Gujarat - Monthly Progress Report of Polluted River Stretches February - 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
February - 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. <u>Details of Sewage Treatment Plant:</u>

- Existing no. of STPs and Treatment Capacity (in MLD): 73 nos, 3485 MLD
  [37 under construction STPs are complete and are now under trial /operational i.e additional 855.56 MLD]
- Capacity Utilization of existing STPs: 2739 MLD
  [additional utilization capacity as on February 2022 – 282.91 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 4340.56 MLD treatment capacity as per Annexure 1A i.e total capacity of existing+ newly commissioned STPs. Additional treatment capacity is 337.56 MLD]
- No. of Operational STPs: 73 [110 as on February 2022]
- No. of Complying STPs: 20
- No. of Non-complying STPs: 43 (including 21 STPs not obtained fresh/renewal of CTE & CCA)
- ULBs having Oxidation ponds: 8
- Site of the STPs not visited: 5
- Details of STPs not available: 12
- STPs just commissioned / under trial run: 22
- 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:	12815 (Source: India E-Track Portal September-2020 data)
Quantity of effluent generated from the industries in MLD:	Details are being prepared.
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:	12700 (Source: India E-Track Portal September-2020 data)
Number of industrial units connected to CETPS:	**6385** (Source: Annual Report: 2019-20)
Number and total capacity of ETPs (details of existing/ under construction / proposed)	➢ Existing ETPs-12700 (Source: India E-Track Portal September-2020 data) Capacity not available
Compliance status of the ETPs:	➢ No of ETP complying with Norms-12551 (Source: India E-Track Portal September-2020 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: 20, ➢ Non complying: 16 (Please refer **Annexure VI**) *(as per CM dash board data for **January-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 12815 water polluting industries 12700 industries having ETP. 12551 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. Proposal not received from PRH & RDD/ Concerned for in-situ remediation.	
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 10th RRC meeting held on 01/09/2021 and it was decided to assign a task of preparing Action Plan for management of Coastal / Marine

pollution to Gujarat Environment Management Institute (GEMI). Proposal is sought from GEMI w.r.t the Scope of Work.	
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 (10^{th} RRC) meeting was conducted on 01/09/2021. Following are the major concluding remarks during the meeting addressing the concerned departments & agencies:

- GUDM, PRH&RDD, GWSSB:
  - To relook the timelines of under construction & proposed STPs, to submit revised timeline details for completion of STPs,

- 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.

- 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.
  - To take necessary actions against the CETPs, ETPs & STPs not complying with the consented conditions and copy of the same to be submitted to RRC.
- GPCB through Regional Office Ahmedabad, to collect water samples of river Sabarmati from all the vulnerable locations between Hansol to Pirana at weekly intervals and to send analysis reports along with remarks on source of pollution and observations to Municipal Commissioner, Ahmedabad with copy of the same to the concerned.
- Industries Commissioner office to expedite the deep sea disposal project
- GUDM, GWSSB, SMC & SUDA to sort out the all the issues especially including the land issues related to Tapi Shuddhikaran.
- Ahmedabad Municipal Corporation
  - To convene a meeting of Municipal Commissioner, Ahmedabad & CEO Ahmedabad Urban Development Authority to sensitize all the concerned regarding seriousness of pollution in river Sabarmati
  - To chalk out the time bound action plan to stop the untreated sewage discharge into river Sabarmati,
  - To expedite the process of proposed / under construction STPs and up gradation of existing STPs.
- GPCB to assign work of preparing action plan for management of coastal/ marine pollution to GEMI.

Current status of the projects proposed under action plans of Polluted River Stretches: (*From total proposed 99 STPs related to PRS, work of 13 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. 10% work completed.	1. March 2021 2. 15/09/2022	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 & under trial run.	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 (Priority - I)**	STP Jetpur–Navagadh	100% Completed & Under trial run.	1. March 2021 2. --	* 8.9 & Gujarat Urban	

		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)	Work in Progress. 96% overall work Completed.	1. February 2020 2. 31/03/2022	* 8.9 & Gujarat Urban Development Mission	
		Vapi Chandor (29.53 MLD)	DPR/DTR stage. Revised DPR approved.	1. March 2021 2. 31/03/2023		
		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)	100% work is completed	1. March 2021 2. 28/02/2022		
		Channi (new) (50 MLD) (STP + Network)	83% work of STP is completed Permission of canal crossing is under process.	1. December 2021 2. 31/03/2022		
		Atladara (new) (84 MLD)*	Tender online.	1. December 2022 2. 31/12/2022 3. 31/12/2023		

		Tarsali/GIDC (new) (100 MLD) (STP + Network)*	Tender online.	1. December 2023 2. 31/12/2022 3. 31/12/2022		
		Karjan Nagarpalika 5.2 MLD	84% completed.	1. December 2023 2. 31/05/2022		
		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	Commissioned	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 assistance.	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 pipeline network.

15.	**Narmada (Priority - V)**	---	---			
16.	**Sabarmati (Priority - I)**	Pirana 155 MLD STP	100% 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.38% Physical progress.	1.March 2021 2.31/12/2022		
		STP at Koteshwar 60 MLD	Tender to be invited	1. --- 2.31/12/2022	---	Newly proposed STP which was not included in the River Action Plan
		Pethapur STP (12 MLD – tentative)	DPR under scrutiny.	1.--- 2.31/12/2022	---	Newly proposed STP which was not included in the River Action Plan
17.	**Shedhi (Priority - IV)**	Kheda STP (5.2 MLD)	Under Progress, 96% Completed.	1.March 2021 2.31/03/2022	* 8.9 & Gujarat Urban Development Mission	
		To Channel untreated sewage into STP (Nadiad)	Work order given on 17.01.2020 47% Completed.	1.July 2020 2.December 2021		

18.	**Tapi (Priority - IV)**		Land issues in 27 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)	100% work is completed	1. March 2021 2. 28/02/2022		
		Channi (new) (50 MLD) (STP + Network)	83% work of STP is completed Permission of canal crossing is under process.	1. December 2021 2. 31/03/2022		
		Atladara (new) (84 MLD)*	Tender online.	1. December 2022 2. 31/12/2022 3. 31/12/2023		
		Tarsali/GIDC (new) (100 MLD) (STP + Network)*	Tender online.	1. December 2023 2. 31/12/2022 3. 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	Plant 100% completed, Trial run under progress	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	Work in Progress 99% Completed	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	Land Possession received Work in progress. 7% Completed	1. February – 2022 2. September-2022	
9.	Kamrej- Dungra (0.67 mld) SUDA	Land Possession received Work in progress. 5% Completed	1. February – 2022 2. September-2022	

10.	Kamrej-Dhoran Pardi-2 (12.5 mld) +Dhoran Creek (1.18 mld) ,SUDA	Land Possession received Work in progress. 1% Completed	1. February – 2022 2. September-2022	
11.	Kamrej – Kolibharthana (4.3 mld) SUDA	Land Possession received Work in progress. 5% Completed	1. February – 2022 2. September-2022	
12.	Kamrej- Pasodara (4.15 mld) + Laskana (5.17 mld), SUDA	Land Possession received Work in progress. 5% Completed	1. February – 2022 2. September-2022	
13.	Kamrej- Karjan (1 mld) SUDA	Land Possession received Work in progress. 1% Completed	1. February – 2022 2. September-2022	
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	Land Possession received Work in progress. 10% Completed	1. February – 2022 2. September-2022	Land Possession received on 04.06.2021 Delay due to Land Possession.
	Cluster-1			
16.	Kamrej- Timba (0.75 MLD)	Work in Progress 78 % 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 71% Completed	1. February – 2022 2. September-2022	Land allotment proposal is with Collector, Surat
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 75% Completed	1. February – 2022 2. September-2022	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 85% Completed	1. February – 2022 2. September-2022	Land is allotted.
29.	Mandvi- Gamtalav Bujrang + Uskhed Khurd (0.45 MLD)			Land is allotted.
30.	Mandvi STP(3.5 MLD)	Work in Progress 29% 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 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.
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	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)	work of Panchayat Department, Tender can be invited only after receiving necessary Administrative approval/Grant.		
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 29 STPs (14 Urban + 15 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	3.99	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 Dist: Surat	Baleswar	0.90	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
9.		Kareli	0.13		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	Land is available

				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.	
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			24.54		

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 (Priority - V)**	Proposed Up gradation of CETP GETPL to achieve ZLD to achieve ZLD	Obtained CTE Amendment for zero 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.	0.45	Gujarat Eco Textile Park 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	0.4	Jetpur Dyeing & Printing Association.

			Bhadar. Additional new activity (was not included in the River Action Plan): Work 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 (Priority - V)**	There is no industrial wastewater discharge into this river stretch.		---	---
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)	Completed the installation of common effluent spray dryer project.	---	---

		modification:- Proposed Spray Dryer			
		Narol Dyestuff Enviro Society (NDES) Expn. up to 0.45 MLD	At present no plan for further expansion 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	0.08	Mafatlal Industries Limited

			of Nadiad Nagarpalika.		
		CETP Nadiad (0.5 MLD)	Nadiad GIDC association has put up proposal for land allotment to GIDC. 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.	0.05	Nadiad GIDC Association.
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.

Annexure – 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 January-22	Reason for Non Compliance	Action Taken
1.	Ahmedabad Pirana 2009	60	60	Operational	Non Compliance		SCN-08/02/2022
2.	Ahmedabad Old Pirana 2004	106	106	Operational	Non Compliance		Direction-24/02/2022
3.	Ahmedabad Pirana 2009	180	180	Operational	Non Compliance		Direction-24/02/2022
4.	Ahmedabad Vasna 2004	126	126	Operational	Non Compliance		Direction-24/02/2022
5.	Ahmedabad Vasna 2009	35	35	Operational	Compliance		
6.	Ahmedabad Vasna 2011	240	235	Operational	Non Compliance		Direction-24/02/2022
7.	Ahmedabad Vinzol 2011	70	70	Operational	Non Compliance		Action under process
8.	Ahmedabad Vasna 2018	48	48	Operational	Non Compliance		Direction-24/02/2022
9.	Ahmedabad Jal ViharVadaj 2019	60	60	Operational	Non Compliance		SCN-08/02/2022
10.	Ahmedabad Vinzol 2020	35	30	Operational	Site not visited		
11.	Ahmedabad Arvind Mill	8	8	Operational			
12.	Ahmedabad Rasala	1	1	Operational	Site not visited		
13.	Ahmedabad Vastrapur Lake	0.5	0.5	Operational			
14.	Ahmedabad V S Hospital	1	1	Operational			
15.	Ahmedabad Nikol	0.5	0.5	Operational			
16.	Ahmedabad ShahpurShankarBhuvan 2020	25	20	Operational	Compliance		
17.	Ahmedabad Lambha	5	2	Operational	Site not visited		
18.	Ahmedabad Vinzol 2021	100	-	Operational	Site not visited		
19.	Ahmedabad Pirana2021	155	-	Operational	Non Compliance		Direction-24/02/2022
20.	Surat Singanpore 2003/2014/2021	255	147.58	Operational	Compliance		

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP as on January-22	Reason for Non Compliance	Action Taken
21.	Surat Karanj 1999/2015	140	136.59	Operational	Compliance		
22.	Surat Bhatar 1999/2014/2017	162	162	Operational	Compliance		
23.	Surat Anjana 1995/2007/2019	122	121	Operational	Compliance		
24.	Surat Bamroli 2008/2019	100	100	Operational	Non Compliance	One TTP (40 MLD) is found not in operation during the visit.	SCN on dated 29/03/2022
25.	Surat Bhesan 1995/2009/2020	200	120.52	Operational	Compliance		
26.	Surat Khajod 2011	25	24.20	Operational	Compliance		
27.	Surat Asarama 2011	15	15	Operational	Non Compliance	Unit has not obtained CCA-Renewal of the Board	SCN on dated 23/03/2022
28.	Surat Dindoli 2012/2019	167	72.50	Operational	Compliance		
29.	Surat Variav-Kosad 2012/2017	134	131	Operational	Compliance		
30.	Surat Gavier 2016	53	16	Operational	Compliance		
31.	Vadodara Tarsali	52	58	Operational	Non Compliance	1. During visit scrapper of Secondary Sedimentation Tank-02B found not in operation. 2. Flow meter is not provided at final outlet of STP. 3. Analysis Report is not meeting with	Notice of Direction issued on 05/01/2022

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP as on January-22	Reason for Non Compliance	Action Taken
						norms.	
32.	Vadodara Gajarawadi	66	72	Operational	Non Compliance	1. Flow meter is not provided at final outlet of STP. 2. Analysis Report is not meeting with norms.	--
33.	Vadodara Kapurai	43	30	Operational	Non Compliance	1. Flow meter is not provided at final outlet of STP. 2. Analysis Report is not meeting with norms. 3. Not provided OCEMS at final outlet.	Notice of Direction issued on 24/02/2022
34.	Vadodara Rajivnagar	78	55	Operational	Compliance		
35.	Vadodara Sayaji garden	16	7	Operational	Compliance		
36.	Vadodara Channi	21	21	Operational	Non Compliance	1. Chlorination was found not in operation. 2. Flow meter is not provided at inlet and final outlet of STP.	--
37.	Vadodara Atladara (old)	43	51	Operational	Compliance		
38.	Vadodara Atladara (new)	43	43	Operational	Non Compliance	1. At the time of visit scrapper of	--

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP as on January-22	Reason for Non Compliance	Action Taken
						secondary clarifier-1 was found in non working condition. 2. Flow meter is not provided at final outlet of STP.	
39.	Vadodara Kapurai (New)	60	22	Operational	Compliance		
40.	Gandhinagar Jaspur 2007	76	45	Operational	Non Compliance	Parameters are higher than permissible limit.	SCN issued on 07/02/2022.
41.	Gandhinagar Sargasan 2012-13	10	3	Operational	Non Compliance	During visit, all units of STP were found not in operation.	NOD was issued on 16/03/2022.
42.	Gandhinagar Basan 2011-12	2	1	Operational	Non Compliance	- During visit, foul odour was sensed in STP area. - Parameters are higher than permissible limit	SCN issued on 16/03/2022
43.	Rajkot Nr Raiya village 2010	51	51	Operational	Compliance		
44.	Rajkot Raiyadhar 2017	56	35	Operational	Compliance		
45.	Rajkot Nr Madhapar 2018	44.5	10	Operational	Non Compliance	No valid CCA	SCN issued on 18/11/2021
46.	Rajkot Nr Kothariya Village 2017	15	11	Operational	Non Compliance	They have discharged domestics treated water in to river Khokhadadad.	NOD issued on 13/01/2022
47.	Rajkot Gavaridad 2018	70	35	Operational	Compliance		
48.	Rajkot Madhapar 2019	80	65	Operational	Non Compliance	No valid CCA	SCN issued on 18/11/2021
49.	Bhavnagar Nari	30	24	Operational			

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP as on January-22	Reason for Non Compliance	Action Taken
	road, Kumbharwada						
50.	Bhavnagar Behind Excel industries	45	45	Operational			
51.	Jamnagar Navagam Ghed	70	70	Operational	Compliance		
52.	Gandhidham - Anjar	30.00	22	Operational			
53.	Patan	25.00	13	Operational	Non Compliance	CCA not obtained	SCN issued on 19/07/2021
54.	Nadiad	51.26	20	Operational	Non Compliance	AR not meeting with norms	Action under progress
55.	Siddhpur	5.62	5	Operational	Oxidation Pond		
56.	Vallabh Vidhyanagar	15.00	12	Operational	Non Compliance	CTE/CCA not obtained	NOD dtd. 23/02/2022
57.	Sanand	20.50	0	Non-Operational	Site not visited		
58.	Himmatnagar	17.51	6	Operational	Non Compliance	Not meeting with outlet Norms	Notice of Direction issued on 05/02/2022
59.	Petlad	10.37	8	Operational	Non Compliance	CTE/CCA not obtained	NOD dtd. 23/02/2022
60.	Dholka	13.60	8	Operational	Non Compliance	CTE/CCA not obtained	Direction dated 03/01/2022 u/s 33/A of Water Act 1974
61.	Savarkundla	13.90	5	Operational	Oxidation Pond		
62.	Gadhda	6.50	2	Operational	Oxidation Pond		
63.	Kathlal	3.80	2.59	Operational	Oxidation Pond		
64.	Mahudha	2.10	1.76	Operational	Oxidation Pond		
65.	Bayad	4.00	2.06	Operational	Oxidation Pond		
66.	Patadi	2.80	1.33	Operational	Oxidation Pond		
67.	Sojitra	2.30	2	Operational	Oxidation Pond		
68.	Dwarka	7.50	2.28	Operational	Non Compliance	CTE/CCA not obtained	NOD issued on 14/07/2021
69.	Godhra	27.60	4	Operational	Compliance		
70.	Bhuj	23.70	19	Operational	Non Compliance	Operating without valid CTE & CCA	NOD issued vide dated 03/01/2022 with CC to GSSWB & GUDM for necessary

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP as on January-22	Reason for Non Compliance	Action Taken
							action at their level.
71.	Bhachau	10	4	Operational			
72.	Anand-1	33	9	Operational	Non Compliance	- CTE/CCA not obtained - Parameters were exceeding limits.	NOD dtd. 23/02/2022
73.	Anand-2	13.5	2.5	Operational	Non Compliance	CTE/CCA not obtained	Pending
74.	Surendranagar	32.3	17	Operational	Non Compliance	Not having valid CC&A. Nagarpalika applied for CC&A Application that is under process.	-
75.	Valsad-1	20.2	2	Operational	Non Compliance	CTE/CCA not obtained	-
76.	Morbi-1	28.8	6	Operational			
77.	Jasdan	8.80	4	Operational	Under trial run		
78.	Tharad	4.80	2.5	Operational	Non Compliance	Final outlet is meeting with norms, CTE/CCA not obtained	
79.	Dehgam	7.60	4	Operational	Non Compliance	not obtained CTE/CCA of the board	Action under process
80.	Dhangadhra	11.60	3	Operational	Non Compliance	Not having valid CTE and CC&A.	-
81.	Porbandar-2	19.10	5	Operational			
82.	Bardoli	11.30	0	Under Trial Run	Under trial run		
83.	Vyara	6.50	1.50	Operational			
84.	Chhota Udepur	5.00	1.5	Operational			
85.	Borsad	9.80	3	Operational	Non Compliance	CTE/CCA not obtained	NOD dtd. 23/02/2022
86.	Idar	7.40	2.5	Operational	Non Compliance		
87.	Visnagar-1	12.00	4	Under trial run	Under trial run		
88.	Dahod	13.70	4	Operational	Non	Not obtained	SCN issued on

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP as on January-22	Reason for Non Compliance	Action Taken
					Compliance	CTE/CCA	24/01/2022
89.	Zalod	4.60	1.5	Under Trial Run	Non Compliance	Not obtained CTE/CCA	SCN issued on 10/01/2022
90.	Deesa	17	12	Operational	Non Compliance	CTE & CCA not obtained	
91.	Mahuva	16.30	3.5	Operational			
92.	Prantij	3.70	1.0	Operational	Non Compliance		
93.	Khedbrahma	5.8	2.0	Operational	Non Compliance		
94.	Bareja	3.10	-	Operational	Under trial run		
95.	Kheralu	2.90	-	Operational	Under trial run		
96.	Una	11.70	-	Operational			
97.	Morbi-2	9.30	-	Operational			
98.	Padra	5.60	-	Under Trial Run	Under trial run		
99.	Amreli	18.20	-	Operational			
100.	Dhandhukha	7.50	-	Operational			
101.	Umreth	6.10	-	Operational			
102.	Jetpur	23.50	-	Under Trial Run			
103.	Botad	32.00	-	Under Trial Run			
104.	Bantva	2.60	-	Operational			
105.	Visnagar-2	5.30	-	Operational			
106.	Vijapur	4.10	-	Operational			
Total		**4318.26**	**3014.91**				

New STPs under trial run.

107.	Vadodara Bhayli Old	05	05	Operational			
108.	Vadodara Vemali	02	02	Operational			
109.	Kadi	12.80	-	Under Trial Run			
110.	Ode	2.5	-	Under Trial Run			
Total		**22.3**	**7.0**				

Total Capacity of existing STPs: 4318.26 + 22.3 = 4340.56 MLD

(Note: Total new Five STPs completed compared to the MPR for the month of January – 2022 i.e Four newly constructed STP added in above table + one STP of Sayajigarden completed & its capacity is added into the existing STP of Sayajigarden at Sr.No. 35)

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	70%	Completed	31/08/2022
2	Ahmedabad Kotarpur	60	38%	Completed	31/12/2022
3	Ahmedabad saijpur lake	07	06%	Completed	31/12/2022
4	Surat Bhatar	115	99%	Completed	30/04/2022
5	Surat Bamroli	115	91%	Completed	30/06/2022
6	Surat Asarma	22.5	93%	Completed	05/06/2022
7	Surat Khajod	30	91%	Completed	30/06/2022
8	Vadodara Chhani	50	83%	Completed	31/05/2022
9	Vadodara Bhayli	45	72%	Completed	31/05/2022
10	Rajkot Kothariya, on NH bypass	15	87%	Completed	30/09/2022
11	Rajkot Raiyadhar	8.00	12%	Completed	31/12/2022
12	Bhavnagar Axcel Industries	50	72%	Completed	05/11/2022
13	Bhavnagar Akwada	19.2	34%	Completed	16/02/2023
14	Junagadh Bilkha Road, Near CBSE School	8.2	99.50%	Completed	31/03/2022
15	Rajula	5.70	53%	Completed	31/07/2022
16	Bagasara	5.90	82%	Completed	30/06/2022
17	Chalala	2.80	98%	Completed	31/03/2022
18	Talaja	5.80	93%	Completed	15/04/2022
19	Mansa	5.00	77.5%	Completed	28/05/2022
20	Dhanera	4.00	70%	Completed	15/04/2022
21	Bhabhar	3.50	65%	Completed	15/04/2022

No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
22	Thara	3.60	77%	Completed	15/04/2022
23	Unjha	11.60	99%	Completed	30/04/2022
24	Radhanpur	6.00	35%	Completed	11/11/2022
25	Talod	3.60	62%	Completed	28/06/2022
26	Vadali	3.80	66%	Completed	28/06/2022
27	Jambusar	5.90	98%	Completed	30/04/2022
28	Amod	3.10	98%	Completed	30/04/2022
29	Bilimora	8.30	67%	Completed	30/07/2022
30	Gandevi	2.60	55%	Completed	26/07/2022
31	Dharampur	4.10	85%	Completed	31/03/2022
32	Devgadhbariya	3.80	98%	Completed	31/03/2022
33	Santrampur	2.91	98%	Completed	31/05/2022
34	Kalol (P)	4.77	83%	Completed	30/04/2022
35	Shehra	2.80	65%	Completed	31/05/2022
36	Viramgam	4.50	96%	Completed	31/03/2022
37	Bavla	5.80	84%	Completed	30/04/2022
38	Chaklasi	4.90	0.00%	Completed	07/03/2023
39	Kapadwanj	6.20	77%	Completed	30/06/2022
40	Mehmdabad	5.60	98%	Completed	31/03/2022
41	Dakor	4.90	3%	Completed	31/12/2022
42	Kheda	5.20	96%	Completed	31/03/2022
43	Chotila-1	2.30	60%	Completed	31/05/2022
44	Chotila-2	1.70	65%	Completed	31/08/2022
45	Barwala	2.90	41%	Completed	09/08/2022
46	Harij	3.00	75%	Completed	15/04/2022
47	Chanasma	2.50	0.00%	Completed	31/12/2022

No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
48	Karjan	5.20	84%	Completed	31/05/2022
49	Vadnagar	5.94	95%	Completed	31/03/2022
50	Gondal	16.50	53%	Completed	18/05/2022
51	Kalol	23.50	20%	Completed	30/06/2023
52	Palanpur	21.30	5%	95%	30/06/2023
53	Bharuch	29.32	97%	96%	31/05/2022
54	Vapi-1	14.00	96%	Completed	31/03/2022
55	Anand-3	6.50	95%	Completed	30/06/2022
56	Porbandar-1	12.80	88%	Completed	30/06/2022
57	Damnagar	2.80	0.00%	Completed	30/09/2022
58	Lathi	3.80	0.00%	Completed	30/09/2022
59	Keshod	13.30	10%	Completed	31/08/2023
60	Anklav	3.60	70%	Completed	04/03/2022
61	Khambhat-1	6.80	2%	Completed	28/02/2023
62	Khambhat-2	4.50	42%	Completed	28/02/2023
63	Thangadh	9.00	70%	Completed	07/09/2022
64	Balasinor	6.50	30%	Completed	06/12/2022
65	Savli	2.5	24%	Completed	18/10/2022
66	Dabhoi	8.96	42%	Completed	18/10/2022
67	Kanjari	3.3	75%	Completed	31/05/2022
68	Halvad	7.1	2%	Completed	19/01/2023
69	Rajpipla	5.5	60%	Completed	17/10/2022
70	Pardi	4.60	0.00%	Completed	31/03/2023
71	Mandvi Surat	3.50	18%	Completed	15/06/2022
72	Ankleshwar	14.00	10%	Completed	15/09/2022
73	Umargam	6.48	20%	Completed	14/12/2022

No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
74	Karamsad	7.00	50%	Completed	14/09/2022
75	Boriavi	3.30	45%	Completed	14/09/2022
76	Lunawada	5.60	25%	Completed	16/11/2022
77	Palitana	10.81	2%	Completed	31/12/2022
78	Sikka	2.90	30%	Completed	15/12/2022
79	Dhoraji	12.90	22%	Completed	31/01/2023
80	Jamjodhpur	3.60	10%	Completed	25/12/2022
81	Wankaner	5.80	3%	Completed	31/01/2023
82	Bhachau	5.5	60%	Completed	14/12/2022
83	Visavadar	3.40	40%	Completed	30/11/2022
84	Manavadar	4.90	46%	Completed	31/01/2023
85	Chorvad	3.70	56%	Completed	30/11/2022
86	Songadh	4.5	12%	Completed	03/12/2022
87	Modasa	12.0	0.00%	35%	31/03/2023
88	Bhanvad	3.00	0.00%	Completed	24/12/2022
89	Khambhalia	5.50	1%	Completed	24/12/2022
90	Salaya, Jamnagar	6.20	48%	Completed	24/12/2022
91	Rapar	5.2	55%	Completed	07/01/2023
92	Dhrol	3.60	10%	Completed	22/11/2022
93	Kodinar	5.60	24%	Completed	18/02/2023
94	Kutiyana	2.90	0.00%	Completed	15/03/2023
95	Ranavav-1 (Adityana)	3.00	0.00%	Completed	15/03/2023
96	Ranavav-2	4.50	0.00%	Completed	15/03/2023
97	Babra	4.00	20%	Completed	14/12/2022
98	Vallabhipur	2.30	0.00%	Completed	31/03/2023
99	Shihor	8.9	32%	Completed	18/05/2023

No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
100	Sutrapada	4.00	16%	Completed	18/01/2023
101	Talala	3.80	9%	Completed	18/02/2023
102	Ahmedabad Dafnala	25	0.00%	Completed	31/12/2022
103	Gandhinagar Sargasan	50	0.00%	Completed	31/12/2022
104	Halol	12.35	1%	50%	21/04/2023
105	Kalavad	4.50	25%	Completed	28/12/2022
106	Jafrabad	5.4	0.00%	Completed	24/04/2023
107	Gariyadhar	7.1	26%	Completed	07/04/2023
108	Lunawada	5.60	3.00%	Completed	30/06/2022
109	Okha	10.10	0.00%	Completed	25/04/2023
110	Porbandar-Chhaya	13.10	0.00%	Completed	19/02/2023
111	Bhayavadar	3.10	0.00%	Completed	26/04/2023
112	Surat Variav-Kosad	86	0.00%	Completed	31/01/2024
113	Surat Karanj	71	0.00%	Completed	31/01/2024
Total		**1406.94**			

Total STPs under construction= 1406.94 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	31/12/2022
2	Vadodara Tarsali	100	Tender Online	31/12/2023
3	Vadodara Atladara	84	Tender Online	31/12/2023
4	Vadodara Gajarawadi	130	DPR under scrutiny	31/12/2023
5	Gandhinagar Bhat	25	DPR under scrutiny	31/12/2022
6	Gandhinagar Pethapur	12	DPR under scrutiny	31/12/2022
7	Jamnagar Nr Rangmati River	50	DPR/DTP stage	31/12/2022
8	JunagadhKalva	15.50	Work order Given	31/12/2022
9	JunagadhZanzarda	11.00	Work order Given	31/12/2022
10	JunagadhNr Lol River	29.50	Work order Given	31/12/2022

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
11	Beyt (near Okha)	1.20	Tender under approval	31/12/2022
12	Vijalpor - Navsari	47.40	LoI issued	31/03/2023
13	Veraval- Patan	33.90	Tender to be invited	31/12/2022
14	Vapi-2	29.53	DPR approved	31/03/2023
15	Thasra	2.30	Tender to be invited	31/12/2022
16	Mandvi-2 (Salaya)	3.20	Tender under approval	31/12/2022
17	Mandvi-1 (JT Grounds)	5.30	Tender under approval	31/12/2022
18	Jamraval	2.60	Tender to be invited	31/12/2022
19	Maliya	2.50	Tender under evaluation	31/12/2022
20	Valsad-2	15.00	DPR approved	31/03/2023
21	Mahesana-1	23.18	Tender approved	31/03/2023
22	Mahesana-2	18.46	Tender approved	31/03/2023
23	Mangrol	13.2	DPR/DTP stage	31/12/2022
24	Vanthli	2.2	DPR/DTP stage	31/12/2022
25	Tarsadi	5.8	Tender under evaluation	31/12/2022
26	Limdi	7.4	DPR/DTP stage	31/12/2022
27	Upleta	8.0	DPR/DTP stage	31/12/2022
28	Kadodara	-	DPR/DTP stage	31/12/2022
29	SMC (Kanakpur Kansad)	7.80	DPR/DTP stage	31/12/2022
Total		745.97		

Total Capacity of Proposed STPs = 745.97 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 February-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

(B)

Progress /Status Report for Ground water quality monitoring pertaining to PRS River for Feb-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
50634	Gujarat Gas Office, Umervada	7.68	<5	5	0.007	BDL	BDL	0.5	0.084	NA	0.004	0.046
50635	Vill. Juna Pungam	7.93	<5	5	0.006	BDL	BDL	0.133	BDL	NA	BDL	0.013
	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 February-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

(B)

Progress /Status Report for Ground water quality monitoring pertaining to PRS River for Feb-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	7.35	<5	5	0.016	0.01	BDL	0.748	0.068	NA	0.021	0.148

*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 (February– 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

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

(B)

STPs Results

Not Applicable. There are no existing / operational STP in the region. STPs for Dahod and Zalod Nagarpalikas are under trial run, as stated above.

(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 (February-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	0.8	14	3.9	<1.8	7.39	<1.8	1112
Well At Hindu Dharamashala, Station Road, Dahod	0.8	15	5.9	<1.8	7.82	<1.8	638

4. Baleshwar Khadi

(A)

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

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

(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)
05/02/2022	CETP Of Gujarat Eco Textile Park Ltd	8.47	30	259	4.8	60	21.3	0.78
Standard		6.5 to 8.5	30	250	-	<60	50	1
05/02/2022	CETP Of New PalsanaIndustrial Co-Op. Society Ltd.	8.38	28	240	5.6	46	32.2	0.36
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

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

5. Bhadar

(A)

Progress/Status Report of the River/PRS water quality monitoring for the Month February-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

(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	02/02/2022	1.2	8.0	832	7.41

(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		February -2022 Results	
1	CETP of Jetpur Dyeing & Printing Association (PCB ID-19722)	DO (mg/l)	--	DO (mg/l)	Results awaited
		pH	6.5 to 9	pH	
		BOD (mg/l)	100	BOD (mg/l)	
		COD (mg/l)	250	COD (mg/l)	
		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)	Results awaited
		pH	6.5 to 9	pH	
		BOD (mg/l)	30	BOD (mg/l)	
		COD (mg/l)	100	COD (mg/l)	
		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	DO (mg/l)	--	DO (mg/l)	Results

	Association (PCB ID-39298).	pH	6.5 to 9	pH	awaited
		BOD (mg/l)	30	BOD (mg/l)	
		COD (mg/l)	--	COD (mg/l)	
		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 February- 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

(B)

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

Location of sample collected	WATER PROJECT EMP PROGRAM BORE WELL WATER SAMPLE OF M/s BHAVANI PLASTIC GIDC WADHWAN – MONTHLY (29544)	
Sample ID	323623	
Date of sample collection	01-02-2022	
Parameter	**Unit**	**Result**
Arsenic	mg/l	NA
BOD	mg/l	1.1
COD	mg/l	8.74
Copper	mg/l	NA
pH	pH units	7.37
TDS	mg/l	1916
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 February-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-2021		GIDC Vapi Weir	7.99	6.80	0.7	8.0	13.0	39.0
			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

Note:- Does not fall in any priority as per MPRs for the months of June-2020 to February-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
28/01/2022	ROU	208	28	1025	240	67.2	42.0	7.77	7.11	358	80
Standards			**30**		**250**		**50**		**6.5-8.5**		**100**

(E)

Progress/Status Report of the River/PRS ground water quality monitoring February – 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)
03/02/2022	Borewell at Jilla Panchayat School, Kanta Faliya, Village Namdha	4.80	7.99	0.6	9.0	<1.8	<1.8	8.00	0.013	BDL	0.005

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 Kejeldahl Nirtogen (mg/l)	TDS (mg/l)	Conductivity (micromho/cm)
0.017	BDL	0.01	0.35	BDL	BDL	10.9	0.28	1.12	448	812

8. Dhadhar

(A)

Progress/Status Report of the River/PRS water quality Monitoring for the Month February-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-	1865	Kothwada	8.01	0.6	10	47	>1600	>1600	27

	2022		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

(B) STPs Results

February- 2022						
Name of STP	**Parameter**	**pH**	**COD mg/L**	**BOD mg/L**	**TC (MPN/100 ml)**	**FC (MPN/100 ml)**
	Standard	6.5-9.0	---	<30	---	**<1000**
STP at Tarsali – Capacity : 52 MLD		**7.45**	**173**	**46**	**>1600**	**>1600**
STP at Gajarawadi – Capacity : 66 MLD		**7.71**	**101**	**27**	**>1600**	**>1600**
STP at Sayaji Garden – Capacity : 8.5 MLD		**7.83**	**52**	**13**	**350**	**240**
STP at Kapurai – Capacity : 43 MLD		**7.62**	**60**	**16**	**>1600**	**>1600**
STP at Rajivnagar – Capacity : 78 MLD		**7.53**	**75**	**18**	**1600**	**920**
STP at Chhani – Capacity : 21 MLD		**7.76**	**97**	**26**	**>1600**	**>1600**
Atladara – I (Old STP at Atladra) – Capacity : 43 MLD		**7.73**	**83**	**23**	**>1600**	**>1600**
Ataladara – II (New STP at Atladra) – Capacity : 43 MLD		**7.69**	**96**	**27**	**>1600**	**>1600**
Kapurai –New – Capacity : 60 MLD		**7.65**	**17**	**5**	**350**	**240**

(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
323143-02/02/2022	Borewell At Por Gidc Office	8.10	13	0.7	884

9. Khari

(A)

Progress/Status Report of the River/PRS water quality monitoring for the Month February – 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

(B)

Progress /Status Report for Ground water quality monitoring pertaining to PRS River for February-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)

Location of sample collection	Discharge norms	Analysis Results
Final out let of STP Dtd.	pH-6.5 to 8.5	7.71
	BOD- Less than 20mg/L	8
	SS- Less than 30mg/L	4
	Total coliform(TC)- < 1000 MPN/100 ml	920
	Fecal coliform(FC)- < 1000 MPN/100 ml	350
	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 February-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

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

(B)

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

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

Location:- BOREWELL AT NEELAM FIBER KIM IND AREA PLOT (October-2021)

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

(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 February-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

Note: - Does not fall in any priority as per MPRs of June-2020 to February -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 (February – 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)
02/02/2022	Borewell at Koteshwar Mahadev Temple, Vatar	4.8	7.71	0.6	8.0	<1.8	<1.8	8.0	0.095	BDL	BDL

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)
0.089	BDL	0.02	0.45	BDL	BDL	10.48	0.28	1.12	520	958

12. Mahi

(A)

Progress/Status Report of the River/PRS water quality monitoring for the Month February-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		River Mahi at Sevalia	7.67	8.5	0.6	5	2	48
3	August-2021		River Mahi at Sevalia	8.06	8.4	0.6	5.0	2	39
4	September-2021		River Mahi at Sevalia	7.96	7.9	0.6	5.0	2	48
5	October-2021		River Mahi at Sevalia	8.48	7.7	0.7	5.0	2	40
6	November-2021		River Mahi at Sevalia	8.3	8.5	0.5	5.0	2	40

7	December-2021		River Mahi at Sevalia	7.95	8.5	0.5	6.0	6.8	63
8	January – 2022		River Mahi at Sevalia	8.5	8.5	0.5	6.0	4	47
9	February-2022		River Mahi at Sevalia	8.05	8.2	0.7	6.0	4	49

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

13. Meshwo

(A)

Progress/Status Report of the River/PRS water quality monitoring for the Month February-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	February-2022			7.76	6.79	0.71	10	< 1.8	12

(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)
02/02/2022	Borewell from Shamlaji Dharamshala	7.89	0.80	09	418

14. Mindhola

(A)
Progress/Status Report of the River/PRS water quality monitoring for the Month February-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

(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

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

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

(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 February - 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-2022		NTPC Zanor	8.46	8.29	0.85	9	49	110
			Zadeshwar	8.29	7.04	1.05	10	79	170
			Garudeshwar	8.18	8.58	0.77	5	17	46

16. Sabarmati

(A)

Progress/Status Report of the River/PRS water quality monitoring for the Month February – 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

(B)

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

Sr No	**Bore wells**	**pH**	**BOD(mg/I)**	**COD(mg/I)**	**TDS(mg/I)**
1.	**Gandhi Ashram**, Ahmedabad	7.78	0.73	12	708
2.	**Jain Temple**, Ahmedabad (Half yearly)	Half year project			
3.	**P T College**, Ahmedabad	7.79	0.78	13	310
4.	**Pirana Pumping Station**, Ahmedabad (Half Yearly)	Half year project			

5.	**GyaspurNr.MSW Site**, Ahmedabad	7.49	0.94	33	2004
6.	**Ajmeri Farm**, Ahmedabad	7.53	0.75	23	1604
7.	**Excel Industries**, Ahmedabad	7.66	0.81	22	1674
8.	**UPL Djl**, Ahmedabad	Bore well under maintenance			
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)**	7.45	0.83	12	772
13.	**GIDC-Vatva**, Ahmedabad**(10820)**	7.94	0.78	17	1584
14.	**GIDC-GVMM**, Ahmedabad**(10821)**	7.95	0.84	14	948
15.	**GIDC-Odhav**, Ahmedabad**(10804)**	7.62	0.79	17	1388
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 (February - 2022)

Sr No	Parameters	pH	BOD (mg/I)	TSS (mg/I)	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)	7.10	37	40	>1600	-
2	AMC PIRANA STP 106 MLD (UASB TYPE)	7.38	18	36	>1600	-
3	AMC PIRANA STP 180 MLD (ASP TYPE)	6.71	227	298	-	-
4	AMC VASNA OLD STP 126 MLD (UASB TYPE)	7.28	29	46	>1600	-

5	AMC VASNA STP 35 MLD (ASP TYPE)	7.64	06	08	540	-
6	AMC VASNA STP 240 MLD (ASP TYPE)	7.53	18	42	>1600	BDL
7	AMC VASNA STP 48 MLD (SBR TYPE)	7.42	09	36	540	BDL
8	AMC STP 60 MLD, VADAJ (SBR TYPE)	7.19	05	08	120	BDL
9	AMC STP 25 MLD, (SBR TYPE)	7.07	05	12	350	BDL

CETP Results (February - 2022)

Sr. No	Parameters	pH	COD(mg/I)	BOD(mg/I)
	Discharging norms of CETPs	**6.5 – 8.5**	**250**	**30**
1.	CETP GREEN VATVA(14438)	7.10	209	20
2.	CETP NEPL(12718)	6.66	567	49
3.	CETP OEPL(12890)	7.03	316	78
4.	CETP OGEPL(12891)	7.86	221	27
5.	CETP GVMM(11536)	6.92	333	80
6.	NAROL DYE STUFF CETP(12720)	7.26	113	23
7.	Narol Textile Infrastructure &Enviro Management (Narol Textile CETP)(34244)	7.86	158	34

17. Shedhi

(A)

Progress/Status Report of the River/PRS water quality monitoring for the Month February – 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

(B)

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

Month	Location	DO (mg/l)	pH	BOD (mg/l)	COD (mg/l)
October 2021 (Half yearly)	Borewell NadiadGIDC Water Works	--	8.04	0.7	11

(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 (February - 2022):

Sample Date	sampling point	BOD (mg/l)	COD (mg/l)	FC (MPN/100 ml)	pH	SS (mg/l)	TDS (mg/l)	NH3-N
22/02/2022	Final Outlet of the STP	72	267	>1600	7.65	22	2080	22.96
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 February-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-		Kathor, N.H. 8	8.18	7.2	0.8	7	12	43

	2021		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

(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
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

(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**	02/02/2022	8.17	24	22	31
2	**Sewage Treatment Plant-Gavier, Surat**	03/02/2022	8.13	26	32	33

CETP Results

No Industrial waste water discharge into this River stretch

19. Triveni

(A)

Progress/Status Report of the River/PRS water quality Monitoring (February -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

Note:- Does not fall in any Priority as per June-2020 to February-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 February-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

(B)

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

Sample ID and Date	Sampling Point	pH	COD	BOD	TDS
*	WATER PROJECT RAP BOREWELL AT HANUMAN TEMPLE ATLADRA	--	--	--	--
323176-02/02/2022	WATER PROJECT RAP BOREWELL AT KAMATIBAUG	7.53	15	0.6	710

*****visited twice during the month on 02/02/2022 and 14/02/2022 but since 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 – February 2022

February- 2022						
Name of STP	**Parameter**	**pH**	**COD mg/L**	**BOD mg/L**	**TC (MPN/100 ml)**	**FC (MPN/100 ml)**
	Standard	6.5-9.0	---	<30	---	<1000
STP at Tarsali – Capacity : 52 MLD		7.45	173	46	>1600	>1600
STP at Gajarawadi – Capacity : 66 MLD		7.71	101	27	>1600	>1600
STP at Sayaji Garden – Capacity : 8.5 MLD		7.83	52	13	350	240
STP at Kapurai – Capacity : 43 MLD		7.62	60	16	>1600	>1600
STP at Rajivnagar – Capacity : 78 MLD		7.53	75	18	1600	920
STP at Chhani – Capacity : 21 MLD		7.76	97	26	>1600	>1600
Atladara – I (Old STP at Atladra) – Capacity : 43 MLD		7.73	83	23	>1600	>1600
Ataladara – II (New STP at Atladra) – Capacity : 43 MLD		7.69	96	27	>1600	>1600
Kapurai –New – Capacity : 60 MLD		7.65	17	5	350	240

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	Vishwamitri	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	Damanganga	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

Stretch/ River	Existing plantation / vegetation cover details	Proposed plan	Time limit	Remarks
Sabarmati, Khari	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	222	790	1785
Municipality	23	6.5	-	29.50
Total	796	228.5	790	1814.15

Annexure-VI

Non-Complying CETPs

January – 2022

Sr. No.	Name of CETP	Non-Complying parameters	Limit as per consent, mg/L	Result of January-2022, mg/L	Details of action taken
1.	M/s. Odhav Enviro Project Ltd., Odhav, Ahmedabad	COD	250	274	Inspection report under process
2.	M/s. Gujarat Vepari Maha Mandal Sahkari Udhyogik Vasahat Ltd, Ahmedabad	SS	100	102	Inspection report under process
		NH_3-N	50	125.44	
3.	M/s. Odhav Green Enviro Project Association, Odhav, Ahmedabad	COD	250	373	Inspection report under process
		BOD	30	99	
		SS	100	292	
4.	M/s. Naroda Enviro Project Ltd., Naroda, Ahmedabad	COD	250	360	Inspection report under process
		BOD	30	58	
5.	M/s. Narol Dyestuff Enviro Society., Narol, Ahmedabad	COD	250	671	Inspection report under process
		BOD	30	177	
		SS	100	148	
6.	M/s. Bavla Eco Project Ltd., Bavla, Ahmedabad	COD	250	707	Closure direction u/s 33-A of the water Act-1974 issued on dated-20/01/2022 with effect of 30 days.
		BOD	100	153	
		SS	100	316	
7.	M/s. Narmada Clean Tech Ltd., (Bharuch Eco-Aqua Infrastructure Ltd.,) (BEAIL), Ankleshwar	COD	500	557	
		BOD	100	120	
		NH_3-N	50	72.8	
8.	M/s. Panoli Enviro Technology Ltd., GIDC-Panoli, Bharuch	SS	150	596	
9.	M/s. CETP of Kejriwal Integrated Textile Park Ltd	COD	<20	22	SCN Issued on dated: 29/03/2022
		BOD	<5	6	
		SS	<5	12	
10.	M/s. Fairdeal Textile Parks Pvt. Ltd, Kosamaba, Surat	pH	7 to 8	8.32	SCN Issued on dated: 28/03/2022
11.	Vapi Green Enviro Ltd(VGEL,Vapi) (OldName-Vapi Waste & Effluent Management Co.Ltd)	COD	250	264.5	SCN Issued on dated: 12/01/2022
		BOD	30	31	
12.	M/s. Veraval Industries Association, Veraval, Junagadh	COD	250	358	Notice of Direction On dated:05/01/2022
		BOD	100	108	
		NH_3-N	50	89.6	
13.	M/s. Bhatgam Washing	pH	6 To 9	9.52	Closure direction u/s

Sr. No.	Name of CETP	Non-Complying parameters	Limit as per consent, mg/L	Result of January-2022, mg/L	Details of action taken
	GhatSuddhikaranYojana Pvt. Ltd.	Phenolic	1	1.26	33-A of the water Act-1974 issued on dated-24/01/2022
14.	M/s Jetpur Dying & Printing Association, Jetpur, Rajkot	SS	100	128	Issued Notice of Direction u/s 33(A) of the Water Act on 12/01/2022
15.	M/s. Kalol GIDC Industries Association, Kadi, Gandhinagar	SS	100	108	SCN was issued on 07/02/2022
16.	M/s CETP of Dahej Industrial Estate	COD	250	860	
		BOD	100	206	
		SS	100	132	
		NH3-N	50	223.44	