda Bridge	Western part of Munjmahuda	8.156
22	Kalali B/H BSUP	Kalali Village	1.620
23	B/H Dental College	-	1.00
TOTAL			**64**

(D) STP & CETP results

STP Results – November 2022

November-22						
Name of STP	**Parameter**	**pH**	**COD mg/L**	**BOD mg/L**	**TC (MPN/100 ml)**	**FC (MPN/100 ml)**
STP at Tarsali – Capacity : 52 MLD		8.22	124	28	>1600	>1600
STP at Gajarawadi – Capacity : 66 MLD		8.26	75	18	>1600	>1600
STP at Sayaji Garden – Capacity : 16 MLD		8.68	12	<5	49	27
STP at Kapurai – Capacity : 43 MLD		8	61	12	>1600	>1600
STP at Rajivnagar – Capacity : 78 MLD		8.29	14	<5	79	33
STP at Chhani – Capacity : 21 MLD		8.36	69	16	>1600	>1600
Atladara – I (Old STP at Atladra) – Capacity : 43 MLD		8.56	39	9	920	540
Ataladara – II (New STP at Atladra) – Capacity : 43 MLD		8.38	82	19	>1600	>1600
Kapurai –New – Capacity : 60 MLD		8.32	13	<5	110	70

Note: NA- Not Analysed

CETP Results: Not Applicable

Annexure-III

Details w.r.t point no. XV, XVI, XVII & XVIII is given by Irrigation Dept./ Water Resource Dept., NWR WS & KD as on date

Sr no	River Name	Stretch	Priority	Details / Status
1	Sabarmati	Kheroj to Vautha	I	1. Environmental flow: • 50 to 100 Cusecs of water is released from Dharoi Dam in to Sabarmati river as per the requirement in the Down Stream of Dharoi Dam, Sabarmati is not a perennial river • Proposed plan to achieve min e-flow: Sufficient water is released in D/S of Dharoi dam in Sabarmati River hence question does not arise. 2. Detail of Good Irrigation Practices: • General government practice of irrigation is maintained in command area of Vasana Barrage. • Farmers are made aware to use water efficiently. • Canal System of Fatehwadi canal system is 80% lined so as to minimize seepage losses. As such no water logging issues noticed so far in the command area of Vasana Barrage. 3.Detail on Flood Plain Management Zone: • As far as Vasana Barrage is concerned 7 villages of Ahmadabad District, 8 villages of Kheda and 1 Village of Anand are identified which and may be affected due to floods in D/s of Vasana Barrage, for more than 2,00,000 lakh cusecs discharge from dam. In such condition people of these villages are warned through early warning arrangement in consultation with revenue department.
2	Bhadar	Jetpur to Saran vill	I	1. Environmental flow: • Bhadar is not a perennial river. • Sometimes releasing surplus flood water during monsoon period, June to October in Bhadar River through spillway gates at Bhadar Dam site to Saran around 25 Km hence there is no question of releasing water during month from November to May period. • During the monsoon and on availability of excess flood water from Bhadar Dam to Saran. (June to October) 2. Detail of Good Irrigation Practices: • General government practice of irrigation is maintained in command area of Bhadar-1 irrigation project and Bhadar-2 irrigation project. • Farmers are made aware to use water efficiently. • Main Canal System and distributary of Bhadar 1 and

				Bhadar 2 is lined so as to minimize seepage losses. As such no water logging issues noticed so far in the command area of Bhadar 1 and Bhadar 2 Canal System. 3. Detail on Flood Plain Management Zone: • As far as Bhadar 1 project, Lilakha & Bhadar-2 reservoir project, Bhukhi is concerned 37 villages of Rajkot District, 3 villages of Junagadh and 15 Village of Porbandar are identified which and may be affected due to floods in D/s of Bhadar 1 project, Lilakha & Bhadar-2 reservoir project, Bhukhi, for more than 2,50,000 lakh cusecs discharge from above two dams. In such condition people of these villages are warned through early warning arrangement in consultation with revenue department.
3	Amla Khadi	Pangam to Bharuch	I	1. Environmental flow: • NA, Amla Khadi is not a perennial river, it is a drain/ Khadi meeting to Narmada ricer. There is no existing storage Dam/Weir on this drain. Water gets polluted due to effluents released from the industrial units located in up stream of this khadi. 2. Detail of Good Irrigation Practices: • There is no Irrigation project existing on Amla Khadi hence NA. 3. Detail on Flood Plain Management Zone: • No such heavy flood is noticed in this drain, hence NA.
4	Bhogavo	Surendranagar to nana Kerala	I	• Environmental flow: • Bhogavo is not a perennial river. • Sometimes releasing surplus flood water during monsoon period, June to October in Bhogawo River through spillway gates at Bhogawo Dam site to Nana Kerala around 17 Km hence there is no question of releasing water during month from November to May period. • During the monsoon and on availability of excess flood water from Bhogavo to Kerala. (June to October) 2.Detail of Good Irrigation Practices: • General government practice of irrigation is maintained in command area of Wadhwan Bhogavo -1 irrigation project and Wadhwan Bhogawo -2 irrigation project is reserved for Drinking Water Purpose.

				• Farmers are made aware to use water efficiently. 3.Detail on Flood Plain Management Zone: • As far as Wadhwan Bhogavo 1 reservoir project and Wadhwan Bhogavo-2 reservoir project, is concerned 12 villages of Surendranagar District are identified which and may be affected due to floods in D/s of Wadhwan Bhogavo 1 project, & Wadhwan Bhogavo - 2 reservoir project, Wadhwan Bhogavo-1 & Wadhwan Bhogavo-2, for more than 1,36,861 cusecs discharge from above two dams. In such condition people of these villages are warned through early warning arrangement in consultation with revenue department.
5	Khari	Lali Village To Kashipura	I	1. Environmental flow: • Khari River is a small tributary of the Sabarmati River & not a perennial river. There is no any structure built on Khari River. In the monsoon season the natural water is flown in to the river which flows in to the river up to month of February-March. In the summer season Water is released after treated as per the government norms by Municipal Corporation from the STP plants situated on the banks of the river. • Sufficient water is flown during almost all of the year hence the question does not arise. 2. Detail of Good Irrigation Practices: • This river does not contain command area. • Farmers are made aware to use water efficiently.
				• Canal System of Kharicut canal system is 80% lined so as to minimize seepage losses. Also, Kharicut canal receives water from Narmada Canal. 3.Detail on Flood Plain Management Zone: • As far as Khari river is concerned it is tributary of Sabarmati river, the village is situated in the bank of the river are warned as per the flood memorandum through early warning arrangement in consultation with revenue department.
6	Vishwamit Ri	Vadodara to Asod	II	1. Environmental flow: • NA, when flood water of Ajwa and Pratapura sarovar (which are under Vadodara, Mahanagar seva sadan) is excess, the flood water is flowing in Vishwamitry River. Moreover there is disposal of domestic waste water and recycled sewage water from Vadodara Mahanagar seva sadan in Vishwamitry River which passes thorugh the Vadodara City. So the concerned authorities are requested to stop the disposal of water in Vishwamitry River. • Proposed plan to achieve min e-flow: As Vishwamitri is Non-perennial River hence existing e-flow does not arise.

				2. Detail of Good Irrigation Practices: • As there is no irrigation project on Vishwamitry River and in Vadodara to asod no irrigation is prevailing. Hence no question arises about good irrigation practices. 3. Detail on Flood Plain Management Zone:
				• As far as Vishwamaitry flood protection work is concerned about different 10 wireless stations are located during the flood season for rainfall and gauge discharge measurement out of which Ajwa, Pratappura and city Bridge Stations are under Vadodara Mahangar Seva Sadan According to Danger level of City Bridge the different low lying areas identified and people are warned through early warning arrangement in conclusion with local administration.
7	Dhadar	Khotada to Chandpura	III	1. Environmental flow: • NA, Dhadhar is not a perennial River. When the access of flood water released from Deo Dam, ultimately the water of Deo River meets to Dhadhar River at village Banaiya, Ta. Dabhoi. • Proposed plan to achieve min e-flow: As Dhadhar is Non-perennial River hence existing e-flow does not arise. 2. Detail of Good Irrigation Practices: • General Government Practice of irrigation is maintained in command area of Deo irrigation project and jojwa-wadhwana irrigation project. • Deo irrigation project – CCA 5887 Ha. • Jojwa – Wadhwana irrigatin project- 6750Ha. • 15 No. of small check dam – 70 Ha. Indirect irrigation • 27 Lift Irrigation Schemes-135 Ha. Indirect irrigation • Farmer are frequently made aware to use water optimally. 3. Detail on Flood Plain Management Zone:
				• According to rule level which decided by the Govt. of Gujarat the access water from Deo Dam is released and there are about 33 villages of Halol, Waghodia & Dabhoi Taluka are identified which might go under submergence zone. Hence according to that different low lying villages are identified and people are warned through early warning arrangement in consultation with local administration.
8	Triveni	Sangam to Badlapura	III	1. Environmental flow: • Triveni stretch from Triveni Sangam to Badlapura is of Saraswati River from Badalpura to Triveni. Saraswati River is not a perennial river hence, there is

				no E-flow in lean season. The water is polluted at Triveni by pilgrims as they performs rituals in this reservoir. Hence, it is proposed to construct separate enclose for performing ritual by pilgrims and this will help in keeping the water of Triveni free from pollution. • There is no inflow from November to May in Sarasvati River, Sarasvati River is a local river, Tributary of Hiran River and there is no storage scheme on upstream of Badalpura on this stream hence it is not possible to maintain e-flow in this streach. 2. Detail of Good Irrigation Practices: • Saraswati is not a perennial river and there is no scheme for irrigation in this river. However, **26** Nos of Check dams are constructed on upstream side of Badalpura village which help in in filtering of rain water into the ground the water table of surrounding area is replenished and the farmers are getting indirect benefits. 3. Detail on Flood Plain Management Zone: • The stretch of river Saraswati from Badalpura to Triveni is very near to Sea shore. The river Saraswati meets river Hiran near Triveni Sangam and the flood water is directly discharged to the Sea through Somanath Tidal Regulator downstream of Triveni.
9	Amravati (Tributary Of Narmada)	Dadahi Ta. Ankleshwar Amravati River	IV	1. Environmental flow: • 1360 cusecs in lean period. • There is no inflow from March to May in Amravari River. Hence there is no question of releasing water during above period. However during March to May average flow in river is 1360 cusecs. Hence the question for proposed new plan to achieve min e-flow does not arise. 2. Detail of Good Irrigation Practices: • General government of irrigation is maintained in command area of Karjan Project. • Farmers are made aware to use water optimally. Excess water flow from B-3 branch canal of Karjan reservoir project escape at ch 2525 vill. Dharoli irrigation rotation period. • As such no water logging issues are notice due to irrigation command area. 2. Detail on Flood Plain Management Zone: • NIL
10	Damanga Nga	Vapi to Zari	IV	1. Environmental flow: • 805 MCM (For monsoon period) (As per MoEF & CC

				Norms) • Proposed plan to achieve min e-flow: More than enough flow is available hence question does not arise. 2. Detail of Good Irrigation Practices: • General Government Practice of irrigation is maintained in command area of Damanganga reservoir project. • Farmers are made aware to use water optimally. • Canal System of Damanganga project are fully lined so as to minimize seepage losses. • As such no water logging issue noticed so far in the command area of Damanganga reservoir project. 3. Detail on Flood Plain Management Zone: • As far as Damanganga reservoir project is concerned 13 villages of Valsad District, 14 villages of UT of Dadra & Nagarhaveli and 10 Village of UT of Daman are identified which and may be affected due to floods in D/s of Damanganga Dam, for more than 2,50,000 lakh cusecs discharge from dam. In such condition people of these villages are warned through early warning arrangement in consultation with revenue department.
11	Kolak	Salav to Kikaria	IV	1. Environmental flow: • Non Perennial River • There is no storage Dam on u/s of the stretch shown. 2. Detail of Good irrigation Practices: • General Government Practice of irrigation is maintained in command area of Damnaganga reservoir project.
				• Farmers are made aware to use water optimally. • Canal System of Damanganga project are fully lined so as to minimize seepage losses. • As such no water logging issue noticed so far in the command area of Damanganga reservoir project. 3. Detail on Flood Plain Management Zone: • No flood hazard situation has been noticed in the vicinity of Kolak River and there is no dam on Kolak River hence need to prepare flood management plan, is not arise till today.

12	Mahi	Sevaliya to Bahadarpura	IV	1. Environmental flow: • Minimum 300 cusecs water is released on d/s of Wanakbori weir or escapes constructed on Mahi right bank canal. Excess flood water will be realised in Monsoon as per availability. 2. Detail of Good Irrigation Practices: • General Government practice of irrigation is maintained in command area of Mahi stage-1 project. The MRBC-1 caters 2,72,515 Ha. Area covering Anand and Kheda District. In case of acute shortage of water, the canals are run on rotational basis as to use water effectively. Farmers are made aware to use water optimally. Our majority of canal is Lined canal as to minimize seepage loss of water logging problem. 3. Detail on Flood Plain Management Zone: • As far as Mahi Stage-1 project is concerned, 267 villages of Anand, Kheda, Panchmahaal, Mahisagar and Vadodara District are identified which may have affected due to floods in downstream of Wanakbori weir for more than 12,65,000 cusecs discharge from Wanakbori weir, in different inflow conditions, gradually white, blue and red signals are being issued well in time depending upon inflow inflow into wanakbori weir. In such condition people of those villages are warned through early warning arrangement in consultation with Revenue Dept. the flood cells are made operational 24 hours ago throughout the monsoon.
13	Shedi	Dakor to Kheda	IV	1. Environmental flow: • River is not a Perennial river hence NA. By releasing surplus flood water through Mohr escape at Ch. 181.80 Km of Narmada Main Canal under SSNNL and through different escapes of Mahi Right Bank Canal off-taking from Vanakbori Weir. There is disposal of domestic waste water near Dakor and Nadiad. So the concerned authorities are requested to stop the disposal of waste water in Shedhi River. 2. Detail of Good Irrigation Practices: • NA 3. Detail on Flood Plain Management Zone: • NA

14	Tapi	Kadod (Bardoli) to Surat	IV	1. Environmental flow: • Existing E-Flow is 2039 Cusec in lean period. • Proposed plan to achieve min e-flow: There is no inflow from December to May in Tapi River hence there is no question of releasing water during the above period, however during December to May average flow in river Tapi is 2039 Cusecs hence the question for proposed new plan to achieve minimum e-flow does not arise. 2. Detail of Good Irrigation Practices: • General Government practice of irrigation is maintained in command area of Ukai - Kakrapar Project. • Farmers are made aware to use water optimally. • During last three years' majority of canal lined at cost Rs. 540 crores. Canal system of Kakrapar Project are most of lined so as to minimize seepage losses. • As such no water logging issues are noticed due to irrigation in command area. 3. Detail on Flood Plain Management Zone: • As far as Tapi Reservoir Project is concerned. 252 villages of Surat District are identified which & may affected due to Floods in downstream of Kakrapar Weir for more than 3,91,100 cusecs discharge from Kakrapar, ln such condition people of these villages ae warned through early waning arrangement in consultation with Revenue Dept. • The work of Operational Flood Early Warning Model development for tapi basin has been taken up by National Remote Sensing Centre. ISRO, Hydrabad.
15	Anas	Dahod to Fatehpura	V	1. Environmental flow: • 735 MCM (As per MoEF & CC Norms) • Proposed plan to achieve minimum e-flow: There is less inflow from December to May in Anas River hence there is no question of releasing water during above period, however December to May, Average flow in river Anas is 600 Cusecs hence question does not arise. 2. Detail of Good irrigation Practices: • NA 3. Detail on Flood Plain Management Zone: • NA

16	Baleshwar Khadi	Pandesara to Kepletha	V	1. Environmental flow: • NA, Baleshwar Khadi is not a perennial river. 2. Detail of Good irrigation Practices: • There is no Irrigation project existing Baleshwar Khadi. So the question of Irrigation Practice does not arise. 3. Detail on Flood Plain Management Zone: • No such heavy flood is noticed in this drain, so question does not arise.
17	Kim	Sahol Bridge to Hansol	V	1. Environmental flow: • NA 2. Detail of Good Irrigation Practices: • There is no Irrigation Project existing on Kim River. So question does not arise. 3. Detail on Flood Plain Management Zone: • As far as Kim river is concerned 13 villages of Bharuch District are identified which & may affected due to heavy floods in downstream. ln such condition people of these villages are warned through early warning arrangement in consultation with Revenue Dept.
18	Meshwo	Along Samlaj i	V	1. Environmental flow: • Nil • Meshwo River is not a perennial river. During monsoon period when water level crosses 214.59 mt. level, then only water of reservoir can pass through river. 2. Detail of Good Irrigation Practices: • General Government practice of irrigation is maintained in command area of Meshwo Project. • Farmers are made aware to use water optimally. • Every year routine maintenance work of Meshwo Canal is carried out for optimum water usage and to minimise seepage losses. • As such no water logging issues are noticed due to irrigation in command area. 3. Detail on Flood Plain Management Zone: • The maximum flood recorded in meshwo project is 73000 cusecs. As far as meshwo project is concerned 19 villages of Modasa and Bhiloda Taluka are identified which may get affected due to flood in down-stream of Meshwo Dam upto 7300 cusecs discharge from waste weir in such condition people of this villages are warned through early warning arrangement in consultation with revenue department.

19	Mindhola	Mindhola River Stretch near Sachin	V	1. Environmental flow: • NA 2. Detail of Good Irrigation Practices: • General Government practice of irrigation is maintained in command area of Ukai - kakrapar Project. • Farmers are made aware to use water optimally. • Canal system of Kakrapar Project are most of lined so as to minimize seepage losses. As such not water logging issued noticed so far ln the command area of Ukai-Kakrapar project. 3. Detail on Flood Plain Management Zone: • NA
20	Narmada	Garudeshwar to Bharuch	V	1. Environmental flow: • 600 cusecs • Garudeshwar weir (Ungated) is lacated at village Garudeshwar 12.10 Km D/S of SSP Canal at completion stage. 2. Detail of Good irrigation Practices: • General Government practice of irrigation is maintained in command area of Sardar Sarovar Narmada Project • Farmers are made aware to use water optimally • Canal system of Sardar Sarovar Naramada Project are fully lined so as to minimize seepage losses. • As such no water logging issue noticed so far in the command area of canals of Sardar Sarovar Narmada Project. 3. Detail on Flood Plain Management Zone: • NA

Annexure-IV

Details w.r.t point no.XIX given by Forest Dept. /PCCF/ACCF/Concerned as on date

Existing plantation / vegetation cover details	Proposed plan	Time limit	Remarks
25,000 Plants were planted along the Sabarmati and Meshwo river in the areas available under the Vanmahotsav and other Schemes of the forest Department with the co-operation of local People.	1.54 Lacs plantation to be done in 2020-2021	2020-2021	As per AAP (Annexure A) for both side plantation on PRS during 2020-21.

Annexure – A

List of Polluted River Stretches of Gujarat (River Both side Plantation AAP in 2020-21)		
Sr. No.	River	Plants (In lakhs)
1.	Sabarmati	1.54
2.	Bhadar	0.20
3.	Amlakhadi	0.10
4.	Bhogavo	0.60
5.	Khari	0.02
6.	Vishwamitri	0.15
7.	Dhadhar	1.10
8.	Triveni	0.10
9.	Amravati	0.10
10.	Damanganga	0.25
11.	Kolak	0.25
12.	Mahi	0.20
13.	Shedhi	0.15
14.	Tapi	0.35
15.	Anas	0.05
16.	Baleshwar Khadi	0.02
17.	Kim	0.02
18.	Meshwo	0.40
19.	Mindhola	0.05
20.	Narmada	0.45
Total		6.10

Plantation of **6.91** lakh trees have been carried out on both the sides of polluted river stretches against the action plan for planting 6.10 lakh trees

Annexure-V

Details received from concerned department regarding reuse of treated wastewater

Treated waste water utilization policy:

- Gujarat Government has framed Policy for Reuse of "Treated Waste Water (TWW)" by maximising the collection and treatment of sewage generated and reusing the treated wastewater on a sustainable basis. In this regards, revised action plan has been submitted by Gujarat Water Supply and Sewerage Board (GWSSB) to Chairman, CPCB where one of the objectives of the revised action plan is to reuse 70% of treated wastewater by 2025 and 100% of treated wastewater by 2030.
- As per the details received from Gujarat Water Supply & Sewerage Board, Latest status of Treated waste water reuse in the State is as under:

	TWW reuse started (MLD)	Project in tender/execution stage (MLD)	Projects under planning (MLD)	Total
Municipal Corporation	773	102	860	1735
Municipality	23	6.5	-	29.50
Total	**796**	**108.5**	**860**	**1764.5**

Annexure-VI

Non-Complying CETPs
September – 2022

Sr.No.	Name of CETP	Non-Complying parameters	Limit as per consent, mg/L	Result of September - 2022, mg/L	Details of Action Taken
1.	M/s. The Green Environment Services Co. Op. Society Ltd, Vatva, Ahmedabad	SS	100	106	No action taken
2.	M/s. Odhav Enviro Project Ltd., Odhav, Ahmedabad	BOD	30	34	No action taken
		SS	100	114	
		Phenolic Compounds	1	1.14	
3.	M/s. Gujarat Vepari Maha Mandal Sahkari Udhyogik Vasahat Ltd, Ahmedabad	SS	100	210	No action taken
4.	M/s. Odhav Green Enviro Project Association,Odhav, Ahmedabad	BOD	30	58	No action taken
5.	M/s. Naroda Enviro Project Ltd., Naroda, Ahmedabad	COD	250	324	No action taken
		BOD	30	36	
		Phenolic Compounds	1	1.59	
6.	Narol Dyestuff Enviro Society	SS	100	104	No action taken
		Phenolic Compounds	1	1.11	
7.	Narol Textile Infrastructure & Enviro Management, (ATPA Swarnim Gujarat Enviro P. Ltd).	SS	100	102	No action taken
8.	Bavla Eco Project Ltd-CETP	COD	250	336	DNS
9.	Enviro Infrastructure Co. Ltd (CETP)	SS	100	124	DNS
10.	M/s. Narmada Clean Tech Ltd., (Bharuch Eco-Aqua Infrastructure Ltd.,) (BEAIL), Ankleshwar	BOD	100	102	DNS
		NH_3-N	50	80.08	
11.	M/s. CETP of Kejriwal Integrated Textile Park Ltd – KITPL	COD	<20	26	DNS
12.	Vapi Green Enviro Ltd (VGEL,Vapi) (OldName-Vapi Waste & Effluent Management Co.Ltd)	SS	100	102.5	SCN issued on 12/10/2022
13.	CETP of Bhatgam Washing Ghat Suddhikaran Yojana Pvt .Ltd.	pH	6 to 9	9.13	DNS
		COD	250	514	
		BOD	100	163	
14.	M/s. Jetpur Dyeing & Printing Association, Jetpur, Rajkot	COD	250	271	DNS
		SS	100	114	
15.	CETP of Shri Dhareshwar GIDC Vistar Association	COD	250	406	DNS
		BOD	100	140	
16.	M/s MPSEZ Utilities Ltd.	COD	250	296	DNS
17.	Mangrol Enviro Protect LLP	COD	<40	98	DNS
		SS	<10	12	

*DNS- Details not submitted