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

For the State of Gujarat
November - 2021.

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
  [30 under construction STPs are complete and are now under trial /operational i.e additional 813.76 MLD]
- Capacity Utilization of existing STPs: 2739 MLD
  [additional utilization capacity as on November 2021 – 270.91 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 4298.76 MLD treatment capacity as per Annexure 1A i.e total capacity of existing + newly commissioned STPs. Additional treatment capacity is 295.76 MLD]
- No. of Operational STPs: 73 [103 as on November 2021]
- No. of Complying STPs: 22
- No. of Non-complying STPs: 47 (including 24 STPs not obtained fresh/renewal of CTE & CCA)
- ULBs having Oxidation ponds: 7
- Site of the STPs not visited: 4
- Details of STPs not available: 11
- STPs just commissioned / under trial run: 12
- 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: 16, ➢ Non complying: 20 (Please refer **Annexure VI**) *(as per CM dash board data for **October-2021**, available on Board's website)

Town	No. of industries	Industrial discharge	Status of ETPs	Status of CETPs (existing, under construction & proposed)
Gujarat	44143	Not available	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:

Particulars	Data
Total number of Urban Local Bodies and their population	162
Current municipal solid waste generation	10,798MT/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. 755 of Plants for Vermi / Aerobic/ anaerobic Composting of installed processing capacity 7477 TPD. • There are 232 plants Material Recovery Facilities (MRF) with processing capacity of 5441.93 TPD installed capacity. • There are 5 plants of RDF with processing of 1390.25 TPD. • Biogas 29 plants with capacity of 1086 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)	Information not available
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 As per the information given by Gujarat Urban Development Mission (GUDM), 7 Municipalities (Jetpur (Bhadar), Ankleshwar (Amlakhadi), Wadhvan (Bhogavo), Vapi (Damanganga), Kheda (Shedhi), Dahod (Anas), Zalod (Anas)) out of 10 municipalities are related to PRS requiring in-situ bioremediation. The pilot project for in-situ remediation at Ankleshwar, Kheda and Vapi municipalities are under implementation. 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
Details are being prepared.					

VI. Bio-medical Waste Management:

- Total Bio-medical generation(Related to entire State): 36.42 MT/day
  Total Bio-medical 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. Two 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.

STPs having 3485 MLD capacity are existing in the state against the total sewage generation of 4003 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) are planned against the gap of 518 MLD in the state.

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).	
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 regularly being held at GPCB, Gandhinagar to review the progress and the minutes of the meeting having progress status, is regularly submitted to CPCB. Last RRC (10th 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:

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. 2% 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 & under trial run.	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 Nagarpalika (23.5 MLD):	100% Completed & Under trial run.	1. March 2021 2. --	* 8.9 & Gujarat Urban Development Mission	
6.	**Bhogavo**	Surendranagar	Completed & Operational	1. October 2019	* 8.9 &	

	(Priority - I)	(32.3 MLD STP)		2. --	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. 90% 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 under preparation.	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)	85% work is completed	1. March 2021 2. 28/02/2022		
		Channi (new) (50 MLD) (STP + Network)	71% work of STP is completed Permission of canal crossing is under process.	1. December 2021 2. 31/03/2022		
		Atladara (new) (83 MLD)*	Tender to be re- invited.	1. December 2022 2. 31/12/2022 (No change)		
		Tarsali/GIDC (new) (100 MLD) (STP +	Revised DPR under approval.	1. December 2023 2. 31/12/2022		

		Network)*				
		Karjan Nagarpalika 5.2 MLD	55% 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	Under trial run.	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	DPR is approved by Head Office and submitted to I.C office for approval under	1. May 2020 2. March 2022	*0.23 & Vapi Notified Area Authority	

		(For PRS Kolak)	A.I.I. scheme.			
		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**	Pirana 155 MLD	100% Completed & under	1. March 2020 2. ---	* 8.9 & Gujarat Urban	

	(Priority - I)	STP	trail run.		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.10% 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 stage.	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, 90% 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	As per Table - 1	* 8.9 & Gujarat Urban Development Mission	

			Shuddhikaran. Details of STPs under Tapi Shuddhikaran is as per **Table-1**			
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)	85% work is completed	1. March 2021 2. 28/02/2022		
		Channi (new) (50 MLD) (STP + Network)	71% work of STP is completed Permission of canal crossing is under process.	1. December 2021 2. 31/03/2022		
		Atladara (new) (83 MLD)*	Tender to be re- invited.	1. December 2022 2. 31/12/2022 (No change)		
		Tarsali/GIDC (new) (100 MLD) (STP + Network)*	Revised DPR under approval.	1. December 2023 2. 31/12/2022		

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 90% Completed	1. April 2021 2. 31/12/2021	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.
16.	Kamrej- Laskana (5.17 mld) SUDA (Merged with STP of Laskana at Pasodra, Sr. No. 12 above.)	---	---	The questioned land could not be made available by the concerned authority and hence the same was redesigned /re routed and merged at pasodara by subjected works consultant. It is therefore not to be considered in required land now.

17.	Kamrej-Dhoran Creek (1.18 mld) SUDA (Merged with STP of Dhoran creek at Dhoran pardi -2, Sr. No. 10 above.)			The questioned land could not be made available by the concerned authority and hence the same was redesigned /re routed and merged at Dhoran pardi-2 by subjected works consultant. It is therefore not to be considered in required land now.
18.	Kamrej-kholvad (Vav- 1) (16.09 mld) SUDA (Merged with STP of Kamrej- Kholvad (Vav- 1) at Kamrej- 1, Sr. No. 8 above.)			The questioned land could not be made available by the concerned authority and hence the same was redesigned /re routed and merged at Kamrej -1 by subjected works consultant. It is therefore not to be considered in required land now.
	Cluster-1			
19.	Kamrej- Timba (0.75 MLD)	Work in Progress 43 % Completed	1. February – 2022 2. September-2022	Land is allotted.
20.	Kamrej- Sevni (5.18 MLD)			Land is allotted.
21.	Kamrej- JatBharthana (0.17 MLD)			Land allotment proposal is with Collector, Surat
22.	Kamrej- Maachi (0.16 MLD)			Land is allotted.
23.	Kamrej- Dhatva (0.34 MLD)			Land allotment proposal is with Panchayat
	Cluster-2			
24.	Kamrej- Ghala (1.39 MLD)	Work in Progress 63% Completed	1. February – 2022 2. September-2022	Land allotment proposal is with Collector, Surat
25.	Mandvi- Bodhan Village (1.3 MLD)			Land is allotted.

26.	Mandvi- Khanjroli (0.29 MLD)			Land is allotted.
	Cluster-3			
27.	Bardoli- Vaghecha (0.28 MLD)	Work in Progress 53% Completed	1. February – 2022 2. September-2022	Land is allotted.
28.	Bardoli- Bhamaiya (0.17 MLD)			Land is allotted.
29.	Bardoli- Mori (0.15 MLD)			Land is allotted.
30.	Mandvi- Tarsada(0.82 MLD)			Land is allotted.
	Cluster-4			
31.	Mandvi- Punagam + Unn Kosadi (0.65 MLD)	Work in Progress 40% Completed	1. February – 2022 2. September-2022	Land is allotted.
32.	Mandvi- Gamtalav Bujrang + Uskhed Khurd (0.45 MLD)			Land is allotted.
33.	Mandvi STP(3.5 MLD)	Work in Progress 7% Completed	1. February – 2022 2. June-2022	Land is allotted.
	Creek regions			
	Cluster-5			
34.	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	1. February – 2022 2. 31/12/2022	Land allotment proposal is with Collector, Surat. DLR for land survey completed.
35.	Mandvi- Ratania (0.18 MLD)			Land allotment proposal is with Revenue Department.
	Cluster-6			

36.	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	1. February – 2022 2. 31/12/2022	Land allotment proposal is with Collector, Surat. DLR for land survey completed.
37.	Mandvi- Munjalav (0.44 MLD)			
38.	Mandvi- Dharmapur (0.52 MLD)			
39.	Mandvi-Nogama (0.32 MLD)			
40.	Mandvi-Kolakui (0.15 MLD)			
41.	Mandvi-Ushker & Togapur (0.15 MLD)			
	Cluster-7			
42.	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	1. February – 2022 2. 31/12/2022	Land allotment proposal is with Collector, Surat. DLR for land survey completed
43.	Mandvi-Gavachhi (0.45 MLD)			
44.	Mandvi-Kudashi (0.08 MLD)			
45.	Mandvi-Naren (0.46 MLD)			
46.	Mandvi-Pipariya (0.25 MLD)			
47.	Mandvi-Kevadia (0.21 MLD)			
	Creek Regions			
	Cluster-8			
48.	Mandvi-Godavadi (0.82 MLD)	Technical Sanction given in 165th TSC Committee of GWSSB. Tender to be invited after obtaining Revised Administrative Approval	1. February – 2022 2. 31/12/2022	Land allotment proposal is with Collector, Surat. DLR for land survey completed
49.	Mandvi-Kamlapor (0.33 MLD)			Land is available

50.	Mandvi-Nanadpor (0.34 MLD)	0% Completed		Land allotment proposal is with Collector, Surat. DLR for land survey completed
51.	Mandvi-Umarsadi (0.4 MLD)			Land allotment proposal is with Collector, Surat. DLR for land survey completed
	Cluster-9			
52.	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	1. February – 2022 2. 31/12/2022	Land allotment proposal is with Collector, Surat. DLR for land survey completed
53.	Bardoli-Jakhala (0.18 MLD)			
54.	Bardoli-Miyawadi (0.08 MLD)			
55.	Bardoli-Masad (0.46 MLD)			

Note: 3 STPs at Sr.No. 16, 17 & 18 are merged with other STPs and hence total STPs under Tapi Shuddhikaran will be 55-3=52.

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 to be prepared.	Land not available
4.		Charvada	1.65	DPR to be prepared.	Land not available
5.		Balitha	2.49	DPR to be prepared.	Land not available
6.	Kim Dist: Surat	Kim	3.39	DPR approved.	Land is available

7.	Kim Dist: Bharuch	Sahol	0.16	DPR under approval	Land is available
8.	Baleshwar Khadi Dist: Surat	Baleswar	0.90	DPR approved.	Land is available
9.		Kareli	0.13	DPR under approval	Land is available
10.		Dastan	0.24	DPR under approval	Land is available
11.		Bagumara	0.56	DPR approved.	Land is available
12.	Amlakhadi Dist: Bharuch	Bhadkodara	2.79	DPR to be prepared.	Land not available
13.		Piraman	0.32	DPR to be prepared.	Land not available
14.		Kapodara	0.90	DPR to be prepared.	Land not available
15.		Kosamandi	2.60	DPR to be prepared.	Land not available
16.	Amravati Dist: Bharuch	Sengpur	0.35	DPR under approval	Land is available
17.		Avadar	0.16	DPR under approval	Land is available
18.		Dadhala	0.64	DPR to be prepared.	Land not available
19.		Pardi	0.08	DPR to be prepared.	Land not available
20.		Hirapor	0.28	DPR under approval	Land is available
21.		Limet	0.15	DPR under approval	Land is available
22.		Piprod	0.10	DPR to be prepared.	Land not available
Total			24.54		

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 Bhadar. Additional new activity (was not	0.4	Jetpur Dyeing & Printing Association.

			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) modification:- Proposed Spray Dryer	Completed the installation of common effluent spray dryer project.	---	---

		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 of Nadiad Nagarpalika.	0.08	Mafatlal Industries Limited
		CETP Nadiad (0.5 MLD)	Nadiad GIDC association has put up	0.05	Nadiad GIDC Association.

			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.		
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

- 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 October-21	Reason for Non Compliance	Action Taken
1	Ahmedabad Pirana 2009	60	60	Operational	Non Compliance	• Approx. 30 % untreated raw sewage is found bypassing and directly discharged into River Sabarmati without any treatment. • Aeration tank, gravity sludge thickener and inlet skada system digital display were not in operation. • Analysis Report showing higher results. • Failed to reply/ comply with written instructions, Legal Notice, Notice of Direction and Show Cause Notice issued in the past by the Board.	Direction-28/10/2021
2	Ahmedabad Old Pirana 2004	106	106	Operational	Non Compliance	• Failed to submit time bound action plan to stop the excess sewage/trade effluent that is directly discharged to River Sabarmati without any treatment from the STP • Drum mechanical screen, aeration, grit clarifier, SCADA system inlet/outlet digital display were	Direction-28/10/2021

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP as on October-21	Reason for Non Compliance	Action Taken
						found not in operation. • Analysis Report of samples taken from bypass showing high results, than the prescribed norms. • Failed to reply/comply with written instruction, Notice of Direction and Show Cause Notice issued in the past by the Board	
3	Ahmedabad Pirana 2009	180	180	Operational	Non Compliance	• Not operating STP efficiently and its full capacity. • Provided bypass valve at inlet chamber which is found open and part of raw sewage is found bypassing and directly discharge in to River Sabarmati. • Provided SCADA system at Riverfront office. So, online details cannot be verified during visit. • Analysis Report showing higher results. • Failed to reply/comply with written instruction, Notice of Direction and Show Cause Notice issued in the past by the	Direction-28/10/2021

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP as on October-21	Reason for Non Compliance	Action Taken
						Board.	
4	Ahmedabad Vasna 2004	126	126	Operational	Non Compliance	• Simply passing sewage from STP units without any treatment from STP. • Infrastructure of STP i.e railing, platform, ladder etc are found corroded and unsafe to inspect. • Only primary units were in operation and secondary units are found not in operation. • Failed to submit time bound action plan for the upgradation of STP. • Analysis Report of samples taken showing high results, than the prescribed norms. • Failed to reply/comply with written instruction, Notice of Direction and Show Cause Notice issued in the past by the Board.	Direction-28/10/2021
5	Ahmedabad Vasna 2009	35	35	Operational	Non Compliance	• Not provided chlorination system at STP • Scada Inlet flowmeter was not in operation	SCN-16/11/2021
6	Ahmedabad Vasna 2011	240	235	Operational	Non Compliance	• As per CCA-Renewal, treated sewage should be discharged into River Sabarmati.	Direction-28/10/2021

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP as on October-21	Reason for Non Compliance	Action Taken
						However, partly discharging treated sewage into Fatehwadi Canal without any consent. • Failed to operate 240 MLD STP at full capacity. • Chorination and aeration was found not in operation. • Analysis Report showing higher results. • Failed to reply/comply with written instruction, Notice of Direction and Show Cause Notice issued in the past by the Board.	
7	Ahmedabad Vinzol 2011	70	70	Operational	Compliance		
8	Ahmedabad Vasna 2018	48	48	Operational	Non Compliance	• All other sewage received in STP, approx 208 MLD is directly being discharged to River Sabarmati without any treatment. • Failed to submit time bound action plan for the excess sewage that is directly discharged to River Sabarmati without any treatment from STP. • Analysis Report of samples taken during inspection showing high	Direction-28/10/2021

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP as on October-21	Reason for Non Compliance	Action Taken
						results, than the prescribed norms. • Failed to reply/comply with written instruction, Notice of Direction and Show Cause Notice issued in the past by the Board.	
9	Ahmedabad JalViharVadaj2019	60	60	Operational	Compliance		
10	Ahmedabad Vinzol2020	35	30	Operational	Compliance		
11	Ahmedabad Arvind Mill	8	8	Operational			
12	Ahmedabad Rasala	1	1	Operational	Site not visited	Due to unavailability of sewage, STP is not operated since January-2021	-
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	Compliance		
16	Ahmedabad ShahpurShankarBhuvan 2020	25	20	Operational	Compliance		
17	Ahmedabad Lambha	5	2	Operational	Compliance		
18	Ahmedabad Vinzol 2021	100	-	Operational	Newly commissioned.		
19	Ahmedabad Pirana2021	155	-	Under Trial Run	Non Compliance	• Not obtained CCA-Fresh for 155 MLD capacity from the board. • Failed to operate 155 MLD STP at full capacity and directly discharging sewage into River Sabarmati without any treatment. • STP has treatment facility of 155 MLD STP, all other sewage	Direction-28/10/2021

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP as on October-21	Reason for Non Compliance	Action Taken
						obtained in 182 MLD pumping station i.e., approx 300 MLD is directly being discharged to River Sabarmati without any treatment. • Failed to submit time bound action plan for the excess sewage that is directly discharged to River Sabarmati without any treatment from the 182 MLD pumping station. • Analysis Report of samples taken during showing high results, than the prescribed norms. • Failed to reply/comply with written instruction, Notice of Direction and Show Cause Notice issued in the past by the Board.	
20	SuratSinganpore 2003/2014/2021	255	147.58	Operational	Compliance		
21	SuratKaranj 1999/2015	140	136.59	Operational	Compliance		
22	SuratBhatar 1999/2014/2017	162	162	Operational	Non Compliance	Flow meter is not provided at final outlet of STP and also record not maintained for the same	SCN on dated 29/10/2021
23	SuratAnjana 1995/2007/2019	122	121	Operational	Compliance		
24	SuratBamroli 2008/2019	100	100	Operational	Compliance		
25	SuratBhesan 1995/2009/2020	200	120.52	Operational	Compliance		

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP as on October-21	Reason for Non Compliance	Action Taken
26	SuratKhajod 2011	25	24.20	Operational	Non Compliance	Online Analyzer is found not in working condition at the final outlet of STP	SCN on dated 29/10/2021
27	SuratAsarama 2011	15	15	Operational	Non Compliance	Unit has not obtained CCA-Renewal of the Board. 2. During the inspection, it is noticed that no flow meter, totalizer, TOC meter is provided on the final treated sewage wastewater disposal line.	SCN on dated 16/11/2021
28	SuratDindoli 2012/2019	167	72.50	Operational	Compliance		
29	SuratVariav-Kosad 2012/2017	134	131	Operational	Compliance		
30	SuratGavier 2016	53	16	Operational	Compliance		
31	Vadodara Tarsali	52	58	Operational	Non Compliance	1. Flow meter is not provided at final outlet of STP. 2. AR of sample was higher than norms.	NOD issued on 05/01/2022
32	Vadodara Gajarawadi	66	72	Operational	Non Compliance	1. Scrapper of secondary clarifier is found not in working. 2. Bed septic smell felt within premises. 3. Overall housekeeping observed poor due to accumulated rain water on many places and heavy vegetation within premises. 4. No any chlorination treatment is observed at site. 5. it is observed that inlet flow meter is not observed in	NOD issued on 31/12/2021

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP as on October-21	Reason for Non Compliance	Action Taken
						operation and this STP not having Flow meter at final outlet of STP.	
33	Vadodara Kapurai	43	30	Operational	Non Compliance	1. Bed septic smell felt within premises. 2. Unit has not provided flow meter at final outlet of STP. 3. During inspection, Primary and secondary Scrapper of clarifier are not observed in working condition. 4. No any chlorination treatment is observed at site. 5. During inspection, it is observed that road STP inlet u/g pipeline between Kapurai Highway to STP over flowing at many places.	---
34	Vadodara Rajivnagar	78	55	Operational	Compliance		
35	Vadodara Sayaji garden	8.5	7	Operational	Non Compliance	1. Sewage received is only passed through screen chamber and then directly disposed into river vishwamitri without any treatment. 2. Bed septic smell felt near final discharge chamber of STP. 3. AR of sample	SCN Issued on 05/10/2021

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP as on October-21	Reason for Non Compliance	Action Taken
						was higher than norms.	
36	Vadodara Channi	21	21	Operational	Non Compliance	1. During inspection, STP is observed in operation except scrapper of secondary clarifier. 2. Chlorination treatment section observed not in operation. 3. Flow meter is not provided at inlet and final outlet of STP.	--
37	Vadodara Atladara (old)	43	51	Operational	Non Compliance	Flow meter is not provided at final outlet of STP.	--
38	Vadodara Atladara (new)	43	43	Operational	Non Compliance	Flow meter is not provided at final outlet of STP.	--
39	Vadodara Kapurai (New)	60	22	Operational	Non Compliance	1. During inspection, Chlorination process is not in operation. 2. Unit has not provided flow meter at inlet and outlet of STP. 3. Unit has not obtained CCA of the Board.	--
40	Gandhinagar Jaspur 2007	76	45	Operational	Non Compliance	Analysis report shows higher results and No facility was provided for disinfection of treated domestic wastewater prior to final disposal of treated sewage.	SCN issued on 21/12/2021
41	Gandhinagar Sargasan 2012-13	10	3	Operational	Non Compliance	Analysis report shows higher results and STP has not provided flow meter on the outlet line of STP.	SCN issued on 21/12/2021

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP as on October-21	Reason for Non Compliance	Action Taken
42	Gandhinagar Basan 2011-12	2	1	Operational	Non Compliance	STP was found not in operation and CCA of unit was expired on 16/03/2021 and yet not applied for obtaining renewal. Incoming domestic wastewater was found to be directly discharged in nearby Gauchar land without any treatment. and Concentration of BOD=27 mg/L which is higher than permissible limit.	NOD issued on 01/11/2021
43	Rajkot NrRaiya village 2010	51	51	Operational	Compliance	AWH-115093 valid up to 17/03/2026	--
44	Rajkot Raiyadhar 2017	56	35	Operational	Compliance	AWH-112713 valid up to 21/03/2026	--
45	Rajkot NrMadhapar 2018	44.5	10	Operational	Non Compliance	No valid CCA	SCN issued
46	Rajkot NrKothariya Village 2017	15	11	Operational	Compliance		
47	Rajkot Gavaridad 2018	70	35	Operational	Compliance		
48	Rajkot Madhapar 2019	80	60	Operational	Non Compliance	No valid CCA	SCN issued
49	Bhavnagar Nari road, Kumbharwada	30	24	Operational	Non Compliance	Without CCA	---
50	Bhavnagar Behind Excel industries	45	45	Operational	Compliance		
51	Jamnagar NavagamGhed	70	70	Operational	Non Compliance	CCA renewal not apply by the unit	SCN issued on 17/07/2019
52	Gandhidham - Anjar	30.00	22	Operational			
53	Patan	25.00	13	Operational	Non Compliance	Unit has not applied for CCA .	SCN on 19/7/2021.
54	Nadiad	51.26	20	Operational	Non compliance	AR not meeting norms	Action under process
55	Siddhpur	5.62	5	Operational	Non Compliance	Unit has not applied for CTE/CCA .	Under Process
56	Vallabh Vidhyanagar	15.00	12	Operational	Non compliance	• Not obtained CTE/CCA • Parameters were exceeding limits.	Pending
57	Sanand	20.50	0	Non-Operational	Site not visited		

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP as on October-21	Reason for Non Compliance	Action Taken
58	Himmatnagar	17.51	6	Operational	Non Compliance	Not meeting with outlet Norms	Notice of Direction issued to STP on dated: 23/11/2021
59	Petlad	10.37	8	Operational	Non compliance	Not obtained CTE/CCA.	Pending
60	Dholka	13.60	8	Operational	Non Compliance	• Not obtained CTE/CCA. • Partially untreated w/w discharged into natural drain. • AR beyond norms (Sample taken from various points)	NOT u/s 33 (A) of the Water Act dt 27/10/2021
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	Non Compliance	A.R. not Meeting with the norms	Show Cause Notice issued dated 30/01/2021
70	Bhuj	23.70	19	Operational	Non Compliance	Operating without valid CTE & CCA	NOD issued vide dated 27/08/2021 Letter dated 30/10/2021 issued to GSSWB & GUDM for necessary action at their level.
71	Bhachau	10	4	Operational			
72	Anand-1(Lambhvel)	33	9	Operational	Non Compliance	Not obtained CTE/CCA.	Pending

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP as on October-21	Reason for Non Compliance	Action Taken
73	Anand-2(TP-8)	13.5	2.5	Operational	Non Compliance	Not obtained CTE/CCA.	Pending
74	Surendranagar	32.3	17	Operational	Compliance		
75	Valsad-1	20.2	2	Operational	Non Compliance	Nagarpalika has not obtained CCA.	Inspection Report further submitted to MSW Branch.
76	Morbi-1	28.8	6	Operational	Site not visited		
77	Jasdan	8.80	4	Operational	Newly commissioned		
78	Tharad	4.80	2.5	Operational	Non Compliance	Unit has not applied for CTE/CCA .	SCN on 23/7/2021.
79	Dehgam	7.60	4	Operational	Site not visited	--	--
80	Dhangadhra	11.60	3	Operational	Compliance		
81	Porbandar-2	19.10	5	Operational	Non Compliance	Unit has not applied for CTE/CCA .	SCN
82	Bardoli	11.30	0	Under Trial Run	-	-	-
83	Vyara	6.50	1.50	Operational			
84	ChhotaUdepur	5.00	1.5	Operational	Under trial run		
85	Borsad	9.80	3	Operational	Non Compliance	• Not obtained CTE/CCA. • Parameters were exceeding limits.	Pending
86	Idar	7.40	2.5	Operational	Non Compliance	As per Last IR Dated: 16/07/2015, they have not provided STP for generated domestic wastewater.	Show Cause Notice issued to unit dated: 11/09/2015
87	Visnagar-1	12.00	4	Under Trial Run			
88	Dahod	13.70	4	Operational	Non Compliance	Not obtained CTE/CCA (During inspection dated 03/09/2021, it is observed that construction and installation work is found completed. Trial run of STP has also been taken.)	SCN issued on 22/09/2021
89	Zalod	4.60	1.5	Under Trial Run	Non Compliance	Not obtained CTE/CCA (During inspection dated 20/01/2021,	---

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP as on October-21	Reason for Non Compliance	Action Taken
						construction work is found almost completed, & installation work is pending)	
90	Deesa	17	12	Operational	-	-	-
91	Mahuva	16.30	3.5	Operational	Non Compliance	__	correspondence for corrective measures is done
92	Prantij	3.70	1.0	Operational	Non Compliance	As per Last IR Dated: 17/07/2015, they have not provided STP for generated domestic wastewater.	Show Cause Notice issued to unit dated: 09/09/2015
93	Khedbrahma	5.8	2.0	Operational	Non Compliance	As per Last IR Dated: 13/02/2016, they have not provided STP for generated domestic wastewater.	Notice of Direction issued to unit dated: 14/07/2015 under section 33-A of the Water Act – 1974.
94	Bareja	3.10	-	Under Trial Run			
95	Kheralu	2.90	-	Operational			
96	Una	11.70	-	Operational			
97	Morbi-2	9.30	-	Operational	Under trial run		
98	Padra	5.60	-	Under Trial Run			
99	Amreli	18.20	-	Operational	Non Compliance	Without CTE & CCA	correspondence for corrective measures is done
100	Dhandhukha	7.50	-	Under Trial Run			
101	Umreth	6.10	-	Under Trial Run			
102	Jetpur	23.50	-	Under Trial Run			

New STPs under trail run.

103	Botad	32.00	-	Under Trial Run			

Total Capacity of existing STPs: 4266.76 MLD + 32.00 MLD = 4298.76 MLD

Annexure – 1(B)

Details of under construction STPs in the State

No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
1	Ahmedabad Maleksaban	30	45%	Completed	31/12/2022
2	Ahmedabad Kotarpur	60	07%	Completed	31/12/2022
3	Ahmedabad saijpur lake	07	05%	Completed	31/12/2022
4	SuratBhatar	115	90%	Completed	31/12/2021
5	SuratBamroli	115	89%	Completed	28/02/2022
6	SuratAsarma	22.5	70%	Completed	05/04/2022
7	SuratKhajod	30	70%	Completed	31/03/2022
8	Vadodara Chhani	50	71%	Completed	31/03/2022
9	Vadodara Bhayli	45	60%	Completed	28/02/2022
10	Vadodara Sayaji garden	7.5	85%	Completed	28/02/2022
11	Rajkot Kothariya, on NH bypass	15	51%	Completed	30/09/2022
12	Rajkot Raiyadhar	8.00	0%	Completed	31/12/2022
13	Bhavnagar Axcel Industries	50	50%	Completed	31/05/2022
14	Bhavnagar Akwada	19.2	18%	Completed	31/12/2022
15	JunagadhBilkha Road, Near CBSE School	8.2	98%	Completed	31/12/2021
16	Rajula	5.70	43%	Completed	31/07/2022
17	Bagasara	5.90	79%	Completed	30/06/2022
18	Chalala	2.80	97%	Completed	31/03/2022
19	Talaja	5.80	89%	Completed	31/01/2022
20	Bantva	2.60	99%	Completed	28/02/2022
21	Mansa	5.00	65.5%	Completed	31/01/2022

No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
22	Dhanera	4.00	65%	Completed	15/04/2022
23	Bhabhar	3.50	60%	Completed	15/04/2022
24	Thara	3.60	50%	Completed	15/04/2022
25	Kadi	12.80	90%	Completed	31/01/2022
26	Unjha	11.60	99%	Completed	25/01/2022
27	Visnagar-2	5.30	95%	Completed	31/03/2022
28	Vijapur	4.10	91%	Completed	09/01/2022
29	Radhanpur	6.00	15.5%	Completed	11/11/2022
30	Talod	3.60	60%	Completed	28/06/2022
31	Vadali	3.80	65%	Completed	28/06/2022
32	Jambusar	5.90	75%	Completed	31/01/2022
33	Amod	3.10	75%	Completed	31/03/2022
34	Bilimora	8.30	41%	Completed	30/07/2022
35	Gandevi	2.60	38%	Completed	26/07/2022
36	Dharampur	4.10	75%	Completed	31/03/2022
37	Devgadhbariya	3.80	80%	Completed	31/03/2022
38	Santrampur	2.91	86%	Completed	31/05/2022
39	Kalol (P)	4.77	65%	Completed	30/04/2022
40	Shehra	2.80	40%	Completed	31/05/2022
41	Viramgam	4.50	91%	Completed	31/01/2022
42	Bavla	5.80	82%	Completed	31/03/2022
43	Chaklasi	4.90	0.00%	Completed	31/12/2022
44	Kapadwanj	6.20	65%	Completed	30/06/2022
45	Mehmdabad	5.60	95%	Completed	31/03/2022
46	Dakor	4.90	3%	Completed	31/12/2022
47	Kheda	5.20	90%	Completed	31/03/2022

No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
48	Chotila-1	2.30	24%	Completed	31/05/2022
49	Chotila-2	1.70	27%	Completed	31/08/2022
50	Barwala	2.90	28%	Completed	09/08/2022
51	Harij	3.00	75%	Completed	16/03/2022
52	Chanasma	2.50	0.00%	Completed	31/12/2022
53	Ode	2.50	95%	Completed	15/01/2022
54	Karjan	5.20	55%	Completed	31/05/2022
55	Vadnagar	5.94	95%	Completed	31/03/2022
56	Gondal	16.50	62%	Completed	18/05/2022
57	Kalol	23.50	20%	Completed	30/06/2023
58	Palanpur	21.30	5%	95%	30/06/2023
59	Bharuch	29.32	96%	96%	31/12/2021
60	Vapi-1	14.00	90%	Completed	31/03/2022
61	Anand-3	6.50	95%	Completed	31/12/2021
62	Porbandar-1	12.80	85%	Completed	15/12/2021
63	Damnagar	2.80	0.00%	Completed	30/09/2022
64	Lathi	3.80	0.00%	Completed	30/09/2022
65	Keshod	13.30	0.00%	Completed	31/08/2023
66	Anklav	3.60	64%	Completed	04/03/2022
67	Khambhat-1	6.80	2%	Completed	28/02/2023
68	Khambhat-2	4.50	41%	Completed	28/02/2023
69	Thangadh	9.00	30%	Completed	07/09/2022
70	Balasinor	6.50	7%	Completed	06/12/2022
71	Savli	2.5	10%	Completed	18/10/2022
72	Dabhoi	8.96	25%	Completed	18/10/2022
73	Kanjari	3.3	45%	Completed	18/04/2022

No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
74	Halvad	7.1	1%	Completed	19/01/2023
75	Rajpipla	5.5	37%	Completed	17/10/2022
76	Pardi	4.60	0.00%	Completed	31/03/2023
77	MandviSurat	3.50	5%	Completed	15/06/2022
78	Ankleshwar	14.00	2%	Completed	15/09/2022
79	Umargam	6.48	2%	Completed	14/12/2022
80	Karamsad	7.00	40%	Completed	14/09/2022
81	Boriavi	3.30	40%	Completed	14/09/2022
82	Lunawada	5.60	3%	Completed	16/11/2022
83	Palitana	10.81	0.00%	Completed	31/12/2022
84	Sikka	2.90	10%	Completed	15/12/2022
85	Dhoraji	12.90	0.00%	Completed	31/01/2023
86	Jamjodhpur	3.60	0.00%	Completed	25/12/2022
87	Wankaner	5.80	1%	Completed	31/01/2023
88	Bhachau	5.5	22.5%	Completed	14/12/2022
89	Visavadar	3.40	0.00%	Completed	30/11/2022
90	Manavadar	4.90	0.00%	Completed	31/01/2023
91	Chorvad	3.70	0.00%	Completed	30/11/2022
92	Songadh	4.5	2%	Completed	03/12/2022
93	Modasa	12.0	0.00%	35%	31/03/2023
94	Bhanvad	3.00	0.00%	Completed	24/12/2022
95	Khambhalia	5.50	0.00%	Completed	24/12/2022
96	Salaya, Jamnagar	6.20	10%	Completed	24/12/2022
97	Rapar	5.2	21.75%	Completed	07/01/2023
98	Dhrol	3.60	0.00%	Completed	22/11/2022
99	Kodinar	5.60	0.00%	Completed	18/02/2023

No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
100	Kutiyana	2.90	0.00%	Completed	15/03/2023
101	Ranavav-1 (Adityana)	3.00	0.00%	Completed	15/03/2023
102	Ranavav-2	4.50	0.00%	Completed	15/03/2023
103	Babra	4.00	0.00%	Completed	14/12/2022
104	Vallabhipur	2.30	0.00%	Completed	31/03/2023
105	Shihor	8.9	10%	Completed	18/05/2023
106	Sutrapada	4.00	0.00%	Completed	18/01/2023
107	Talala	3.80	0.00%	Completed	18/02/2023
108	Ahmedabad Dafnala	25	0.00%	Completed	31/12/2022
109	GandhinagarSargasan	50	0.00%	Completed	31/12/2022
110	Halol	12.35	0.00%	50%	21/04/2023
111	Kalavad	4.50	0.00%	Completed	28/12/2022
112	Jafrabad	5.4	0.00%	Completed	07/04/2023
113	Gariyadhar	7.1	0.00%	Completed	24/04/2023
114	Lunawada	5.60	3.00%	Completed	30/06/2022

Total STPs under construction= 1258.44 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 tobe invited	31/12/2022
2	Vadodara Tarsali	100	Revised DPR under approval	31/12/2022
3	Vadodara Atladara	84	Tender tobe Re-invited	31/12/2022
4	Vadodara Gajarawadi	110	Revised DPR under scrutiny	31/12/2022
5	GandhinagarBhat	25	DPR under scrutiny	31/12/2022
6	GandhinagarPethapur	12	DPR Stage	31/12/2022
7	Jamnagar NrRangmati River	50	DPR Stage	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
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
11	Okha	10.10	Tender under evaluation	31/12/2022
12	Beyt (near Okha)	1.20	Tender to be Re-invited	31/12/2022
13	Porbandar-Chhaya	13.10	Tender under approval	31/12/2022
14	Vijalpor - Navsari	47.40	Tender under evaluation	31/03/2023
15	Veraval- Patan	33.90	Tender to be invited	31/12/2022
16	Vapi-2	29.53	DPR/DTP stage	31/03/2023
17	Thasra	2.30	Tender tobe invited	31/12/2022
18	Mandvi-2 (Salaya)	3.20	Tender under evaluation	31/12/2022
19	Mandvi-1 (JT Grounds)	5.30	Tender under evaluation	31/12/2022
20	Jamraval	2.60	Tender tobe invited	31/12/2022
21	Maliya	2.50	Tender tobe invited	31/12/2022
22	Bhayavadar	3.10	Tender under evaluation	31/12/2022
23	Valsad-2	15.00	DPR/DTP stage	31/03/2023
24	Mahesana-1	23.18	Tender approved	31/03/2023
25	Mahesana-2	18.46	Tender approved	31/03/2023
26	Mangrol	13.2	DPR/DTP stage	31/12/2022
27	Vanthli	2.2	DPR/DTP stage	31/12/2022
28	Tarsadi	5.8	Tender under evaluation	31/12/2022
29	Limdi	7.4	DPR/DTP stage	31/12/2022
30	Upleta	8.0	DPR/DTP stage	31/12/2022
31	Kadodara	-	DPR/DTP stage	31/12/2022
32	SMC(KanakpurKansad)	7.80	DPR/DTP stage	31/12/2022

Total Capacity of Proposed STPs = 752.27 MLD.

Annexure-II

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

1. Amlakhadi

(A)

Progress/Status Report of the River/PRS water quality monitoring for the Month November-2021:

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

(B)

Progress /Status Report for Ground water quality monitoring pertaining to PRS River for Nov-2021:

Location ID	Name of Location	Parameter										* HM- NA-Not Analyzed till date
		pH	BOD (mg/l)	COD (mg/l)	Cu mg/l	T.Cr. mg/l	H.Cr. mg/l	Fe mg/l	Pb mg/l	Mn mg/l	Ni mg/l	Zn mg/l
50634	Gujarat Gas Office, Umervada	7.57	<5	5	0.402	BDL	BDL	1.615	0.307	NA	0.127	0.158
50635	Vill. Juna Pungam	7.95	<5	5	0.019	BDL	BDL	0.234	0.047	NA	0.015	0.052
	Vill. Bhadkodra	--	--	--	--	--	--	--	--	--	--	--
	Vill. Kosmadi	--	--	--	--	--	--	--	--	--	--	--
	Piraman Gram Panchayat	--	--	--	--	--	--	--	--	--	--	--
	Vill. Sakarporbhatha	--	--	--	--	--	--	--	--	--	--	--

*NA-Not analyzed

(C) Drains Details with Flow:

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

5	Ankleshwar Nagar Palika Juna Diva	Juna Diva Drain	0.5	0
6	Ankleshwar Nagar Palika SurtiBhagor drain	SurtiBhagor drain	0.05	0

(D)

STP & CETP results:

STP Results: Not Applicable

CETP Results: There is no industrial wastewater discharge into Amalakhadi.

2. Amravati

(A)

Progress/Status Report of the River/PRS water quality monitoring for the Month November-2021:

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

(B)

Progress /Status Report for Ground water quality monitoring pertaining to PRS River for Nov-2021:

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	7.3	<5	5	0.015	BDL	BDL	0.067	0.015	NA	0.017	0.014

*NA-Not analyzed

(C) Drains Details with Flow:

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

(D) STP & CETP results

Not Applicable

3. Anas

(A)

Progress/Status Report of the River/PRS water quality Monitoring (November– 2021):

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

Note: Does not fall in any Priority as per the MPRs of June-2020 to November-2021.

(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 (November-2021):

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	0.6	11	5.4	<1.8	8.45	<1.8	1080
Well At Hindu Dharamashala, Station Road, Dahod	0.9	12	5.4	<1.8	8.38	<1.8	612

4. Baleshwar Khadi

(A)

Progress/Status Report of the River/PRS water quality Monitoring (November - 2021)

Note: Does not fall in any Priority as per the MPRs of June-2020 to November – 2021.

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

(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)
01-11-2021	CETP Of Gujarat Eco Textile Park Ltd	7.77	24	246	2	32	6.2	0.32
Standard		6.5 to 8.5	30	250	-	<60	50	1
01-11-2021	CETP Of New PalsanaIndustrial Co-Op. Society Ltd.	7.92	25	198	4.8	54	3.4	0.52
Standard		6.5 to 8.5	17	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 November-2021:

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

(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	01/11/2021	1.4	7.28	938	8.01

(C) Drains Details with Flow:

Sr. No.	Location (Latitude and longitude)	Discharge (MLD)	
		Max	Min

1	Opp. Bhadar Stone Crusher	02	01
2	Sarang Nallah	00	00
3	Behind Gondra area	02	01
4	Behind Kabrastan	1.5	0.5
5	Near railway bridge	00	00
6	Maghedi Vokda	00	00

(D) STP & CETP results.

Sr. No.	Name of STP/CETP	Discharge Norms		November-2021 Results	
1	CETP of Jetpur Dyeing & Printing Association (PCB ID-19722)	DO (mg/l)	--	DO (mg/l)	--
		pH	6.5 to 9	pH	7.86
		BOD (mg/l)	100	BOD (mg/l)	225
		COD (mg/l)	250	COD (mg/l)	744
		Total coliform (MPN/ 100ml)	-	Total coliform (MPN/ 100ml)	--
		Fecal coliform (MPN/100 ml)	-	Fecal coliform (MPN/100 ml)	--
2	CETP of Shri Dhareshwar GIDC Vistar Assocation (PCB ID-20111)	DO (mg/l)	--	DO (mg/l)	--
		pH	6.5 to 9	pH	8.10
		BOD (mg/l)	30	BOD (mg/l)	163
		COD (mg/l)	100	COD (mg/l)	514

		Total coliform (MPN/ 100ml)	-	Total coliform (MPN/ 100ml)	--
		Fecal coliform (MPN/100 ml)	-	Fecal coliform (MPN/100 ml)	--
3	STP of Jetpur Dyeing and Printing Association (PCB ID-39298).	DO (mg/l)	--	DO (mg/l)	--
		pH	6.5 to 9	pH	7.90
		BOD (mg/l)	30	BOD (mg/l)	170
		COD (mg/l)	--	COD (mg/l)	518
		Total coliform (MPN/ 100ml)	-	Total coliform (MPN/ 100ml)	--
		Fecal coliform (MPN/100 ml)	< 1000	Fecal coliform (MPN/100 ml)	--

6. Bhogavo

(A)

Progress/Status Report of the River/PRS water quality monitoring for the Month November- 2021:

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

(B)

Progress /Status Report for Ground water quality monitoring pertaining to PRS River (November-2021):

Location of sample collected	WATER PROJECT EMP PROGRAM BORE WELL WATER SAMPLE OF M/s BHAVANI PLASTIC GIDC WADHWAN – MONTHLY (29544)	
Sample ID	316465	
Date of sample collection	01-11-2021	
Parameter	**Unit**	**Result**

Arsenic	mg/l	NA
BOD	mg/l	1.1
COD	mg/l	6.24
Copper	mg/l	NA
pH	pH units	8.24
TDS	mg/l	1532
Iron	mg/l	NA
Lead	mg/l	NA
Mercury	Ppb	NA
Nickel	mg/l	NA
Zinc	mg/l	NA

(C) Drains Details with Flow:

Total no. of drains = 05

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

(D) STP & CETP results

Not Applicable

7. Damanganga

(A)

Progress/Status Report of the River/PRS water quality monitoring for the Month November-2021:

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
			Vilage 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
			Vilage 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
			Vilage 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
			Vilage 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
			Vilage 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	7.93	5.90	1.1	12	540.0	1600.0

			Kachigam						
			Vilage Namdha	7.94	6.20	0.9	11.0	31.0	94.0

Note:- Does not fall in any priority as per MPRs for the months of June-2020 to November -2021.

(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
11/11/2021	ROU	270	26	1320	226	47.04	25.2	7.63	7.69	360	64
Standards			**30**		**250**		**50**		**6.5-8.5**		**100**

(E)

Progress/Status Report of the River/PRS ground water quality monitoring November – 2021

Date	Location	DO (mg/l)	pH	BOD (mg/l)	COD (mg/l)	Fecal Coliform (MPN/100 ml)	Total coliform (MPN/100 ml)	SS (mg/l)	Iron (mg/l)	Lead (mg/l)	Nickel (mg/l)
01/11/2021	Borewell at Jilla Panchayat School, Kanta Faliya, Village Namdha	5.20	8.04	0.6	8.0	<1.8	<1.8	8.00	BDL	0.022	BDL

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)
BDL	BDL	0.01	0.32	BDL	BDL	10.63	0.28	1.12	398	689

8. Dhadhar

(A)

Progress/Status Report of the River/PRS water quality Monitoring for the Month November-2021:

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

(B) STPs Results

STP at Tarsali – Capacity : 52 MLD					
Parameters	**pH**	**COD mg/L**	**BOD mg/L**	**TC (MPN/100 ml)**	**FC (MPN/100 ml)**
Standard	6.5-9.0	---	<30	---	**<1000**
Month	**Results**				
November 2021	8.2	221	32	>1600	>1600
STP at Gajarawadi – Capacity : 66 MLD					
Parameters	**pH**	**COD mg/L**	**BOD mg/L**	**TC (MPN/100 ml)**	**FC (MPN/100 ml)**
Standard	6.5-9.0	---	<30	---	**<1000**
Month	**Results**				
November 2021	8.26	132	44	>1600	>1600
STP at Sayaji Garden – Capacity : 8.5 MLD					
Parameters	**pH**	**COD mg/L**	**BOD mg/L**	**TC (MPN/100 ml)**	**FC (MPN/100 ml)**
Standard	6.5-9.0	---	<30	---	**<1000**
Month	**Results**				
November 2021	8.36	185	44	>1600	>1600
STP at Kapurai – Capacity : 43 MLD					

Parameters	**pH**	**COD mg/L**	**BOD mg/L**	**TC (MPN/100 ml)**	**FC (MPN/100 ml)**
Standard	6.5-9.0	---	<30	---	**<1000**
Month	**Results**				
November 2021	8.05	64	18	>1600	>1600
STP at Rajivnagar – Capacity : 78 MLD					
Parameters	**pH**	**COD mg/L**	**BOD mg/L**	**TC (MPN/100 ml)**	**FC (MPN/100 ml)**
Standard	6.5-9.0	---	<30	---	<1000
Month	**Results**				
November 2021	8.39	11	<5(2)	350	240
STP at Chhani – Capacity : 21 MLD					
Parameters	**pH**	**COD mg/L**	**BOD mg/L**	**TC (MPN/100 ml)**	**FC (MPN/100 ml)**
Standard	6.5-9.0	---	<30	---	**<1000**
Month	**Results**				
November 2021	**8.56**	**58**	**13**	**>1600**	**>1600**
Atladara – I (Old STP at Atladra) – Capacity : 43 MLD					
Parameters	**pH**	**COD mg/L**	**BOD mg/L**	**TC (MPN/100 ml)**	**FC (MPN/100 ml)**
Standard	6.5-9.0	---	<30	---	**<1000**
Month	**Results**				
November 2021	8.39	59	16	>1600	>1600
Ataladara – II (New STP at Atladra) – Capacity : 43 MLD					
Parameters	**pH**	**COD mg/L**	**BOD mg/L**	**TC (MPN/100 ml)**	**FC (MPN/100 ml)**
Standard	6.5-9.0	---	<30	---	**<1000**
Month	**Results**				
November 2021	8.31	84	23	>1600	>1600

Kapurai –New – Capacity : 60 MLD					
Parameters	**pH**	**COD mg/L**	**BOD mg/L**	**TC (MPN/100 ml)**	**FC (MPN/100 ml)**
Standard	6.5-9.0	---	<30	---	**<1000**
Month	**Results**				
November 2021	8.17	15	<5(2)	>1600	>1600

(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
311464-02/11/2021	Borewell At Por Gidc Office	7.95	11	0.7	1110

9. Khari

(A)

Progress/Status Report of the River/PRS water quality monitoring for the Month November-2021:

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

(B)

Progress /Status Report for Ground water quality monitoring pertaining to PRS River for November-2021:

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 not collected due to quarterly sample collection									

(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 Not freeze
Final out let of STP Dtd.	pH-6.5 to 8.5	7.69
	BOD- Less than 20mg/L	16
	SS- Less than 30mg/L	24
	Total coliform(TC)- < 1000 MPN/100 ml	350
	Fecal coliform(FC)- < 1000 MPN/100 ml	110
	Residual Chlorine-0.5mh/L	BDL

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

10. Kim

(A)

Progress/Status Report of the River/PRS water quality monitoring for the Month November -2021:

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

Does not fall in any priority as per MPRs for the months of January – 2020 to November – 2021.

(B)

Progress /Status Report for Ground water quality monitoring pertaining to PRS River for November - 21:

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 November-2021:

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,	7.95	7.20	0.6	7.0	10	32

			Morai						
			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

Note: - Does not fall in any priority as per MPRs of June-2020 to November -2021.

(B) STPs Results

There is no Existing STP at present

(C) Drain details with flow

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

(D) CETPs Results
Not Applicable

(E)

Progress/Status Report of the River/PRS ground water quality Monitoring (November - 2021):

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)
02/09/2021	Borewell at Koteshwar Mahadev Temple, Vatar	5.10	8.02	0.6	8.0	<1.8	<1.8	8.0	BDL	0.030	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)
0.056	0.031	0.02	0.38	BDL	0.016	9.54	0.28	0.84	440	790

12. Mahi

(A)

Progress/Status Report of the River/PRS water quality monitoring for the Month November-2021:

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

Note: - Does not fall in any priority as per MPRs for the month of July – 2020 to November – 2021.

13. Meshwo

(A)

Progress/Status Report of the River/PRS water quality monitoring for the Month November-2021:

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

(B) STP Results
Not Applicable

(C) Drain Details
Not Applicable

(D) CETP Results
Not Applicable

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

Date	Location	pH	BOD (mg/l)	COD (mg/l)	TDS (mg/l)
01/11/2021	Borewell from Shamlaji Dharamshala	7.06	0.65	09	518

14. Mindhola

(A)

Progress/Status Report of the River/PRS water quality monitoring for the Month November-2021:

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

(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 November - 2021:

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

16. Sabarmati

(A)

Progress/Status Report of the River/PRS water quality monitoring for the Month November – 2021:

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

(B)

Progress /Status Report for Ground water quality monitoring pertaining to PRS River for November - 2021:

Sr No	Bore wells	pH	BOD(mg/I)	COD(mg/I)	TDS(mg/I)
1.	**Gandhi Ashram**, Ahmedabad	7.60	0.57	12	344
2.	**Jain Temple**, Ahmedabad (Half yearly)	Half year project			
3.	**P T College**, Ahmedabad	7.85	0.59	10	404
4.	**Pirana Pumping Station**, Ahmedabad (Half Yearly)	Half year project			
5.	**GyaspurNr.MSW Site**, Ahmedabad	7.31	0.64	20	2036
6.	**Ajmeri Farm**, Ahmedabad	Bore well under repairing			
7.	**Excel Industries**, Ahmedabad	7.24	0.92	24	1588
8.	**UPL Djl**, Ahmedabad	7.05	1.11	28	2588
9.	**Miroli Pumping Station**, Ahmedabad(**10837)**	Sample not collected due to quarterly sample collection			
10.	**NaklangMahadev**, Ahmedabad(**10823**)	Sample not collected due to quarterly sample collection			
11.	**Paldi-Kankaj**, Ahmedabad**(10824)**	Sample not collected due to quarterly sample collection			
12.	**GIDC Naroda**, Ahmedabad**(10817)**	Sample not collected due to Bore well is closed			
13.	**GIDC-Vatva**, Ahmedabad**(10820)**	7.15	0.74	16	1344
14.	**GIDC-GVMM**, Ahmedabad**(10821)**	7.45	0.76	15	1146
15.	**GIDC-Odhav**, Ahmedabad**(10804)**	7.58	0.72	16	1430
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

Letters 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 stop discharge/to seal outfall of untreated domestic waste water in to river Sabarmati.
2. To commence at least Phytoremediation / bio-remediation or other such remediation at or nearest the source of generation as supplement to setting up of STPs as an interim measure to reduce the load of pollution on recipient water bodies.
3. To submit time bound action plan for installation of STPs.

(D)

STP & CETP results

STP Results (Nov- 2021)

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)	7.04	08	06	540	-
2	AMC PIRANA STP 106 MLD (UASB TYPE)	7.32	17	24	>1600	-
3	AMC PIRANA STP 180 MLD (ASP TYPE)	7.24	98	246	>1600	BDL
4	AMC VASNA OLD STP 126 MLD (UASB TYPE)	7.16	22	32	>1600	-
5	AMC VASNA STP 35 MLD (ASP TYPE)	7.28	18	06	920	-
6	AMC VASNA STP 240 MLD (ASP TYPE)	7.31	17	06	920	BDL
7	AMC VASNA STP 48 MLD (SBR TYPE)	7.16	18	08	540	BDL
8	AMC STP 60 MLD, VADAJ (SBR TYPE)	7.24	06	02	350	BDL
9	AMC STP 25 MLD, (SBR TYPE)	7.12	<5	02	170	BDL

CETP Results (Nov -2021)

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)	7.51	304	27
2.	CETP NEPL(12718)	7.08	510	62
3.	CETP OEPL(12890)	7.68	282	29
4.	CETP OGEPL(12891)	7.44	268	37
5.	CETP GVMM(11536)	6.98	217	36
6.	NAROL DYE STUFF CETP(12720)	7.42	481	91
7.	Narol Textile Infrastructure &Enviro Management (Narol Textile CETP)(34244)	7.60	137	15

17. Shedhi

(A)

Progress/Status Report of the River/PRS water quality monitoring for the Month November – 2021:

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

(B)

Progress /Status Report for Ground water quality monitoring pertaining to PRS River for November-2021:

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 (November - 2021):

Sample Date	sampling point	BOD (mg/l)	COD (mg/l)	FC (MPN/100 ml)	pH	SS (mg/l)	TDS (mg/l)	NH3-N
12/11/2021	Final Outlet of the STP	9	32	920	7.92	30	966	1.34
Standard		**<10**				**<10**		

CETP Results:

Not Applicable, No CETP in the PRS.

18. Tapi

(A)
Progress/Status Report of the River/PRS water quality monitoring for the Month November-2021:

Sr. No.	Month/ Date	Location ID	Name of Location	Parameter					
				pH	DO (mg/l)	BOD (mg/l)	COD (mg/l)	Fecal coliform (MPN/ 100ml)	Total coliform (MPN/100 ml)
1	June-2021		Kathor, N.H. 8	8.33	7.1	1.0	8	11	40
			Varachha Bridge	8.42	7.0	1.1	9	14	58
			ONGC Bridge	7.35	6.1	1.9	23	17	46
			Rander	8.4	7.2	0.9	6	12	40

			Swamivivekanand Bridge	7.45	5.5	2.8	25	43	120
			Sardar Bridge	7.45	5.6	2.6	21	23	70
			Umara Temple	7.47	6.0	2.0	-	24	94
2	July-2021		Kathor, N.H. 8	7.93	6.8	1.4	7	14	48
			Varachha Bridge	7.95	7.0	1.2	8	17	63
			ONGC Bridge	7.69	5.4	1.8	22	21	58
			Rander	7.81	7.2	1.0	6	17	70
			Swamivivekanand Bridge	7.53	4.8	2.4	13	47	140
			Sardar Bridge	7.62	5.2	2.0	12	38	120
			Umara Temple	7.51	5.0	2.2	-	20	63
3	August-2021		Kathor, N.H. 8	7.40	7.2	0.9	7	17	58
			Varachha Bridge	7.58	7.0	1.0	8	20	70
			ONGC Bridge	7.52	6.1	1.8	24	22	63
	2/8/21		Rander	7.81	7.2	0.9	5	33	120
	3/8/21		Swamivivekanand Bridge	7.73	5.9	2.2	18	49	150
	3/8/21		Sardar Bridge	7.78	5.7	2.3	19	43	140
	3/8/21		Umara Temple	7.76	6.2	1.9	-	17	58
4	September-2021		Kathor, N.H. 8	7.95	7.1	1.1	9	10	41
			Varachha Bridge	7.65	7.0	1.2	9	17	58
			ONGC Bridge	7.55	6.4	2	22	17	58
			Rander	7.69	7.0	1.1	9	26	94
			Swamivivekanand Bridge	7.21	6.6	1.9	12	47	140
			Sardar Bridge	7.3	6.7	1.9	13	41	120
			Umara Temple	7.26	6.4	1.9	-	14	46
5	October-2021		Kathor, N.H. 8	7.95	7.3	0.9	5	25	84
			Varachha Bridge	7.81	7.2	1	6	31	120
			ONGC Bridge	7.98	6.6	1.4	12	23	84
			Rander	8.29	7.1	0.9	7	25	84

			Swamivivekanand Bridge	7.81	6.9	1	8	58	150
			Sardar Bridge	7.7	6.8	1.1	9	48	120
			Umara Temple	7.76	6.7	1.3	-	40	94
6	November-2021		Kathor, N.H. 8	8.18	7.2	0.8	7	12	43
			Varachha Bridge	8.27	7	1	7	17	63
			ONGC Bridge	7.67	6.2	1.9	22	12	47
			Rander	8.09	7.1	1	8	32	110
			Swamivivekanand Bridge	7.57	6.8	1.3	10	43	150
			Sardar Bridge	7.46	6.5	1.5	11	41	110
			Umara Temple	7.4	6.4	1.6	-	14	48

(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**	01/11/2021	7.98	14	12	63
2	**Sewage Treatment Plant-Gavier, Surat**	02/11/2021	8.33	12	12	63

CETP Results

No Industrial waste water discharge into this River stretch

19. Triveni

(A)

Progress/Status Report of the River/PRS water quality Monitoring (November -2021):

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

Note:- Does not fall in any Priority as per June-2020 to November-2021 MPRs.

(B) STP & CETP results

STP Results: There is no discharge of domestic wastewater into this River stretch
CETP Results: There is no Industrial effluent discharge into this River stretch.

20. Vishwamitri

(A)

Progress/Status Report of the River/PRS water quality monitoring for the Month November-2021:

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

(B)

Progress /Status Report for Ground water quality monitoring pertaining to PRS River for November-2021:

Sample ID and Date	Sampling Point	pH	COD	BOD	TDS
311458 02/09/2021	WATER PROJECT RAP BOREWELL AT HANUMAN TEMPLE ATLADRA	7.51	12.0	0.6	1360
311488 02/09/2021	WATER PROJECT RAP BOREWELL AT KAMATIBAUG	7.33	12	0.7	940

(C) Drains Details with Flow

Sr. No.	Location	Name of Inletting Drain	Flow in MLD
1	Nr. New Sama Bridge	Cygnus School – Krishna Party Plot Drain	0.972
2	Parth School	Bharwadwas	1.440
3	Behind VUDA Bldg.	-	1.500
4	Behind Sayaji Soc.	SayajiSoc.Drain	1.944
5	Bahucharaji Kirti Tower	Various Tributaries at different Locations	11.127
6	Bhimnath Bridge	ParshuramBhatta	1.35
7	B/H Jail Court	Jail & Court Compund Drain	0.305
8	Nr. AkotaDandiaBarzar Bridge	-	0.00
9	Nr. Urmi School	Overflow of Sama Lake	2.333
10	BharwadwasSama	GIPCL Circle Drain	3.840
11	Nr. Narhari Bridge	-	2.092
12	Planatorium	Various Tributaries at different Locations in BhukhiKaans	14.959
13	Nr.Darshanam (Parshuramnagar Soc.)	ParshuramBhatta	2.218
14	Nr. AkotaDandiaBarzar Bridge	-	1.037
15	B/h. Akota Village	Akota Village	0.47
16	Nr. Ratri Bazar	VIP road drain	2.312
17	Urmi Bridge	Sama Lake Char Rasta	2.197
18	Bharwadwas	Kamatipura Area	2.00
19	Opp. Agora Mall	Navrachana School – GIPCL Circle	1.128
20	Opp. Ratri Bazar	EME Campus	0.00
21	Munjmahuda Bridge	Western part of Munjmahuda	8.156
22	Kalali B/H BSUP	Kalali Village	1.620
23	B/H Dental College	-	1.00
TOTAL			**64**

(D) STP & CETP results

STP Results –November 2021

STP at Tarsali – Capacity : 52 MLD					
Parameters	**pH**	**COD mg/L**	**BOD mg/L**	**TC (MPN/100 ml)**	**FC (MPN/100 ml)**
Standard	6.5-9.0	---	<30	---	**<1000**
Month	**Results**				
November 2021	8.2	221	32	>1600	>1600
STP at Gajarawadi – Capacity : 66 MLD					
Parameters	**pH**	**COD mg/L**	**BOD mg/L**	**TC (MPN/100 ml)**	**FC (MPN/100 ml)**
Standard	6.5-9.0	---	<30	---	**<1000**
Month	**Results**				
November 2021	8.26	132	44	>1600	>1600
STP at Sayaji Garden – Capacity : 8.5 MLD					
Parameters	**pH**	**COD mg/L**	**BOD mg/L**	**TC (MPN/100 ml)**	**FC (MPN/100 ml)**
Standard	6.5-9.0	---	<30	---	**<1000**
Month	**Results**				
November 2021	8.36	185	44	>1600	>1600
STP at Kapurai – Capacity : 43 MLD					
Parameters	**pH**	**COD mg/L**	**BOD mg/L**	**TC (MPN/100 ml)**	**FC (MPN/100 ml)**
Standard	6.5-9.0	---	<30	---	**<1000**
Month	**Results**				
November 2021	8.05	64	18	>1600	>1600
STP at Rajivnagar – Capacity : 78 MLD					
Parameters	**pH**	**COD mg/L**	**BOD mg/L**	**TC (MPN/100 ml)**	**FC (MPN/100 ml)**

Standard	6.5-9.0	---	<30	---	<1000
Month	**Results**				
November 2021	8.39	11	<5(2)	350	240
STP at Chhani – Capacity : 21 MLD					
Parameters	**pH**	**COD mg/L**	**BOD mg/L**	**TC (MPN/100 ml)**	**FC (MPN/100 ml)**
Standard	6.5-9.0	---	<30	---	**<1000**
Month	**Results**				
November 2021	**8.56**	**58**	**13**	**>1600**	**>1600**
Atladara – I (Old STP at Atladra) – Capacity : 43 MLD					
Parameters	**pH**	**COD mg/L**	**BOD mg/L**	**TC (MPN/100 ml)**	**FC (MPN/100 ml)**
Standard	6.5-9.0	---	<30	---	**<1000**
Month	**Results**				
November 2021	8.39	59	16	>1600	>1600
Ataladara – II (New STP at Atladra) – Capacity : 43 MLD					
Parameters	**pH**	**COD mg/L**	**BOD mg/L**	**TC (MPN/100 ml)**	**FC (MPN/100 ml)**
Standard	6.5-9.0	---	<30	---	**<1000**
Month	**Results**				
November 2021	8.31	84	23	>1600	>1600
Kapurai –New – Capacity : 60 MLD					
Parameters	**pH**	**COD mg/L**	**BOD mg/L**	**TC (MPN/100 ml)**	**FC (MPN/100 ml)**
Standard	6.5-9.0	---	<30	---	**<1000**
Month	**Results**				
November 2021	8.17	15	<5(2)	>1600	>1600

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	815	1810
Municipality	23	6.5	-	29.50
Total	796	228.5	815	1839.5

Annexure-VI

Non-Complying CETPs

October – 2021

Sr. No.	Name of CETP	Non-Complying parameters	Limit as per consent, mg/L	Result of October-2021, mg/L	Details of action taken
1.	M/s. The Green Environment Services Co. Op. Society Ltd, Vatva, Ahmedabad	COD	250	454	Direction u/s 33(A) of The Water Act on 29/10/2021
		BOD	30	39	
		SS	100	392	
2.	M/s. Odhav Enviro Project Ltd., Odhav, Ahmedabad	COD	250	388.5	Direction u/s 33(A) of The Water Act on 29/10/2021
		BOD	30	47.5	
		SS	100	222	
		NH3-N	50	50.845	
3.	M/s. Gujarat VepariMaha Mandal SahkariUdhyogikVasahat Ltd, Ahmedabad	SS	100	140	Direction u/s 33(A) of The Water Act on 29/10/2021
4.	M/s. Odhav Green Enviro Project Association,Odhav, Ahmedabad	COD	250	417.5	Direction u/s 33(A) of The Water Act on 29/10/2021
		BOD	30	58	
5.	M/s. Naroda Enviro Project Ltd., Naroda, Ahmedabad	COD	250	510.5	Direction u/s 33(A) of The Water Act on 29/10/2021
		BOD	30	95.25	
6.	M/s. Narol Dyestuff Enviro Society., Narol, Ahmedabad	COD	250	251	Direction u/s 33(A) of The Water Act on 29/10/2021
		BOD	30	32	
7.	M/s. Bavla Eco Project Ltd., Bavla, Ahmedabad	COD	250	951	Action under process
		BOD	100	117	
		SS	100	188	
		NH3-N	50	53.2	
8.	M/s. Vinayak Jal SudhikaranSahakariMandali Ltd, Bavla, Ahmedabad	SS	100	110	SCN issued on 17/12/2021
9.	M/s. Narmada Clean Tech Ltd., (Bharuch Eco-Aqua Infrastructure Ltd.,) (BEAIL), Ankleshwar	BOD	100	117	No any action taken as unit has submitted time bound action plan and under trail revocation
10.	M/s. Panoli Enviro Technology Ltd., GIDC-Panoli, Bharuch	COD	1000	1139	SCN issued on 14/12/2021
		BOD	200	259	
		SS	150	484	

Sr. No.	Name of CETP	Non-Complying parameters	Limit as per consent, mg/L	Result of October-2021, mg/L	Details of action taken
11.	M/s. CETP of Kejriwal Integrated Textile Park Ltd	SS	<5	10	SCN issued on dated: 11/11/2021
12.	M/s. Fairdeal Textile Parks Pvt. Ltd, Kosamaba, Surat	pH	7 to 8	8.08	None
13.	Vapi Green Enviro Ltd (VGEL,Vapi) (OldName-Vapi Waste & Effluent Management Co.Ltd)	COD	250	309	SCN issued on Date:08/11/2021
		BOD	30	170	
		SS	100	101	
		NH_3-N	50	74.48	
14.	M/s. Sarigam Clean Initiative (Old Name-Gujarat Industrial Development Corporation), Sarigam	COD	250	262	Notice of Direction issued u/s. 33(A) of the Water Act, 1974 dated 17/12/2021
		BOD	30	33	
15.	M/s. Veraval Industries Association, Veraval, Junagadh	SS	100	132	SCN issued on 23/11/2021
		NH_3-N	50	168	
16.	M/s. Bhatgam Washing GhatSuddhikaranYojana Pvt. Ltd., Bhatgam,Rajkot	COD	250	288	NOD issued on 07/12/2021
17.	M/s Jetpur Dying & Printing Association, Jetpur, Rajkot	COD	250	710	NOD issued on 07/12/2021
		BOD	100	250	
18.	M/s. Shri Dhareshwar GIDC VistarAssociation,Dhareshwar, Rajkot	COD	250	572	SCN issued on 20/12/2021
		BOD	100	183	
19.	M/s. Kalol GIDC Industries Association, Kadi, Gandhinagar	SS	100	128	Show cause notice was issued on 20/12/2021
20.	M/s CETP of Dahej Industrial Estate	COD	250	1409	NOD issued on 30/11/2021
		BOD	100	334.5	
		NH3-N	50	149.8	