National Mission for Clean Ganga

Monthly Progress Report of PRS Amlakhadi (Gujarat State) for Aug 2020

(Hon'ble NGT in the matter of OA No.673/2018 dated 06/12/2019)

Sl.No.	Activity to be monitored	Timeline	Submission of Progress by States/UT- Compliance Status
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2020	Presently there is no any proposal for in-situ remediation. However, as per the suggestion given by Assessment team during meeting held on 04/02/2020, NEERI, UP Govt., Punjab Gov. etc may be approached by UDD/GUDM/Concerned for technical support in the matter Trail run of in-situ remediation is started by M/S Gujarat Eco Microbial Technologies Pvt Ltd for Ankleshwar Nagar Palika sewage w/w at Sarvoday Pumping station.
	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2020	Ankleshwar Nagarpalika STP (14 MLD):- may be completed by April 2022 PRH & RDD was informed to submit the action plan for the sewage generated from the villages.
2	Timeline for completing all steps of action plans including completion of setting up of STPs and their commissioning	31.03.2021	14 MLD STP (Ankleshwar Nagar Palika):- April 2022 PRH & RDD was informed to submit the action plan for the sewage generated from the villages. **Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-** As per the revised action plan submitted by Gujarat Water Supply and Sewerage Board (GWSSB) to Chairman, CPCB by letter dated 29.11.2019; one of the objectives of the revised action plan is to **reuse 70% of treated wastewater (Sewage) by 2025 and 100% of treated wastewater (Sewage) by 2030.**
3	Chief Secretaries may set up appropriate monitoring mechanism at State level • Specifying accountability of nodal authorities not below the Secretary Level	22.01.2020	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. 8th RRC meeting was held on 07/08/2020 through video conference. (However, the meetings could not

	• Chief Secretaries may have an accountable person attached in their office for this purpose. • Monitoring at State level must take place	22.01.2020 Fortnightly commencing 21.12.2019	be convened during the first half of the year amid corona virus pandemic) In compliance to the direction of Hon'ble NGT with reference to set up of Monitoring Mechanism, Deputy Environmental Engineer (Shri T.C.Patel) has been deputed vide letter No. મહેકમ / જી -40 (14) / 561788 dated 10.06.2020 at Chief Secretary office to look after the Hon'ble NGT matters All NGT matters are being reviewed regualrly under chairmanship of Hon'ble CS (Last meeting was conducted on 10/09/2020) in matter of O.A. No.:- 606/2018
4	Progress report may be furnished by the States/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB	Monthly (preferably before 20th of every month)	Noted & Complied
5	Progress Report may be comprised of details along with completion timelines on: (i) 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 which is already approved by CPCB w.r.t Priority I and II. In-situ treatment:- Pl. refer point no:-1
	(ii) <u>Status of STPs, I&D and sewerage networks</u> Details of existing infrastructure, gap analysis, proposed along with completion timeline		**Existing infrastructure:** 22.5 MLD (only 7.5 MLD capacity is utilized for the sewage generated from Notified area) **Gap:** 10.75 MLD (due to sewage generated from Nagarpalika and nearby villages) **Proposed :** 14 MLD **Completion Timeline :** April 2022 **Proposed plan with present status:-** • Ankleshwar STP (14 MLD):- Tender is invited on date.29/07/2020.Last date of bid submission is date.29/09/2020. Elongated timeline. Land is available. May be

			completed by April-2022 **(Source:- GUDM)** • PRH & RDD was informed to submit the action plan for the sewage generated from the villages. **<u>Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-</u>** **Reuse of treated sewage:** The information given by concerned dept., regarding reuse of treated sewage is attached herewith as **Annexure-V**
	(iii) <u>Status of CETPs</u> Details of existing CETP and ETP infrastructure, gap analysis, proposed along with completion timeline, no. of industries and complying status		There is no any direct waste water discharge from any CETP in to Amlakhadi
	(iv) <u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of existing infrastructure, gap analysis, proposed along with completion timeline		5 (iv) Status is attached as **Annexure – I**
	(v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river		5 (v) Status is attached as **Annexure –II**
	(vi) Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams etc.		**Bio-Medical Waste: -** There are total 321 # of HCUs (Health Care Units) located in the Ankleshwar taluka, treatment & disposal of the Bio Medical Waste, generated from the health care units, is being taken care of by a Common Bio-medical Waste Treatment Facility M/s, Globe Bio Care located in GIDC Ankleshwar. **Industrial Waste: -**

			All consented Hazardous waste generating industrial units in the State are having authorization under Haz. Waste Management Rules, amended from time to time & they are disposing their waste to TSDF/CHWIF/registered recycler under Rule-9/Co-processing and as per consented conditions
	(vii) Ground water regulation		During the meeting held on 04/02/2020, with PRS Assessment Team nominated by Ministry of Jal Shakti, GWRDC has given details about the recently framed draft bill titled "Conservation, Protection, Regulation and Management of Ground Water in Gujarat State" which is in process and within 3 months to be submitted to the Assembly. **<u>Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-</u>** To reduce demand of Ground water extraction and to promote treated waste water as an Economic Resource, Gujarat Government has framed a Policy for Reuse of "Treated Waste Water (TWW)" by maximizing the collection and treatment of sewage generated and reusing the treated wastewater on a sustainable basis. Also, revised action plan regarding utilization of treated wastewater is submitted by Gujarat Water Supply and Sewerage Board (GWSSB) to Chairman, CPCB by letter dated 29.11.2019 where one of the objectives of the revised action plan is to **reuse 70% of treated wastewater (Sewage) by 2025 and 100% of treated wastewater (Sewage) by 2030.**
	(viii) Adopting good irrigation practices		Details w.r.to point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept./ Water Resource Dept., NWR WS & KD as on date is attached as **Annexure – III.**
	(ix) Protection and management of Flood Plain Zones (FPZ)		
	(x) Rain water harvesting		
	(xi) Maintaining minimum environmental flow of river		

	(xii) Plantation on both sides of the river		Details w.r.t point no. 5 (xii) given by Forest Dept. /PCCF/ACCF/ Social Forestry wing/ Concerned as on date is attached as **Annexure – IV**
	(xiii) Setting up biodiversity parks on flood plains by removing encroachment		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 in 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.

Annexure- I

5 (iv) Status of Solid Waste Management & Details of Processing Facilities:

Types of Waste/ Characteristic of waste	Generated Quantity (MT/Day)	Collection/Storage facility with capacity (MT/Day)	Disposal/Treatment facility with capacity along with location	Total Gap with generation & existing treatment facilities if any	Proposed action plan /facility to cover gap	Time limit	Remarks	Present Status
Ankleshwar Notified Area MSW WASTE	23	10 MT/Day dry waste and 13 MT/Day Kitchen Waste	13 MT/day kitchen waste disposed to Bio gas plant of BEIL	10 MT/day	Installing MSW processing plant Of 10 MTD Capacity	Dec 2019	Earlier it was decided by Board of Management of Notified Area, GIDC. Ankleshwar to give O & M for MSW plot for five years and for the same estimate was prepared and DPR is almost ready for inviting tender. But there is a problem with the disposal of existing dumped solid waste. After discussing broadly about the problem, Now Board has decided to prepare estimate considering disposal of existing dumped waste in the plot allotted for	**Ankleshwar Notified area: P**lot no 9207 admeasuring 14000 SQMT is allotted by GIDC for MSW. Kitchen waste of housing area is dumped to BEIL, Ankleshwar. Estimation for development of MSW site as per MSW Rules 2016 is under process and same may be approved and tendering process of the same will be done in 5 to 6 months. MSW collected through door to door collection facility from GIDC area is

							MSW purpose. So, Earlier the timeline for tendering work given was Dec-2019 but now the same is to be revised and it will be published up to May- 2020.	dumped into plot no 9207. GIDC, Ankleshwar.
Ankleshwar Nagar Palika MSW WASTE	23.54	23.54	14.64 TPD (Wet Waste being processed at Compost plant-25 TPD Amboli road, Ankleshwar) 08.50 TPD (Dry Waste being segregated & sold out to recyclers) 00.40 TPD (Mix Waste to be disposed at dump site)	0	-	-	**Ankleshwar Nagar Palika-** MSW collected from household of Ankleshwar town is segregated for converting 15 MT of organic fertilizer and plastic waste is used for making molds.	-
Total	**46.54**	**36.54**	**--**	**10 MT**	**--**	**--**		**--**

Annexure-II (Amlakhadi)

5 (v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river

Progress/Status Report of the River/PRS water quality monitoring for the Month (Aug 2020):

Sr.no.	Location ID	Name of Location	Parameter					
			DO (mg/l)	pH	BOD (mg/l)	COD (mg/l)	Total coliform (MPN/ 100ml)	Fecal coliform (MPN/100 ml)
1434	33440	Low Level bridge	3.67	7.9	2.15	19	1600	280
1980	32618	Pungam	BDL	7.82	5	25	210	94

Progress /Status Report for Ground water quality monitoring pertaining to PRS River (Aug 2020):

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	7.8	0.32	5	In process	In process	BDL	In process	In process	--	In process	In process
50635	Vill. Juna Pungam	8.5	0.37	5	In process	In process	BDL	In process	In process	--	BDL	In process
	Vill. Bhadkodra	--	--	--	--	--	--	--	--	--	--	--
	Vill. Kosmadi	--	--	--	--	--	--	--	--	--	--	--
	Piraman Gram Panchayat	--	--	--	--	--	--	--	--	--	--	--
	Vill. Sakarporbhatha	--	--	--	--	--	--	--	--	--	--	--

Heavy metal analysis is still under process

Drains details with Flow:

Sr. No.	Location	Name of Inletting River/Drain	Discharge MLD	
			Max	**Min**
1	GIDC Ankleshwar Valia Chokdi	Ankleshwar GIDC STP w/w stream/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 Surti Bhagor drain	Surti Bhagor drain	0.05	0

Annexure-III

Details w.r.t point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept. as on date

Sr.No	River name	Details/Status
1	Amlakhadi	1) Environmental flow – NA. AmlaKhadi is not a perennial river, it is a drain/ Khadi meeting to river Narmada . There is no existing storage Dam/Weir on this drain. 2) Details of good irrigation practice- There is no Irrigation project existing on Amla Khadi hence NA. 3) Details of flood plain management zone - No such heavy flood is noticed in this drain, hence NA.

Annexure-IV

Details w.r.t point no. 5 (xii) given by **Forest Dept.** /ACCF/ Social Forestry wing/Concerned as on date:

The details received vide letter dated 02.03.2020 from Social Forestry wing, Aranya Bhavan, Gandhinagar are as under

Stretch/river	**Existing plantation/vegetation cover details**	**Proposed plan to cover remaining gap along river /river stretch**	**Time limit**	**Remarks**
Amla kahdi	About 11000 trees	0.10 lakh plants	2020-21	As per AAP (Annexure A) for both side plantation on PRS during 2020-21.

Annexure – A

List of Polluted River Stretches of the Gujarat (River Both side Plantation AAP in 2020-21)		
S.No.	River	Plants (In lacs)
1	Sabarmati	1.54
2	Bhadar	0.20
3	Amlakhadi	0.10
4	Bhogavo	0.60
5	Khari	0.02
6	Vishvamitri	0.15
7	Dhadar	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	Meshwa	0.40
19	Mindhola	0.05
20	Narmada	0.45
TOTAL		**6.10**

National Mission for Clean Ganga

Monthly Progress Report of PRS Bhadar (Gujarat State) for Aug-2020

(Hon'ble NGT in the matter of OA No.673/2018 dated 06/12/2019)

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by States/UT- Compliance Status
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2020	As informed by UDD, ULBs were instructed to start In-situ Bioremediation of sewage as per the Hon'ble NGT order Dated. 06.12.2019. As per data received 7 Municipalities (Jetpur (Bhadar), Ankleshwar (Amlakhadi), Wadhvan (Bhogavo), Vapi (Damanganga), Kheda (Shedhi), Dahod (Anas), Zalod (Anas)) out of 10 municipalities related to PRS required In-Situ Bioremediation. Consultants were appointed to suggest better technology for In-Situ Bioremediation of sewage. In- Situ remediation will be commenced within two months.
	Commencement of setting up of STPS and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2020	STP Jetpur - Navagadh Nagarpalika (23.5 MLD):- Work to be completed by October-2020. (Revised timeline as per 8th RRC meeting. Source:- GUDM).
2	Timeline for completing all steps of action plans including completion of setting up of STPs and their commissioning	31.03.2021	STP Jetpur - Navagadh Nagarpalika (23.5 MLD): - Work to be completed by October-2020. (Revised timeline as per 8th RRC meeting. Source:- GUDM). **Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-** **Reuse of treated sewage** As per the revised action plan submitted by Gujarat Water Supply and Sewerage Board (GWSSB) to Chairman, CPCB by letter dated 29.11.2019; one of the objectives of the revised action plan is to **reuse 70% of treated wastewater (Sewage) by 2025 and 100% of treated wastewater (Sewage) by 2030.** **CETP: -** **CETP JDPA (Upgradation)** – The project is under trail run from 20/08/2020. **CETP Dhareshwar (Modification): -** work completed. **New CETP JDPA: -** Dec- 2020
3	Chief Secretaries may set up appropriate monitoring mechanism at State level • Specifying accountability of nodal	22.01.2020	RRC meetings are regularly being held at GPCB, Gandhinagar to review the progress and the minutes of the meeting, having

	authorities not below the Secretary Level • Chief Secretaries may have an accountable person attached in their office for this purpose. • Monitoring at State level must take place	 22.01.2020 Fortnightly commencing 21.12.2019	progress status, is regularly submitted to CPCB. 8th RRC meeting was held on 07/08/2020 through video conference. (However, the meetings could not be convened during the first half of the year amid corona virus pandemic) In compliance to the direction of Hon'ble NGT with reference to set up of Monitoring Mechanism, Deputy Environmental Engineer (Shri T.C.Patel) has been deputed vide letter No. મહેકમ / ૭ -40 (14) / 561788 dated 10.06.2020 at Chief Secretary office to look after the Hon'ble NGT matters All NGT matters are being reviewed regualrly under chairmanship of Hon'ble CS (Last meeting was conducted on 03/07/2020) in matter of O.A. No.:- 606/2018.
4	Progress report may be furnished by the States/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB	Monthly (preferably before 20th of every month)	Noted & Complied
5	Progress Report may be comprised of details along with completion timelines on: (i) 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 which is already approved by CPCB w.r.t Priority I and II In-situ treatment:- Pl. refer point no:-1
	(ii) <u>Status of STPs, I&D and sewerage networks</u> Details of existing infrastructure, gap analysis, proposed along with completion timeline		**Existing infrastructure:** 6 MLD **Gap analysis:** 8 MLD **Proposed:** 23.5 MLD **Completion Timeline:** October-2020 (Revised timeline as per 8th RRC meeting. Source:- GUDM) **Proposed plan with present status:-** **STP:-** STP Jetpur - Navagadh Nagarpalika (23.5 MLD):- STP civil work 85 % completed, Plant machinery has reached on site. Work will be completed upto October-2020. **<u>Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-</u>**

			Reuse of treated sewage As per the revised action plan submitted by Gujarat Water Supply and Sewerage Board (GWSSB) to Chairman, CPCB by letter dated 29.11.2019; one of the objectives of the revised action plan is to **reuse 70% of treated wastewater (Sewage) by 2025 and 100% of treated wastewater (Sewage) by 2030.**
	(iii) Status of CETPs Details of existing CETP and ETP infrastructure, gap analysis, proposed along with completion timeline, no. of industries and complying status		**No. of industries and complying status: - Industries: -** 1430 Industrial Units are there in Jetpur Ind area & Dhareshwar GIDC and 2 CETPs i.e. CETP JDPA (Having domestic & Industrial mixed effluent) & CETP Dhareshwar are there which are disposing final treated effluent for irrigation & plantation. However due to consequences like overflows/broken/choke up /seepage in "C" etc., effluent leads to River Bhadar. CETP Dhareshwar GIDC has upgraded their treatment plant before timeline. To overcome this situation following action are proposed **i) CETP JDPA Modification by means of construction of the collection sump: -** Time line extended from Apr-20 to Nov-20 Due to Covid-19 pandemic situation. CETP JDPA has constructed new collection sump for mercerizer units at CETP of JDPA for the conveyance of wastewater through road tankers and progress is going on for other collection sump for printing units **ii) Setting up of New CETP (JDPA-20 MLD) at Derdi, Monpar:**- Design and engineering work in progress. Construction work started (Timeline-Dec-2020). **iii) Shifting of washing ghats:-** Still shifting of washing ghat not done due to treated waste water disposal problems. However, illegal washing Ghats are regularly demolished by joint drive of GPCB, Police dept., Revenue dept. etc. as per High court order **iv) CETP Dhareshwar Modification:** - work completed **v) Deep Sea Disposal Pipeline:** - As

			Permanent Solution to this & to eliminate Industrial Footprint from River Sabarmati and Bhadar, Deep sea disposal pipeline projects for the State of Gujarat worth Rs. 2147 Cr. have been given approval by State Government.(**Detail is attached as Annexure:- V)**
	(iv) Status of Solid Waste Management & Details of Processing Facilities Details of existing infrastructure, gap analysis, proposed along with completion timeline		5 (iv) Status is attached as **Annexure – I** Jetpur-navagadh Nagarpalika allocated SWM land fill site, DPR prepared and tendering is not done. MRF is installed and operational. (timeline as per RAP:- 31/12/2020)
	(v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river		5 (v) Status is attached as **Annexure – II**
	(vi) Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams etc.		**Bio-Medical Waste:-** Total 101 Nos. of Health Care Unit's are operating in Jetpur and generated Bio Medical Waste is being disposed through the CBWTF of M/s. Distromed Bio Clean Pvt. Ltd. **Industrial Waste:-** In the State, all Hazardous waste generating units are consented with the authorization under Haz. Waste Management Rules, amended time to time & they are disposing their waste to TSDF/CHWIF/registered recycler under Rule-9/Co-processing and as per consented conditions
	(vii) 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" in the meeting held on 04/02/2020 at GPCB with PRS Assessment Team nominated by Ministry of Jal Shakti which is in process and within 3 months to be submitted to the Assembly. **Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-** To reduce demand of Ground water extraction and to promote treated waste water as an Economic Resource, Gujarat Government has framed Policy for Reuse

			of "Treated Waste Water (TWW)" by maximizing the collection and treatment of sewage generated and reusing the treated wastewater on a sustainable basis. Also, revised action plan regarding utilization of treated wastewater is submitted by Gujarat Water Supply and Sewerage Board (GWSSB) to Chairman, CPCB by letter dated 29.11.2019 where one of the objectives of the revised action plan is to **reuse 70% of treated wastewater (Sewage) by 2025 and 100% of treated wastewater (Sewage) by 2030.**
	(viii) Adopting good irrigation practices		Details w.r.t point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept. as on date is attached as **Annexure – III**
	(ix) Protection and management of Flood Plain Zones (FPZ)		
	(x) Rain water harvesting		
	(xi) Maintaining minimum environmental flow of river		
	(xii) Plantation on both sides of the river		Details w.r.to point no. 5 (xii) given by Forest Dept. /PCCF/ACCF/Social Forestry wing/Concerned, as on date is attached as **Annexure – IV**
	(xiii) Setting up biodiversity parks on flood plains by removing encroachment		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.

Annexure- I

5 (iv) Status of Solid Waste Management & Details of Processing Facilities:

Type of Waste / Characteristic of Waste	Generated Quantity MTPD	Collection /Storage facility with capacity	Disposal/ Treatment facility with capacity along with location	Total gap with generation and existing treatment facility if any	Proposed action plan/ facility to cover gap	Time limit	Present Status
MSW	@39	Only collection and segregation facility.	At present @ 15 MTPD MSW recycling facility setup through out sourcing agency. Scientifically landfill site is not developed	@24 MTPD	MSW and other waste dumping site will be developed at S.No. 972/3 derdi Road, Jetpur.	31/ 12/ 2020	Jetpur-navagadh Nagarpalika allocated SWM land fill site, DPR prepared and tendering is not done. MRF is installed and operational.
Total	@ 39	--	15 MTPD	24 MTPD	--	--	--

Annexure-II

5 (v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river

Progress/Status Report of the River/PRS water quality monitoring for the Month Aug-2020:

Location ID	Name of Location	Parameter					
		DO (mg/l)	pH	BOD (mg/l)	COD (mg/l)	Total coliform (MPN/ 100ml)	Fecal coliform (MPN/100 ml)
31211	Dublipat	0.6	8.43	6.66	52	** TC & FC parameters not analyzed due to Renovation work of Rajkot Laboratory	

Annexure-II (a)

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	05/08/2020	0.78	09	922	7.97

Annexure-II (b)

Drains Details with Flow:

Sr. No.	Location (Latitude and longitude)	Discharge (MLD)	
		Max	Min
1	Opp. Bhadar Stone Crusher	00	00
2	Sarang Nallah	0.5	0.1
3	Behind Gondra area	2	1
4	Behind Kabrastan	00	00
5	Near railway bridge	00	00
6	Maghedi Vokda	00	00

Annexure-II (c)

CETP Results

Sr. No.	Name of STP/CETP	Discharge Norms		Aug-2020 Results	
1	CETP of Jetpur Dyeing & Printing Association (PCB ID-19722)	DO (mg/l)	--	DO (mg/l)	--
		pH	6.5 to 9	pH	8.55
		BOD (mg/l)	100	BOD (mg/l)	34
		COD (mg/l)	250	COD (mg/l)	125
		Total coliform (MPN/ 100ml)	-	Total coliform (MPN/ 100ml)	--
		Fecal coliform (MPN/100 ml)	-	Fecal coliform (MPN/100 ml)	--
2	CETP of Shri Dhareshwar Gidc Vistar Assocation (PCB ID-20111)	DO (mg/l)	--	DO (mg/l)	--
		pH	6.5 to 9	pH	7.93
		BOD (mg/l)	30	BOD (mg/l)	Analysis result is awaited from R.O-Rajkot
		COD (mg/l)	100	COD (mg/l)	116
		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)	Sample was not collected as STP was not in operation during the time of visit on 28.08.20. It was informed by the rep. that STP is not operated as inlet flow at collection tank of CETP-JDPA was low.
		pH	6.5 to 9	pH	
		BOD (mg/l)	30	BOD (mg/l)	
		COD (mg/l)	--	COD (mg/l)	
		Total coliform (MPN/ 100ml)	-	Total coliform (MPN/ 100ml)	
		Fecal coliform (MPN/100 ml)	< 1000	Fecal coliform (MPN/100 ml)	

Annexure-III

Details w.r.t point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept. as on date

Sr.No	River name	Details/Status
1	Bhadar	**Environmental flow:** Bhadar is not a perennial river. 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.

Annexure-IV

Details w.r.t point no. 5 (xii) given by Forest Dept. /PCCF/ACCF/Concerned as on date

Stretch/ River	Existing plantation / vegetation cover details	Proposed plan to cover remaining gap along river/river stretch	Time limit	Remarks
Bhadar	Vegetation Cover is scattered and scanty covered by Thorny trees with Dry deciduous vegetation Prosopios juliflora, Azadirachta aindica About 91% is covered with such scartly vegetation.	0.20 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

Annexure-V

Deep Sea Disposal Pipeline for PRS Gujarat

- 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.
- Gujarat Water Infrastructure Ltd (GWIL) has already invited tender for appointing Project management Consultant for execution of the projects.
- DPRs are prepared and are under vetting by Gujarat Water Infrastructure Ltd (GWIL).

National Mission for Clean Ganga

Monthly Progress Report of PRS Bhogavo (Gujarat State) for August -2020

(Hon'ble NGT in the matter of OA No.673/2018 dated 06/12/2019)

Sl.No.	Activity to be monitored	Timeline	Submission of Progress by States/UT-Compliance Status
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2020	As informed by UDD, ULBs were instructed to start In-situ Bioremediation of sewage as NGT instructed by order Dated. 06.12.2019. As per data received 7 Municipalities (including Wadhvan (Bhogavo)), out of 10 municipalities related to PRS required to In-Situ Bioremediation. Consultants were appointed to suggest better technology for In-Situ Bioremediation of sewage. In- Situ remediation will be commenced within two months after finalization of the technology to be adopted.
	Commencement of setting up of STPS and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2020	Surendranagar (32.3 MLD STP) - Work completed (100%) Wadhwan 12.1 MLD STP :- Might be completed by March-2022
2	Timeline for completing all steps of action plans including completion of setting up of STPs and their commissioning	31.03.2021	**STPs:** (Source:- GUDM) Surendranagar (32.3 MLD STP)-Work completed (100%) Vadhwan 12.1 MLD STP - Might be completed by March-2022 **Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-** As per the revised action plan submitted by Gujarat Water Supply and Sewerage Board (GWSSB) to Chairman, CPCB by letter dated 29.11.2019; one of the objectives of the revised action plan is to **reuse 70% of treated wastewater (Sewage) by 2025 and 100% of treated wastewater (Sewage) by 2030.**
3	Chief Secretaries may set up appropriate monitoring mechanism at State level • Specifying accountability of nodal authorities not below the Secretary Level	22.01.2020	RRC meeting is generally held periodically at GPCB, Gandhinagar to review the progress and the minutes of the meeting, having progress status, is regularly submitted to CPCB. Last RRC (8th RRC) meeting was conducted on 07/08/2020.
	• Chief Secretaries may have an accountable person attached in	22.01.2020	In compliance to the direction with reference to set up Monitoring Mechanism,

	their office for this purpose. • Monitoring at State level must take place	 Fortnightly commencing 21.12.2019	Deputy Environmental Engineer (Shri T.C.Patel) has been deputed vide letter No. મહેકમ / જી -40 (14) / 561788 dated 10.06.2020 at Chief Secretary office to look after the Hon'ble NGT matters All NGT matters are being reviewed regualrly under chairmanship of Hon'ble CS (Last meeting was conducted on 03/07/2020) in matter of O.A. No.:- 606/2018.
4	Progress report may be furnished by the States/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB	Monthly (preferably before 20th of every month)	Noted & Complied
5	Progress Report may be comprised of details along with completion timelines on: (i) 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 which is already approved by CPCB w.r.t Priority I and II In-situ treatment:- Pl. refer point no:-1
	(ii) <u>Status of STPs, I&D and sewerage networks</u> Details of existing infrastructure, gap analysis, proposed along with completion timeline		**Existing infrastructure:** --- **Gap analysis:** 15 MLD **Proposed :** 44.4 MLD **Completion Timeline :** March-2021 **Proposed plan with present status (Source:- GUDM):-** **Surendranagar (32.3 MLD STP)**-Work physically completed (100%) (Feb. 2020), testing is in progress. **Wadhwan 12.1 MLD STP (Mar-2022)** – Land issue sorted out, land is available now. Land for STP allotted on date 18/06/2020 (which is 683 days from the LOI date, i.e. 06/08/2018).SBC work completed. Design and Drawing approval in process. Fees for land paid and DLIR demarcation completed. (might be completed by March-2022)

	(iii) Status of CETPs Details of existing CETP and ETP infrastructure, gap analysis, proposed along with completion timeline, no. of industries and complying status		Not applicable as there is no any CETP in the region of Surendranagar and there is no industrial effluent discharge in the Bhogavo river.
	(iv) Status of Solid Waste Management & Details of Processing Facilities Details of existing infrastructure, gap analysis, proposed along with completion timeline		5 (iv) Status is attached as **Annexure – I**
	(v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river		5 (v) Status is attached as **Annexure – II**
	(vi) Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams etc.		**Bio-Medical Waste:-** In Surendranagar region @ 381 HCU are registered and all are member of two CBMWTF i.e E coli Waste management Pvt. Ltd, Sanand, Dist. Ahmedabad & Distromed Bio Clean Pvt. Ltd. Kuvadava GIDC, Dist. Rajkot and regularly sending their waste **Industrial Waste:-** In the State, All consented Hazardous waste generating industrial unit are having authorization under Haz. Waste Management Rules, amended time to time & they are disposing their waste to TSDF/CHWIF/registered recycler under Rule-9/Co-processing and as per consented conditions.
	(vii) 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" in the meeting held on 04/02/2020 at GPCB with PRS Assessment Team nominated by Ministry of Jal Shakti which is in process and to be submitted to the Assembly. **Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-** To reduce demand of Ground water

			extraction and to promote treated waste water as an Economic Resource, Gujarat Government has framed Policy for Reuse of "Treated Waste Water (TWW)" by maximizing the collection and treatment of sewage generated and reusing the treated wastewater on a sustainable basis. Also, revised action plan regarding utilization of treated wastewater is submitted by Gujarat Water Supply and Sewerage Board (GWSSB) to Chairman, CPCB by letter dated 29.11.2019 where one of the objectives of the revised action plan is to **reuse 70% of treated wastewater (Sewage) by 2025 and 100% of treated wastewater (Sewage) by 2030.**
	(viii) Adopting good irrigation practices		Details w.r.t point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept. ./Water Resource Dept., NWR WS & KD as on date is attached as **Annexure – III**
	(ix) Protection and management of Flood Plain Zones (FPZ)		
	(x) Rain water harvesting		
	(xi) Maintaining minimum environmental flow of river		
	(xii) Plantation on both sides of the river		Details w.r.t point no. 5 (xii) given by Forest Dept. /PCCF/ACCF/Social Forestry Wing/ Concerned as on date is attached as **Annexure – IV.**
	(xiii) Setting up biodiversity parks on flood plains by removing encroachment		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.

Annexure- I

5 (iv) Status of Solid Waste Management & Details of Processing Facilities:

Types of Waste/ Characteristic of waste	Generated Quantity/ day	Collection/ Storage facility with capacity	Disposal/ Treatment facility with capacity along with location	Total Gap with generation & existing treatment facilities if any	Proposed action plan / facility to cover gap	Time limit	Remarks	Present Status
Domestic waste from Surendranagar Municipality (Mixed type)	@ 90-100 MT/ Day	Not provided as per the Solid Waste Management Rules 2016		90-100 MT/Day	--	NA	Vermi compost	There is no any solid waste management & Processing facilities provided by the Nagarpalika. Scientific landfill site is not developed by the Nagarpalika. Provided Vermi compost plant are non operative.
Domestic Solid waste from Wadhwan Municipality (Mixed Type)	@ 17-18 MT/ Day	Not provided as per the Solid Waste Management Rules 2016		17-18 MT/Day	--	NA	Vermi compost	

Annexure-II

Progress/Status Report of the River/PRS water quality monitoring:

Date	Location	DO (mg/l)	pH	BOD (mg/l)	COD (mg/l)	Fecal Coliform (MPN/100 ml)	Total coliform (MPN/100 ml)
May - 2020	D/S of Surendranagar City, Near Wadhwan Bridge	1.0	7.58	12.6	48	N. A.	N. A.
June - 2020	D/S of Surendranagar City, Near Wadhwan Bridge	3.3	7.52	7.31	31	<2	4
July - 2020	D/S of Surendranagar City, Near Wadhwan Bridge	0.6	7.41	5	36	25	120
Aug-2020	D/S of Surendranagar City, Near Wadhwan Bridge	4.4	8.63	3.2	32	4	24

Annexure-II (A) STPs Results

There is no STP at present. Hence not applicable

Annexure-II (B) Drain 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

Annexure-II (C) CETPs Results

Not applicable

Annexure-II (D)

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

Location of sample collected	Water Project Emp Program Bore Well Water Sample Of M/S Bhavani Plastic Gidc Wadhwan - Monthly	
Sample ID	285551	
Date of sample collection	04/08/2020	
Parameter	**Unit**	**Result**
Arsenic	mg/l	0.007
BOD	mg/l	0.72
COD	mg/l	7.0
Copper	mg/l	0.017
pH	pH units	8.57
TDS	mg/l	2034
Iron	mg/l	0.068
Lead	mg/l	0.009
Mercury	Ppb	BDL
Nickel	mg/l	0.051
Zinc	mg/l	0.088

Annexure-III

Details w.r.t point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept./WRD as on date

Sr.No	River name	Details/Status
1	Bhogavo	1. Environmental flow: Bhogavo is not a perennial river. 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.

Annexure-IV

Details w.r.t point no. 5 (xii) given by Forest Dept. /PCCF/ACCF/Concerned as on date

Stretch/ River	Existing plantation / vegetation cover details	Proposed plan	Time limit	Remarks
Bhogavo	Vegetation Cover is scattered and scanty covered by Thorny trees with Dry deciduous vegetation Prosopiosjuliflora, Azadirachtaaindica About 91% is covered with such scartly vegetation.	0.60 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

National Mission for Clean Ganga
Monthly Progress Report of PRS Khari (Gujarat State) for August -2020
(Hon'ble NGT in the matter of OA No.673/2018 dated 06/12/2019)

Sl.No.	Activity to be monitored	Timeline	Submission of Progress by States/UT-Compliance Status
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2020	Presently there is no any proposal for in-situ remediation from the Concerned authority.
	Commencement of setting up of STPS and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2020	**STPs:-** Vinzol (35 MLD) AMC - Commissioned Vinzol (100 MLD) AMC- Expected to be completed by Dec-20 (Source:- GUDM)
2	Timeline for completing all steps of action plans including completion of setting up of STPs and their commissioning	31.03.2021	**Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-** As per the revised action plan submitted by Gujarat Water Supply and Sewerage Board (GWSSB) to Chairman, CPCB by letter dated 29.11.2019; one of the objectives of the revised action plan is to **reuse 70% of treated wastewater (Sewage) by 2025 and 100% of treated wastewater (Sewage) by 2030.**
3	Chief Secretaries may set up appropriate monitoring mechanism at State level • Specifying accountability of nodal authorities not below the Secretary Level • Chief Secretaries may have an accountable person attached in their office for this purpose. • Monitoring at State level must take place	22.01.2020 22.01.2020 Fortnightly commencing 21.12.2019	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. 8th RRC meeting was held on 07/08/2020 through video conference. (However, the meetings could not be convened during the first half of the year amid corona virus pandemic) In compliance to the direction of Hon'ble NGT with reference to set up of Monitoring Mechanism, Deputy Environmental Engineer (Shri T.C.Patel) has been deputed vide letter No. મહેકમ / જી -40 (14) / 561788

			dated 10.06.2020 at Chief Secretary office to look after the Hon'ble NGT matters All NGT matters are being reviewed regualrly under chairmanship of Hon'ble CS (Last meeting was conducted on 03/07/2020) in matter of O.A. No.:- 606/2018
4	Progress report may be furnished by the States/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB	Monthly (preferably before 20th of every month)	Noted & Complied
5	Progress Report may be comprised of details along with completion timelines on: (i) 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 which is already approved by CPCB w.r.t Priority I and II In-situ treatment:- Pl. refer point no:-1
	(ii) <u>Status of STPs, I&D and sewerage networks</u> Details of existing infrastructure, gap analysis, proposed along with completion timeline		**Existing infrastructure: 70 MLD** **Gap analysis: 115 MLD** **Proposed : 135 MLD** **Completion Timeline** : **Dec-2020 as below** **Proposed plan with present status:-** 1) 35 MLD STP – Commissioned and 2) 100 MLD STP – Under Progress, 67% Completed. Expected to be completed by Dec-2020 (Source:- GUDM) **<u>Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-</u>** **Reuse of treated sewage** The information given by representative of concerned dept., at time of PRS Assessment Team visit held on 04-05/02/2020, regarding reuse of treated sewage is attached herewith as **Annexure-V.**
	(iii) <u>Status of CETPs</u> Details of existing CETP and ETP infrastructure, gap analysis, proposed along with		Industrial waste water generation from the GIDCs of Naroda, Odhav, Vatva and GVMM are discharging their treated waste water from CETPs in to the

		completion timeline, no. of industries and complying status		MEGA Pipeline which is specifically dedicated for conveying of Effluent generated from the estates which ultimately discharging in River Sabarmati. Hence there is no industrial waste water discharge in to River Khari from these industrial estates.
	(iv)	<u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of existing infrastructure, gap analysis, proposed along with completion timeline		5 (iv) Status is attached as **Annexure – I**
	(v)	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river		5 (v) Status is attached as **Annexure – II**
	(vi)	Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams etc.		**Bio-Medical Waste:-** Total 333 Nos. of Health Care Units are operating in Ahmedabad (East) and generated Bio Medical Waste is being disposed through the CBWTF of – Care Bio Medical Waste Incinerator, Gandhinagar – E.Coil Waste Management System, Ahmedabad – Pollucare Biomedical Management Pvt. Ltd., Ahmedabad – Medicare Environmental Management Pvt. Ltd., Ahmedabad **Industrial Waste:-** In the State, All consented Hazardous waste generating industrial units are having authorization under Haz. Waste Management Rules, amended from time to time & they are disposing their waste to TSDF/CHWIF/registered recycler under Rule-9/Co-processing and as per consented conditions.
	(vii)	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" in the meeting held on 04/02/2020 at GPCB with PRS Assessment Team nominated by Ministry of Jal Shakti which is in process and to be submitted to the Assembly. **<u>Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-</u>** To reduce demand of Ground water extraction and to promote treated waste water as an Economic Resource, Gujarat Government has framed Policy for Reuse of "Treated Waste Water (TWW)" by maximizing the collection and treatment of sewage generated and reusing the treated wastewater on a sustainable basis. Also, revised action plan regarding utilization of treated wastewater is submitted by Gujarat Water Supply and Sewerage Board (GWSSB) to Chairman, CPCB by letter dated 29.11.2019 where one of the objectives of the revised action plan is to **reuse 70% of treated wastewater (Sewage) by 2025 and 100% of treated wastewater (Sewage) by 2030.** Pl refer Annexure:- V
	(viii) Adopting good irrigation practices		Details w.r.t point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept./ Water Resource Dept., NWR WS & KD as on date is attached as **Annexure – III**
	(ix) Protection and management of Flood Plain Zones (FPZ)		
	(x) Rain water harvesting		
	(xi) Maintaining minimum environmental flow of river		
	(xii) Plantation on both sides of the river		Details w.r.t point no. 5 (xii) given by Forest Dept. /PCCF/ACCF/ Social Forestry wing/Concerned as on date is attached as **Annexure – IV**
	(xiii) Setting up biodiversity parks on flood plains by removing encroachment		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 in 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.

Annexure- I

5 (iv) Status of Solid Waste Management & Details of Processing Facilities:

Types of Waste/ Characteristic of waste	Generated Quantity/ Day (MT/day)	Collection/ Storage facility with capacity (MT/day)	Disposal/ Treatment facility with capacity along with location	Total Gap with generation & existing treatment facilities if any	Proposed action plan /facility to cover gap	Time limit	Present Status
Domestic sewage sludge	0.5	10	Sludge hygienisation plant at Pirana (100 TPD) and AMC gardens	Generated quantity is sent to the Sludge hygienisation plant at Pirana, hence there is no gap generation at present.	Sludge is hygeinised at Sludge hygienisation plant and marketed to farmers/ nurseries	--	Capacity to hygienise 100 tons of dry sewage sludge is operationalized and commercial production has commenced. The plant was inaugurated on March 2019.
Total	**0.5**	**10**	**100 TPD**	**--**	**--**	**--**	**--**

Annexure-II

Progress/Status Report of the River/PRS water quality monitoring for August -2020

River/PRS	Name of Location	Parameter					
		DO (mg/l)	pH	BOD (mg/l)	COD (mg/l)	Total coliform (MPN/ 100ml)	Fecal coliform (MPN/100 ml)
Khari	Lali village (13401)	BDL	8.02	66	287	>1600	920

Note:- Priority:- I as per July 2020 MPR & Priority I as per Aug-2020 MPR

Annexure- II (A) STPs Results

Vinzol STP(70MLD)(21913)

Location of sample collection	Discharge norms	Analysis Results
Final out let of STP Dtd. 15/08/2020	pH-6.5 to 8.5	7.30
	BOD- Less than 20mg/L	36 mg/L
	SS- Less than 30mg/L	143.6 mg/L
	Total coliform (TC)- < 1000 MPN/100 ml	>1600MPN/100 ml
	Fecal coliform(FC)- < 1000 MPN/100 ml	>1600MPN/100 ml
	Residual Chlorine-0.5mh/L	BDL

Annexure-II (B) Drain details with flow

Total no. of drains = 02

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

Annexure-II (C) CETP Results

Not Applicable. There is no industrial waste water discharge in to River Khari

Annexure-II (D)

Progress /Status Report for Ground water quality monitoring pertaining to PRS River for August -2020

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

Annexure-III

Details w.r.t point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept./WRD as on date

Sr.No	River name	Details/Status
1	Khari	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 the month of February-March. In the summer season water is released after treatment as per the government norms by Municipal Corporation from the STP plants situated on the banks of the river. Detail of Good Irrigation Practices: This river does not contain command area. Farmers are made aware to use water efficiently. Canal System of Kharicut is 80% lined so as to minimize seepage losses. Also, Kharicut canal receives water from Narmada Canal. Detail on Flood Plain Management Zone: As far as Khari river is concerned it is tributary of Sabarmati river, the village situated along the bank of the river are warned as per the flood memorandum through early warning arrangement in consultation with revenue department.

Annexure-IV

Details w.r.t point no. 5 (xii) 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.	0.02 Lacs plantation to be done in 2020-2021	2020-21	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

Annexure-V

Treated Waste Water (Sewage) Policy Details

Gujarat Government has framed Policy to utilize Treated Waste Water and as per the GOG policy "Recycle and Reuse of treated Sewage for different usages for PRS Khari are as under:

Present Installed Plant Capacity (in MLD)		**Reuse recycling capacity (MLD)**	**Treated Sewage Reuse**
Vinzol	70	2	2 MLD treated sewage is being supplied to Vatva CETP for reuse purpose
Vinzol	35	35	It is planned to reuse treated sewage for industrial reuse and nuisance tanker filling

National Mission for Clean Ganga

Monthly Progress Report of PRS Sabarmati (Gujarat State) for AUGUST-2020

(Hon'ble NGT in the matter of OA No.673/2018 dated 06/12/2019)

Sl.No.	Activity to be monitored	Timeline	Submission of Progress by States/UT-Compliance Status
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2020	Presently there is no any proposal for in-situ remediation from concerned authority.
	Commencement of setting up of STPS and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2020	(Source:- GUDM) (i) Pirana 155 MLD STP:- December-2020 (ii) STP of Shankar Bhuvan 25 MLD:- March-2020. Commissioned. (iii) STP at Dafnala 25 MLD:- Mar-2022 (iv) STP at Kotarpur 60 MLD:- Mar-2022 (v) STP at Koteshwar 60 MLD by AUDA-Timeline not given. RRC instructed AUDA to submit the same with detailed action plan without any further delay. AUDA has dropped this project due to land issue. During 8th RRC it was decided to take this issue in the separate meeting which is planned to be held for land issue.
2	Timeline for completing all steps of action plans including completion of setting up of STPs and their commissioning	31.03.2021	**STPs** (Source:- GUDM)**:-** (i)Pirana STP 155 MLD:- December-2020 (ii) STP of Shankar Bhuvan 25 MLD:- Commissioned (iii) STP at Dafnala 25 MLD:- Mar-2022 (iv) STP at Kotarpur 60 MLD:- Mar-2022 STP at Koteshwar 60 MLD by AUDA-Timeline not given. RRC instructed AUDA to submit the same with detailed action plan without any further delay. AUDA has dropped this project due to land issue. During 8th RRC it was decided to take this issue in the separate meeting which is planned to be held for land issue. **Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-** As per the revised action plan submitted by Gujarat Water Supply and Sewerage Board (GWSSB) to Chairman, CPCB by letter dated 29.11.2019; one of the objectives of the revised action plan is to **reuse 70% of treated wastewater (Sewage) by 2025 and 100% of treated wastewater (Sewage) by**

			2030. **<u>CETPs:-</u>** **Green Environment Co-Operative So. Ltd., (GECSL)-** Expn: 16 to 35 MLD. June-2021. Timeline extended from Dec-20 to June-2021, due to Covid-19 pandemic situation **Naroda Enviro Projects Ltd. (NEPL)- Expn:-** 3 to 14 MLD (Feb-2020) **Odhav Enviro Projects Ltd.:-** Work completed. **(OEPL) Modification:** - Proposed Spray Dryer (Mar-2020):- Work Completed. **Narol Dyestuff Enviro Society (NDES)- Expn.** up to 0.45 MLD (Mar-2020)- At present no plan for further expansion of CETP due to current situation. **Narol Textile Integrated Enviro Management (NTIEM)- Expn**:- 100 to 130 MLD (Mar-2020). Due to several financial constraints, CETP has not been able to meet their expansion project by March-2020 timeline. They have recently completed some up-gradation in their CETP to tend to meet with the norms. **Ahmedabad Hand Screen Printing Association (AHSPA)- New CETP:-** (Dec-2021) **Karnavati Textile Association- New CETP (50 MLD)**:- CTE issued by Board.
3	Chief Secretaries may set up appropriate monitoring mechanism at State level • Specifying accountability of nodal authorities not below the Secretary Level • Chief Secretaries may have an accountable person attached in their office for this purpose.	22.01.2020 22.01.2020	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. 8th RRC meeting was held on 07/08/2020 through video conference. (However, the meetings could not be convened during the first half of the year amid corona virus pandemic) In compliance to the direction of Hon'ble NGT with reference to set up of Monitoring Mechanism, Deputy Environmental Engineer (Shri T.C.Patel) has been deputed vide letter

	• Monitoring at State level must take place	Fortnightly commencing 21.12.2019	No. મહેકમ / જી -40 (14) / 561788 dated 10.06.2020 at Chief Secretary office to look after the Hon'ble NGT matters All NGT matters are being reviewed regualrly under chairmanship of Hon'ble CS (Last meeting was conducted on 03/07/2020) in matter of O.A. No.:- 606/2018.
4	Progress report may be furnished by the States/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB	Monthly (preferably before 20th of every month)	Noted & Complied
5	Progress Report may be comprised of details along with completion timelines on: (i) 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 which is already approved by CPCB w.r.to Priority I and II In-situ treatment:- Pl. refer point no:-1
	(ii) <u>Status of STPs, I&D and sewerage networks</u> Details of existing infrastructure, gap analysis, proposed along with completion timeline		**Existing infrastructure:** 890 MLD **Gap analysis:** 0 MLD **Proposed : A**s below (Source:- GUDM) (i) Pirana 155 MLD STP, 75% construction completed, December-2020. (ii) STP at Dafnala 25 MLD, Tender Approved, Land Possession from cantonment is under progress. (Mar-2022) (iii) STP at Kotarpur 60 MLD, Tender under approval, Mar-2022 Delayed due to COVID-19. (iv)STP of 60 MLD at Koteshwar (AUDA) :- For the treatment of domestic sewage discharges of Bhat, Koteshwar & nearby other areas. Timeline not given. RRC instructed AUDA to submit the same with detailed action plan without any further delay-- AUDA has dropped this project due to land issue (Feb submission). During 8th RRC it was decided to take up this issue in the separate meeting which is planned to be held for land issue

			<u>Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-</u> **Reuse of treated sewage** The information given by representative of concerned dept., regarding reuse of treated sewage, during PRS Assessment Team visit held on 04-05/02/2020, is attached herewith as **Annexure-VI.**
	(iii) <u>Status of CETPs</u> Details of existing CETP and ETP infrastructure, gap analysis, proposed along with completion timeline, no. of industries and complying status		**No. of industries:-** 1351. 1066 (CETP member units). Rest 285 (Danilimda-Behrampura) having individual ETPs. 2 New CETPs are also proposed at Danilimda as below. **Existing CETPs:-** 07 Nos. having Treatment capacity:- 120.88 MLD. Gap in terms of quality of treated effluents is there hence, Up gradation /expansion of CETPs & **Deep Sea disposal Pipeline** are proposed as below.**:-** **Deep Sea disposal Pipeline:-** As permanent Solution to eliminate Industrial Footprint from River Sabarmati and Bhadar, Deep sea disposal pipeline projects for the State of Gujarat worth Rs. 2147 Cr. have been approved by State Government.(**Detail is attached as Annexure:- V)** **Proposed New/Expansion/upgradation/Modification of CETP:-** CETPs:- **1) New CETP proposed in Danilimda (AHSPA -30 MLD) -** (Dec-2021) Work order issued, work started by L&T, 3% completed RRC asked to resubmit the latest timeline for the completion of the project. **2) GECSL Expn. (16 to 35 MLD):-** June-2021. Timeline extended from Dec-20 to June-2021, due to Covid-19 pandemic situation Civil work and vendor process for electrical and mechanical work for FCR in progress **3) NEPL Expn.** (Feb-2020)**:-** 3 to 14 MLD**:-**

			Modification/up gradation work is completed (Feb-20). Stabilization of technology is going on. **4) OEPL Modification:** - Proposed Spray Dryer completed by Mar-2020. Spray Dryer and HAG installed. **5) NDES Expn.** up to 0.45 MLD (Mar-2020) :- At present no plan for further expansion of CETP due to current situation. However, Up-gradation of CETP units is in progress. UH- A'bad (East), GPCB informed that 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. **6) NTIEM- Expn**:- 100 to 130 MLD (Mar-20) - Due to several financial constraints, CETP has not been able to meet their expansion project by March-2020 timeline. UH- A'bad (East), GPCB informed that due to several financial constraints, CETP has not been able to meet their expansion project by March-2020 timeline. Moreover, due to current situation at present average flow of CETP is 70-80 MLD. Hence at present no plan for further expansion of CETP in the 2020-21. Further they have recently completed some up-gradation in their CETP to tend to meet with the norms. **7) New CETP proposed in Danilimda (Karnavati Textile Association-50 MLD):-** CTE issued by Board.
	(iv) <u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of existing infrastructure, gap analysis, proposed along with completion timeline		5 (iv) Status is attached as **Annexure – I**
	(v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of		5 (vi) Status is attached **as Annexure – II**

	polluted river		
	(vi) Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams etc.		**Bio-Medical Waste:-** Total 5083 Nos. of Health Care Unit's are operating in Ahmedabad City and generated Bio Medical Waste is disposed through the CBWTF of M/s. Care Bio Medical Waste Incinerator, Gandhinagar M/s. E.Coil Waste Management System, Ahmedabad M/s. Pollucare Biomedical Management Pvt. Ltd., Ahmedabad and M/s. Medicare Environmental Management Pvt. Ltd., Ahmedabad. **Industrial Waste:-** In the State, All consented Hazardous waste generating industrial units are having authorization under Haz. Waste Management Rules, amended from time to time & they are disposing their waste to TSDF/CHWIF/registered recycler under Rule-9/Co-processing and as per consented conditions
	(vii) Ground water regulation		During the meeting held on 04/02/2020 at GPCB with PRS Assessment Team nominated by Ministry of Jal Shakti, GWRDC has given details about the recently framed draft bill titled "Conservation, Protection, Regulation and Management of Ground Water in Gujarat State" which is in process and to be submitted within 3 months to the Assembly **<u>Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-</u>** To reduce demand of Ground water extraction and to promote treated waste water as an Economic Resource, Gujarat Government has framed a Policy for Reuse of "Treated Waste Water (TWW)" by maximizing the collection and treatment of sewage generated and reusing the treated wastewater on a sustainable basis. Also,

			revised action plan regarding utilization of treated wastewater is submitted by Gujarat Water Supply and Sewerage Board (GWSSB) to Chairman, CPCB by letter dated 29.11.2019 where one of the objectives of the revised action plan is to **reuse 70% of treated wastewater (Sewage) by 2025 and 100% of treated wastewater (Sewage) by 2030.** Pl refer Annexure-VI
	(viii) Adopting good irrigation practices		Details w.r.to point no. 5 (Viii),(ix), (x) & (xi) given by Irrigation Dept./ Water Resource Dept., NWR WS & KD as on date is attached as **Annexure – III**
	(ix) Protection and management of Flood Plain Zones (FPZ)		
	(x) Rain water harvesting		
	(xi) Maintaining minimum environmental flow of river		
	(xii) Plantation on both sides of the river		Details w.r.to point no.-5(xiii) given by Forest Dept. /PCCF/ACCF/Social Forestry wing/Concerned, as on date is attached as **Annexure – IV**
	(xiii) Setting up biodiversity parks on flood plains by removing encroachment		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.

Annexure- I

5 (iv) Status of Solid Waste Management & Details of Processing Facilities

Types of Waste/ Characteristic of waste	Generated Quantity/ day	Collection /Storage facility with capacity	Disposal/Treatment facility with capacity along with location	Total Gap with generation & existing treatment facilities if any	Proposed Action Plan/Facility to cover gap	Time limit & Budgetary provisions	Present Status
Solid Waste from Residential, commercial units of Ahmedabad	3500 TPD	3500 TPD	2500 TPD 1000 TPD Composting 1000 TPD C & D Waste 100 TPD Plastic waste • 400 TPD MRF	1000 TPD	Work of 2 Nos. Waste to Energy Plants of 1000 TPD each has been started	Power purchase agreement and Land lease agreement done by both the agencies. Plants are expected to commence functioning before end of 2020. **Budgetary provisions:-***	As per information given by representative during meeting held on 04/02/2020 at GPCB, Gandhinagar with PRS assessment team nominated by Ministry of Jalshakti , it will be completed by Dec 2020
Domestic sewage sludge	25 m^3/day	100 m^3/day	Sludge hygienisation plant at Pirana (100 TPD) and AMC gardens	0	Sludge will be hygeinised at Sludge hygienisation plant and shall be marketed to farmers/nurseries	March 2019	Capacity to hygienise 100 tons of dry sewage sludge plant is operationalized and commercial production has commenced. The plant was inaugurated in March 2019.

* Budgetary Provision: - These plants are on PPP mode and all involved infrastructure shall be developed by agencies. AMC will give the differential amount as per below mentioned rate to GUVNL as approved by Standing Committee resolution.

For Mass - Incineration based plant	For RDF based plant
Rate as per GERC - Rs.7.03 kWh Tarrif given by GUVNL - Rs.6.31 kWh AMC will give - Rs. 0.72 kWh	Rate as per GERC - Rs.7.07 kWh Tarrif given by GUVNL - Rs.6.31 kWh AMC will give - Rs. 0.76 kWh

Annexure-II

5 (vi) Progress/Status Report of the River/PRS water quality monitoring for AUGUST-2020:

Note:- Priority I as per July-2020 MPR & Priority I as per Aug-2020 MPR

Sr No	River Sabarmati at	PH	COD (mg/l)	BOD (mg/l)	DO (mg/l)	TC (MPN)	FC (MPN)
1.	**Kheroj**	Sample is not collected as no flow observed					
2.	**Mahudi**	Sample is not collected as no flow observed					
3.	**Chiloda**						
4.	**Hansol Bridge**	7.97	15	0.81	6.26	70	06
5.	**Railway Bridge**	7.63	11	1.84	6.08	210	17
6.	**V N Bridge**	8.11	277	94	BDL	>1600	>1600
7.	**Miroli**	8.29	161	51	BDL	>1600	920
8.	**Vautha**	7.88	203	48	BDL	920	170

Annexure-II (A) STPs Results

- **Progress /Status Report for STPs pertaining to PRS River (AUGUST-2020):**

Sr No	Parameters	pH	BOD (mg/l)	TSS (mg/l)	FCO MPN/100 ml	Residual chlorine (mg/l)
	Discharging Norms	**6.5 to 9.0**	**20**	**<50**	**<1000 MPN/100 ml**	**0.5**
1	AMC PIRANA STP 60 MLD (ASP TYPE)	7.75	11	40	350	-
2	AMC PIRANA STP 106 MLD (UASB TYPE)	7.88	14	65	540	BDL
3	AMC PIRANA STP 180 MLD (ASP TYPE)	7.72	37	39	920	BDL
4	AMC VASNA OLD STP 126 MLD (UASB TYPE)	7.82	12	16	540	-
5	AMC VASNA STP 35 MLD (ASP TYPE)	7.81	07	72	350	-
6	AMC VASNA STP 240 MLD (ASP TYPE)	7.92	06	22	120	BDL
7	AMC VASNA STP 48 MLD (SBR TYPE)	7.72	3.6	31	120	BDL
8	AMC STP 60 MLD, VADAJ (SBR TYPE)	7.48	2.1	24	79	BDL
9	AMC STP 25 MLD, (SBR TYPE)	7.24	2.4	26	46	BDL

Annexure-II (B) Drains with flow details

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 Wagha Kotar, Sukhadeshwar Pumping station, Pethapur Nagarpalika, flow-55.3 MLD
- Domestic waste water discharged through natural drain nala, Village – Koteshwar, flow- 0.73 MLD
- Domestic waste water discharged through 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

Annexure-II (C) CETPs Results

- **Progress / status report for CETPs pertaining to PRS River (AUGUST-2020):**

Sr No	Parameters	pH	COD(mg/l)	BOD(mg/l)
	Discharging norms of CETPs	**6.5 – 8.5**	**250**	**30**
1.	CETP GREEN VATVA	7.94	412	21
2.	CETP NEPL	8.06	319	60
3.	CETP OEPL	8.18	439	78
4.	CETP OGEPL	Sample not collected		
5.	CETP GVMM	7.49	123	28
6.	NAROL DYE STUFF CETP	7.90	509	116
7.	Narol Textile Infrastructure & Enviro Management (Narol Textile CETP)	7.79	89	12

Annexure-II (D)

Progress /Status Report for Ground water quality monitoring pertaining to PRS River (AUGUST-2020):

Sr No	Bore wells	pH	BOD(mg/l)	COD(mg/l)	TDS(mg/l)
1.	**Gandhi Ashram**, Ahmedabad	8.10	0.86	7	268
2.	**Jain Temple**, Ahmedabad (Half yearly)	Sample is not collected due to half yearly project			
3.	**P T College**, Ahmedabad	8.11	0.88	7	240
4.	**Pirana Pumping Station**, Ahmedabad (Half Yearly)	Sample is not collected due to half yearly project			
5.	**Gyaspur Nr.MSW Site**, Ahmedabad	8.17	0.52	6	2278
6.	**Ajmeri Farm**, Ahmedabad	8.36	0.78	8	1520
7.	**Excel Industries**, Ahmedabad	8.27	0.78	8	1936
8.	**UPL Djl**, Ahmedabad	8.31	0.88	8	1926
9.	**Miroli Pumping Station**, Ahmedabad	Sample is not collected due to quarterly project			
10.	**Naklang Mahadev**, Ahmedabad	Sample is not collected due to quarterly project			
11.	**Paldi-Kankaj**, Ahmedabad	Sample is not collected due to quarterly project			
12.	**GIDC Naroda**, Ahmedabad	8.39	1.14	09	914
13.	**GIDC-Vatva**, Ahmedabad	Sample is not collected due to two monthly(2M) project			
14.	**GIDC-GVMM**, Ahmedabad	8.29	0.82	9	1046
15.	**GIDC-Odhav**, Ahmedabad	8.20	0.84	10	1086
16.	**Narol,** Ahmedabad (closed)	-	-	-	-

Annexure-III

Details w.r.to point no. 5 (viii) , (ix), (x) & (xi) given by Irrigation Dept./WRD as on date

Sr.No	River name	Details/Status
1	Sabarmati	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 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 optimally. Canal System of Fatehwadi 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. Detail on Flood Plain Management Zone: As far as Vasana Barrage is concerned 7 villages of Ahmedabad District, 8 villages of Kheda and 1 Village of Anand are identified which 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.

Annexure-IV

Details w.r.to point no. 5 (xii) given by Forest Dept. /PCCF/ACCF/Social Forestry wing/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

Annexure-V

Deep Sea Disposal Pipeline for PRS Gujarat

- 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 pipeline project.
- Industrial Associations have also deposited their first installment of 10 % of project cost towards capital cost contribution. Board has collected and transferred Rs.:- 31.71 Crores to GWIL
- 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.
- DPRs are prepared and are under vetting by Gujarat Water Infrastructure Ltd (GWIL).
- Gujarat Water Infrastructure Ltd (GWIL) has already appointed Project management Consultant for execution of the projects.

Annexure-VI

Treated Waste Water (Sewage) Policy

Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-

To reduce demand of Ground water extraction and to promote treated waste water as an Economic Resource, Gujarat Government has framed Policy for Reuse of "Treated Waste Water (TWW)" by maximizing the collection and treatment of sewage generated and reusing the treated wastewater on a sustainable basis under this policy following existing & proposed STPs of PRS action plan is covered. Also, revised action plan regarding utilization of treated wastewater is submitted by Gujarat Water Supply and Sewerage Board (GWSSB) to Chairman, CPCB by letter dated 29.11.2019 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.

a) Gujarat Government has framed Policy to utilize Treated Waste Water and as per the GOG policy "Recycle and Reuse of treated Sewage for different usages for PRS Sabarmati are as under:

Present Installed Plant Capacity (in MLD)		**Reuse recycling capacity (MLD)**	**Treated Sewage Reuse**
Vasna	240	240	Treated sewage used for irrigation to agricultural land through Fatewadi canal by Irrigation department of Govt. of Gujarat.
Vasna	35	35	
Vasna	48	48	
Jalvihar	60	60	

b) Recycle and Reuse of treated Sewage is being planned for the following:

Present Installed Plant Capacity (in MLD)		**Planned reuse recycling capacity (MLD)**	**Treated Sewage Reuse**
Old Pirana	106	100	FASA agreement is approved by Standing Committee to take up project by IFC (International Finance Corporation)
Old Pirana	60		
New Pirana	180	180	It is planned to reuse treated sewage for industrial reuse and nuisance tanker filling
Vasna	126	126	Treated sewage will be used for irrigation to agricultural land through Fatewadi canal by Irrigation department of Govt. of Gujarat,
Jalvihar	60	25	25 MLD treated sewage will be supplied to Torrent Power Limited for which pipeline is to be laid for Torrent Power Limited. Rest of the treated sewage eventually shall be supplied to Fatewadi canal for agricultural reuse through Sabarmati river

National Mission for Clean Ganga
Monthly Progress Report of PRS Vishwamitri (Gujarat State) for August -2020
(Hon'ble NGT in the matter of OA No.673/2018 dated 06/12/2019)

Sl.No.	Activity to be monitored	Timeline	Submission of Progress by States/UT-Compliance Status
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2020	Presently there is no any proposal for in-situ remediation from concerned authority
	Commencement of setting up of STPS and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2021	**STPs:-** (Source:- GUDM) 1. Kapurai (new) (60 MLD) (STP + Network):- Mar-2021 2. Sayaji garden (7.5 MLD):- Dec-2021 3. Channi (new) (50 MLD) (STP + Network)- Dec-21 4. Atladara (new) (83 MLD)- Dec-22. 5. Tarsali/GIDC (new) (100 MLD) (STP + Network):- Dec-22 (Representative of VMC in 8th RRC meeting informed that now by considering future quest up to 2035, new DPR was prepared for the 83 MLD capacity instead of 24 MLD capacity for Atladra , New STP and , and capacity of Tarsali STP is enhanced from 20 MLD to 100 MLD.) **Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-** As per the revised action plan submitted by Gujarat Water Supply and Sewerage Board (GWSSB) to Chairman, CPCB by letter dated 29.11.2019; one of the objectives of the revised action plan is to **reuse 70% of treated wastewater (Sewage) by 2025 and 100% of treated wastewater (Sewage) by 2030.**
2	Timeline for completing all steps of action plans including completion of setting up of STPs and their commissioning	31.03.2021	
3	Chief Secretaries may set up appropriate monitoring mechanism at State level • Specifying accountability of nodal authorities not below the Secretary Level	22.01.2020	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. 8th RRC meeting was held on 07/08/2020 through video conference. (However, the meetings could not be convened during the first half of the year amid corona virus pandemic)
	• Chief Secretaries may have an	22.01.2020	

	accountable person attached in their office for this purpose. • Monitoring at State level must take place	 Fortnightly commencing 21.12.2019	In compliance to the direction of Hon'ble NGT with reference to set up of Monitoring Mechanism, Deputy Environmental Engineer (Shri T.C.Patel) has been deputed vide letter No. મહેકમ / જી -40 (14) / 561788 dated 10.06.2020 at Chief Secretary office to look after the Hon'ble NGT matters All NGT matters are being reviewed regualrly under chairmanship of Hon'ble CS (Last meeting was conducted on 10/09/2020) in matter of O.A. No.:- 606/2018
4	Progress report may be furnished by the States/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB	Monthly (preferably before 20th of every month)	Noted & Complied
5	Progress Report may be comprised of details along with completion timelines on: (i) 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 which is already approved by CPCB w.r.t Priority I and II In-situ treatment:- Pl. refer point no:-1

<table>
<tr>
<td></td>
<td>(ii) <u>Status of STPs, I&D and sewerage networks</u>
Details of existing infrastructure, gap analysis, proposed along with completion timeline</td>
<td></td>
<td>
Existing infrastructure: 354.5 MLD
Gap analysis: 114 MLD
Proposed : 161.5 MLD
Completion Timeline: Dec-22 as mentioned below:
<table>
<tr><th>STP</th><th>Present Status</th><th>TimeLine</th></tr>
<tr><td>Kapurai (new) (60 MLD) (STP + Network)</td><td>64% work of STP is completed</td><td>Mar-2021</td></tr>
<tr><td>Sayaji garden (7.5 MLD)</td><td>24% work is completed</td><td>Dec-2021</td></tr>
<tr><td>Channi (new) (50 MLD) (STP + Network)</td><td>8% work of STP is completed</td><td>Dec-2021</td></tr>
<tr><td>Atladara (new) (83 MLD)*</td><td>DPR Prepared & under approval</td><td>Dec-2022</td></tr>
<tr><td>Tarsali/GIDC (new) (100 MLD) (STP + Network)</td><td>DPR prepared & under Scrutiny</td><td>Dec-2022</td></tr>
</table>
*(Representative of VMC in 8th RRC meeting informed that now by considering future quest up to 2035, new DPR was prepared for the 83 MLD capacity instead of 24 MLD capacity)

<u>Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-</u>
Reuse of treated sewage:
The information given by concerned dept., regarding reuse of treated sewage is attached herewith as Annexure-VI
</td>
</tr>
<tr>
<td></td>
<td>(iii) <u>Status of CETPs</u>
Details of existing CETP and ETP infrastructure, gap analysis, proposed along with completion timeline, no. of industries and complying status</td>
<td></td>
<td>There is industrial effluent O/L discharge into river Vishwamitri.</td>
</tr>
</table>

	(iv) <u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of existing infrastructure, gap analysis, proposed along with completion timeline		5 (iv) Status is attached as **Annexure – I**
	(v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river		5 (v) Status is attached as **Annexure – II**
	(vi) Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams etc.		**Bio-Medical Waste: -** There are total 2318 # of HCUs (Health Care Units) located in the Ankleshwar taluka, treatment & disposal of the Bio Medical Waste, generated from the health care units, is being taken care of by a Common Bio-medical Waste Treatment Facility M/s, Quantum Environment Engineers having capacity of 8 MT/Day.. **Industrial Waste: -** All consented Hazardous waste generating industrial units in the State are having authorization under Haz. Waste Management Rules, amended from time to time & they are disposing their waste to TSDF/CHWIF/registered recycler under Rule-9/Co-processing and as per consented conditions**.**
	(vii) Ground water regulation		During the meeting held on 04/02/2020, with PRS Assessment Team nominated by Ministry of Jal Shakti, GWRDC has given details about the recently framed draft bill titled "Conservation, Protection, Regulation and Management of Ground Water in Gujarat State" which is in process and within 3 months to be submitted to the Assembly. **<u>Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-</u>** To reduce demand of Ground water extraction and to promote treated waste water as an Economic Resource, Gujarat Government has framed a Policy for Reuse of "Treated Waste Water (TWW)" by maximizing the collection

			and treatment of sewage generated and reusing the treated wastewater on a sustainable basis. Also, revised action plan regarding utilization of treated wastewater is submitted by Gujarat Water Supply and Sewerage Board (GWSSB) to Chairman, CPCB by letter dated 29.11.2019 where one of the objectives of the revised action plan is to **reuse 70% of treated wastewater (Sewage) by 2025 and 100% of treated wastewater (Sewage) by 2030.** Pl refer **Annexure:- VI**
	(viii) Adopting good irrigation practices		Details w.r.t point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept./ Water Resource Dept., NWR WS & KD as on date is attached as **Annexure – III**
	(ix) Protection and management of Flood Plain Zones (FPZ)		
	(x) Rain water harvesting		
	(xi) Maintaining minimum environmental flow of river		
	(xii) Plantation on both sides of the river		Details w.r.t point no. 5 (xii) given by Forest Dept. /PCCF/ACCF/ Social Forestry wing/Concerned as on date is attached as **Annexure – IV**
	(xiii) Setting up biodiversity parks on flood plains by removing encroachment		Attached as **Annexure – V**. 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 in 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.

Annexure- I

5 (iv) Status of Solid Waste Management & Details of Processing Facilities:

Types of Waste/ Characteristic of waste	Generated Quantity MT/day	Collection/ Storage facility with capacity	Disposal/Treatment facility with capacity along with location	Total Gap with generation & existing treatment facilities if any	Proposed action plan /facility to cover gap	Time limit
MSW						
Total	1050	100 % Door to Door Collection	As mentioned below	0	NA	NA
• 1050 TPD Waste to Energy Preprocessing plant at R.S.No.346, Makarpura, • Secured Scientific landfill Phase – 1, Capacity 4 lac MT, operational since June 2010 at R. S. 346, Makarpura. • 15 TPD Biomethanation Plant Voragmadi, • 5 TPD Biomethanation plant Gajarwadi, • 100 KG OWC at Ratri Bajar & Sayajibag, (OWC : Organic Waste Converter) • 500 KG OWC at Khanderav Market, Akota Atithigruh, Indrapuri Atithi gruh, Nizammpura Atithigruh & 22 Nos. of 100 ltr. Capacity mulching drum at Bulk waste generator & RWA (Residential Welfare Association) • MRF Facility : Atladara : 50 TPD, Near VUDA Office : 20 TPD, Gadheda Market : 10 TPD (MRF : Material Recovery Facility)						
(Source : VMC)						

EXISTING TREATMENT FACILITIES

S.No	Type of Project	Funded through SBM (U)	Waste Input Capacity (TPD)	Actual Waste processed (TPD)	Production Capacity (TPD/MW/M³)	Actual Production (TPD/MW/M³)	Remarks
1	Biomethanation-For Hotel Kitchen Waste Voragamadi	NO-PPP	15	15	Compost- 1.5 TPD Biogas- 1000 m3	Compost- 1.5 TPD Biogas- 1000 m3	Operational
2.	Biomethanation-For Carcass+ Organic Waste Gajarawadi	NO-BOOT	5	5	Biogas-300m3	Biogas-300m3	Operational
3.	Waste to Compost (Organic waste Converter Machine)	No-CSR	2.2	2.2	Compost-0.275 TPD	Compost-0.275 TPD	Operational
4	Dumpsite Bio-Remediation (Legacy Waste at Atladara)	SBM Capping & social Upliftment component	1000 TPD-Total 3.0 Lakh MT	Avg.1000	Compost- 600 TPD RDF-200 TPD	Compost- 600 TPD RDF-200 TPD	Operational from 16/7/2018,Total 3.00 lakh MT, legacy waste remediated and 17 acres of land was reclaimed
5	Waste to Energy as per SWM Rules 2016 and Gujarat W2E Policy-2016	PPP	1000	700	Compost- 100 TPD RDF-200 TPD	Compost- 100 TPD RDF-200 TPD	Pre Processing Operational from 2/11/2018
6	Plastic Waste Recycling	NO	50 TPD	50 TPD	50 TPD	Loi issued to M/s Eco vision pvt. Ltd., surat	Plastic Wast Collection & recycling strated from 5th june,2019 till date 59.83 MT Plastic recycled
7	Construction and Demolition Waste Processing	NO	50TPD	50 TPD	50 TPD	VMC published Notification for Construction & Demolition waste as per the Construction & Demolition waste Management Rules-2016. The sites : (1) R.S. No.346, Makarpura, (2)R.S. No.-585,586, Atladra	
8	Material Recovery Facility	NO	55 TPD	55 TPD	55 TPD	The Sites for MRF : (1) ATLADRA-30 TPD, (2)VUDA-15 TPD, (3) GHADHEDA MARKET-10 TPD	

Annexure-II

Progress/Status Report of the River/PRS water quality Monitoring:

Sample ID and Date	Sampling Point	pH	COD (mg/l)	BOD (mg/l)	DO (mg/l)	Fecal coliform (MPN/100 ml)	Total coliform (MPN/ 100ml)
286122-07/08/2020	RIVER VISHWAMITRI AT ASOD	8.08	3.0	1.3	4.8	6.8	25
	RIVER VISHWAMITRI AT KHALIPUR	7.68	52	11.66	1.0	31	110

Note:- Priority:- III as per July -2020 MPR & Priority III as per August2020 MPR

Annexure:- II (A) 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**				
August 2020 (20/08/2020)	7.82	7.0	3.85	43	4
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**				
August 2020 (20/08/2020)	7.59	51	5.64	>1600	540
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**				
August 2020 (20/08/2020) ***	--	--	--	--	--
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**				
August 2020 (20/08/2020)***	--	--	--	---	--

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**				
August 2020 (20/08/2020)	7.47	94	17	>1600	>1600
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**				
August 2020 (20/08/2020)	8.29	98	15	>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**				
August 2020 (20/08/2020)	8.05	7	3.75	46	6
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**				
August 2020 (20/08/2020)	7.87	8.0	3.8	63	6

***standards as per last CCA , applied for renewal**

**** standard as per last CCA**

*****STP visited on 20/08/2020. Sayajigarden STP is under modification No sewage discharge during visit. Tarsali STP is not approachable due to flooding.**

Annexure-II (B)

Drain 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.	Sayaji Soc.Drain	1.944
5	Bahucharaji Kirti Tower	Various Tributaries at different Locations	11.127
6	Bhimnath Bridge	Parshuram Bhatta	1.35
7	B/H Jail Court	Jail & Court Compund Drain	0.305
8	Nr. Akota Dandia Barzar Bridge	-	0.00
9	Nr. Urmi School	Overflow of Sama Lake	2.333
10	Bharwadwas Sama	GIPCL Circle Drain	3.840
11	Nr. Narhari Bridge	-	2.092
12	Planatorium	Various Tributaries at different Locations in Bhukhi Kaans	14.959
13	Nr.Darshanam (Parshuram nagar Soc.)	Parshuram Bhatta	2.218
14	Nr. Akota Dandia Barzar 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**

Annexure-II (C) CETPs Results

Not Applicable

Annexure-II (D)

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

Sample ID and Date	Sampling Point	pH	COD	BOD	TDS
286095-07/08/2020	**WATER PROJECT RAP BOREWELL AT HANUMAN TEMPLE ATLADRA**	**8.01**	**10**	**06**	**1361**
286873-21/08/2020	**WATER PROJECT RAP BOREWELL AT KAMATIBAUG**	**8.51**	**7**	**05**	**148**

Annexure – III

Details w.r.t point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept./WRD as on date

Sr.No	River name	Details/Status
1	Vishwamitri	Environmental flow: NA 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. Detail on Flood Plain Management Zone: As far as Vishwamaitry flood protection work is concerned, about 10 different wireless stations are located during the rainy season for flood 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 consultation with local administration.

Annexure – IV

Details w.r.t point no. 5 (xii) given by Forest Dept. /PCCF/ACCF/Social Forestry Wing/Concerned as on date

Stretch/river	Existing plantation/ vegetation cover details	Proposed plan	Time limit	Remarks
Vadodara city limit Vishwamitri river	80%	20%	Year 2022	Target submitted by APCCF for all the Rivers of Gujarat is as per attached details **in Annexure-A**
Remarks : Sayajibaug, M.S.U. Campus and Rajmahal (Palace) has a dense green cover along the bank of river vishwamitri. Largely the entire stretch of vishwamitri River is covered with natural vegetation. There is a rich biodivertsity along the river which includes wide variety of flora and fauna.				

Stretch/river	Existing plantation/vegetation cover details	Proposed plan to cover remaining gap along river /river stretch	Time limit	Remarks
Vishwamitri	Existing sparse vegetation covered by Propopis juliflora & Caparis aphylla and other shrubs.	0.15 lacs Plantation to be done in 2020-2021	2020-2021	As per AAP (Annexure A) for both side plantation on PRS during 2020-21
Source:- Social Forestry wing., Aranya Bhavan, Gandhinagar				

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

Annexure – V

Biodiversity Park

District/Area Name	Existing Biodiversity park Name	Total area of Biodiversity park	Proposed Biodiversity park	Time Limit	Remarks
Vadodara city	Sayajibaug	100 Acre	Near Govindnagar	3 Years	
Vadodara city	Vadsar	7.4 Acre	-----	----	
Source : Parks & Garden Department – VMC					
	Nil				
Source:- Social Forestry wing., Aranya Bhavan, Gandhinagar					

Annexure – VI

Reuse of Treated Waste water (Sewage) policy

SUPPLYING OF REUSE TO VARIOUS INDUSTRIES

Sr. no	Name of Industry	Quantity of TWW	Name of STP to be Supplied From	Proposed Completion Date	Remarks
1	IOCL	40 MLD	Rajivngar STP	May-2022	
2	RIL	20 MLD	Rajivnagar STP	May-2022	Not Confirmed Yet From RIL
3	GSFC	32 MLD	Chhani STP	-	Will be finalized after SPV Formation
4	GIPCL	5 MLD	Chhani STP	-	
5	GACL	5 MLD	Chhani STP	-	

- As on April month average consumption of Treated waste water is 4.45 MLD in Irrigation, cleaning & Jetting purpose by VMC.

National Mission for Clean Ganga

Monthly Progress Report of PRS Dhadhar (Gujarat State) for August - 20

(Hon'ble NGT in the matter of OA No.673/2018 dated 06/12/2019)

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by States/UT- Compliance Status
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2020	Presently there is no any proposal for in-situ remediation from concerned authority
	Commencement of setting up of STPS and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2021	River Vishwamitri ultimately meets with River Dhadhar in upstream of Village: Kothwada. **STPs:-** (Source:- GUDM)
2	Timeline for completing all steps of action plans including completion of setting up of STPs and their commissioning	31.03.2021	1. Kapurai (new) (60 MLD) (STP + Network):- Mar-2021 2. Sayaji garden (7.5 MLD):- Dec-2021 3. Channi (new) (50 MLD) (STP + Network)- Dec-21 4. Atladara (new) (83 MLD)- Dec-22. 5. Tarsali/GIDC (new) (100 MLD) (STP + Network):- Dec-22 (Representative of VMC in 8th RRC meeting informed that now by considering future quest up to 2035, new DPR was prepared for the 83 MLD capacity instead of 24 MLD capacity for Atladra , New STP and , and capacity of Tarsali STP is enhanced from 20 MLD to 100 MLD.) 6. STP of 5.2 MLD (Karjan)– Dec-2021 7. PRH & RDD was informed to submit the action plan for the sewage generated from the village Por for 0.36 MLD discharge **Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-** As per the revised action plan submitted by Gujarat Water Supply and Sewerage Board (GWSSB) to Chairman, CPCB by letter dated 29.11.2019; one of the objectives of the revised action plan is to **reuse 70% of treated wastewater (Sewage) by 2025 and 100% of treated wastewater (Sewage) by 2030.**
3	Chief Secretaries may set up appropriate monitoring mechanism at State level • Specifying accountability of nodal authorities not below the Secretary Level	22.01.2020	RRC meeting is generally held periodically at GPCB, Gandhinagar to review the progress and the minutes of the meeting, having progress status, is regularly submitted to CPCB. Last RRC (8th RRC) meeting was conducted on 07/08/2020.
	• Chief Secretaries may have an	22.01.2020	In compliance to the direction with reference to

<table>
<tr><td></td><td>accountable person attached in their office for this purpose.

• Monitoring at State level must take place</td><td>

Fortnightly commencing 21.12.2019</td><td>set up Monitoring Mechanism, Deputy Environmental Engineer (Shri T.C.Patel) has been deputed vide letter No. મહેકમ / જી -40 (14) / 561788 dated 10.06.2020 at Chief Secretary office to look after the Hon'ble NGT matters

Reviews of all NGT matters are taken frequently under chairmanship of Hon'ble CS (Last meeting was conducted on 03/07/2020) in matter of O.A. No.:- 606/2018</td></tr>
<tr><td>4</td><td>Progress report may be furnished by the States/UTs to
• Secretary, Ministry of Jal Shakti
• Member Secretary, CPCB</td><td>Monthly (preferably before 20th of every month)</td><td>Noted & to be Complied</td></tr>
<tr><td>5</td><td>Progress Report may be comprised of details along with completion timelines on:
(i) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment</td><td></td><td>Identification of polluting sources including drains contributing to river pollution is already completed and submitted in the PRS action plan.
In-situ treatment:- Pl. refer point no:-1</td></tr>
<tr><td></td><td>(ii) <u>Status of STPs, I&D and sewerage networks</u>
Details of existing infrastructure, gap analysis, proposed along with completion timeline</td><td></td><td>Existing infrastructure: 354.5 MLD
Gap analysis: 115.66 MLD
Proposed : 166.7 MLD
Completion Timeline: Dec-21 as mentioned below
Proposed Plan with Present Status(Source:- GUDM):-
<table>
<tr><th>STP</th><th>Present Status</th><th>TimeLine</th></tr>
<tr><td>Kapurai (new) (60 MLD) (STP + Network)</td><td>64% work of STP is completed</td><td>Mar-2021</td></tr>
<tr><td>Sayaji garden (7.5 MLD)</td><td>24% work is completed</td><td>Dec-2021</td></tr>
<tr><td>Channi (new) (50 MLD) (STP + Network)</td><td>8% work of STP is completed</td><td>Dec-2021</td></tr>
<tr><td>Atladara (new) (83 MLD)*</td><td>DPR Prepared & under approval</td><td>Dec-2022</td></tr>
<tr><td>Tarsali/GIDC (new) (100 MLD) (STP + Network)</td><td>DPR prepared & under Scrutiny</td><td>Dec-2022</td></tr>
</table></td></tr>
</table>

			Karjan nagarpalika (5.2 MLD)	Land is available. Tender has been recently awarded. LOI letter issued dt.10/06/2020. Survey Work and SBC work completed. Design & Drawing under approval	Dec-2021
			Total 166.7 MLD	--	--
			*(Representative of VMC in 8th RRC meeting informed that now by considering future quest up to 2035, new DPR was prepared for the 83 MLD capacity instead of 24 MLD capacity for Atladra , New STP and , and capacity of Tarsali STP is enhanced from 20 MLD to 100 MLD.) **<u>Utilization of treated wastewater (Sewage)</u>** **<u>Policy for the Gujarat State:-</u>** **Reuse of treated sewage:** The information given by concerned dept., regarding reuse of treated sewage is attached herewith as **Annexure-IV**		
	(iii)	<u>Status of CETPs</u> Details of existing CETP and ETP infrastructure, gap analysis, proposed along with completion timeline, no. of industries and complying status		There is no any industrial effluent discharge / outlet into Dhadhar river stretch.	
	(iv)	<u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of existing infrastructure, gap analysis, proposed along with completion timeline		Not Applicable as the stretch is not meandering through any City / Towns	
	(v)	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river		5 (v) Status is attached as **Annexure – I**	

	(vi)	Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams etc.		**Bio-Medical Waste: -** There are total 57 # of HCUs (Health Care Units) located in the Ankleshwar taluka, treatment & disposal of the Bio Medical Waste, generated from the health care units, is being taken care of by a Common Bio-medical Waste Treatment Facility M/s, Samvedna Biomedical waste Incineration. **Industrial Waste: -** All consented Hazardous waste generating industrial units in the State are having authorization under Haz. Waste Management Rules, amended from time to time & they are disposing their waste to TSDF/CHWIF/registered recycler under Rule-9/Co-processing and as per consented conditions**.**
	(vii)	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" in the meeting held on 04/02/2020 at GPCB with PRS Assessment Team nominated by Ministry of Jal Shakti which is in process and to be submitted to the Assembly **<u>Utilization of treated wastewater (Sewage)</u>** **<u>Policy for the Gujarat State:-</u>** To reduce demand of Ground water extraction and to promote treated waste water as an Economic Resource, Gujarat Government has framed Policy for Reuse of "Treated Waste Water (TWW)" by maximizing the collection and treatment of sewage generated and reusing the treated wastewater on a sustainable basis. Also, revised action plan regarding utilization of treated wastewater is submitted by Gujarat Water Supply and Sewerage Board (GWSSB) to Chairman, CPCB by letter dated 29.11.2019 where one of the objectives of the revised action plan is to **reuse 70% of treated wastewater (Sewage) by 2025 and 100% of treated wastewater (Sewage) by 2030.** Pl refer **Annexure:- IV**
	(viii)	Adopting good irrigation practices		Details w.r.t point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept./ Water Resource Dept., NWR WS

	(ix) Protection and management of Flood Plain Zones (FPZ)		& KD as on date is attached as **Annexure – II**
	(x) Rain water harvesting		
	(xi) Maintaining minimum environmental flow of river		
	(xii) Plantation on both sides of the river		Details w.r.t point no. 5 (xii) given by Forest Dept. /PCCF/ACCF/ **Social Forestry wing**/Concerned as on date is attached as **Annexure – III**
	(xiii) Setting up biodiversity parks on flood plains by removing encroachment		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.

Annexure-I

Progress/Status Report of the River/PRS water quality Monitoring:

Sample ID and Date	Sampling Point	pH	COD (mg/l)	BOD (mg/l)	DO (mg/l)	FC (MPN/100ml)	TC (MPN/100ml)
285976-06/08/2020	Water Project Rap River Dhadhar At Kothwada	7.53	31	7	BDL	25	170
285978-06/08/2020	Water Project Rap River Dhadhar At Village Pingalwada	7.78	18	1.4	6.1	33	170

Note:- Priority:- III as per July -2020 MPR & Priority IV as per August 2020 MPR

Annexure:- II (A) 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**				
August 2020 (20/08/2020)	7.82	7.0	3.85	43	4
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**				
August 2020 (20/08/2020)	7.59	51	5.64	>1600	540
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**				
August 2020 (20/08/2020) ***	--	--	--	--	--
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**				
August 2020 (20/08/2020)***	--	--	--	---	--
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**				
August 2020 (20/08/2020)	7.47	94	17	>1600	>1600
STP at Chhani – Capacity : 21 MLD					
Parameters	**pH**	**COD**	**BOD**	**TC**	**FC**

		mg/L	mg/L	(MPN/100 ml)	(MPN/100 ml)
Standard	**6.5-9.0**	**---**	**<30**	**---**	**<1000**
Month	**Results**				
August 2020 (20/08/2020)	8.29	98	15	>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**				
August 2020 (20/08/2020)	8.05	7	3.75	46	6
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**				
August 2020 (20/08/2020)	7.87	8.0	3.8	63	6

***standards as per last CCA , applied for renewal**

**** standard as per last CCA**

*****STP visited on 20/08/2020. Sayajigarden STP is under modification No sewage discharge during visit. Kapurai STP is not approachable due to flooding.**

Annexure-I (B)

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

Annexure-I (C) CETPs Details

Not Applicable

Annexure-I (D)

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
286114-07/08/2020	Water Project Rap Borewell At Por Gidc Office	7.75	8	0.7	1124

Annexure – II

Details w.r.t point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept./WRD as on date

Sr.No	River name	Details/Status
1	Dhadhar	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. Detail of Good Irrigation Practices: General Government Practice of irrigation is maintained in command area of Deo irrigation project and jojwa-wadhwana irrigation project. Farmer are frequently made aware to use water optimally. 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.

Annexure – III

Details w.r.t point no. 5 (xii) given by Forest Dept. /PCCF/ACCF/Social Forestry Wing/Concerned as on date

Stretch/river	Existing plantation/vegetation cover details	Proposed plan to cover remaining gap along river /river stretch	Time limit	Remarks
Dhadhar	Existing vegetation covered by Propopis juliflora & Caparis aphylla and other shrubs.	1.10 lacs Plantation to be done in 2020-2021	2020-2021	1.02 lacs plantation done in 2019-20. 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

Annexure – IV

Reuse of Treated Waste water (Sewage) Policy

SUPPLYING OF REUSE TO VARIOUS INDUSTRIES

Sr. no	Name of Industry	Quantity of TWW	Name of STP to be Supplied From	Proposed Completion Date	Remarks
1	IOCL	40 MLD	Rajivngar STP	May-2022	
2	RIL	20 MLD	Rajivnagar STP	May-2022	Not Confirmed Yet From RIL
3	GSFC	32 MLD	Chhani STP	-	Will be finalized after SPV Formation
4	GIPCL	5 MLD	Chhani STP	-	
5	GACL	5 MLD	Chhani STP	-	

- As on April month average consumption of Treated waste water is 4.45 MLD in Irrigation, cleaning & Jetting purpose by VMC.

National Mission for Clean Ganga

Monthly Progress Report of PRS Triveni (Gujarat State) for August -2020

(Hon'ble NGT in the matter of OA No.673/2018 dated 06/12/2019)

Sl.No.	Activity to be monitored	Timeline	Submission of Progress by States/UT- Compliance Status
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2020	There is no domestic wastewater discharge in to this stretch
	Commencement of setting up of STPS and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2020	
2	Timeline for completing all steps of action plans including completion of setting up of STPs and their commissioning	31.03.2021	
3	Chief Secretaries may set up appropriate monitoring mechanism at State level • Specifying accountability of nodal authorities not below the Secretary Level • Chief Secretaries may have an accountable person attached in their office for this purpose. • Monitoring at State level must take place	22.01.2020 22.01.2020 Fortnightly commencing 21.12.2019	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. 8th RRC meeting was held on 07/08/2020 through video conference. (However, the meetings could not be convened during the first half of the year amid corona virus pandemic) In compliance to the direction of Hon'ble NGT with reference to set up of Monitoring Mechanism, Deputy Environmental Engineer (Shri T.C.Patel) has been deputed vide letter No. મહેકમ / જી -40 (14) / 561788 dated 10.06.2020 at Chief Secretary office to look after the Hon'ble NGT matters All NGT matters are being reviewed regualrly under chairmanship of Hon'ble CS (Last meeting was conducted on 03/07/2020) in matter of O.A. No.:- 606/2018
4	Progress report may be furnished by the States/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB	Monthly (preferably before 20th of every month)	Noted & Complied

5	Progress Report may be comprised of details along with completion timelines on: (i) 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. In-situ treatment:- Pl. refer point no:-1
	(ii) <u>Status of STPs, I&D and sewerage networks</u> Details of existing infrastructure, gap analysis, proposed along with completion timeline		There is no discharge of domestic wastewater into this River stretch
	(iii) <u>Status of CETPs</u> Details of existing CETP and ETP infrastructure, gap analysis, proposed along with completion timeline, no. of industries and complying status		There is no Industrial effluent discharge in to Triveni river stretch.
	(iv) <u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of existing infrastructure, gap analysis, proposed along with completion timeline		There is no solid waste disposal in Triveni stretch area.
	(v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river		5 (v) Status is attached as **Annexure – I**
	(vi) Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams etc.		**Bio-Medical Waste:-** In Veraval city area, there are 74 nos. of Health Care Units are running. Generated BMW is collected and disposed through common biomedical waste treatment facility M/s Girnar Biomedical Waste Management Facility, GIDC- II, Junagadh. **Industrial Waste:-** In the State, all consented Hazardous waste generating industrial unit are having authorization under Haz. Waste Management Rules, amended time to

			time & they are disposing their waste to TSDF/CHWIF/registered recycler under Rule-9/Co-processing and as per consented conditions.
	(vii) 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" in the meeting held on 04/02/2020 at GPCB with PRS Assessment Team nominated by Ministry of Jal Shakti which is in process to be submitted to the Assembly.
	(viii) Adopting good irrigation practices		Details w.r.t point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept. as on date is attached as **Annexure – II.**
	(ix) Protection and management of Flood Plain Zones (FPZ)		
	(x) Rain water harvesting		
	(xi) Maintaining minimum environmental flow of river		
	(xii) Plantation on both sides of the river		Details w.r.t point no. 5 (xii) given by Forest Dept. /PCCF/ACCF/Concerned as on date is attached as **Annexure – III**
	(xiii) Setting up biodiversity parks on flood plains by removing encroachment		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.

Annexure-I

5 (v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river

Progress/Status Report of the River/PRS water quality Monitoring (August -2020):

Name of Location	Parameter					
	DO (mg/l)	pH	BOD (mg/l)	COD (mg/l)	Total coliform (MPN/ 100ml)	Fecal coliform (MPN/100 ml)
Triveni Sangam	6.9	8.49	2.3	09	<1.8	<1.8

Note:- Does not fall in any Priority as per June-2020 MPR & July-2020 MPR

Annexure-II

Details w.r.t point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept. as on date

Sr.No	River name	Details/Status
1	Triveni	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. 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. 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.

Annexure-III

Details w.r.t point no. 5 (xii) given by Forest Dept. /PCCF/APCCF/Concerned as on date

Stretch/river	Existing plantation/vegetation cover details	Proposed plan	Time limit	Remarks
Triveni	About 11000 trees	0.10 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

National Mission for Clean Ganga

Monthly Progress Report of PRS Amravati (Gujarat State) for Aug-20

(Hon'ble NGT in the matter of OA No.673/2018 dated 06/12/2019)

Sl.No.	Activity to be monitored	Timeline	Submission of Progress by States/UT-Compliance Status
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2020	No action plan submitted by PRH & RDD. However, as per the suggestion given by Assessment team during meeting held on 04/02/2020, NEERI, UP Govt., Punjab Gov. etc may be approached by UDD/GUDM/PRH & RDD /Concerned for technical support
	Commencement of setting up of STPS and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2020	PRH & RDD was informed to submit the action plan for the sewage generated from the villages Limbet, Hirapor, Sangpur, Pardi, Piprod, and Dadhal for 1.36 MLD discharge **Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-** As per the revised action plan submitted by Gujarat Water Supply and Sewerage Board (GWSSB) to Chairman, CPCB by letter dated 29.11.2019; one of the objectives of the revised action plan is to **reuse 70% of treated wastewater (Sewage) by 2025 and 100% of treated wastewater (Sewage) by 2030.**
2	Timeline for completing all steps of action plans including completion of setting up of STPs and their commissioning	31.03.2021	
3	Chief Secretaries may set up appropriate monitoring mechanism at State level • Specifying accountability of nodal authorities not below the Secretary Level • Chief Secretaries may have an accountable person attached in their office for this purpose. • Monitoring at State level must take place	22.01.2020 22.01.2020 Fortnightly commencing 21.12.2019	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. 8th RRC meeting was held on 07/08/2020 through video conference. (However, the meetings could not be convened during the first half of the year amid coronavirus pandemic) In compliance to the direction of Hon'ble NGT with reference to set up of Monitoring Mechanism, Deputy Environmental Engineer (Shri T.C.Patel) has been deputed vide letter No. મહેકમ / ૪ -40 (14) / 561788 dated 10.06.2020 at Chief Secretary office to look after the Hon'ble NGT matters All NGT matters are being reviewed regualrly under chairmanship of Hon'ble CS (Last meeting was conducted on 10/09/2020) in matter of O.A. No.:-

			606/2018
4	Progress report may be furnished by the States/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB	Monthly (preferably before 20th of every month)	Noted & Complied
5	Progress Report may be comprised of details along with completion timelines on: (i) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment		Identification of polluting sources including drains contributing to river pollution is already completed and submitted in the PRS action plan. In-situ treatment: - Pl. refer point no: -1
	(ii) <u>Status of STPs, I&D and sewerage networks</u> Details of existing infrastructure, gap analysis, proposed along with completion timeline		**Existing infrastructure:** -- **Gap analysis:** 1.36 MLD (from the Villages) **Proposed:** -- **Completion Timeline:** -- PRH & RDD was informed to submit the action plan for the sewage – 1.36 MLD generated from the villages Limbet, Hirapor, Sangpur, Pardi, Piprod, and Dadhal.
	(iii) <u>Status of CETPs</u> Details of existing CETP and ETP infrastructure, gap analysis, proposed along with completion timeline, no. of industries and complying status		There is no any industry in the vicinity of river Amravati and there is no discharge of industrial effluent in to river Amravati.
	(iv) <u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of existing infrastructure, gap analysis, proposed along with completion timeline		Data not available Letter issued to concern authorities
	(v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river		5 (v) Status is attached as **Annexure – I**
	(vi) Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams etc.		**Bio-Medical Waste: -** There are total 321 # of HCUs (Health Care Units) located in the Ankleshwar taluka, treatment & disposal of the Bio Medical Waste, generated from the health care units, is being taken care of by a Common Bio-medical Waste Treatment Facility M/s, Globe Bio Care located in GIDC Ankleshwar. **Industrial Waste: -** All consented Hazardous waste generating industrial units in the State are having

			authorization under Haz. Waste Management Rules, amended from time to time & they are disposing their waste to TSDF/CHWIF/registered recycler under Rule-9/Co-processing and as per consented conditions
	(vii) Ground water regulation		During the meeting held on 04/02/2020, with PRS Assessment Team nominated by Ministry of Jal Shakti, GWRDC has given details about the recently framed draft bill titled "Conservation, Protection, Regulation and Management of Ground Water in Gujarat State" which is in process and within 3 months to be submitted to the Assembly. **<u>Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-</u>** To reduce demand of Ground water extraction and to promote treated waste water as an Economic Resource, Gujarat Government has framed a Policy for Reuse of "Treated Waste Water (TWW)" by maximizing the collection and treatment of sewage generated and reusing the treated wastewater on a sustainable basis. Also, revised action plan regarding utilization of treated wastewater is submitted by Gujarat Water Supply and Sewerage Board (GWSSB) to Chairman, CPCB by letter dated 29.11.2019 where one of the objectives of the revised action plan is to **reuse 70% of treated wastewater (Sewage) by 2025 and 100% of treated wastewater (Sewage) by 2030.**
	(viii) Adopting good irrigation practices		Details w.r.to point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept./ Water Resource Dept., NWR WS & KD as on date is attached as **Annexure – II**
	(ix) Protection and management of Flood Plain Zones (FPZ)		
	(x) Rain water harvesting		
	(xi) Maintaining minimum environmental flow of river		
	(xii) Plantation on both sides of the river		Details w.r.t point no. 5 (xii) given by Forest Dept. /PCCF/ACCF/ Social Forestry wing/ Concerned as on date is attached as **Annexure – III**
	(xiii) Setting up biodiversity parks on flood plains by removing encroachment		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 in 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.

Annexure –I

Progress/Status Report of the River/PRS water quality Monitoring (Aug-2020): -

Month	Location ID	Name of Location	Parameter					
			DO (mg/l)	pH	BOD (mg/l)	COD (mg/l)	Total coliform (MPN/ 100ml)	Fecal coliform (MPN/100 ml)
Aug-20	43527	At village Dadhal	6.46	8.29	1.35	10	130	48

Progress /Status Report for Ground water quality monitoring pertaining to PRS River (Aug-2020): -

Month	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
Aug-20	50637	Jitali Water works	7.59	0.42	5	In process	In process	BDL	In process	In process	---	In process	In process

Heavy Metal Analysis is still under process

Drain 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	HiraporGram Panchayat- 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

Annexure-II

Details w.r.t point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept. as on date

Sr.No	River name	Details/Status
1	Amravati	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

Annexure-III

Details w.r.t point no. 5 (xii) given by Forest Dept. /PCCF/ACCF/Concerned as on date

The details received vide letter dated 02.03.2020 from Social Forestry wing, Aranya Bhavan, Gandhinagar are as under

Stretch/river	**Existing plantation/vegetation cover details**	**Proposed plan to cover remaining gap along river /river stretch**	**Time limit**	**Remarks**
Amravati (Dadhal to Ankleshwar) 8.00 Km	1200 trees	0.10 lakh plants	2020-21	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

National Mission for Clean Ganga

Monthly Progress Report of PRS Damanganga (Gujarat State) for August - 2020

(Hon'ble NGT in the matter of OA No.673/2018 dated 06/12/2019)

Sr. No.	Activity to be monitored	Timeline	Submission of Progress by States/UT- Compliance Status
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2020	As informed by UDD, ULBs were instructed to start In-situ Bioremediation of sewage as per the Hon'ble NGT order Dated. 06.12.2019. As per data received, 7 Municipalities including Vapi (Damanganga), out of 10 municipalities related to PRS required to In-Situ Bioremediation. Consultants were appointed to suggest better technology for In-Situ Bioremediation of sewage. In- Situ remediation will be commenced within two months after finalization of the technology to be adopted.
	Commencement of setting up of STPS and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2020	**STPs: -** Vapi Namdha (14 MLD) – Work in Progress ,March - 2021 Vapi Chandor (29.53 MLD) - Revised DPR under preparation – Sept 2022 Vapi Notified Area Authority 10 MLD* (5+5) – March -2022. ***Proposed Capacity enhanced from 05 to 10 MLD (8th RRC) by considering future demand** **Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-** As per the revised action plan submitted by Gujarat Water Supply and Sewerage Board (GWSSB) to Chairman, CPCB by letter dated 29.11.2019; one of the objectives of the revised action plan is to **reuse 70% of treated wastewater (Sewage) by 2025 and 100% of treated wastewater (Sewage) by 2030.** **CETPs: -** **CETP Vapi (VGEL)** - Expansion 55 to 70 MLD. Dec-2019 (Timeline is already due, EC awaited. EC is pending as additional information asked by authority is not submitted by VGEL. Hence RRC instructed VGEL to make a necessary compliance and submission as asked by the authority at the earliest & to submit the latest time line of project completion. However, CETP is almost meeting with the norms

2	Timeline for completing all steps of action plans including completion of setting up of STPs and their commissioning	31.03.2021	**STPs: -** Vapi Namdha (14 MLD) – March –2021 Vapi Chandor (29.53 MLD) - Tender work in progress - Sept 2022. Vapi Notified Area Authority 10 (5+5) MLD* – March -2022. ***Proposed Capacity enhanced from 05 to 10 MLD (8th RRC) by considering future demand** **CETPs: -** **CETP Vapi (VGEL)** - Expansion 55 to 70 MLD. Dec-2019 (Timeline is already due, EC awaited. EC is pending as additional information asked by authority is not submitted by VGEL. Hence RRC instructed VGEL to make a necessary compliance and submission as asked by the authority at the earliest & to submit the latest time line of project completion. However, CETP is almost meeting with the norms
3	Chief Secretaries may set up appropriate monitoring mechanism at State level • Specifying accountability of nodal authorities not below the Secretary Level • Chief Secretaries may have an accountable person attached in their office for this purpose. • Monitoring at State level must take place	22.01.2020 22.01.2020 Fortnightly commencing 21.12.2019	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. 8th RRC meeting was held on 07/08/2020 through video conference. (However, the meetings could not be convened during the first half of the year amid corona virus pandemic) In compliance to the direction of Hon'ble NGT with reference to set up of Monitoring Mechanism, Deputy Environmental Engineer (Shri T.C.Patel) has been deputed vide letter No. મહેકમ / જી -40 (14) / 561788 dated 10.06.2020 at Chief Secretary office to look after the Hon'ble NGT matters All NGT matters are being reviewed regualrly under chairmanship of Hon'ble CS (Last meeting was conducted on 03/07/2020) in matter of O.A. No.:- 606/2018
4	Progress report may be furnished by the States/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB	Monthly (preferably before 20th of every	Noted & Complied

		month)	
5	Progress Report may be comprised of details along with completion timelines on: (i) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment		Identification of polluting sources including drains contributing to river pollution is already completed and submitted in the PRS action plan. In-situ treatment:- Pl. refer point no:-1
	(ii) <u>Status of STPs, I&D and sewerage networks</u> Details of existing infrastructure, gap analysis, proposed along with completion timeline		**Existing infrastructure:** --- **Gap analysis:** 20.5 MLD **Proposed:** 53.53 MLD **Completion Timeline:** Sept 2022 **Proposed Plan with Present Status: -** **Vapi Namdha (14 MLD)** March 2021**-** Work in Progress. 35% Completed. Delayed land possession. Delay in deciding splitting / merging of STP at NP level. **Vapi Chandor (29.53 MLD)** Expected to complete by Sept 2022–Land Issue recently resolved, but land at low level. So DPR revision is required. Revised DPR under preparation. **Vapi Notified Area Authority 10 (5+5) MLD*** Land issue is resolved as per MOM dated 02.07.2020. Project report submitted at subdivision level. Expected to complete by March-2022 as communicated by GIDC Notified area on 27.07.2020. ***Proposed capacity enhanced from 5 to 10 MLD by considering future demand**
	(iii) <u>Status of CETPs</u> Details of existing CETP and ETP infrastructure, gap analysis, proposed along with completion timeline, no. of industries and complying status		GIDC Vapi Estate located at Bank of River Damanganga. 519 Nos. of units having discharge into CETP Vapi (55 MLD). At present CETP meeting with the norms. **Existing CETP/ETP**:- • CETP VGEL-55 MLD • M/s. GHCL, Sarigam-2.5 MLD. Meeting with the Norms **Proposed Expansion with Status: -VGEL** - Expansion 55 to 70 MLD. Dec-2019 (Timeline is already due, EC awaited. EC is pending as additional information asked by authority is not submitted by VGEL. Hence RRC instructed VGEL to make a necessary compliance and submission as asked by the authority at the

			earliest & to submit the latest time line of project completion. However, CETP is almost meeting with the norms. Only after obtaining EC by CETP, GPCB will allow further expansion of CETP.
	(iv) <u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of existing infrastructure, gap analysis, proposed along with completion timeline		5 (iv) Status is attached as **Annexure – I**
	(v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river		5 (v) Status is attached as **Annexure – II**
	(vi) Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams etc.		**Bio-Medical Waste: -** There are total 717 # of HCUs (Health Care Units) located in the Ankleshwar taluka, treatment & disposal of the Bio Medical Waste, generated from the health care units, is being taken care of by a Common Bio-medical Waste Treatment Facility M/s En-Cler Biomedical Waste Treatment Pvt. Ltd located in Surat **Industrial Waste: -** All consented Hazardous waste generating industrial units in the State are having authorization under Haz. Waste Management Rules, amended from time to time & they are disposing their waste to TSDF/CHWIF/registered recycler under Rule-9/Co-processing and as per consented conditions
	(vii) 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" in the meeting held on 04/02/2020 at GPCB with PRS Assessment Team nominated by Ministry of Jal Shakti which is in process and to be submitted to the Assembly **<u>Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-</u>**

			To reduce demand of Ground water extraction and to promote treated waste water as an Economic Resource, Gujarat Government has framed Policy for Reuse of "Treated Waste Water (TWW)" by maximizing the collection and treatment of sewage generated and reusing the treated wastewater on a sustainable basis. Also, revised action plan regarding utilization of treated wastewater is submitted by Gujarat Water Supply and Sewerage Board (GWSSB) to Chairman, CPCB by letter dated 29.11.2019 where one of the objectives of the revised action plan is to **reuse 70% of treated wastewater (Sewage) by 2025 and 100% of treated wastewater (Sewage) by 2030.**
	(viii) Adopting good irrigation practices		Details w.r.t point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept./ Water Resource Dept., NWR WS & KD as on date is attached as **Annexure – III.**
	(ix) Protection and management of Flood Plain Zones (FPZ)		
	(x) Rain water harvesting		
	(xi) Maintaining minimum environmental flow of river		
	(xii) Plantation on both sides of the river		Details w.r.t point no. 5 (xii) given by Forest Dept. /PCCF/ACCF/ Social Forestry wing/Concerned as on date is attached as **Annexure – IV**
	(xiii) Setting up biodiversity parks on flood plains by removing encroachment		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.

Annexure-I

5 (iv) Status of Solid Waste Management & Details of Processing Facilities
(From Notified Area Authority)

Types of Waste/ Characteristic of waste	Generated Quantity/day	Collection/ Storage facility with capacity	Disposal/ Treatment facility with capacity along with location	Total Gap with generation & existing treatment facilities if any	Proposed action plan /facility to cover gap	Time limit	Remarks/ Present Status
Domestic	8.50 MT	@3 Lakh MT Total Area – 3.8 Hectare	Composting Method - **5.50 MT/Day** At Survey/Plot No. 4804 to 4807, GIDC Vapi (Near TSDF Site, GIDC Vapi)	Gap of 3.00 MT/Day	The Tender for Collection, Sorting and Recovery of waste and set up material recovery facility under DBFOOM model as per Rules, Norms and regulation of SWM Rules – 2016 Capacity:- 15 MT/Day	March - 2021	They have done installation of material recovery facility and shredder machinery (for compost) and commissioning and testing of machinery to be done after monsoon

							period as per communication received from GIDC Notified area dated 27.07.2020.
Total	8.50 TPD		5.5 TPD	3 TPD	**15 TPD**	--	--

(From Nagarpalika Vapi)

Types of Waste/ Characteristic of waste	**Generated Quantity/ day**	**Collection/ Storage facility with capacity**	**Disposal/ Treatment facility with capacity along with location**	**Total Gap with generation & existing treatment facilities if any**	**Proposed action plan /facility to cover gap**	**Time limit**	**Present Status**
Domestic	50 MT/D	Capacity: 4 – 5 Lakh MT. Total Area: 31472 Sq. Meter.	Vermi Compost – 3 MT/Day, Organic Fertilizers - 100 Kg/Day, Material Recovery Facility – 12 MT/Day At Village Namdha Survey No. 113 to 116.	Total Gap is 34.9 TPD.	Tendering for solid waste management for 100 TPD with O and M for 9 years has been done and same has been floated in news paper on 18/1/2019	March - 2021	At present Vapi has Vermi Compost – 3 MT/Day, Organic Fertilizer – 100 Kg/Day, Material Recovery Facility – 12 MT/Day hence Now for gap of 34.9 MT/Day, tender is on

							agreement stage. Vapi Nagarpalika has proposed work completion by May **– 2021** and will start operation by July - 2021 Work order given as per letter of Vapi Nagarpalika dated 08.06.2020. Submitted that work delay is on account of covid-19.
Total	50 TPD		15.1 TPD	34.9 TPD	--	--	--

Annexure-II

Progress/Status Report of the River/PRS water quality Monitoring August– 2020:

Date	Location	DO (mg/l)	pH	BOD (mg/l)	COD (mg/l)	Fecal Coliform (MPN/100 ml)	Total coliform (MPN/100 ml)
05/08/2020	GIDC Vapi Weir	7.10	7.78	0.6	8.0	Not Analyzed*	Not Analyzed*
05/08/2020	Zari Causeway Kachigam	Sample could not be collected due to this location is located in Union Tertiary of Daman & Dadra Nagar Haveli and due to lockdown in COVID – 19 situation, staff members are not allowed to enter their jurisdiction.					
23/08/2020	Village Namdha	6.10	7.90	1.1	9.0	<1.8	32

Note:- Not falls in any Priority as per June-2020 MPR, July 2020 MPR & August 2020 MPR Not falls in any Priority as per

* Fecal Coliform & Total coliform analysis could not be conducted for the month of Aug'20 due to Departmental Transfer and now onwards shall be carried out on a regular basis.

Annexure:- II (A) STP Results

There is no any Existing STP at present

Annexure:- II (B) 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 Vapi Nagarpalika Area)	20 MLD	18 MLD
2	Near GIDC Weir, Vapi	Domestic outfall from Village Chanod Area	0.5 MLD	0.3 MLD

Annexure-II (C) CETPs Results

CETP, Vapi (VGEL Vapi):

Samp Dt	Type	BOD		COD		NH3		pH		SS	
		Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
17-08-20	ROU	152	25	694	224	11.65	43.68	8.3	7.89	146	50

Annexure-II (D)

Progress/Status Report of the River/PRS ground water quality Monitoring August – 2020

Date	Location	DO (mg/l)	pH	BOD (mg/l)	COD (mg/l)	Fecal Coliform (MPN/100 ml)	Total coliform (MPN/100 ml)	SS	Iron	Lead	Nickel
05/08/2020	Borewell at Jilla Panchayat School, Kanta Faliya, Village Namdha	6.10	7.68	0.6	8.0	Not Analyzed	Not Analyzed	8.0	0.238	BDL	BDL

Zinc	Manganese	Nitrite	Nitrate	Hexavalent Chromium	Total Chromium	Percent Sodium	NH3	Total Kejeldahl Nirtogen	TDS	Conductivity
0.096	BDL	BDL	0.327	BDL	BDL	8.61	BDL	1.18	376	550

Annexure-III

Details w.r.t point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept. as on date

Sr.No	River name	Details/Status
1	Damanganga	1. Environmental flow: 805 MCM 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. ln such condition people of these villages are warned through early warning arrangement in consultation with revenue department.

Annexure-IV

Details w.r.t point no. 5 (xii) given by Forest Dept. /PCCF/ACCF/Concerned as on date

Stretch/river	Existing plantation/vegetation cover details	Proposed plan	Time limit	Remarks
Damanganga (kachigaon to Vapi)	8 ha. Plantation	0.25 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

National Mission for Clean Ganga
Monthly Progress Report of PRS Kolak (Gujarat State) for August - 2020
(Hon'ble NGT in the matter of OA No.673/2018 dated 06/12/2019)

Sr. No.	Activity to be monitored	Timeline	Submission of Progress by States/UT- Compliance Status
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2020	Proposal not received from PRH & RDD/ Concerned for in-situ remediation
	Commencement of setting up of STPS and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2020	Gunjan STP proposed by Vapi Notified Area Authority 15(10+5) MLD*:- Mar-2022. ***Proposed Capacity enhancement from 10 to 15 MLD (8th RRC) by considering future demand**
2	Timeline for completing all steps of action plans including completion of setting up of STPs and their commissioning	31.03.2021	PRH & RDD was informed to submit the action plan for the sewage (18 MLD) generated from the village Chhiri, Chharwada, Salvav & Balitha **<u>Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-</u>** As per the revised action plan submitted by Gujarat Water Supply and Sewerage Board (GWSSB) to Chairman, CPCB by letter dated 29.11.2019; one of the objectives of the revised action plan is to **reuse 70% of treated wastewater (Sewage) by 2025 and 100% of treated wastewater (Sewage) by 2030.**
3	Chief Secretaries may set up appropriate monitoring mechanism at State level • Specifying accountability of nodal authorities not below the Secretary Level • Chief Secretaries may have an accountable person attached in their office for this purpose. • Monitoring at State level must take place	22.01.2020 22.01.2020 Fortnightly commencing 21.12.2019	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. 8th RRC meeting was held on 07/08/2020 through video conference. (However, the meetings could not be convened during the first half of the year amid corona virus pandemic) In compliance to the direction of Hon'ble NGT with reference to set up of Monitoring Mechanism, Deputy Environmental Engineer (Shri T.C.Patel) has been deputed vide letter No. મહેકમ / જી -40 (14) / 561788 dated 10.06.2020 at Chief Secretary office to look after the

			Hon'ble NGT matters All NGT matters are being reviewed regualrly under chairmanship of Hon'ble CS (Last meeting was conducted on 03/07/2020) in matter of O.A. No.:-606/2018
4	Progress report may be furnished by the States/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB	Monthly (preferably before 20th of every month)	Noted & Complied
5	Progress Report may be comprised of details along with completion timelines on: (i) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment		Identification of polluting sources including drains contributing to river pollution is already completed and submitted in the PRS action plan In-situ treatment:- Pl. refer point no:-1
	(ii) <u>Status of STPs, I&D and sewerage networks</u> Details of existing infrastructure, gap analysis, proposed along with completion timeline.		**Existing infrastructure:** --- **Gap analysis:** 26 MLD **Proposed :** 15 MLD **Completion Timeline: Mar-** 2022 **Proposed Plan and Present Status:-** I. Gunjan 15 (10+5) MLD* proposed by Vapi notified area authority to treat 8 MLD sewage generated from Gunjan, Notified Area. Time line-Mar- 2022. Project report submitted at subdivision level. DPR scrutinized and resubmission of DPR sought. As per the information received, capacity is enhanced considering future demand. Land issue is resolved as per MOM dated 02.07.2020. Expected to complete by March - 2022 as communicated by GIDC Notified area 27.07.2020. ***Proposed Capacity enhanced from 10 to 15 MLD (8th RRC) by considering future demand** II. PRH & RDD was informed to submit the action plan for the sewage generated from the village Chhiri, Chharwada, Salvav & Balitha (18 MLD)

	(iii)	Status of CETPs Details of existing CETP and ETP infrastructure, gap analysis, proposed along with completion timeline, no. of industries and complying status		No any industrial effluent is being discharged into the stretch of River Kolak
	(iv)	Status of Solid Waste Management & Details of Processing Facilities Details of existing infrastructure, gap analysis, proposed along with completion timeline		5 (iv) Status is attached as **Annexure – I**
	(v)	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river		5 (v) Status is attached as **Annexure – II**
	(vi)	Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams etc.		**Bio-Medical Waste:-** There are total 717 # of HCUs (Health Care Units) located in the Ankleshwar taluka, treatment & disposal of the Bio Medical Waste, generated from the health care units, is being taken care of by a Common Bio-medical Waste Treatment Facility M/s En-Cler Biomedical Waste Treatment Pvt. Ltd located in Surat **Industrial Waste: -** All consented Hazardous waste generating industrial units in the State are having authorization under Haz. Waste Management Rules, amended from time to time & they are disposing their waste to TSDF/CHWIF/registered recycler under Rule-9/Co-processing and as per consented conditions
	(vii)	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" in the meeting held on 04/02/2020 at GPCB with PRS Assessment Team nominated by Ministry of Jal Shakti which is in process and to be submitted to the Assembly **Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-**

			To reduce demand of Ground water extraction and to promote treated waste water as an Economic Resource, Gujarat Government has framed Policy for Reuse of "Treated Waste Water (TWW)" by maximizing the collection and treatment of sewage generated and reusing the treated wastewater on a sustainable basis. Also, revised action plan regarding utilization of treated wastewater is submitted by Gujarat Water Supply and Sewerage Board (GWSSB) to Chairman, CPCB by letter dated 29.11.2019 where one of the objectives of the revised action plan is to **reuse 70% of treated wastewater (Sewage) by 2025 and 100% of treated wastewater (Sewage) by 2030.**
	(viii) Adopting good irrigation practices		Details w.r.t point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept./ Water Resource Dept., NWR WS & KD as on date is attached as **Annexure – III.**
	(ix) Protection and management of Flood Plain Zones (FPZ)		
	(x) Rain water harvesting		
	(xi) Maintaining minimum environmental flow of river		
	(xii) Plantation on both sides of the river		Details w.r.t point no. 5 (xii) given by Forest Dept. /PCCF/ACCF/Concerned as on date is attached as **Annexure – IV**
	(xiii) Setting up biodiversity parks on flood plains by removing encroachment		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.

Annexure-I

5 (iv) Status of Solid Waste Management & Details of Processing Facilities (From Notified Area Authority)

Types of Waste/ Characteristic of waste	Generated Quantity/day	Collection/ Storage facility with capacity	Disposal/Treatment facility with capacity along with location	Total Gap with generation & existing treatment facilities if any	Proposed action plan /facility to cover gap	Time limit	Remarks/Present Status
Domestic	8.50 MT	@3 Lakh MT Total Area – 3.8 Hectare	Composting Method - **5.50 MT/Day** At Survey/Plot No. 4804 to 4807, GIDC Vapi (Near TSDF Site, GIDC Vapi)	3.00 MT/Day	The Tender for Collection, Sorting and Recovery of waste and set up material recovery facility under DBFOOM model as per Rules, Norms and regulation of SWM Rules – 2016 Capacity: 15 MT/Day	March - 2021	They have done installation of material recovery facility and shredder machinery (for compost) and commissioning and testing of machinery to be done after monsoon period as per communication received from GIDC Notified area dated 27.07.2020.
Total	**8.50 MT**		**5.5 TPD**	**3.0 TPD**	**15 TPD**	--	--

Annexure-II

Progress/Status Report of the River/PRS water quality Monitoring (August - 2020):

Date	Location	DO (mg/l)	pH	BOD (mg/l)	COD (mg/l)	Fecal Coliform (MPN/100 ml)	Total coliform (MPN/100 ml)
04/08/2020	River Kolak at N H No. 8, Morai	6.90	7.93	0.6	7.0	*Not Analyzed	*Not Analyzed
04/08/2020	River Kolak at Pataliya Bridge	6.0	8.03	1.20	18.0	*Not Analyzed	*Not Analyzed

Note:- Does not fall in any priority as per June-2020 MPR, July 2020 MPR as well as August 2020 MPR.

* Fecal Coliform & Total coliform analysis could not be conducted for the month of Aug'20 due to Departmental Transfer and now onwards shall be carried out on a regular basis.

Annexure-II (A) STPs Results

There is no Existing STP at present

Annexure-II (B) 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

Annexure-II (C) CETPs Results

Not Applicable

Annexure-II (D)

Progress/Status Report of the River/PRS ground water quality Monitoring (August - 2020):

Date	Location	DO (mg/l)	pH	BOD (mg/l)	COD (mg/l)	Fecal Coliform (MPN/100 ml)	Total coliform (MPN/100 ml)	SS	Iron	Lead	Nickel
04/08/2020	Borewell at Koteshwar Mahadev Temple, Vatar	5.60	7.46	0.5	6.0	Not Analyzed	Not Analyzed	6.0	0.311	BDL	BDL

Zinc	Manganese	Nitrite	Nitrate	Hexavalent Chromium	Total Chromium	Percent Sodium	Ammonical Nitrogen	Total Kejeldahl Nirtogen	TDS	Conductivity
0.262	BDL	BDL	0.38	BDL	BDL	13.40	BDL	1.23	422	741

Annexure-III

Details w.r.t point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept./WRD as on date

Sr. No	River name	Details/Status
1	Kolak	**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.

Annexure-IV

Details w.r.t point no. 5 (xii) given by Forest Dept. /PCCF/ACCF/Concerned as on date

Stretch/river	**Existing plantation/vegetation cover details**	**Proposed plan**	**Time limit**	**Remarks**
Kolak(kikarla to salvav)	Nil	0.25 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

National Mission for Clean Ganga

Monthly Progress Report of PRS Mahi (Gujarat State) for August-20

(Hon'ble NGT in the matter of OA No.673/2018 dated 06/12/2019)

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by States/UT- Compliance Status
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2020	There is no any domestic discharge/outlet in to this stretch
	Commencement of setting up of STPS and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2020	
2	Timeline for completing all steps of action plans including completion of setting up of STPs and their commissioning	31.03.2021	
3	Chief Secretaries may set up appropriate monitoring mechanism at State level • Specifying accountability of nodal authorities not below the Secretary Level • Chief Secretaries may have an accountable person attached in their office for this purpose. • Monitoring at State level must take place	22.01.2020 22.01.2020 Fortnightly commencing 21.12.2019	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. 8th RRC meeting was held on 07/08/2020 through video conference. (However, the meetings could not be convened during the first half of the year amid corona virus pandemic) In compliance to the direction of Hon'ble NGT with reference to set up of Monitoring Mechanism, Deputy Environmental Engineer (Shri T.C.Patel) has been deputed vide letter No. મહેકમ / જી -40 (14) / 561788 dated 10.06.2020 at Chief Secretary office to look after the Hon'ble NGT matters All NGT matters are being reviewed regualrly under chairmanship of Hon'ble CS (Last meeting was conducted on 03/07/2020) in matter of O.A. No.:- 606/2018
4	Progress report may be furnished by the States/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB	Monthly (preferably before 20th of every month)	Noted & Complied
5	Progress Report may be comprised of details along with completion timelines on: (i) Identification of polluting sources including drains contributing to river		Identification of polluting sources including drains contributing to river pollution is already completed and submitted in the PRS action plan.

		pollution and action as per NGT order on insitu treatment		In-situ treatment:- Pl. refer point no:-1
	(ii)	Status of STPs, I&D and sewerage networks Details of existing infrastructure, gap analysis, proposed along with completion timeline		**Existing infrastructure:** --- **Gap analysis:---** **Proposed :** --- **Completion Timeline:** --- There is no any domestic discharge/outlet in to this stretch
	(iii)	Status of CETPs Details of existing CETP and ETP infrastructure, gap analysis, proposed along with completion timeline, no. of industries and complying status		There is no any industrial or domestic discharge/outlet in River Mahi in this stretch.
	(iv)	Status of Solid Waste Management & Details of Processing Facilities Details of existing infrastructure, gap analysis, proposed along with completion timeline		There is no Nagarpalika area in this stretch of River.
	(v)	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river		5 (v) Status is attached as **Annexure – I** As per the CPCB report (Sep-18) based on results of 2016 & 2017 also Mahi does not fall in any priority with <3 mg/L BOD and information for the same is already submitted to CPCB.
	(vi)	Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams etc.		**Bio-Medical Waste: -** There are total 105 # of HCUs (Health Care Units) located in the Thasra Taluka All are members of either M/s. Samvedana BMW Incinerator or M/s. Pollucare Biomedical Management Pvt. Ltd. **Industrial Waste: -** All consented Hazardous waste generating industrial units in the State are having authorization under Haz. Waste Management Rules, amended from time to time & they are disposing their waste to TSDF/CHWIF/registered recycler under Rule-9/Co-processing and as per consented conditions
	(vii)	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" in the meeting held on 04/02/2020 at GPCB with PRS

			Assessment Team nominated by Ministry of Jal Shakti which is in process to be submitted to the Assembly
	(viii) Adopting good irrigation practices		Details w.r.t point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept./ Water Resource Dept., NWR WS & KD as on date is attached as **Annexure – II**
	(ix) Protection and management of Flood Plain Zones (FPZ)		
	(x) Rain water harvesting		
	(xi) Maintaining minimum environmental flow of river		
	(xii) Plantation on both sides of the river		Details w.r.t point no. 5 (xii) given by Forest Dept. /PCCF/ACCF/ Social Forestry wing/Concerned as on date is attached as **Annexure – III**
	(xiii)Setting up biodiversity parks on flood plains by removing encroachment		As per the information received from GBB, vide letter dated 24.04.2020, Forest Dept. hasestablished 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.

Annexure- I

Latest water quality of polluted river

Month	Location	DO (mg/l)	pH	BOD (mg/l)	COD (mg/l)	Fecal Coliform (MPN/100 ml)	Total coliform (MPN/100 ml)
August 2020	River Mahi at Sevalia	6.3	8.63	0.5	4	4	47

Note:- Priority as pre June MPR:- Does not fall in any Priority

Priority as per July MPR:- Does not fall in any Priority

Annexure-II

Details w.r.t point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept./WRD as on date

Sr.No	River name	Details/Status
1	Mahi	1. Environmental flow: Minimum 300 cusecs water is released on d/s of Wanakbori weir or escapes constructed on Mahi right bank canal. 2.Detail of Good lrrigation Practices:- NA 3. Flood Plain Management Zone: NA

Annexure-III

Details w.r.t point no. 5 (xii) given by Forest Dept. /PCCF/ACCF/Concerned as on date

Stretch/river	**Existing plantation/vegetation cover details**	**Proposed plan to cover remaining gap along river /river stretch**	**Time limit**	**Remarks**
Mahi, Shedhi	8,32,000 Plants were planted along the Mahi, Shedhi and Other river in the areas available under the Vanmahotsav and other Schemes of the forest Department with the co-operation of local People.	Mahi:- 0.20 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

National Mission for Clean Ganga

Monthly Progress Report of PRS Shedhi (Gujarat State) for August-20

(Hon'ble NGT in the matter of OA No.673/2018 dated 06/12/2019)

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by States/UT-Compliance Status
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2020	As informed by UDD, ULBs were instructed to start In-situ Bioremediation of sewage as per the Hon'ble NGT order Dated. 06.12.2019. As per data received, 7 Municipalities including Vapi (Damanganga), out of 10 municipalities related to PRS required to In-Situ Bioremediation. Consultants were appointed to suggest better technology for In-Situ Bioremediation of sewage. In- Situ remediation will be commenced within two months after finalization of the technology to be adopted
	Commencement of setting up of STPS and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2020	**STPs:-** Kheda STP (5.2 MLD) - Nov-2021 Underground drainage Project for NadiadNagarpalika–Dec-2020
2	Timeline for completing all steps of action plans including completion of setting up of STPs and their commissioning	31.03.2021	**STPs (Source:- GUDM) :-** Kheda STP (5.2 MLD) GWSSB- Expected to be commissioned by Nov-2021 Underground drainage Project for NadiadNagarpalika- Dec-2020 **Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-** As per the revised action plan submitted by Gujarat Water Supply and Sewerage Board (GWSSB) to Chairman, CPCB by letter dated 29.11.2019; one of the objectives of the revised action plan is to **reuse 70% of treated wastewater (Sewage) by 2025 and 100% of treated wastewater (Sewage) by 2030.** **ETP:-Mafatlal Industries Limited** **Upgradation**– during 8th RRC meeting held on 07/08/20, Mafatlal Industries, with reference to last RRC meeting remarks (7th RRC) regarding up gradation of ETP to river discharge norms or ZLD, informed that they have upgraded their ETP to meet the discharge norms to discharge final effluent into underground drain of Nadiad

			Nagarpalika and they are meeting with the norms. Their treated effluent quality is meeting STP inlet norms. Nadiad Nagarpalika also agreed to allow their treated affluent to discharge into underground drain of Nadiad Nagarpalika. **CETP Nadiad (**0.5 MLD), Dec-20**– As discussed in 8th RRC, (**land not allotted) Representative of Nadiad Industrial Association informed that progress report with respect to CETP could not be submitted by them as allotment of land is pending at GIDC. However, Nadiad Nagarpalika has also agreed in principle to permit discharge of industrial effluent into inlet of STP operated by Nadiad Nagarpalika. The proposal is under consideration at GPCB. • RRC suggested the Nadiad Nagarpalika to submit detailed proposal of impact of receipt of industrial effluent from above both and performance of STP and submit to GPCB.
3	Chief Secretaries may set up appropriate monitoring mechanism at State level • Specifying accountability of nodal authorities not below the Secretary Level • Chief Secretaries may have an accountable person attached in their office for this purpose. • Monitoring at State level must take place	22.01.2020 22.01.2020 Fortnightly commencing 21.12.2019	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. 8th RRC meeting was held on 07/08/2020 through video conference. (However, the meetings could not be convened during the first half of the year amid corona virus pandemic) In compliance to the direction of Hon'ble NGT with reference to set up of Monitoring Mechanism, Deputy Environmental Engineer (Shri T.C.Patel) has been deputed vide letter No. મહેકમ / જી -40 (14) / 561788 dated 10.06.2020 at Chief Secretary office to look after the Hon'ble NGT matters All NGT matters are being reviewed regualrly under chairmanship of Hon'ble CS (Last meeting was conducted on 03/07/2020) in matter of O.A. No.:- 606/2018

4	Progress report may be furnished by the States/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB	Monthly (preferably before 20th of every month)	Noted &Complied.
5	Progress Report may be comprised of details along with completion timelines on: (i) 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. In-situ treatment:- Pl. refer point no:-1
	(ii) <u>Status of STPs, I&D and sewerage networks</u> Details of existing infrastructure, gap analysis, proposed along with completion timeline		**Existing infrastructure:** 52 MLD (Spare capacity) **Gap analysis:** 8.2 MLD **Proposed :** 5.2 MLD **Completion Timeline:** Nov-2021 **Proposed Plan and Present Status (Source:- GUDM) : -** I. **Kheda STP (5.2 MLD**):- Nov-2021 Under Progress, 4% Completed. Land was allotted on dt.09/12/2019. Land is available. **II. Underground drainage Project –**Dec-2020 Work order given on 17.01.2020.Adverse working conditions, working in deep excavation in very narrow streets, Safety issues
	(iii) <u>Status of CETPs</u> Details of existing CETP and ETP infrastructure, gap analysis, proposed along with completion timeline, no. of industries and complying status		**No of Industries:- GIDC Nadiad has 17 no. of industries (** 13 discharging units having captive ETP while rest 4 are zero discharge) **ETP:-Mafatlal Industries Limited** **Upgradation**– during 8th RRC meeting held on 07/08/20, Mafatlal Industries, with reference to last RRC meeting remarks (7th RRC) regarding up gradation of ETP to river discharge norms or ZLD, informed that they have upgraded their ETP to meet the discharge norms to discharge final effluent into underground drain of Nadiad Nagarpalika and they are meeting with the norms. Their treated effluent quality is meeting STP inlet norms. Nadiad Nagarpalika also agreed to allow their treated affluent to discharge into underground drain of Nadiad Nagarpalika.

			CETP Nadiad (0.5 MLD), Dec-20**– As discussed in 8th RRC, (**land not allotted) Representative of Nadiad Industrial Association informed that progress report with respect to CETP could not be submitted by them as allotment of land is pending at GIDC. However, Nadiad Nagarpalika has also agreed in principle to permit discharge of industrial effluent into inlet of STP operated by Nadiad Nagarpalika. The proposal is under consideration at GPCB. **RRC suggested the Nadiad Nagarpalika to submit detailed proposal of impact of receipt of industrial effluent from above both and performance of STP and submit to GPCB.**
	(iv) <u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of existing infrastructure, gap analysis, proposed along with completion timeline		5 (iv) Status is attached as **Annexure – I**
	(v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river		5 (v) Status is attached as **Annexure – II**
	(vi) Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams etc.		**Bio-Medical Waste: -** There are total 232 # of HCUs (Health Care Units) located in the Ankleshwar taluka, treatment & disposal of the Bio Medical Waste, generated from the health care units, is being taken care of by a Common Bio-medical Waste Treatment Facility M/s. Pollucare Biomedical Management Pvt. Ltd. **Industrial Waste: -** All consented Hazardous waste generating industrial units in the State are having authorization under Haz. Waste Management Rules, amended from time to time & they are disposing their waste to

			TSDF/CHWIF/registered recycler under Rule-9/Co-processing and as per consented conditions.
	(vii) 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" in the meeting held on 04/02/2020 at GPCB with PRS Assessment Team nominated by Ministry of Jal Shakti which is in process and to be submitted to the Assembly **Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-** To reduce demand of Ground water extraction and to promote treated waste water as an Economic Resource, Gujarat Government has framed Policy for Reuse of "Treated Waste Water (TWW)" by maximizing the collection and treatment of sewage generated and reusing the treated wastewater on a sustainable basis. Also, revised action plan regarding utilization of treated wastewater is submitted by Gujarat Water Supply and Sewerage Board (GWSSB) to Chairman, CPCB by letter dated 29.11.2019 where one of the objectives of the revised action plan is to **reuse 70% of treated wastewater (Sewage) by 2025 and 100% of treated wastewater (Sewage) by 2030.**
	(viii) Adopting good irrigation practices		Details w.r.t point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept./ Water Resource Dept., NWR WS & KD as on date is attached as **Annexure – III**
	(ix) Protection and management of Flood Plain Zones (FPZ)		
	(x) Rain water harvesting		
	(xi) Maintaining minimum environmental flow of river		
	(xii) Plantation on both sides of the river		Details w.r.t point no. 5 (xii) given by Forest Dept. /PCCF/ACCF/Social Forestry wing/Concerned as on date is attached as **Annexure – IV**
	(xiii)Setting up biodiversity parks on		As per the information received from GBB,

	flood plains by removing encroachment		vide letter dated 24.04.2020, Forest Dept. hasestablished 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.

Annexure- I

5 (iv) Status of Solid Waste Management & Details of Processing Facilities:

Types of Waste/ Characteristic of waste	**Generated Quantity/ day**	**Collection/ Storage facility with capacity**	**Disposal/ Treatment facility with capacity along with location**	**Total Gap with generation & existing treatment facilities if any**	**Proposed action plan /facility to cover gap**	**Time limit**	**Responsible agency**	**Present Status**
Domestic	85 TPD	70 TPD	45 Ton MRF 15 Ton Pit composting	25 TPD	25 Ton Wastage will be treated by on site waste composting machines	1 Year	Nadiad Nagarpalika	SLF site - Proposed to be carried out in cluster level by concerned authority. Present status of SLF - Nil Identification of land – 6 months Design and construction – 6 months Commissioning of SLF – 1 year (31/03/2022)
Domestic (Dry Waste + Wet Waste)	6 TPD	6 TPD	Iyavapura dumping Site At-Kheda Not scientifically developed	6 TPD	Action Plan Under Planning	31-4-2019	Kheda Nagarpalika	
Total	**91 TPD**	**76 TPD**		**31 TPD**	**--**	**--**	**--**	

Annexure-II

Status Report of the River/PRS water quality Monitoring (August-2020):

- **Latest water quality of polluted river Priority:- IV**
- **Last month Priority as per July MPR:-IV**
- **Current month Priority as per August MPR:- V**

Month	Location	DO (mg/l)	pH	BOD (mg/l)	COD (mg/l)	Fecal Coliform (MPN/100 ml)	Total coliform (MPN/100 ml)
August 2020	River Shedhi at KhedaMatar Bridge	4.3	8.02	5.17	31	17	110

Annexure-II (A) STPs results

Nadiad STP:

Sample Date	sampling point	BOD (mg/l)	COD (mg/l)	FC (MPN/100 ml)	pH	SS (mg/l)	TC (MPN/100 ml)	TDS (mg/l)	TMP
25/08/2020	Final Outlet of the STP	21	82	63	7.92	60	350	1502	28
Standard		**<10**				**<10**			

Note: Value of BOD & SS is higher than permissible value.

Annexure-II (b) Drain 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

Annexure-II (C) CETP/ETP Results

CETP results:-Not Applicable, No CETP in PRS

Annexure-II (D)

- **Latest ground water quality in the catchment of polluted River Shedhi**

Month	Location	DO (mg/l)	pH	BOD (mg/l)	COD (mg/l)	Fecal Coliform (MPN/100 ml)	Total coliform (MPN/100 ml)
April 2020 (Half yearly)	BorewellNadiadGIDC Water Works	Not Applicable	7.73	0.61	8	<2	<2

Annexure-III

Details w.r.t point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept./WRD as on date

Sr.No	River name	Details/Status
1	Shedhi	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. Detail of good irrigation practices:- -- Details on flood plain management zone:- --

Annexure-IV

Details w.r.t point no. 5 (xii) given by Forest Dept. /PCCF/ACCF/Social Forestry/Concerned as on date

Stretch/river	**Existing plantation/vegetation cover details**	**Proposed plan to cover remaining gap along river /river stretch**	**Time limit**	**Remarks**
Mahi, Shedhi	8,32,000 Plants were planted along the Mahi, Shedhi and Other river in the areas available under the Vanmahotsav and other Schemes of the forest Department with the co-operation of local People.	Shedhi:- 0.15 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

National Mission for Clean Ganga
Monthly Progress Report of PRS Tapi (Gujarat State) for July-20
(Hon'ble NGT in the matter of OA No.673/2018 dated 06/12/2019)

Sl.No.	Activity to be monitored	Timeline	Submission of Progress by States/UT-Compliance Status
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2020	Presently there is no any proposal for in-situ remediation from concerned authority
	Commencement of setting up of STPS and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2020	**STPs (Source:- GUDM):-** Signapore (155 MLD) – Expansion. June-21 Gavier (53 MLD) – Expansion. March-2021 Bhatar (162 MLD) – Expansion. March-2021 Bhesan (100 MLD) – Expansion. Dec- 2020 STPs under Tapi Suddhikaran Yojana (Total 37 STPs by SUDA and GWSSB) –Dec-2021 to Dec-22 **Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-** As per the revised action plan submitted by Gujarat Water Supply and Sewerage Board (GWSSB) to Chairman, CPCB by letter dated 29.11.2019; one of the objectives of the revised action plan is to **reuse 70% of treated wastewater (Sewage) by 2025 and 100% of treated wastewater (Sewage) by 2030.**
2	Timeline for completing all steps of action plans including completion of setting up of STPs and their commissioning	31.03.2021	
3	Chief Secretaries may set up appropriate monitoring mechanism at State level • Specifying accountability of nodal authorities not below the Secretary Level • Chief Secretaries may have an accountable person attached in their office for this purpose.	22.01.2020 22.01.2020	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. 8th RRC meeting was held on 07/08/2020 through video conference. (However, the meetings could not be convened during the first half of the year amid corona virus pandemic) In compliance to the direction of Hon'ble NGT with reference to set up of Monitoring Mechanism, Deputy

	• Monitoring at State level must take place	Fortnightly commencing 21.12.2019	Environmental Engineer (Shri T.C.Patel) has been deputed vide letter No. મહેકમ / જી -40 (14) / 561788 dated 10.06.2020 at Chief Secretary office to look after the Hon'ble NGT matters All NGT matters are being reviewed regualrly under chairmanship of Hon'ble CS (Last meeting was conducted on 03/07/2020) in matter of O.A. No.:- 606/2018
4	Progress report may be furnished by the States/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB	Monthly (preferably before 20th of every month)	Noted & Complied
5	Progress Report may be comprised of details along with completion timelines on: (i) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment		Identification of polluting sources including drains contributing to river pollution is already completed and submitted in the PRS action plan.. In-situ treatment:- Pl. refer point no:-1
	(ii) <u>Status of STPs, I&D and sewerage networks</u> Details of existing infrastructure, gap analysis, proposed along with completion timeline		**Existing infrastructure:** 470 MLD **Gap analysis:** 370.15 MLD **Proposed :** 564.99 MLD **Completion Timeline:** December 2022 **Proposed STPs and present status (Source:- GUDM):-** • Signapore (155 MLD) – Upgradation & expansion.70% completed. Work in Progress. Expected to complete by June-21 • Gavier (53 MLD) - Network is under process. Expected to complete by March-2021 • Bhatar (162 MLD) – Expansion. 50% completed. Work in Progress.

			Expected to complete by March-2021 • Bhesan (100 MLD) - Expansion. 85% completed. Work in Progress. Expected to complete by Dec- 2020 • STPs under Tapi Suddhikaran Yojana (Total 37 STPs by SUDA and GWSSB) – Proposed. Tender to be invited subject to land possession issues. Expected to complete by Dec-21 to Dec-22 **(Please refer Annexure V for details).** • In last video conference meeting, CS has intimated to concerned dept. to resolve the issues **<u>Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-</u>** **Reuse of treated sewage** • The information given by representative of concerned dept., regarding reuse of treated sewage, during PRS Assessment Team visit held on 04-05/02/2020, is attached herewith as **Annexure-VI.**
	(iii) <u>Status of CETPs</u> Details of existing CETP and ETP infrastructure, gap analysis, proposed along with completion timeline, no. of industries and complying status		No Industrial wastewater discharge into the river stretch
	(iv) <u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of existing infrastructure, gap analysis, proposed along with completion timeline		5 (iv) Status is attached as **Annexure – I**

	(v)	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river		5 (v) Status is attached as **Annexure – II**
	(vi)	Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams etc.		**Bio-Medical Waste: -** There are total 3683 # of HCUs (Health Care Units) located in the Ankleshwar taluka, treatment & disposal of the Bio Medical Waste, generated from the health care units, is being taken care of by a Common Bio-medical Waste Treatment Facility M/s, Globe Bio Care and M/s En-Cler Biomedical Waste Treatment Pvt. Ltd located in Surat. **Industrial Waste: -** All consented Hazardous waste generating industrial units in the State are having authorization under Haz. Waste Management Rules, amended from time to time & they are disposing their waste to TSDF/CHWIF/registered recycler under Rule-9/Co-processing and as per consented conditions.
	(vii)	Ground water regulation		During the meeting held on 04/02/2020, with PRS Assessment Team nominated by Ministry of Jal Shakti, GWRDC has given details about the recently framed draft bill titled "Conservation, Protection, Regulation and Management of Ground Water in Gujarat State" which is in process and within 3 months to be submitted to the Assembly. **<u>Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-</u>** To reduce demand of Ground water extraction and to promote treated waste water as an Economic Resource, Gujarat Government has framed a Policy for Reuse of "Treated Waste Water (TWW)" by

			maximizing the collection and treatment of sewage generated and reusing the treated wastewater on a sustainable basis. Also, revised action plan regarding utilization of treated wastewater is submitted by Gujarat Water Supply and Sewerage Board (GWSSB) to Chairman, CPCB by letter dated 29.11.2019 where one of the objectives of the revised action plan is to **reuse 70% of treated wastewater (Sewage) by 2025 and 100% of treated wastewater (Sewage) by 2030.**
	(viii) Adopting good irrigation practices		Details w.r.to point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept./ Water Resource Dept., NWR WS & KD as on date is attached as **Annexure – III**
	(ix) Protection and management of Flood Plain Zones (FPZ)		
	(x) Rain water harvesting		
	(xi) Maintaining minimum environmental flow of river		
	(xii) Plantation on both sides of the river		Details w.r.to point no. 5 (xii) given by Forest Dept. /PCCF/ACCF/Social Forestry wing/Concerned, as on date is attached as **Annexure – IV**
	(xiii) Setting up biodiversity parks on flood plains by removing encroachment		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 in 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.

Annexure-I

5 (iv) Status of Solid Waste Management & Details of Processing Facilities

Types of Waste/ Characteristic of waste	Generated Quantity/ day	Collection/Storage facility with capacity	Disposal/Treatment facility with capacity along with location	Total Gap with generation & existing treatment facilities if any	Proposed action plan /facility to cover gap	Time limit	Remarks/Present Status
Wet waste	800 TPD	100% collection and transportation facility is in place	• 50 TPD bio methanation at APMC market • 700 TPD composting at Khajod Disposal site • 10 TPD decentralized plants for onsite treatment	40 TPD	SMC has formulated policy of Decentralized waste processing facility i.e. OWC, 50 to 100% subsidy is being provided for such kind of Facility. 7 nos of 10 TPD (i.e total 70 TPD) decentralized processing plants have been planned.	12 month	Surat Municipal Corporation has municipal waste disposal site at Khajod which is in operation
Dry Waste Plastic waste C&D waste Textile - cloth cutting waste (Chindi waste)	500 TPD 100 TPD 300 TPD 100 TPD	100% collection and transportation facility is in place	• 500 TPD RDF unit at Khajod disposal site • 20 TPD Plastic treatment unit at Bhatar • 300 TPD C&D treatment unit at Kosad • 100 TPD Plant is under tendering stage at SMC level.	80 TPD	SMC has planned to expand the processing capacity in next 12-18 months	12 -18 months	
Total	**1800 TPD**		**1680 TPD**	**120 TPD**	--	--	--

Annexure-II

5 (v) Progress/Status Report of the River/PRS water quality Monitoring

Note:- Does not fall in any priority as per the MPRs for the months of May-2020, June-2020, July-2020 and August -2020.

Date	Location	DO (mg/l)	pH	BOD (mg/l)	COD (mg/l)	Fecal Coliform (MPN/100 ml)	Total coliform (MPN/100 ml)
06-08-2020	Kathor, N.H. 8	7.4	8.03	1.2	07	10	54
06-08-2020	Varachha Bridge	7.00	8.09	1.8	11	17	79
04-08-2020	ONGC Bridge	5.8	7.45	2.3	16	12	120
06-08-2020	Rander	7.2	8.40	1.3	8	<1.8	2
06-08-2020	Swamivivekan and Bridge	7.00	7.37	0.6	8	11	79
04-08-2020	Sardar Bridge	7.2	7.52	0.4	7	12	120
04-08-2020	Umara Temple	5.2	7.39	0.4	-	17	210

Annexure-II (a) Details of STPs result

Sr.No	Location of STP	Date of Sample	pH	SS (mg/l)	BOD (mg/l)	FC (MPN/100 m)
1	**Sewage Treatment Plant- Signapore, Surat**	27-08-2020	6.86	10	15	12
2	**Sewage Treatment Plant-Gavier, Surat**	27-08-2020	6.93	12	10	<1.8

Annexure-II (b) Drain 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	Koli Bharthana	3.84
18	Valak Creek	43.24
19	Varachha Creek	51.72
20	Jat Bharthana	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	Rundh Jakatnaka	2
	Outside SUDA – R	
30	Mandvi	22.28
31	Gamtalav Bujrang	0.23
32	Ushkhed khurd	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	Dhoran Pardi	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

Annexure-II (C)

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

Annexure-II (D)

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

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	April-2020	0.77	7.03	9	0.14	24.32	0.56	7.27	8	42	220	41	670	1.12	25
BORE WELL OF SHREE SAI ASHA PETROL PUMP(IOC),BHATHA	April-2020	0.91	7.01	11	0.35	51.07	0.56	7.32	8	90	380	64	1910	1.12	29

Annexure-III

Details w.r.t point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept. as on date

Sr.No	River name	Details/Status
1	Tapi	1. Environmental flow: Existing E-Flow is 2039 Cusec in lean period. 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 be 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 are 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.

Annexure-IV

Details w.r.t point no. 5 (xii) given by Forest Dept. /PCCF/ACCF/Social Foresty wing/Concerned as on date

The details received from Social Forestry wing, Aranya Bhavan, Gandhinagar are as under				
Stretch/river	**Existing plantation/vegetation cover details**	**Proposed plan**	**Time limit**	**Remarks**
Tapi	5,10,035 sq.mt	1,50,000 sq.mt	24 months	at Katargam Water Works
Social Forestry wing, Aranya Bhavan has submitted the below details recently				
Tapi River (khadod to surat)	2350 trees (Source:- Social Forestry wing, Aranya Bhavan)	0.35 Lacs plantation to be done in 2020-2021	2020-2021	0.32 Lacs Plantation done in 2019-2020

Annexure-V

Break up of STPs proposed in Tapi Suddhikaran Yojana

Cluster wise details of Tapi Shuddhikaran Project

River	STP name & capacity	Estimated Cost (Rs. In crore)	Present Status	Physical Progress (in %)	Time Line given in the NGT order no. 673/2018 std.06/12/2019	Expected Date of Completion	Remarks (land availability / status of land/other issue)
Tapi	Cluster-1						
	Kamrej- Timba (0.75 mld) GWSSB	70.24	Tender under approval process.	0%	Dec-22	Sep-22	Land available with nim process.
	Kamrej- Sevni (5.18 mld) GWSSB			0%			Land acquisition proposal is with Collector,Surat
	Kamrej- JatBharthana (5.22 mld) GWSSB			0%			Land acquisition proposal is with Collector,Surat
	Kamrej- Maachi (0.16 mld) GWSSB			0%			Land available with nim process.
	Kamrej- Dhatva (0.34 mld) GWSSB			0%			Land acquisition proposal is with Collector,Surat
Tapi	Cluster-2						
	Kamrej- Ghala (1.4 mld) GWSSB	42.15	Tender under approval process.	0%	Dec-22	Sep-22	Land acquisition proposal is with Collector,Surat
	Mandvi- Bodhan Village (1.3 mld) GWSSB			0%			Land available with nim process.
	Mandvi- Khanjroli (0.21 mld) GWSSB			0%			Land acquisition proposal is with Collector,Surat
Tapi	Cluster-3						
	Bardoli- Vaghecha (0.28 mld) GWSSB	43.14	Tender under	0%	Dec-22	Sep-22	Land available with nim process.

	Bardoli- Bhamaiya (0.17 mld) GWSSB		approval process.	0%			Land acquisition proposal is with Collector,Surat
	Bardoli- Mori (0.15 mld) GWSSB			0			Land acquisition proposal is with Collector,Surat
	Mandvi- Tarsada (0.82 mld) GWSSB			0%			Land acquisition proposal is with Collector, Surat.
Tapi	Cluster-4						
	Mandvi- Unn Kosadi (0.29 mld) GWSSB	25.97	Tender under approval process.	0%	Dec-22	Sep-22	Land acquisition proposal is with Collector,Surat
	Mandvi- Puna Gam (0.36 mld) GWSSB			0%			Land acquisition proposal is with Collector,Surat
	Mandvi- Uskhed Khurd (0.11 mld) GWSSB			0%			Common land for both STPs. Land acquisition proposal is with Collector, Surat
	Mandvi- Gamtalav Bujrang (0.34 mld) GWSSB			0%			
	Mandvi- Mandvi (3.50 mld) GWSSB	10.43	Tender is invited & last date is 30/06/2020	0%	Dec-22	Sep-22	Land available & this STP is under SJMMSVY Programme

(Ref Meeting dtd. 24/01/2020 at office of The Chief Secretary) UGD & STP,SPS falling in creek regions

	Cluster-5						
Tapi	Mandvi- Koliwad (0.35 mld) GWSSB	15.41	Technical sanction given in 165th TSC Committee of GWSSB	0%	Dec-22	Dec-22	Primary land proposal with panchayat & further process of Revenue department.
	Mandvi- Ratania(0.31 mld) GWSSB			0%			
	Cluster-6						
Tapi	Mandvi-Vadod (0.21 mld) GWSSB	59.75	Technical sanction given in 165th TSC Committee of GWSSB	0%	Dec - 22	Dec-22	Primary land proposal with panchayat & further process of Revenue department.
	Mandvi- Munjalav(0.67 mld) GWSSB			0%			

	Mandvi- Dharmapur(0.84 mld) GWSSB			0%			
	Mandvi-Nogama(0.46 mld) GWSSB			0%			
	Mandvi-Kolakui(0.26 mld) GWSSB			0%			
	Mandvi-ushker & togapur (0.37 mld) GWSSB						
Tapi	Cluster-7						
Tapi	Mandvi-Kharoli(0.42 mld) GWSSB	54.73	Technical sanction given in 165th TSC Committee of GWSSB	0%	Dec-22	Dec-22	Primary land proposal with panchayat & further process of Revenue department.
	Mandvi-Gavachhi(0.46 mld) GWSSB			0%			
	Mandvi-Kudashi(0.13 mld) GWSSB			0%			
	Mandvi-Naren(0.68 mld) GWSSB			0%			
	Mandvi-Pipariya(0.25 mld) GWSSB			0%			
	Mandvi-Kevadia(0.32 mld) GWSSB			0%			
Tapi	Cluster-8						
	Mandvi-godavadi(1.14 mld) GWSSB	39.26	Technical sanction given in 165th TSC Committee of GWSSB	0%	Dec-22	Dec-22	Primary land proposal with panchayat & further process of Revenue department.
	Mandvi-Kamlapor(0.47 mld) GWSSB			0%			
	Mandvi-Nanadpor(0.52 mld) GWSSB			0%			
	Mandvi-Umarsadi(0.64 mld) GWSSB			0%			
	Cluster-9						

Tapi	Bardoli-Kadod-haripura(3.40 & 0.44 mld) GWSSB	126.0	Technical sanction given in 165th TSC Committee of GWSSB	0%	Dec-22	Dec-22	Primary land proposal with panchayat & further process of Revenue department.
	Bardoli-Jakhala(0.25 mld) GWSSB			0%			
	Bardoli-Miyawadi(0.13 mld) GWSSB			0%			
	Bardoli-Masad(0.63 mld) GWSSB			0%			

Annexure-VI

TWW Policy for Utilization of Sewage:-

- To reduce demand of Ground water extraction and to promote treated waste water as an Economic Resource. Gujarat Government has framed a Policy for Reuse of "Treated Waste Water (TWW)" by maximizing the collection and treatment of sewage generated and reusing the treated wastewater on a sustainable basis under this policy following existing & proposed STPs of PRS action plan is covered. Also, revised action plan regarding utilization of treated wastewater is submitted by Gujarat Water Supply and Sewerage Board (GWSSB) to Chairman, CPCB by letter dated 29.11.2019 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.

Treated wastewater details (Source: - SMC)

Sr.No	Name of STP	Existing				Planning	
		Capacity (MLD)	WW received and treated (MLD)	TWW reused (MLD)	TWW reused by	TWW to be reused (MLD)	TWW to be reused by
1	Bhesan (1995/2009)	100.00	113.08	20.00	Agriculture use	313.00 17.00	Hazira industries (Bhesan Cluster) Utran Gas Based Power Plant, GSECL.
2	Asarama (2011)	15.00	19.23	1.00	Gardening, Road washing, Sewer jetting machine		
3	Variav-Kosad (2012/2017)	134.00	119.64	1.50	Gardening, Road washing, Sewer jetting machine		
4	Bamroli (2008/2019)	100.00	77.90	57.00	Pandesara GIDC, & Gardening use	50.00	Industries in Palsana
5	Bhatar (1999/2014/ 2017)	162.00	165.25	54.00	Industrial & Gardening use		
6	Singanpore (2003/2014)	155.00	147.58	1.50	Gardening, Road washing, Sewer jetting machine		
7	Karanj (1999/2015)	140.00	136.59	2.50	Gardening, Road washing, Sewer jetting machine		
8	Anjana (1995/2007/ 2019)	122.00	88.51	1.50	Gardening, Road washing, Sewer jetting machine		
9	Khajod (2011)	25.00	21.36	5.00	MSW disposal site for processing and closure site.		
10	Dindoli (2012/2020)	167.00	33.39	58.75	Pandesara GIDC, & Gardening use	30.00 0.30	Colour tex Industries Laxmi Vishnu mill

11	Gavier (2016)	53.00	5.37	1.25	Gardening, Road washing, Sewer jetting machine		
12	Kavi Kalapi Garden TTP			0.30	Gardening		
13	Suman Sangini, ParvatPatia			0.38	Grey water for flushing		
14	Sheth Navinchandra Mafatlal Garden, Udhana Zone					1.00	Gardening
15	Sidhdharaj Jaysingh Garden, South west Zone					1.00	Gardening
Total		**1173**	**927.90**	**204.68**		**412.30**	

Wastewater Reuse Details

Sr.No	Purpose	TWW reused (MLD)	TWW to be reused (MLD)
1	Agriculture use	**20**	--
2	Gardening, Road washing, Sewer jetting machine	**9.55**	**2.0**
3	Pandesara GIDC, & Gardening use	**115.75**	--
4	Industrial & Gardening use	**54**	**410.30 (Industrial)**
5	MSW disposal site for processing and closure site.	**05**	--
6	Grey water for flushing	**0.38**	--
	Total (616.98 MLD)	**204.68**	**412.30**

For Tapi:-

- As per the details given by Surat Municipal Corporation, out of 927.90 MLD of wastewater treated, approximate 204.68 MLD of treated wastewater is already being reused for various activities such as gardening, industrial, road washing, sewer jetting etc. whereas approx. 412.30 MLD of treated wastewater reuse is under planning stage for reuse in industries/gardening purpose.

National Mission for Clean Ganga

Monthly Progress Report of PRS Anas (Gujarat State) for August-20

(Hon'ble NGT in the matter of OA No.673/2018 dated 06/12/2019)

Sl.No.	Activity to be monitored	Timeline	Submission of Progress by States/UT-Compliance Status
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2020	As informed by UDD, ULBs were instructed to start In-situ Bioremediation of sewage as per Hon'ble NGT order Dated. 06.12.2019. As per data received, 7 Municipalities including Dahod (Anas), Zalod (Anas)) out of 10 municipalities related to PRS required In-Situ Bioremediation. Consultants were appointed to suggest better technology for In-Situ Bioremediation of sewage. Finalization of the technology to be done for In-Situ Bioremediation and In- Situ remediation will be commenced within two months. As informed by Dahod Nagarpalika, it has initiated works of in-situ remediation for two outfalls of sewage.
	Commencement of setting up of STPS and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2020	**STPs:-** I. 13.70 MLD of STP of Dahod Nagarpalika –Feb-2021 II. 4.60 MLD of STP of Zalod Nagarpalika – Mar 2021 **Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-** As per the revised action plan submitted by Gujarat Water Supply and Sewerage Board (GWSSB) to Chairman, CPCB by letter dated 29.11.2019; one of the objectives of the revised action plan is to **reuse 70% of treated wastewater (Sewage) by 2025 and 100% of treated wastewater (Sewage) by 2030.**
2	Timeline for completing all steps of action plans including completion of setting up of STPs and their commissioning	31.03.2021	
3	Chief Secretaries may set up appropriate monitoring mechanism at State level • Specifying accountability of nodal authorities not below the Secretary Level	22.01.2020	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. 8th RRC meeting was held on 07/08/2020 through video conference. (However, the meetings could not be

	• Chief Secretaries may have an accountable person attached in their office for this purpose. • Monitoring at State level must take place	22.01.2020 Fortnightly commencing 21.12.2019	convened during the first half of the year amid corona virus pandemic) In compliance to the direction of Hon'ble NGT with reference to set up of Monitoring Mechanism, Deputy Environmental Engineer (Shri T.C.Patel) has been deputed vide letter No. મહેકમ / ૭ -40 (14) / 561788 dated 10.06.2020 at Chief Secretary office to look after the Hon'ble NGT matters All NGT matters are being reviewed regualrly under chairmanship of Hon'ble CS (Last meeting was conducted on 03/07/2020) in matter of O.A. No.:-606/2018
4	Progress report may be furnished by the States/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB	Monthly (preferably before 20th of every month)	Noted & Complied
5	Progress Report may be comprised of details along with completion timelines on: (i) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment		Identification of polluting sources including drains contributing to river pollution is already completed and submitted in the PRS action plan. In-situ treatment:- Pl. refer point no:-1
	(ii) <u>Status of STPs, I&D and sewerage networks</u> Details of existing infrastructure, gap analysis, proposed along with completion timeline		**Existing infrastructure:** --- **Gap analysis:** 12 MLD **Proposed :** 18.3 MLD **Completion Timeline :** Mar 2021 **Proposed STPs and present status:-** **Given by RO** I. 13.70 MLD of STP (Dahod Nagarpalika): - work in progress. Time line for completion: Feb-2021 II. 4.60 MLD of STP (Zalod Nagarpalika): - work in progress. Time line for completion: - March-2021

	(iii)	Status of CETPs Details of existing CETP and ETP infrastructure, gap analysis, proposed along with completion timeline, no. of industries and complying status		No Industrial effluent discharge in the identified stretch of River Anas
	(iv)	Status of Solid Waste Management & Details of Processing Facilities Details of existing infrastructure, gap analysis, proposed along with completion timeline		5 (iv) Status is attached as **Annexure – I**
	(v)	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river		5 (v) Status is attached as **Annexure – II**
	(vi)	Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams etc.		**Bio-Medical Waste:-** There are total 364 # of HCUs (Health Care Units) located in the Dahod and Zalod Taluka:- Bio-medical waste of HCUs in Dahod and Zalod Taluka is disposed at Common Bio-medical waste management facility namely Samvedana Biomedical waste Incinerator facility, Plot No. 217/1, Chandrapura Industrial Estate, Halol Dist. Panchmahals. **Industrial Waste:-** In the State, All consented Hazardous waste generating industrial unit are having authorization under Haz. Waste Management Rules, amended time to time & they are disposing their waste to TSDF/CHWIF/registered recycler under Rule-9/Co-processing and as per consented conditions
	(vii)	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" in the meeting held on 04/02/2020 at GPCB with PRS Assessment Team nominated by Ministry of Jal Shakti which is in process and to be submitted to the

			Assembly **<u>Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-</u>** To reduce demand of Ground water extraction and to promote treated waste water as an Economic Resource, Gujarat Government has framed Policy for Reuse of "Treated Waste Water (TWW)" by maximizing the collection and treatment of sewage generated and reusing the treated wastewater on a sustainable basis. Also, revised action plan regarding utilization of treated wastewater is submitted by Gujarat Water Supply and Sewerage Board (GWSSB) to Chairman, CPCB by letter dated 29.11.2019 where one of the objectives of the revised action plan is to **reuse 70% of treated wastewater (Sewage) by 2025 and 100% of treated wastewater (Sewage) by 2030.**
	(viii) Adopting good irrigation practices		Details w.r.to point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept./ Water Resource Dept., NWR WS & KD as on date is attached as **Annexure – III**
	(ix) Protection and management of Flood Plain Zones (FPZ)		
	(x) Rain water harvesting		
	(xi) Maintaining minimum environmental flow of river		
	(xii) Plantation on both sides of the river		Details w.r.to point no. 5 (xii) given by Forest Dept. /PCCF/ACCF/Social Forestry wing/Concerned, as on date is attached as **Annexure – IV.**
	(xiii) Setting up biodiversity parks on flood plains by removing encroachment		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.

Annexure- I

5 (iv) Status of Solid Waste Management & Details of Processing Facilities:

Types of Waste/ Characteristic of waste	Generated Quantity / Day (MT/Day)	Collection/ Storage facility with capacity	Disposal/ Treatment facility with capacity along with location	Total Gap with generation & existing treatment facilities if any	Proposed action plan / facility to cover gap	Time limit	Remarks
Municipal Solid Waste (Dahod)	50	Collection System and Dumping site provided	--	At present there is no solid waste treatment facility. 50 MT/Day	MSW Processing Facility of 60 MT/day capacity is proposed at S.No. 315/P, Vill. Pushari Project Cost of Rs. 52.76 Crore with Capex and Opex for five years.	Feb 2020 (as submitted by Municipality)	Proposed project of Solid Waste processing is at Tender Process Stage. MRF & Processing facility made operational at Dahod Nagarpalika
Municipal Solid Waste (Zhalod)	10	Collection system and Dumping Site provided.	--	At present there is no solid waste treatment facility. 10 MT/Day	MSW Processing Facility of 1000 kg/hr (about 20 MT/day) is proposed with Project cost of Rs. 1.91 Crores at S.No. 784/1. At Vill.Kakradungra,	August 2020 (as submitted by Municipality)	Proposed project of Solid Waste processing is at DPR Stage. MRF facility made operational at Jhalod Nagarpalika
Total	**60**	--	--		**80 MT/day**	--	--

Annexure-II

Progress/Status Report of the River/PRS water quality Monitoring (August– 2020):

Sampling Point	BOD	COD	DO	FCO	pH	TCO	TDS
River Anas at Limadi (Zalod) - Kushalgadh Road, Vill. Chakaliya, Dist. Dahod.	0.7	6	7.5	06	8.34	31	204

Note: Does not fall in any Priority as per June-2020 MPR & as per August 2020 MPR

Annexure-II (A) STPs Results

NA , There are no existing / operational STP in the region. STPs for Dahod and Zalod Nagarpalikas are under construction, as stated above.

Annexure-II(B) 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	--	--

Annexure-II (C) CETPs Results

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

Annexure-II (D)

Progress /Status Report for Ground water quality monitoring pertaining to PRS River (August– 2020):

Sampling Point	BOD	COD	DO	FCO	pH	TCO	TDS
Hand Pump Opp. M/S Star Rediator, Chakaliya Road, Gidc, Dahod, Dist. Dahod	0.50	9	3.2	<2	8.38	<2	1480
Well At Hindu Dharamashala, Station Road, Dahod	0.60	10	5.3	<2	7.93	<2	563

Annexure-III

Details w.r.t point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept./WRD as on date

Sr.No	River name	Details/Status
1	Anas	1. Environmental flow: 735 MCM, Anas is not a perennial river. However, considering the period in between December to May next year as a lean season, average lean seasonal flow work out to be 500 to 600 cusecs. Due to existing hydropower at Mahi bajaj Hydroelectric Project. This all existing water (Including lean season water) come in Mahi-River. 2. Detail of Good irrigation Practices: NA 3. Detail on Flood Plain Management Zone: NA

Annexure-IV

Details w.r.t point no. 5 (xii) given by Forest Dept. /PCCF/ACCF/Social Forestry Wing/Concerned as on date

Stretch/river	Existing plantation/vegetation cover details	Proposed plan	Time limit	Remarks
Anas	Existing vegetation covered by Propopis juliflora & caparis aphylla, other shrubs.	0.05 lacs plantation to be done in 2020-2021	2020-21	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

National Mission for Clean Ganga

Monthly Progress Report of PRS Baleshwar Khadi (Gujarat State) for August-20

(Hon'ble NGT in the matter of OA No.673/2018 dated 06/12/2019)

Sl.No.	Activity to be monitored	Timeline	Submission of Progress by States/UT-Compliance Status
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2020	No action plan submitted by PRH & RDD.
	Commencement of setting up of STPS and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2020	PRH & RDD was informed to submit the action plan for the sewage generated from the villages (Baleshwar, Samrod & nearby)
2	Timeline for completing all steps of action plans including completion of setting up of STPs and their commissioning	31.03.2021	• PRH & RDD was informed to submit the action plan for the sewage generated from the villages (Baleshwar, Samrod & nearby) • Up gradation of GETPL-2021 **Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-** As per the revised action plan submitted by Gujarat Water Supply and Sewerage Board (GWSSB) to Chairman, CPCB by letter dated 29.11.2019; one of the objectives of the revised action plan is to **reuse 70% of treated wastewater (Sewage) by 2025 and 100% of treated wastewater (Sewage) by 2030.**
3	Chief Secretaries may set up appropriate monitoring mechanism at State level • Specifying accountability of nodal authorities not below the Secretary Level • Chief Secretaries may have an accountable person attached in their office for this purpose. • Monitoring at State level must take place	22.01.2020 22.01.2020 Fortnightly commencing 21.12.2019	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. 8th RRC meeting was held on 07/08/2020 through video conference. (However, the meetings could not be convened during the first half of the year amid corona virus pandemic) In compliance to the direction of Hon'ble NGT with reference to set up of Monitoring Mechanism, Deputy Environmental Engineer (Shri T.C.Patel) has been deputed vide letter No. મહેકમ / જી -40 (14) / 561788 dated 10.06.2020 at Chief Secretary office to look after the Hon'ble NGT matters All NGT matters are being reviewed regualrly

			under chairmanship of Hon'ble CS (Last meeting was conducted on 03/07/2020) in matter of O.A. No.:- 606/2018
4	Progress report may be furnished by the States/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB	Monthly (preferably before 20th of every month)	Noted & Complied
5	Progress Report may be comprised of details along with completion timelines on: (i) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment		Identification of polluting sources including drains contributing to river pollution is already completed and submitted in the PRS action plan. In-situ treatment:- Pl. refer point no:-1
	(ii) <u>Status of STPs, I&D and sewerage networks</u> Details of existing infrastructure, gap analysis, proposed along with completion timeline		**Existing infrastructure:** --- **Gap analysis:** 9 MLD **Proposed :** --- **Completion Timeline :** --- PRH & RDD was informed to submit the action plan for the sewage generated from the villages (Baleshwar, Samrod & nearby-9 MLD)
	(iii) <u>Status of CETPs</u> Details of existing CETP and ETP infrastructure, gap analysis, proposed along with completion timeline, no. of industries and complying status		**No. of industries:** - Industrial Estate Gujarat Eco Textile Park and Industries located near Palsana village with total 80 Nos. of industries. All the industries are CETP members having primary ETP facility. **Existing CETPs:-** There are two CETPs namely- Gujarat Eco Textile Park Ltd (GETPL), Palsana and New Palsana Industrial Co-op Society Ltd, Palsana having GPCB permission for final discharge of treated effluent -105 MLD **Proposed CETP Modification/Upgradation:-** Gujarat Eco Textile Park Ltd.(GETPL), Palsana (60 MLD) - has obtained CTE Amendment for zero liquid discharge as the treated waste water will be recycled by member units. New installations of Sedimentation tank, Casket cooling system, Disk flotation, Ultrafiltration and RO plant are proposed for upgradation and recycle of treated waste water by member units.

			Present Status- Land levelling & Compound wall / Gabion wall under Progress. Expected to be completed by 2021
	(iv) <u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of existing infrastructure, gap analysis, proposed along with completion timeline		Letter has been issued to Panchayat, Rural Housing & Rural Development Department by GPCB, Head office-Gandhinagar to submit the action plan of solid waste management
	(v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river		5 (v) Status is attached as **Annexure – I**
	(vi) Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams etc.		**Bio-Medical Waste: -** There are total 45 # of HCUs (Health Care Units) located in the Ankleshwar taluka, treatment & disposal of the Bio Medical Waste, generated from the health care units, is being taken care of by a Common Bio-medical Waste Treatment Facility M/s, Globe Bio Care located in GIDC Ankleshwar. **Industrial Waste: -** All consented Hazardous waste generating industrial units in the State are having authorization under Haz. Waste Management Rules, amended from time to time & they are disposing their waste to TSDF/CHWIF/registered recycler under Rule-9/Co-processing and as per consented conditions
	(vii) 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" in the meeting held on 04/02/2020 at GPCB with PRS Assessment Team nominated by Ministry of Jal Shakti which is in process and to be submitted to the Assembly **<u>Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-</u>** To reduce demand of Ground water extraction and to promote treated waste water as an Economic Resource, Gujarat Government has

			framed Policy for Reuse of "Treated Waste Water (TWW)" by maximizing the collection and treatment of sewage generated and reusing the treated wastewater on a sustainable basis. Also, revised action plan regarding utilization of treated wastewater is submitted by Gujarat Water Supply and Sewerage Board (GWSSB) to Chairman, CPCB by letter dated 29.11.2019 where one of the objectives of the revised action plan is to **reuse 70% of treated wastewater (Sewage) by 2025 and 100% of treated wastewater (Sewage) by 2030.**
	(viii) Adopting good irrigation practices		Details w.r.to point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept./ Water Resource Dept., NWR WS & KD as on date is attached as **Annexure – II**
	(ix) Protection and management of Flood Plain Zones (FPZ)		
	(x) Rain water harvesting		
	(xi) Maintaining minimum environmental flow of river		
	(xii) Plantation on both sides of the river		Details w.r.to point no. 5 (xii) given by Forest Dept. /PCCF/ACCF/Social Forestry wing/ Concerned, as on date is attached as **Annexure – III**
	(xiii) Setting up biodiversity parks on flood plains by removing encroachment		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 in 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.

Annexure-I

5 (v) Progress/Status Report of the River/PRS water quality Monitoring (August -2020)

Note:- Does not fall in any Priority as per MPR for months of June-2020, July – 2020 and August – 2020.

Date	Location	DO (mg/l)	pH	BOD (mg/l)	COD (mg/l)	Fecal Coliform (MPN/100 ml)	Total coliform (MPN/100 ml)
05-08-2020	Baleshwar Khadi	6.9	7.66	1.8	5	22	170

Annexure-I (a) STP results

No existing STPs into this River stretches – Existing STPs details - NA

Annexure-I (b) Drain details

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

Annexure-I (c) Details of existing CETPs result

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)
18-08-2020	Cetp Of Gujarat Eco Textile Park Ltd	7.37	24	210	2.4	40	2.8	0.29
17-08-2020	Cetp Of New Palsana Industrial Co-Op. Society Ltd.	8.05	22	134	5.2	46	1.12	0.59
Discharge Norms		6.5 to 8.5	30	250	10	60	50	1

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

Annexure-I (d) Progress/Status Report of the River/PRS ground water quality Monitoring:

Location:- BOREWELL AT 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
06/04/2020	320	0.91	0.04	210	1458	10	10	5.922	11	43.77	0.84	0.040	0.072	7.35	0.045	2.9	120.4	6	102	410	39	910	1.12	29

Location:- BOREWELL AT PRIMARY HEALTH CENTER(PHC)

Date	ALK	BOD	BOR	CHL	CND	COD	COL	DOX	FCO	FLU	MAG	NH3	NIT	NTR	pH	PHO	POT	SOD	SS	SUP	T.H	TCO	TDS	TKN
06/04/2020	170	0.99	0.035	380	2280	09	10	5.92	6	0.24	38.91	0.28	0.026	0.063	7.22	0.042	3.9	207.1	100	90	340	41	1300	1.12

Annexure-II

Details w.r.t point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept. as on date

Sr.No	River name	Details/Status
1	Baleshwar Khadi	1. Environmental flow: NA 2. Detail of Good irrigation Practices: NA 3. Detail on Flood Plain Management Zone: NA

Annexure-III

Details w.r.t point no. 5 (xii) given by Forest Dept. /PCCF/ACCF/Concerned as on date

The details received from Social Forestry wing, Aranya Bhavan, Gandhinagar are as under				
Stretch/river	**Existing plantation/vegetation cover details**	**Proposed plan**	**Time limit**	**Remarks**
Baleshwar Khadi (Pandesara to kapletha)	1430 trees	0.02 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

National Mission for Clean Ganga
Monthly Progress Report of PRS Kim (Gujarat State) for August-20
(Hon'ble NGT in the matter of OA No.673/2018 dated 06/12/2019)

Sl.No.	Activity to be monitored	Timeline	Submission of Progress by States/UT-Compliance Status
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2020	No action plan submitted by PRH & RDD.
	Commencement of setting up of STPS and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2020	PRH & RDD was informed to submit the action plan for the sewage generated from the villages Sahol & Kim having discharge 10 MLD
2	Timeline for completing all steps of action plans including completion of setting up of STPs and their commissioning	31.03.2021	**Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-** As per the revised action plan submitted by Gujarat Water Supply and Sewerage Board (GWSSB) to Chairman, CPCB by letter dated 29.11.2019; one of the objectives of the revised action plan is to **reuse 70% of treated wastewater (Sewage) by 2025 and 100% of treated wastewater (Sewage) by 2030.**
3	Chief Secretaries may set up appropriate monitoring mechanism at State level • Specifying accountability of nodal authorities not below the Secretary Level • Chief Secretaries may have an accountable person attached in their office for this purpose. • Monitoring at State level must take place	22.01.2020 22.01.2020 Fortnightly commencing 21.12.2019	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. 8th RRC meeting was held on 07/08/2020 through video conference. (However, the meetings could not be convened during the first half of the year amid corona virus pandemic) In compliance to the direction of Hon'ble NGT with reference to set up of Monitoring Mechanism, Deputy Environmental Engineer (Shri T.C.Patel) has been deputed vide letter No. મહેકમ / જી -40 (14) / 561788 dated 10.06.2020 at Chief Secretary office to look after the Hon'ble NGT matters

			All NGT matters are being reviewed regualrly under chairmanship of Hon'ble CS (Last meeting was conducted on 03/07/2020) in matter of O.A. No.:- 606/2018
4	Progress report may be furnished by the States/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB	Monthly (preferably before 20th of every month)	Noted & Complied
5	Progress Report may be comprised of details along with completion timelines on: (i) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment		Identification of polluting sources including drains contributing to river pollution is already completed and submitted in the PRS action plan. In-situ treatment:- Pl. refer point no:-1
	(ii) <u>Status of STPs, I&D and sewerage networks</u> Details of existing infrastructure, gap analysis, proposed along with completion timeline		**Existing infrastructure:** -- **Gap analysis:** 10 MLD **Proposed :** -- **Completion Timeline :** -- PRH & RDD was informed to submit the action plan for the sewage generated from the villages (Sahol & Kim-10 MLD)
	(iii) <u>Status of CETPs</u> Details of existing CETP and ETP infrastructure, gap analysis, proposed along with completion timeline, no. of industries and complying status		No Industrial wastewater discharge into this river stretch
	(iv) <u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of existing infrastructure, gap analysis, proposed along with completion timeline		• Letter is issued from ACS, F & ED, GoG to PRH & RDD, GoG for proper discharge & disposal of sewage /solid waste & its management.
	(v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river		5 (v) Status is attached as **Annexure – I**

	(vi) Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams etc.		**Bio-Medical Waste: -** There are total 30 # of HCUs (Health Care Units) located in the Ankleshwar taluka, treatment & disposal of the Bio Medical Waste, generated from the health care units, is being taken care of by a Common Bio-medical Waste Treatment Facility M/s, Globe Bio Care located in GIDC Ankleshwar. **Industrial Waste: -** All consented Hazardous waste generating industrial units in the State are having authorization under Haz. Waste Management Rules, amended from time to time & they are disposing their waste to TSDF/CHWIF/registered recycler under Rule-9/Co-processing and as per consented conditions
	(vii) 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" in the meeting held on 04/02/2020 at GPCB with PRS Assessment Team nominated by Ministry of Jal Shakti which is in process and to be submitted to the Assembly. **<u>Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-</u>** To reduce demand of Ground water extraction and to promote treated waste water as an Economic Resource, Gujarat Government has framed Policy for Reuse of "Treated Waste Water (TWW)" by maximizing the collection and treatment of sewage generated and reusing the treated wastewater on a sustainable basis. Also, revised action plan regarding utilization of treated wastewater is submitted by Gujarat Water Supply and Sewerage Board (GWSSB) to Chairman, CPCB by letter dated 29.11.2019 where one of the objectives of the revised action plan is to **reuse 70% of treated wastewater (Sewage) by 2025 and 100%**

			of treated wastewater (Sewage) by 2030.
	(viii) Adopting good irrigation practices		Details w.r.to point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept./ Water Resource Dept., NWR WS & KD as on date is attached as **Annexure – II**
	(ix) Protection and management of Flood Plain Zones (FPZ)		
	(x) Rain water harvesting		
	(xi) Maintaining minimum environmental flow of river		
	(xii) Plantation on both sides of the river		Details w.r.to point no. 5 (xii) given by Forest Dept. /PCCF/ACCF/Social Forestry wing/Concerned, as on date is attached as **Annexure – III**
	(xiii) Setting up biodiversity parks on flood plains by removing encroachment		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 in 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.

Annexure-I

5 (v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river

Progress/Status Report of the River/PRS water quality Monitoring (August-2020):
Note:- Does not fall in any priority as per the MPRs for the months of May – 2020, June – 2020 & July – 2020.

Date	Location	DO (mg/l)	pH	BOD (mg/l)	COD (mg/l)	Fecal Coliform (MPN/100 ml)	Total coliform (MPN/100 ml)
06-08-2020	Sahol Bridge	6.8	7.59	0.8	9	11	59

Annexure-II (A) STP Results:

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

Annexure-II (B) Drain 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

Annexure-II(C) CETP Details

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

Annexure-II(d) Progress/Status Report of the River/PRS ground water quality Monitoring:

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
07/04/2020	47	320	0.82	661.32	10	15720	7.09	0.35	364.8	0.56	0.047	0.072	7.59	0.048	34.5	1306	8	888	3150	39	9130	1.12	29	2.0

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
07/04/2020	390	0.89	0.04	690	3595	09	10	5.93	6	0.55	58.37	0.84	0.048	0.077	7.55	0.043	3.4	413	8	210	450	41	2610	1.12	26	3.0

Location:- BOREWELL AT NEELAM FIBER KIM IND AREA PLOT-202

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
07/04/2020	390	0.81	0.04	512	3595	10	84.17	7.09	9	0.55	58.37	0.56	0.048	0.077	7.48	0.043	3.4	323.7	8	190	450	53	2080	1.12	26	3.0

Annexure-III

Details w.r.t point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept./WRD as on date

Sr.No	River name	Details/Status
1	Kim	1. Environmental flow: NA 2. Detail of Good Irrigation Practices: NA 3. Detail on Flood Plain Management Zone: As far as Kim river is concerned, 13 villages of Bharuch District are identified which may be 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.

Annexure-IV

Details w.r.t point no. 5 (xii) given by Forest Dept. /PCCF/ACCF/Social Forestry wing/Concerned as on date

The details received from Social Forestry wing, Aranya Bhavan, Gandhinagar are as under				
Stretch/river	**Existing plantation/vegetation cover details**	**Proposed plan to cover remaining gap along river/river stretch**	**Time limit**	**Remarks**
Kim (Sahol Bridge to Hansol)	370 trees	0.02 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

National Mission for Clean Ganga

Monthly Progress Report of PRS Meshwo (Gujarat State) for August-2020

(Hon'ble NGT in the matter of OA No.673/2018 dated 06/12/2019)

Sl.No.	Activity to be monitored	Timeline	Submission of Progress by States/UT-Compliance Status
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2020	There is no sewage discharge in the stretch of Meshwo at Shamalaji.
	Commencement of setting up of STPS and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2020	
2	Timeline for completing all steps of action plans including completion of setting up of STPs and their commissioning	31.03.2021	
3	Chief Secretaries may set up appropriate monitoring mechanism at State level • Specifying accountability of nodal authorities not below the Secretary Level • Chief Secretaries may have an accountable person attached in their office for this purpose. • Monitoring at State level must take place	22.01.2020 22.01.2020 Fortnightly commencing 21.12.2019	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. 8th RRC meeting was held on 07/08/2020 through video conference. (However, the meetings could not be convened during the first half of the year amid corona virus pandemic) In compliance to the direction of Hon'ble NGT with reference to set up of Monitoring Mechanism, Deputy Environmental Engineer (Shri T.C.Patel) has been deputed vide letter No. મહેકમ / જી -40 (14) / 561788 dated 10.06.2020 at Chief Secretary office to look after the Hon'ble NGT matters All NGT matters are being reviewed regualrly under chairmanship of Hon'ble CS (Last meeting was conducted on 03/07/2020) in matter of O.A. No.:-606/2018
4	Progress report may be furnished by the States/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB	Monthly (preferably before 20th of every month)	Noted & Complied

5	Progress Report may be comprised of details along with completion timelines on: (i) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment		There are no polluting sources in the stretch of Meshvo at Shamalaji. The polluted stretch is required to be deleted from the list of polluted river stretches in the state
	(ii) Status of STPs, I&D and sewerage networks Details of existing infrastructure, gap analysis, proposed along with completion timeline		No sewage is discharged in to polluted river stretch
	(iii) Status of CETPs Details of existing CETP and ETP infrastructure, gap analysis, proposed along with completion timeline, no. of industries and complying status		There is no Industrial wastewater discharge into this river stretch
	(iv) Status of Solid Waste Management & Details of Processing Facilities Details of existing infrastructure, gap analysis, proposed along with completion timeline		NA
	(v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river		5 (v) Status is attached as **Annexure – I**
	(vi) Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams etc.		**Bio-Medical Waste:-** There are total 970 # of HCUs (Health Care Units) located in the Himmatnagar, treatment & disposal of Bio Medical Waste of which is being taken care of by a common facility Ecoli waste management pvt. Ltd (unit-2) located at Plot no-98,99,100 Sabar industrial park, opp. Asopalav Hotel, Himmatnagar- Shamlaji road, Asal, Ta. Bhiloda, Dist. Aravalli. **Industrial Waste:-** In the State, All consented Hazardous waste generating industrial unit are having authorization under Haz. Waste Management Rules, amended time to

			time & they are disposing their waste to TSDF/CHWIF/registered recycler under Rule-9/Co-processing and as per consented conditions
	(vii) 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" in the meeting held on 04/02/2020 at GPCB with PRS Assessment Team nominated by Ministry of Jal Shakti which is in process and within 3 months to be submitted to the Assembly.
	(viii) Adopting good irrigation practices		Details w.r.to point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept./ Water Resource Dept., NWR WS & KD as on date is attached as **Annexure – II**
	(ix) Protection and management of Flood Plain Zones (FPZ)		
	(x) Rain water harvesting		
	(xi) Maintaining minimum environmental flow of river		
	(xii) Plantation on both sides of the river		Details w.r.to point no. 5 (xii) given by Forest Dept. /PCCF/ACCF/Social Forestry wing/Concerned, as on date is attached as **Annexure – III**
	(xiii) Setting up biodiversity parks on flood plains by removing encroachment		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.

Annexure- I

5 (v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river

Progress/Status Report of the River/PRS water quality Monitoring:

Date	Location	DO (mg/l)	pH	BOD (mg/l)	COD (mg/l)	Fecal Coliform (MPN/100 ml)	Total coliform (MPN/100 ml)
August-2020	River Meshwo D/s at Shamlaji	River is dry hence sample is not collected					

Annexure- I(a) STP Results

Not Applicable

Annexure- I(b) Drain Details

Not Applicable

Annexure- I(c) CETP Results

Not Applicable

Annexure- I(d) Progress/Status Report of the ground water quality Monitoring:

Date	Location	pH	BOD (mg/l)	COD (mg/l)	TDS (mg/l)
4th August-2020	Borewell from Shamlaji Dharamshala	7.79	1.9	08	514

Annexure-II

Details w.r.t point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept./WRD as on date

Sr.No	River name	Details/Status
1	Meshwo	**1**. Environmental flow: 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 minimize 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 these villages are warned through early warning arrangements in consultation with revenue department.

Annexure-III

Details w.r.t point no. 5 (xii) given by Forest Dept. /PCCF/ACCF/Social Forestry wing/Concerned as on date

Stretch/river	**Existing plantation/vegetation cover details**	**Proposed plan**	**Time limit**	**Remarks**
Meshwo River bank of River Shamlaji	Sparse Natural Vegetation of Propopis juliflora & other shrubs and climbers	0.40 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

National Mission for Clean Ganga

Monthly Progress Report of PRS Mindhola (Gujarat State) for August-20

(Hon'ble NGT in the matter of OA No.673/2018 dated 06/12/2019)

Sl.No.	Activity to be monitored	Timeline	Submission of Progress by States/UT-Compliance Status
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2020	Proposal not received from concerned authority for in-situ remediation
	Commencement of setting up of STPS and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2020	**STPs:-** STP of 4 MLD (2+2 MLD) proposed by Sachin Notified Area Authority –2020 (asked to submit the revised timeline)
2	Timeline for completing all steps of action plans including completion of setting up of STPs and their commissioning	31.03.2021	**Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-** As per the revised action plan submitted by Gujarat Water Supply and Sewerage Board (GWSSB) to Chairman, CPCB by letter dated 29.11.2019; one of the objectives of the revised action plan is to **reuse 70% of treated wastewater (Sewage) by 2025 and 100% of treated wastewater (Sewage) by 2030.**
3	Chief Secretaries may set up appropriate monitoring mechanism at State level • Specifying accountability of nodal authorities not below the Secretary Level	22.01.2020	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. 8th RRC meeting was held on 07/08/2020 through video conference. (However, the meetings could not be convened during the first half of the year amid corona virus pandemic) In compliance to the direction of Hon'ble NGT with reference to set up of Monitoring Mechanism, Deputy Environmental Engineer (Shri T.C.Patel) has been deputed vide letter No. મહેકમ / ૭ -40 (14) / 561788 dated 10.06.2020 at Chief Secretary office to look after the Hon'ble NGT matters
	• Chief Secretaries may have an accountable person attached in their office for this purpose.	22.01.2020	
	• Monitoring at State level must take place	Fortnightly commencing 21.12.2019	

			All NGT matters are being reviewed regualrly under chairmanship of Hon'ble CS (Last meeting was conducted on 03/07/2020) in matter of O.A. No.:- 606/2018
4	Progress report may be furnished by the States/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB	Monthly (preferably before 20th of every month)	Noted & to be Complied
5	Progress Report may be comprised of details along with completion timelines on: (i) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment		Identification of polluting sources including drains contributing to river pollution is already completed and submitted in the PRS action plan. In-situ treatment:- Pl. refer point no:-1
	(ii) <u>Status of STPs, I&D and sewerage networks</u> Details of existing infrastructure, gap analysis, proposed along with completion timeline		**Existing infrastructure:** -- **Gap analysis:** 1.6 MLD **Proposed :** 04 MLD **Completion Timeline :** 2020 (asked to submit the revised timeline) **Proposed STP:-** STP of 4 MLD capacity is proposed by Sachin Notified Area Authority. DTR is ready. Allotment of land is under approval in GIDC.
	(iii) <u>Status of CETPs</u> Details of existing CETP and ETP infrastructure, gap analysis, proposed along with completion timeline, no. of industries and complying status		No Industrial wastewater discharge into this river stretch
	(iv) <u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of existing infrastructure, gap analysis, proposed along with completion timeline		5 (iv) Status is attached as **Annexure – I**

	(v)	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river		5 (v) Status is attached as **Annexure – II**
	(vi)	Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams etc.		**Bio-Medical Waste: -** There are total 30 # of HCUs (Health Care Units) located in the Ankleshwar taluka, treatment & disposal of the Bio Medical Waste, generated from the health care units, is being taken care of by a Common Bio-medical Waste Treatment Facility M/s, Globe Bio Care located in GIDC Ankleshwar. **Industrial Waste: -** All consented Hazardous waste generating industrial units in the State are having authorization under Haz. Waste Management Rules, amended from time to time & they are disposing their waste to TSDF/CHWIF/registered recycler under Rule-9/Co-processing and as per consented conditions
	(vii)	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" in the meeting held on 04/02/2020 at GPCB with PRS Assessment Team nominated by Ministry of Jal Shakti which is in process and to be submitted to the Assembly. **Utilization of treated wastewater (Sewage) Policy for the Gujarat State:-** To reduce demand of Ground water extraction and to promote treated waste water as an Economic Resource, Gujarat Government has framed Policy for Reuse of "Treated Waste Water (TWW)" by maximizing the collection and treatment of sewage generated and reusing the treated wastewater on a sustainable basis. Also, revised action plan regarding utilization of treated wastewater is submitted by Gujarat Water Supply and

			Sewerage Board (GWSSB) to Chairman, CPCB by letter dated 29.11.2019 where one of the objectives of the revised action plan is to **reuse 70% of treated wastewater (Sewage) by 2025 and 100% of treated wastewater (Sewage) by 2030.**
	(viii) Adopting good irrigation practices		Details w.r.to point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept./ Water Resource Dept., NWR WS & KD as on date is attached as **Annexure – III**
	(ix) Protection and management of Flood Plain Zones (FPZ)		
	(x) Rain water harvesting		
	(xi) Maintaining minimum environmental flow of river		
	(xii) Plantation on both sides of the river		Details w.r.to point no. 5 (xii) given by Forest Dept. /PCCF/ACCF/Social Forestry wing/Concerned, as on date is attached as **Annexure – IV**
	(xiii) Setting up biodiversity parks on flood plains by removing encroachment		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 in 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.

Annexure-I

5 (iv) Status of Solid Waste Management & Details of Processing Facilities

Type of waste/ Characteristic of waste	**Generated quantity/ day**	**Collection/ Storage facility with capacity**	**Disposal/Treatment facility with capacity along with location**	**Total Gap with generation &existing treatment facilities if any**	**Proposed action plan/facility to cover gap**	**Time limit**	**Present Status**
Solid waste	10		Authorized Agencies/end users/recyclers	10	DPR is under processes	Year 2020	Sachin Notified Area Authority has requested for land allotment required for development of municipal solid waste disposal site in their Head Office. After receiving necessary approval they will proceed for further development.
Total	**10**			**10**			

Annexure-II

5 (v) Progress/Status Report of the River/PRS water quality Monitoring:

Note:- Does not fall in any priority as per the MPRs for the months of May – 2020, June – 2020, July – 2020 and August 2020.

Date	Location	DO (mg/l)	pH	BOD (mg/l)	COD (mg/l)	Fecal Coliform (MPN/100 ml)	Total coliform (MPN/100 ml)
05-08-2020	River Mindhola	6.3	7.95	1.5	9	4	26

Annexure-II (A)

No Sewage Treatment Plat in this River stretches – Existing STP details - NA

Annexure-II (B) Drain details with flow:

Sr.No.	Location	Name of Inletting River/Drain	Discharge	
			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.

Annexure-II (C) CETP Details

Existing CETPs details - NA . No Industrial waste water discharge into this River stretches

Annexure-II (d) Progress/Status Report of the River/PRS ground water quality Monitoring:

Location: - BOREWELL AT SACHIN GIDC (SIEL)

Date	% NA	A LK	B O D	CAL	CH L	CN D	C O D	C O L	D O X	F D S	FL U	MA G	N AA	N H3	NT R	p H	PH O	P O T	SO D	S S	S UP	T. H	TC O	TD S	TK N	T MP	T UR
05/04/ 2020	38	44 0	0. 9	609. 22	18 12	106 30	10	10	7. 02	-	0. 28	221. 31	6. 04	0. 84	0.0 84	7. 28	0.0 38	6. 7	68 1.2	8	58 7	24 30	41	62 70	1. 4	29	3. 0

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

Date	%N A	AL K	BO D	CAL	C HL	CN D	CO D	C OL	DO X	FD S	FL U	MA G	N H3	NT R	pH	PH O	PO T	SO D	S S	SU P	T.H	TC O	TD S	TK N	T MP	TU R
05/04/2 020	53	28 0	1.0 9	288. 58	71 0	44 46	12	15	4.9 3	-	0. 28	97. 28	1.1 2	0.0 57	7. 40	0.0 45	4. 2	577 .8	8	28 2	11 20	53	24 90	1. 68	29	3. 0

Location : - OPEN WELL AT GABHENI OPP: PANCHYAT OFFICE

Date	%N A	AL K	BO D	CAL	C HL	CN D	CO D	C OL	DO X	FD S	FL U	MA G	N H3	NT R	pH	PH O	PO T	SO D	S S	SU P	T. H	TC O	TD S	TK N	T MP	TU R
05/04/2 020	18	38 0	0.8 7	136. 27	43 2	27 41	08	10	7.0 5	-	0.1 6	97. 28	0.5 6	0.0 61	7.1 2	0.0 31	2.1 5	72. 12	1 0	11 7	74 0	39	15 10	1.1 2	30	2. 0

Annexure-III

Details w.r.t point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept./WRD as on date

Sr.No	River name	Details/Status
1	Mindhola	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 no water logging issues noticed so far in the command area of Ukai-Kakrapar project. 2. Detail on Flood Plain Management Zone: NA.

Annexure-IV

Details w.r.t point no. 5 (xii) given by Forest Dept. /PCCF/ACCF/Social Forestry Wing/Concerned as on date

The details received from Social Forestry wing, Aranya Bhavan, Gandhinagar are as under				
Stretch/river	**Existing plantation/vegetation cover details**	**Proposed plan**	**Time limit**	**Remarks**
Mindhola (Along sachin)	1250 trees	0.05 lakh plants	2020-21	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

National Mission for Clean Ganga
Monthly Progress Report of PRS Narmada (Gujarat State) for August-2020
(Hon'ble NGT in the matter of OA No.673/2018 dated 06/12/2019)

Sl.No.	Activity to be monitored	Timeline	Submission of Progress by States/UT-Compliance Status
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2020	Presently there is no any proposal for in-situ remediation. However, as per the suggestion given by Assessment team during meeting held on 04/02/2020, NEERI, UP Govt., Punjab Gov. etc may be approached by UDD/GUDM/Concerned for technical support in the matter
	Commencement of setting up of STPS and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2020	There is no discharge of domestic wastewater from any Municipal Corporation (city) or Municipality (town) in this river stretch.
2	Timeline for completing all steps of action plans including completion of setting up of STPs and their commissioning	31.03.2021	
3	Chief Secretaries may set up appropriate monitoring mechanism at State level • Specifying accountability of nodal authorities not below the Secretary Level • Chief Secretaries may have an accountable person attached in their office for this purpose. • Monitoring at State level must take place	22.01.2020 22.01.2020 Fortnightly commencing 21.12.2019	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. 8th RRC meeting was held on 07/08/2020 through video conference. (However, the meetings could not be convened during the first half of the year amid coronavirus pandemic) In compliance to the direction of Hon'ble NGT with reference to set up of Monitoring Mechanism, Deputy Environmental Engineer (Shri T.C.Patel) has been deputed vide letter No. મહેકમ / જી -40 (14) / 561788 dated 10.06.2020 at Chief Secretary office to look after the Hon'ble NGT matters All NGT matters are being reviewed regualrly under chairmanship of Hon'ble CS (Last meeting was conducted on 10/09/2020) in matter of O.A. No.:-

			606/2018
4	Progress report may be furnished by the States/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB	Monthly (preferably before 20th of every month)	Noted & to be Complied
5	Progress Report may be comprised of details along with completion timelines on: (i) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment		Identification of polluting sources including drains contributing to river pollution is already completed and submitted in the PRS action plan. In-situ treatment:- Pl. refer point no:-1
	(ii) <u>Status of STPs, I&D and sewerage networks</u> Details of existing infrastructure, gap analysis, proposed along with completion timeline		There is no discharge of domestic wastewater from any Municipal Corporation (city) or Municipality (town) in this river stretch.
	(iii) <u>Status of CETPs</u> Details of existing CETP and ETP infrastructure, gap analysis, proposed along with completion timeline, no. of industries and complying status		No Industrial wastewater discharge into this river stretch
	(iv) <u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of existing infrastructure, gap analysis, proposed along with completion timeline		5 (iv) Status is attached as **Annexure – I**
	(v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river		5 (v) Status is attached as **Annexure – II** As per the CPCB report (Sep-18) based on results of 2016 & 2017, Narmada river stretch does not fall in any priority with <3 mg/L BOD and information for the same is already submitted to CPCB.
	(vi) Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including		**Bio-Medical Waste:-** There are total 61 # of HCUs (Health Care Units) located in the Ankleshwar taluka, treatment & disposal of Bio Medical Waste is being taken care of by a common facility M/s, Globe Bio Care

	waste generated from hotels, ashrams etc.		located in GIDC Ankleshwar **Industrial Waste:-** In the State, Hazardous waste generating units are consented with the authorization under Haz. Waste Management Rules, amended time to time & they are disposing their waste to TSDF/CHWIF/registered recycler under Rule-9/Co-processing and as per consented conditions
	(vii) Ground water regulation		During the meeting held on 04/02/2020 at GPCB with PRS Assessment Team nominated by Ministry of Jal Shakti, GWRDC has given details about the recently framed draft bill titled "Conservation, Protection, Regulation and Management of Ground Water in Gujarat State" which is in process and within 3 months to be submitted to the Assembly
	(viii) Adopting good irrigation practices		Details w.r.t point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept. as on date is attached as **Annexure – III**
	(ix) Protection and management of Flood Plain Zones (FPZ)		
	(x) Rain water harvesting		
	(xi) Maintaining minimum environmental flow of river		
	(xii) Plantation on both sides of the river		Details w.r.t point no. 5 (xii) given by Forest Dept. /PCCF/ACCF/Concerned as on date is attached as **Annexure – IV**
	(xiii) Setting up biodiversity parks on flood plains by removing encroachment		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.

Annexure- I

5 (iv) Status of Solid Waste Management & Details of Processing Facilities:

Types of Waste/ Characteristic of waste	Generated Quantity/day	Collection/ Storage facility with capacity	Disposal/ Treatment facility with capacity along with location	Total Gap with generation & existing treatment facilities if any	Proposed action plan /facility to cover gap	Present Status
MSW waste	95 MT/d	No proper collection & storage	Disposed off at village Mandva-bhuzarg site on open land without fencing or any other measures.	95 MT/d	The Nagarpalika has proposed facility for waste to energy. This project is proposed at plot no. DP 97 & DP 98/1, Saykha GIDC, Vill: Saykha, Tal: Vagra, Dist: Bharuch	Physical progress is so far not started

Annexure-II

5 (v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river

Progress/Status Report of the River/PRS water quality Monitoring:

Date	Location	DO (mg/l)	pH	BOD (mg/l)	COD (mg/l)	Fecal Coliform (MPN/100 ml)	Total coliform (MPN/100 ml)
August -20	NTPC Zanor	6.43	7.68	0.78	7	46	84
	Zadeshwar	5.99	7.87	0.97	10	110	280
	Garudeshwar	6.08	8.16	0.61	6	21	110

Annexure-III

Details w.r.t point no. 5 (viii), (ix), (x), (xi) given by Irrigation Dept. as on date

Sr.No	River name	Details/Status
1	Narmada	1. Environmental Flow 600 cusecs 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. 5 (xii) given by Forest Dept. /PCCF/ACCF/Concerned as on date

Stretch/river	**Existing plantation/vegetation cover details**	**Proposed plan to cover remaining gap along river /river stretch**	**Time limit**	**Remarks**
Narmada River South side (Asha to mulad village) 56.44 Km	12500 trees	0.10 lakh plants	2020-21	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