National Mission for Clean Ganga

Monthly Progress Report of Gujarat State for March -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. 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	Ankleshwar STP (14 MLD):- may be completed by March-2021 PRH & RDD was informed to submit the action plan for the sewage generated from the villages (2.75 MLD)
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):- March -2021 PRH & RDD was informed to submit the action plan for the sewage generated from the villages
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	Quarterly RRC meeting held at GPCB, Gandhinagar to review the progress & minutes of the same (having progress status) is regularly submitted to CPCB Reviews of all NGT matters are taken frequently under chairmanship of Hon'ble CS (Last meeting was conducted on 24/12/2019) 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 :** March-2021 **Proposed plan with present status:-** • Ankleshwar STP (14 MLD):- may be completed by March-2021 • PRH & RDD was informed to submit the action plan for the sewage generated from the villages (2.75 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		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 Bio Medical Waste of which is being taken care of by a common facility M/s, Globe Bio Care located in GIDC Ankleshwar **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.
	(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 (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 problem with the disposal of existing dumped solid waste. And broadly discussed about this problem and Now Board has decided to prepare estimate considering disposal of existing dumped waste in the plot allotted for MSW purpose. So,	**Ankleshwar Notified area:** For MSW plot no 9207 admeasuring 14000 SQMT is allotted by GIDC. Kitchen waste of housing area is dumped to BEIL, Ankleshwar. Estimate work for development of MSW site as per MSW Rules 2016 is under process and same may approved and tender of the same will be done in 5 to 6 months. Door to door MSW collected from GIDC area is dumped to plot no 9207. GIDC, Ankleshwar.

							Earlier the time for tendering work was given up to Dec-2019 but now the same is to be revised and it will be published up to May-2020.	
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 inorganic 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 March -20:

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	BDL	7.70	14	76	1700	230
1980	32618	Pungam	1.74	7.85	6	38	330	170

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

Location ID	Name of Location	Parameter										
		pH	BOD (mg/l)	COD (mg/l)	Cu mg/l	T.Cr. mg/l	H.Cr. mg/l	Fe mg/l	Pb mg/l	Mn mg/l	Ni mg/l	Zn mg/l
50634	Gujarat Gas Office, Umervada	7.30	0.29	5	0.011	BDL	BDL	1.726	0.023	--	0.020	NA
50635	Vill. Juna Pungam	8.12	0.42	5	0.003	BDL	BDL	0.170	BDL	--	BDL	NA
	Vill. Bhadkodra	--	--	--	--	--	--	--	--	--	--	--
	Vill. Kosmadi	--	--	--	--	--	--	--	--	--	--	--
	Piraman Gram Panchayat	--	--	--	--	--	--	--	--	--	--	--
	Vill. Sakarporbhatha	--	--	--	--	--	--	--	--	--	--	--

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 2) Details of good irrigation practice- NA 3) Details of flood plain management zone - details mentioned below

1. Environmental Flow (E-Flow)

Stretch	Existing E-Flow	Proposed Plan to Achieve min. E-Flow	Time Limit	Remarks
1	2	3	4	5
Amala Khadi Stretch from Pungam to Bharuch.	N.A.	N.A.	N.A.	Amla Khadi is not a perennial river, but it is a drain/Khadi meeting to Narmada river. There is no existing storage Dam/Weir on this drain. Water gets polluted due to effluent released from the industrial units located in up stream of this khadi.

2. Details of good Irrigation Practices:

There is no Irrigation Project existing on Amla Khadi. So the question of Irrigation Practice does not arise.

3. Details on flood plain management zone:

No such heavy Flood is noticed in this drain, so question does not arise.

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**
Amlakhadi	Total plantation / trees along Amlakhadi: **8000**	--		
The details received from Social Forestry wing, Aranya Bhavan, Gandhinagar are as under				
Amla kahdi (Limed to Dadhal) 43.00 Km	About 11000 trees	Target submitted by APCCF for all the Rivers of Gujarat is as per attached details **in Annexure-A**		

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**

List of Polluted River Stretches of the Gujarat (River Both side Plantation done in 2019-20)		
S.No.	River	Plants (In lacs)
1	Sabarmati	1.51
2	Bhadar	0.13
3	Amlakhadi	0.00
4	Bhogavo	0.59
5	Khari	0.01
6	Vishvamitri	0.14
7	Dhadar	1.02
8	Triveni	0.07
9	Amravati	0.00
10	Damanganga	0.25
11	Kolak	0.21
12	Mahi	0.18
13	Shedhi	0.15
14	Tapi	0.32
15	Anas	0.35
16	Baleshwar khadi	0.00
17	Kim	0.00
18	Meshwa	0.41
19	Mindhola	0.03
20	Narmada	0.42
TOTAL		**5.79**

National Mission for Clean Ganga

Monthly Progress Report of Gujarat State for March - 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	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	Gunjan STP proposed by Vapi Notified Area Authority (10 MLD):- - 2020. PRH & RDD was informed to submit the action plan for the sewage generated from the village Chhiri, Chharwada, Salvav & Balitha (18 MLD)
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	Quarterly RRC meeting held at GPCB, Gandhinagar to review the progress & minutes of the same (having progress status) is regularly submitted to CPCB Reviews of all NGT matters are taken frequently under chairmanship of Hon'ble CS (Last meeting was conducted on 24/12/2019) 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 :** 10 MLD **Completion Timeline:** 2020 **Proposed Plan and Present Status:-** I. Gunjan (10 MLD) proposed by Vapi notified area authority to treat the 8 MLD sewage generated from Gunjan, Notified Area. Time line-2020 (Land Issue:- Insufficient land). II. PRH & RDD was informed to submit the action plan for the sewage generated from the village Chhiri, Chharwada, Salvav & Balitha (18 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 any industrial effluent is being discharge into the stretch of River Kolak
	(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), treatment & disposal of Bio Medical Waste of which is being taken care of by a common facility M/s En-Cler Biomedical Waste Treatment Pvt. Ltd located in Surat **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
	(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

(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)	At present @5.50 MT/day waste is converted through composting process. For the Gap of 3.00 MT/Day the	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	June - 2019	Expected to complete by June-2020
Total	**8.50 MT**		**5.5 TPD**	**3.0 TPD**	**15 TPD**	**--**	**--**

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 (March - 2020):

Date	Location	DO (mg/l)	pH	BOD (mg/l)	COD (mg/l)	Fecal Coliform (MPN/100 ml)	Total coliform (MPN/100 ml)
03/03/2020	River Kolak at N H No. 8, Morai	6.90	7.84	0.90	4.00	540.00	1600.00
	River Kolak at Pataliya Bridge	5.40	7.98	2.90	32.00	>1600	>1600

Progress/Status Report of the River/PRS ground water quality Monitoring (March - 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
03/03/2020	Borewell at Koteshwar Mahadev Temple, Vatar	4.00	7.01	2.00	7.00	<2	<2	**10.00**	**0.009**	BDL	BDL

Zinc	Manganese	Nitrite	Nitrate	Hexavalent Chromium	Total Chromium	Percent Sodium	Ammonical Nitrogen	Total Kejeldahl Nirtogen	TDS	Conductivity
BDL	**BDL**	**0.043**	**0.571**	**BDL**	**BDL**	**6.81**	**0.16**	**1.61**	**334.00**	**505.00**

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-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	Kolak	Details as per below

1. Environmental Flow (E-flow) Kolak River

Stretch	Existing E-flow	Proposed plan to achieve min. E-flow	Time Limit	Remarks
1	2	3	4	5
Kolak river stretch from Salvav to Kikarla (4.5 km stretch)	NA	NA	NA	There is no storage Dam u/s of the stretch shown. Hence Question of releasing water does not arise.

2. Details of good irrigation practices:

- General Government Practice of Irrigation is maintained in command area of Damanganga reserviour 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 reserviour project.

3. Details 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 to cover remaining gap along river /river stretch**	**Time limit**	**Remarks**
Kolak(kikarla to salvav)	Nil	Target submitted by APCCF for all the Rivers of Gujarat is as per attached details **in Annexure-A**		

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**

List of Polluted River Stretches of the Gujarat (River Both side Plantation done in 2019-20)		
S.No.	River	Plants (In lacs)
1	Sabarmati	1.51
2	Bhadar	0.13
3	Amlakhadi	0.00
4	Bhogavo	0.59
5	Khari	0.01
6	Vishvamitri	0.14
7	Dhadar	1.02
8	Triveni	0.07
9	Amravati	0.00
10	Damanganga	0.25
11	Kolak	0.21
12	Mahi	0.18
13	Shedhi	0.15
14	Tapi	0.32
15	Anas	0.35
16	Baleshwar khadi	0.00
17	Kim	0.00
18	Meshwa	0.41
19	Mindhola	0.03
20	Narmada	0.42
TOTAL		**5.79**

National Mission for Clean Ganga
Monthly Progress Report of Gujarat State for Mar-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. 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 any domestic discharge/outlet in to this 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	Quarterly RRC meeting held at GPCB, Gandhinagar to review the progress & minutes of the same (having progress status) is regularly submitted to CPCB Reviews of all NGT matters are taken frequently under chairmanship of Hon'ble CS (Last meeting was conducted on 24/12/2019) 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) 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 not been 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:-** 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

	(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		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

- 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)
Mar 2020	River Mahi at Sevalia	7.8	8.36	0.41	4	4	63

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	Mahi	1. Environmental flow: 300 cusecs 2.Detail of Good Irrigation Practices and Flood Plain Management Zone: Detail given below

2. RIVER MAHI [SEVALIYA TO BAHADARPURA]

Sr. No.	Stretch	Existing E-Flow	Proposed plan to achieve min.E-flow	Time limit	Remarks
1	Sevaliya to Bahadarpura	300 cusecs	Minimum 300 Cusecs water is released on downstream of Wanakbori Weir. If excess flood water available, it may be released through Wanakbori Weir or escapes constructed on Mahi Right Bank Canal	300 Cusecs of Water is continuously released and excess flood water will be released in Monsoon as par availability.	

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.	Target submitted by APCCF for all the Rivers of Gujarat is as per attached details **in Annexure-A**		

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**

List of Polluted River Stretches of the Gujarat (River Both side Plantation done in 2019-20)		
S.No.	River	Plants (In lacs)
1	Sabarmati	1.51
2	Bhadar	0.13
3	Amlakhadi	0.00
4	Bhogavo	0.59
5	Khari	0.01
6	Vishvamitri	0.14
7	Dhadar	1.02
8	Triveni	0.07
9	Amravati	0.00
10	Damanganga	0.25
11	Kolak	0.21
12	Mahi	0.18
13	Shedhi	0.15
14	Tapi	0.32
15	Anas	0.35
16	Baleshwar khadi	0.00
17	Kim	0.00
18	Meshwa	0.41
19	Mindhola	0.03
20	Narmada	0.42
TOTAL		**5.79**

National Mission for Clean Ganga
Monthly Progress Report of Gujarat State for Mar-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. 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	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
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	Quarterly RRC meeting held at GPCB, Gandhinagar to review the progress & minutes of the same (having progress status) is regularly submitted to CPCB Reviews of all NGT matters are taken frequently under chairmanship of Hon'ble CS (Last meeting was conducted on 24/12/2019) 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 generated from

			the villages Limbet, Hirapor, Sangpur, Pardi, Piprod, and Dadhal for 1.36 MLD discharge
	(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 Industries in the vicinity of River Amravati and there is no discharge of industrial effluent in to Amravati river
	(iv) Status of Solid Waste Management & Details of Processing Facilities 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 Bio Medical Waste of which is being taken care of by a common facility M/s, Globe Bio Care located in GIDC Ankleshwar. **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
	(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		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 (Amravati)

Progress/Status Report of the River/PRS water quality Monitoring (Mar-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)
1	43527	At village Dadhal	7.06	7.38	0.92	7	170	70

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

Location ID	Name of Location	Parameter										
		pH	BOD (mg/l)	COD (mg/l)	Cu mg/l	T.Cr. mg/l	H.Cr. mg/l	Fe mg/l	Pb mg/l	Mn mg/l	Ni mg/l	Zn mg/l
50637	Jitali Water works	7.32	0.32	5	0.025	BDL	BDL	0.098	BDL	---	0.001	NA

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	Data/details will be furnished soon

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**
Amravati (Dadhal to Ankleshwar) 8.00 Km	1200 trees	Target submitted by APCCF for all the Rivers of Gujarat is as per attached details **in Annexure-A**		
Source:- Social Forestry Wing, Aranya Bhavan, Gandhinagar				

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**

List of Polluted River Stretches of the Gujarat (River Both side Plantation done in 2019-20)		
S.No.	River	Plants (In lacs)
1	Sabarmati	1.51
2	Bhadar	0.13
3	Amlakhadi	0.00
4	Bhogavo	0.59
5	Khari	0.01
6	Vishvamitri	0.14
7	Dhadar	1.02
8	Triveni	0.07
9	Amravati	0.00
10	Damanganga	0.25
11	Kolak	0.21
12	Mahi	0.18
13	Shedhi	0.15
14	Tapi	0.32
15	Anas	0.35
16	Baleshwar khadi	0.00
17	Kim	0.00
18	Meshwa	0.41
19	Mindhola	0.03
20	Narmada	0.42
TOTAL		**5.79**

National Mission for Clean Ganga
Monthly Progress Report of Gujarat State for Mar-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. 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	I. 13.70 MLD of STP of Dahod Nagarpalika – Oct 2020 II. 4.60 MLD of STP of Zalod Nagarpalika – Oct-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	Quarterly RRC meeting held at GPCB, Gandhinagar to review the progress & minutes of the same (having progress status) is regularly submitted to CPCB Reviews of all NGT matters are taken frequently under chairmanship of Hon'ble CS (Last meeting was conducted on 24/12/2019) 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) Status of STPs, I&D and sewerage networks Details of existing infrastructure, gap analysis, proposed along with completion timeline		**Existing infrastructure:** --- **Gap analysis:** 12 MLD **Proposed :** 18.3 MLD **Completion Timeline :** Oct, 2020 **Proposed STPs and present status:-** **Given by RO** I. 13.70 MLD of STP (Dahod Nagarpalika):- work in progress. May be completed by October - 2020 II. 4.60 MLD of STP (Zalod Nagarpalika):- work in progress. Time line for completion:- Oct - 2020
	(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 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
	(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 (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

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 (Mar– 2020):

Sampling Point	Type	BOD	COD	DO	FCO	pH	TCO	TDS
RIVER ANAS AT LIMADI (ZALOD) - KUSHALGADH ROAD, VILL. CHAKALIYA, DIST. DAHOD.	ROU	0.65	4	6.7	40	8.1	210	332

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

Sampling Point	Type	BOD	COD	DO	FCO	pH	TCO	TDS
HAND PUMP OPP. M/S STAR REDIATOR, CHAKALIYA ROAD, GIDC, DAHOD, DIST. DAHOD	ROU	0.47	4	1.6	<2	7.1	<2	868
WELL AT HINDU DHARAMASHALA, STATION ROAD, DAHOD	ROU	0.44	4	1.1	<2	7.6	<2	288

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-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	Anas	Data/details will be furnished soon

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**
Anas	Existing vegetation covered by Propopis juliflora & caparis aphylla, other shrubs.	Target submitted by APCCF for all the Rivers of Gujarat is as per attached details **in Annexure-A**		

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**

List of Polluted River Stretches of the Gujarat (River Both side Plantation done in 2019-20)		
S.No.	River	Plants (In lacs)
1	Sabarmati	1.51
2	Bhadar	0.13
3	Amlakhadi	0.00
4	Bhogavo	0.59
5	Khari	0.01
6	Vishvamitri	0.14
7	Dhadar	1.02
8	Triveni	0.07
9	Amravati	0.00
10	Damanganga	0.25
11	Kolak	0.21
12	Mahi	0.18
13	Shedhi	0.15
14	Tapi	0.32
15	Anas	0.35
16	Baleshwar khadi	0.00
17	Kim	0.00
18	Meshwa	0.41
19	Mindhola	0.03
20	Narmada	0.42
TOTAL		**5.79**

National Mission for Clean Ganga
Monthly Progress Report of Gujarat State for Mar-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. 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	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
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	Quarterly RRC meeting held at GPCB, Gandhinagar to review the progress & minutes of the same (having progress status) is regularly submitted to CPCB Reviews of all NGT matters are taken frequently under chairmanship of Hon'ble CS (Last meeting was conducted on 24/12/2019) 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) Status of STPs, I&D and sewerage networks 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) 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:** - 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 Surat 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 water shall be recycled to member units. They will propose new installation of Sedimentation tank, casket cooling system, Disk flotation, ultrafiltration and RO plant for upgradation and recycle of treated waste water to member units. **Present Status-** Land levelling & Compound wall / Gabion wall under Progress. Expected to be completed by 2021
	(iv) Status of Solid Waste Management & Details of Processing Facilities 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), treatment & disposal of Bio Medical Waste of which is being taken care of by a common facility M/s, Globe Bio Care located in Surat **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
	(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		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 (Mar -2020):

Date	Location	DO (mg/l)	pH	BOD (mg/l)	COD (mg/l)	Fecal Coliform (MPN/100 ml)	Total coliform (MPN/100 ml)
03-03-2020	Baleshwar Khadi	6.72	7.55	1.08	14	11	63

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
03/10/2019	180	0.99	0.04	122	1394	11	5	3.42	9	36.48	0.56	0.059	0.095	7.45	0.015	2.22	97.59	4	23	250	63	832	3.08	28

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
03/10/2019	610	0.92	0.04	283	2119	10	5	3.64	6	0.15	38.91	0.28	0.036	0.13	7.75	0.014	2.05	134.69	8	42	340	21	1268	2.24

Drain details with flow:

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

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	Details mentioned as below

1. Environmental Flow (E-Flow)

Stretch	Existing E-Flow	Proposed Plan to Achieve min. E-Flow	Time Limit	Remarks
1	2	3	4	5
Baleshwar Khadi Stretch from Pandesara to Kapletha.	N.A.	N.A.	N.A.	Baleshwar Khadi is not a perennial river, but it is a drain/Khadi meeting to Mindhola river. There is no existing storage Dam/Weir on this drain. Water gets polluted due to effluent released from the industrial units located in up stream of this khadi.

2. Details of good Irrigation Practices:

There is no Irrigation Project existing on Baleshwar Khadi. So the question of Irrigation Practice does not arise.

3. Details on flood plain management zone:

No such heavy Flood is noticed in this drain, so question does not arise.

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 to cover remaining gap along river /river stretch**	**Time limit**	**Remarks**
Baleshwar Kahdi (Pandesara to kapletha)	1430 trees	Target submitted by APCCF for all the Rivers of Gujarat is as per attached details **in Annexure-A**		

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**

List of Polluted River Stretches of the Gujarat (River Both side Plantation done in 2019-20)		
S.No.	River	Plants (In lacs)
1	Sabarmati	1.51
2	Bhadar	0.13
3	Amlakhadi	0.00
4	Bhogavo	0.59
5	Khari	0.01
6	Vishvamitri	0.14
7	Dhadar	1.02
8	Triveni	0.07
9	Amravati	0.00
10	Damanganga	0.25
11	Kolak	0.21
12	Mahi	0.18
13	Shedhi	0.15
14	Tapi	0.32
15	Anas	0.35
16	Baleshwar khadi	0.00
17	Kim	0.00
18	Meshwa	0.41
19	Mindhola	0.03
20	Narmada	0.42
TOTAL		**5.79**

National Mission for Clean Ganga

Monthly Progress Report of Gujarat State for March-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	STP Jetpur - Navagadh Nagarpalika (23.5 MLD):- Trial run to be expected by April-2020
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): - Trial run to be expected by April-2020 **CETP: -** **CETP JDPA (Upgradation)** - may be completed Apr- 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 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	Quarterly RRC meeting held at GPCB, Gandhinagar to review the progress & minutes of the same (having progress status) is regularly submitted to CPCB Reviews of all NGT matters are taken frequently under chairmanship of Hon'ble CS (Last meeting was conducted on 24/12/2019) 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) Status of STPs, I&D and sewerage networks 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:** April-2020 **Proposed plan with present status:-** **STP:-** STP Jetpur - Navagadh Nagarpalika (23.5 MLD):- Trial run to be expected by April-2020
	(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: -** 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 disposing their waste in to 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
	(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:

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 throughout sourcing agency setup. 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 March-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	7.96	238	818	** TC & FC parameters not analyzed due to Renovation work of Rajkot Laboratory	

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	03/03/2020	1.6	05	710	7.43

Drains Details with Flow:

Sr. No.	Location (Latitude and longitude)	Discharge (MLD)	
		Max	Min
1	Opp. Bhadar Stone Crusher	1.8	0.2
2	Sarang Nallah	1.1	0.1
3	Behind Gondra area	3	1
4	Behind Kabrastan	4	1.5
5	Near railway bridge	0.4	0.05
6	Maghedi Vokda	3	1

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	Data/details will be furnished soon

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.	Target submitted by APCCF for all the Rivers of Gujarat is as per attached details **in Annexure-A**		

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**

List of Polluted River Stretches of the Gujarat (River Both side Plantation done in 2019-20)		
S.No.	River	Plants (In lacs)
1	Sabarmati	1.51
2	Bhadar	0.13
3	Amlakhadi	0.00
4	Bhogavo	0.59
5	Khari	0.01
6	Vishvamitri	0.14
7	Dhadar	1.02
8	Triveni	0.07
9	Amravati	0.00
10	Damanganga	0.25
11	Kolak	0.21
12	Mahi	0.18
13	Shedhi	0.15
14	Tapi	0.32
15	Anas	0.35
16	Baleshwar khadi	0.00
17	Kim	0.00
18	Meshwa	0.41
19	Mindhola	0.03
20	Narmada	0.42
TOTAL		**5.79**

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 Gujarat State for Mar-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. 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	Surendranagar (32.3 MLD STP) - Work completed (100%) Vadhwan 12.1 MLD STP :- Might be completed by March-2021
2	Timeline for completing all steps of action plans including completion of setting up of STPs and their commissioning	31.03.2021	Surendranagar (32.3 MLD STP) - Work completed (100%) Vadhwan 12.1 MLD STP - Might be completed by March-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	Quarterly RRC meeting held at GPCB, Gandhinagar to review the progress & minutes of the same (having progress status) is regularly submitted to CPCB Reviews of all NGT matters are taken frequently under chairmanship of Hon'ble CS (Last meeting was conducted on 24/12/2019) 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) Status of STPs, I&D and sewerage networks 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:-** **Surendranagar (32.3 MLD STP)** - Work completed (100%) **Wadhwan 12.1 MLD STP** - Work could not start due to land problem. It will be sorted out shortly as per the information given by UDD and might be completed by 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		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. Ahmedabadand&Distromed Bio Clean Pvt. Ltd. Kuvadava GIDC, Dist. Rajkot and regularly sending their waste **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
	(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	Time limit	Remarks	Present Status
Domestic waste from Surendranagar Municipality (Mixed type)	@ 50 MT/ Day	Not provided as per the Solid Waste Management Rules		50 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
Domestic Solid waste from Vadhwan Municipality (Mixed Type)	@ 10 MT/ Day	Not provided as per the Solid Waste Management Rules		10 MT/Day	--	NA	Vermi compost	

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)
Mar - 2020	D/S of Surendranagar City, Near Wadhvan Bridge	1.8	7.29	20.5	80	N.A.	N.A.

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	275275	
Date of sample collection	01/03/2020	
Parameter	**Unit**	**Result**
Arsenic	mg/l	BDL
BOD	mg/l	1.4
COD	mg/l	6.0
Copper	mg/l	BDL
pH	pH units	7.81
TDS	mg/l	2052
Iron	mg/l	0.463
Lead	mg/l	BDL
Mercury	Ppb	N.A.
Nickel	mg/l	BDL
Zinc	mg/l	BDL

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-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	Bhogavo	Data/details will be furnished soon

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
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.	Target submitted by APCCF for all the Rivers of Gujarat is as per attached details **in Annexure-A**		

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**

List of Polluted River Stretches of the Gujarat (River Both side Plantation done in 2019-20)		
S.No.	River	Plants (In lacs)
1	Sabarmati	1.51
2	Bhadar	0.13
3	Amlakhadi	0.00
4	Bhogavo	0.59
5	Khari	0.01
6	Vishvamitri	0.14
7	Dhadar	1.02
8	Triveni	0.07
9	Amravati	0.00
10	Damanganga	0.25
11	Kolak	0.21
12	Mahi	0.18
13	Shedhi	0.15
14	Tapi	0.32
15	Anas	0.35
16	Baleshwar khadi	0.00
17	Kim	0.00
18	Meshwa	0.41
19	Mindhola	0.03
20	Narmada	0.42
TOTAL		**5.79**

National Mission for Clean Ganga
Monthly Progress Report of Gujarat State for March - 20
(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	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	Vapi Namdha (14 MLD) – Dec –2020 Vapi Chandor (29.53 MLD) - May-2021 Vapi Notified Area Authority (5 MLD) – Sep - 2021
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) – Dec –2020 Vapi Chandor (29.53 MLD) - May-2021 Vapi Notified Area Authority (5 MLD) – Sep - 2021 **CETPs:-** **CETP Vapi (VGEL)** - Expansion 55 to 70 MLD. Dec-2019 (Timeline already due, EC awaited however, CETP is 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	Quarterly RRC meeting held at GPCB, Gandhinagar to review the progress & minutes of the same (having progress status) is regularly submitted to CPCB Reviews of all NGT matters are taken frequently under chairmanship of Hon'ble CS (Last meeting was conducted on 24/12/2019) 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:** 20.5 MLD **Proposed :** 48.53 MLD **Completion Timeline:** December 2021 **Proposed Plan with Present Status:-** **Vapi Namdha (14 MLD) -** Work in Progress. **25 % completed.** Expected to complete by Sep – 2020 **Vapi Chandor (29.53 MLD)** - Land proposal at revenue level. Tender invited. Expected to complete by May-2021 **Vapi Notified Area Authority (5 MLD)** - Design to be finalized. Expected to complete by Sep - 2021
	(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** - Proposed Expansion 55 to 70 MLD. EC awaited. VGEL proposed to complete their up gradation up to March – 2020. Time line is already due but CETP at present meeting with norms.
	(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), treatment & disposal of Bio Medical Waste of which is being taken care of by a common facility M/s En-Cler Biomedical Waste Treatment Pvt. Ltd located in Surat **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
	(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
(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	June - 2019	Expected to complete by June-2020
Total	8.50 TPD		5.5 TPD	3 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 new paper on 18/1/2019	Dec-2019	At present Vapi has Vermi Compost – 3 MT/Day, Organic Fertilizer – 100 Kg/Day, Material Recovery Facility – 12 MT/Day hence Now for 34.9 MT/Day Gap Nagarpalika has work tender is on agreement stage. Vapi Nagarpalika has proposed to work completion upto **July – 2021**.
Total	50 TPD		15.1 TPD	34.9 TPD	--	--	--

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: March - 2020

Date	Location	DO (mg/l)	pH	BOD (mg/l)	COD (mg/l)	Fecal Coliform (MPN/100 ml)	Total coliform (MPN/100 ml)
03/03/ 2020	GIDC Vapi Weir	6.80	7.32	1.10	4.00	38	170
03/03/ 2020	Zari Causeway Kachigam	5.00	7.99	2.80	42.00	1600	>1600
19/03/ 2020	Village Namdha	4.60	7.45	2.80	27.00	540	1600

Progress/Status Report of the River/PRS ground water quality Monitoring: March - 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
03/03/2020	Borewell at Jilla Panchayat School, Kanta Faliya, Village Namdha	4.40	7.49	2.70	10.00	<2	<2	**4.00**	**BDL**	BDL	BDL

Zinc	Manganese	Nitrite	Nitrate	Hexavalent Chromium	Total Chromium	Percent Sodium	NH3	Total Kejeldahl Nirtogen	TDS	Conductivity
BDL	**BDL**	**0.01**	**0.27**	**BDL**	**BDL**	**15.80**	**0.11**	**1.34**	**214.00**	**328.00**

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-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	Details mentioned as below

1. Environmental Flow (E-flow) - Damanganga River

Stretch	Existing E-flow	Proposed plan to achieve min. E-flow	Time Limit	Remarks
1	2	3	4	5
CEPT Vapi to Zari causeway	805 MCM (For monsoon period) (As per MoEF & CC norms)	More than enough flow is available hence question does not arise	NA	The Damanganga River is not a perennial river. However, considering the period in between November to June next year as a lean season, average lean seasonal flow works out to be 69 Cusecs. Due to discharge from existing hydropower mean lean discharge works out to be 287 cusecs. As per present norms MoEF & CC norms; during monsoon season 30% of annual yield at 75% dependability shall be required to be released in the downstream of each dam site for environmental purpose. The total yield at 75% dependability for monsoon period is 2684 MCM as per project report. 30% of that works out to be 805 MCM. In the case of Damanganga Reservoir Project, (Madhuban Dam) on Damanganga River reservoir capacity is 525 MCM, while average Volume of water is discharged in monsoon is more than 3 times of Dam reserviour capacity every year which is more than the present norms.

2. Details of good irrigation practices:

- General Government Practice of Irrigation is maintained in command area of Damanganga reserviour 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 reserviour project.

3. Details on Flood plain management zone:

As far as Damanganga reservoir project is concerned 13 villages of Valsad District, 14 villages of UT of Dadra & Nagarhaveli and 10 Village of UT of Daman are identified which and may be affected due to floods in D/s of Damanganga Dam, for more than 2,50,000 lakh cusecs discharge from dam. In such condition people of these villages are warned through early warning arrangement in consultation with revenue department.

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
Damanganga (kachigaon to Vapi)	8 ha. Plantation	Target submitted by APCCF for all the Rivers of Gujarat is as per attached details **in Annexure-A**		

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**

List of Polluted River Stretches of the Gujarat (River Both side Plantation done in 2019-20)		
S.No.	River	Plants (In lacs)
1	Sabarmati	1.51
2	Bhadar	0.13
3	Amlakhadi	0.00
4	Bhogavo	0.59
5	Khari	0.01
6	Vishvamitri	0.14
7	Dhadar	1.02
8	Triveni	0.07
9	Amravati	0.00
10	Damanganga	0.25
11	Kolak	0.21
12	Mahi	0.18
13	Shedhi	0.15
14	Tapi	0.32
15	Anas	0.35
16	Baleshwar khadi	0.00
17	Kim	0.00
18	Meshwa	0.41
19	Mindhola	0.03
20	Narmada	0.42
TOTAL		**5.79**

National Mission for Clean Ganga
Monthly Progress Report of Gujarat State for Mar 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	31.03.2021	River Vishwamitri ultimately meets with River Dhadhar in upstream of Village: Kothwada. Action plan of River Vishwamitri is already approved & is under implementation and details are mentioned hereunder in Point-1 to 5: 1. Kapurai (new) (STP + Network):- Dec-2020 2.Sayaji garden:- Mar-2021 3. Channi (new-50 MLD) (STP + Network)- Dec-21 4. Atladara (new 24 MLD)- Dec-21 5. Tarsali / GIDC (new 20 MLD) (STP + Network):- Dec-21 6. STP of 5.2 MLD (Karjan)– March 2021 7. PRH & RDD was informed to submit the action plan for the sewage generated from the village Por for 0.36 MLD discharge)
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	Quarterly RRC meeting held at GPCB, Gandhinagar to review the progress & minutes of the same (having progress status) is regularly submitted to CPCB Reviews of all NGT matters are taken frequently under chairmanship of Hon'ble CS (Last meeting was conducted on 24/12/2019) 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		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

<table>
<tr><td></td><td>on in-situ treatment</td><td></td><td></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-23 as mentioned below
Proposed Plan with Present Status:-
<table>
<tr><th>STP</th><th>Present Status</th><th>TimeLine</th></tr>
<tr><td>Kapurai (new 60 MLD) (STP + Network)</td><td>90% work of STP is completed.</td><td>Dec-2020</td></tr>
<tr><td>Sayaji garden (7.5 MLD)</td><td>4%. Engineering work is completed</td><td>Mar-2021</td></tr>
<tr><td>Channi (new 50 MLD) (STP + Network)</td><td>5%</td><td>Dec-2021</td></tr>
<tr><td>Atladara (new 24 MLD)</td><td>DPR is under progress and tender</td><td>Dec-2021</td></tr>
<tr><td>Tarsali / GIDC (new 20 MLD) (STP + Network)</td><td>DPR under preparation.</td><td>Dec-2021</td></tr>
<tr><td>Karjan nagarpalika (5.2 MLD)</td><td>Tendering done pending for approval at GUDC</td><td>Mar-2021</td></tr>
<tr><td>Total 166.7 MLD</td><td>--</td><td>--</td></tr>
</table></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 no direct discharge of industrial effluent in to PRS Dhadhar</td></tr>
<tr><td></td><td>(iv) <u>Status of Solid Waste Management & Details of Processing Facilities</u>
Details of existing infrastructure, gap analysis, proposed along with</td><td></td><td>Not Applicable as the stretch is not meandering through any City / Towns</td></tr>
</table>

	completion timeline		
	(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 Karjan and Por & disposal of Bio Medical Waste of which is being taken care of by a common facility Samvedna Biomedical waste Incineration. **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
	(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		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:

Sample ID and Date	Sampling Point	pH	COD mg/l	BOD mg/l	DOX mg/l	FC	TC
277585-03/03/2020	WATER PROJECT SAMPLE RIVER DHADHAR AT KOTHWADA	7.54	76	18	BDL	>1600	>1600
277629-03/03/2020	WATER PROJECT RAP RIVER DHADHAR AT VILLAGE PINGALWADA	7.74	17	0.95	6.7	47	210

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
278306-09/03/2020	WATER PROJECT RAP BOREWELL AT POR GIDC OFFICE	7.78	4	0.51	1158

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 – 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	Dhadhar	Data/details will be furnished soon

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 to cover remaining gap along river /river stretch	Time limit	Remarks
Dhadhar	Existing vegetation covered by Propopis juliflora & Caparis aphylla and other shrubs.	Target submitted by APCCF for all the Rivers of Gujarat is as per attached details **in Annexure-A**		

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**

List of Polluted River Stretches of the Gujarat (River Both side Plantation done in 2019-20)		
S.No.	River	Plants (In lacs)
1	Sabarmati	1.51
2	Bhadar	0.13
3	Amlakhadi	0.00
4	Bhogavo	0.59
5	Khari	0.01
6	Vishvamitri	0.14
7	Dhadar	1.02
8	Triveni	0.07
9	Amravati	0.00
10	Damanganga	0.25
11	Kolak	0.21
12	Mahi	0.18
13	Shedhi	0.15
14	Tapi	0.32
15	Anas	0.35
16	Baleshwar khadi	0.00
17	Kim	0.00
18	Meshwa	0.41
19	Mindhola	0.03
20	Narmada	0.42
TOTAL		**5.79**

National Mission for Clean Ganga
Monthly Progress Report of Gujarat State for Mar-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. However, as per the suggestion given by Assessment team during meeting held on 04/02/2020, NEERI, UP Govt., Punjab Gov. etc will 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	Vinzol (35 mld) AMC - Commissioned Vinzol (100 mld) AMC- Expected to be completed by Sep-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	Quarterly RRC meeting held at GPCB, Gandhinagar to review the progress & minutes of the same (having progress status) is regularly submitted to CPCB Reviews of all NGT matters are taken frequently under chairmanship of Hon'ble CS (Last meeting was conducted on 24/12/2019) 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) Status of STPs, I&D and sewerage networks Details of existing infrastructure, gap analysis, proposed along with completion timeline		**Existing infrastructure:70 MLD** **Gap analysis: 115 MLD** **Proposed : 135 MLD** **Completion Timeline:Sep-2020 as below** **Proposed plan with present status:-** 1) 35 MLD STP – Commissioned and 2) 100 MLD STP – Expected to be completed by Sep-2020 as per the information given by representative during the meeting held with PRS Assessment Team on 04/02/2020
	(iii) Status of CETPs Details of existing CETP and ETP infrastructure, gap analysis, proposed along with completion timeline, no. of industries and complying status		Industrial waste water generation from the GIDCs of Naroda, Odhav, Vatva and GVMM are discharging their treated waste water from CETPs in to the MEGA Pipeline which is specifically dedicated for 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) 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:-** Total 333 Nos. of Health Care Unit's are operating in Ahmedabad (East) and generated Bio Medical Waste is disposed in to 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 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
	(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 (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

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

Table: 1 Progress/Status Report of the River/PRS water quality monitoring for March-20

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	BDL	7.33	79	291	5400	2200

Table:-2 Progress /Status Report for Ground water quality monitoring pertaining to PRS River

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 collected quarterly									

Drain details with flow details:

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-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	Khari	Data/details will be furnished soon

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**
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.	Target submitted by APCCF for all the Rivers of Gujarat is as per attached details **in Annexure-A**		

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**

List of Polluted River Stretches of the Gujarat (River Both side Plantation done in 2019-20)		
S.No.	River	Plants (In lacs)
1	Sabarmati	1.51
2	Bhadar	0.13
3	Amlakhadi	0.00
4	Bhogavo	0.59
5	Khari	0.01
6	Vishvamitri	0.14
7	Dhadar	1.02
8	Triveni	0.07
9	Amravati	0.00
10	Damanganga	0.25
11	Kolak	0.21
12	Mahi	0.18
13	Shedhi	0.15
14	Tapi	0.32
15	Anas	0.35
16	Baleshwar khadi	0.00
17	Kim	0.00
18	Meshwa	0.41
19	Mindhola	0.03
20	Narmada	0.42
TOTAL		**5.79**

National Mission for Clean Ganga
Monthly Progress Report of Gujarat State for Mar-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. 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	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	
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	Quarterly RRC meeting held at GPCB, Gandhinagar to review the progress & minutes of the same (having progress status) is regularly submitted to CPCB Reviews of all NGT matters are taken frequently under chairmanship of Hon'ble CS (Last meeting was conducted on 24/12/2019) 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), treatment & disposal of Bio Medical Waste of which is being taken care of by a common facility M/s, Globe Bio Care located in Surat **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
	(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		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 (Mar-2020):

Date	Location	DO (mg/l)	pH	BOD (mg/l)	COD (mg/l)	Fecal Coliform (MPN/100 ml)	Total coliform (MPN/100 ml)
04-03-2020	Sahol Bridge	7.02	7.1	1.02	13	11	53

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	COL	DOX	FLU	MAG	NH3	NIT	NTR	pH	PHO	POT	SOD	SS	SUP	T.H	TCO	TDS	TKN	TMP	TUR
01/10/2019	44.29	470	0.86	108.2	10	5	3.22	0.12	36.48	0.56	0.031	0.16	7.29	0.019	2.3	154.7	12	61	420	53	6746	3.92	28	2

Location:- BOREWELL AT PIRAMAL GLASS

Date	ALK	BOD	BOR	CHL	CND	COL	DOX	FCO	FLU	MAG	NH3	NIT	NTR	pH	PHO	POT	SOD	SS	SUP	T.H	TCO	TDS	TKN	TMP	TUR
01/10/2019	430	0.86	0.04	290	3840	5	4.21	9	0.15	58.37	0.28	0.2	0.15	7.24	0.016	2.23	160.7	4	55	420	33	2228	3.64	28	2

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

Date	ALK	BOD	BOR	CHL	CND	COL	DOX	FCO	FLU	MAG	NH3	NIT	NTR	pH	PHO	POT	SOD	SS	SUP	T.H	TCO	TDS	TKN	TMP	TUR
01/10/2019	490	1.02	0.04	280	3403	5	3.76	6		26.75	0.56	0.03	0.13	7.79	0.015	2.05	111.64	4	40	300	41	2012	3.36	28	2

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

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	Kim	Details mentioned as below

1. Environmental Flow (E-Flow)

Stretch	Existing E-Flow	Proposed Plan to Achieve min. E-Flow	Time Limit	Remarks
1	2	3	4	5
Kim River Stretch from Sahol Bridge to Hansol.	N.A.	N.A.	N.A.	Kim river is not a perennial river. There is no existing storage Dam/Weir on Kim river. Water gets polluted due to effluent released from the industrial units located along Kim river.

2. Details of good Irrigation Practices:

There is no Irrigation Project existing on Kim river. So the question of Irrigation Practice does not arise.

3. Details on flood plain management zone:

As far as Kim river is concerned, 13 villages of Bharuch District are identified which & may affected due to heavy Floods in downstream. In such condition people of these villages are warned through early warning arrangement in consultation with Revenue Dept.

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 to cover remaining gap along river/river stretch**	**Time limit**	**Remarks**
Kim (Sahol Bridge to Hansol)	370 trees	Target submitted by APCCF for all the Rivers of Gujarat is as per attached details **in Annexure-A**		

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**

List of Polluted River Stretches of the Gujarat (River Both side Plantation done in 2019-20)		
S.No.	River	Plants (In lacs)
1	Sabarmati	1.51
2	Bhadar	0.13
3	Amlakhadi	0.00
4	Bhogavo	0.59
5	Khari	0.01
6	Vishvamitri	0.14
7	Dhadar	1.02
8	Triveni	0.07
9	Amravati	0.00
10	Damanganga	0.25
11	Kolak	0.21
12	Mahi	0.18
13	Shedhi	0.15
14	Tapi	0.32
15	Anas	0.35
16	Baleshwar khadi	0.00
17	Kim	0.00
18	Meshwa	0.41
19	Mindhola	0.03
20	Narmada	0.42
TOTAL		**5.79**

National Mission for Clean Ganga
Monthly Progress Report of Gujarat State for Mar-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 sewage discharge in Meshvo river in the stretch of Meshvo 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	No STP is required as there is no sewage discharge in the stretch of Meshvo at Shamalaji.
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	Quarterly RRC meeting held at GPCB, Gandhinagar to review the progress & minutes of the same (having progress status) is regularly submitted to CPCB Reviews of all NGT matters are taken frequently under chairmanship of Hon'ble CS (Last meeting was conducted on 24/12/2019) 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) <u>Status of STPs, I&D and sewerage networks</u> Details of existing infrastructure, gap analysis, proposed along with completion timeline		No sewage is discharged in to polluted 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 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		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 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
	(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		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)
March-20	River Meshwo D/s at Shamlaji	River is dry hence sample is not collected					

Progress/Status Report of the ground water quality Monitoring:

Date	Location	pH	BOD (mg/l)	COD (mg/l)	TDS (mg/l)
March-20	Borewell from Shamlaji Dharamshala	7.35	0.84	4.18	808

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	Meshwo	Data/details will be furnished soon

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**
Meshwo River bank of River Shamlaji	Sparse Natural Vegetation of Propopis juliflora & other shrubs and climbers	Target submitted by APCCF for all the Rivers of Gujarat is as per attached details **in Annexure-A**		

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**

List of Polluted River Stretches of the Gujarat (River Both side Plantation done in 2019-20)		
S.No.	River	Plants (In lacs)
1	Sabarmati	1.51
2	Bhadar	0.13
3	Amlakhadi	0.00
4	Bhogavo	0.59
5	Khari	0.01
6	Vishvamitri	0.14
7	Dhadar	1.02
8	Triveni	0.07
9	Amravati	0.00
10	Damanganga	0.25
11	Kolak	0.21
12	Mahi	0.18
13	Shedhi	0.15
14	Tapi	0.32
15	Anas	0.35
16	Baleshwar khadi	0.00
17	Kim	0.00
18	Meshwa	0.41
19	Mindhola	0.03
20	Narmada	0.42
TOTAL		**5.79**

National Mission for Clean Ganga
Monthly Progress Report of Gujarat State for Mar-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. 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	STP of 4 MLD (2+2 MLD) proposed by Sachin Notified Area Authority –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	Quarterly RRC meeting held at GPCB, Gandhinagar to review the progress & minutes of the same (having progress status) is regularly submitted to CPCB Reviews of all NGT matters are taken frequently under chairmanship of Hon'ble CS (Last meeting was conducted on 24/12/2019) 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:** 1.6 MLD **Proposed :** 04 MLD **Completion Timeline :** 2020 **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), treatment & disposal of Bio Medical Waste of which is being taken care of by a common facility M/s, Globe Bio Care located in Surat **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
	(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

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 municipal solid waste disposal site development in their Head Office. After receiving necessary approval they will proceed for further development.
Total	**10**			**10**			

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)
03-03-2020	River Mindhola	6.69	7.75	1.93	28	11	83

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

Location: - BOREWELL AT SACHIN GIDC (SIEL)

Date	%NA	ALK	BOD	CAL	CHL	CND	COD	COL	DOX	FDS	FLU	MAG	NAA	NH3	NTR	pH	PHO	POT	SOD	SS	SUP	T.H	TCO	TDS	TKN	TMP	TUR
04/10/19	43.2	350	1.18	268.5	272	8331	14	5	3.27	571	0.22	167.8	5.6	0.84	0.12	7.65	0.02	5	478.5	4	35	1360	47	1952	3.64	28	3

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

Date	%NA	ALK	BOD	CAL	CHL	CND	COD	COL	DOX	FDS	FLU	MAG	NH3	NTR	pH	PHO	POT	SOD	SS	SUP	T.H	TCO	TDS	TKN	TMP	TUR
04/10/19	48.64	310	0.92	268.54	280	3522	19	5	3.31	691	0.3	92.42	0.84	0.07	7.62	0.021	5.01	460.22	4	40	1050	53	2012	2.52	28	2

Location: - OPEN WELL AT GABHENI OPP: PANCHYAT OFFICE

Date	%NA	ALK	BOD	CAL	CHL	CND	COD	COL	DOX	FDS	FLU	MAG	NH3	NTR	pH	PHO	POT	SOD	SS	SUP	T.H	TCO	TDS	TKN	TMP	TUR
04/10/19	47.8	240	0.74	44.09	126	1644	10	5	6.59	316	0.12	17.02	0.56	0.084	7.76	0.013	2.12	76.95	4	41	180	41	928	1.96	28	3

Drain details with flow:

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

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

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	Mindhola	Details mentioned as below

1. Environmental Flow (E-Flow) – Mindhola River.

Stretch	Existing E-Flow	Proposed Plan to Achieve min. E-Flow	Time Limit	Remarks
1	2	3	4	5
Mindholaa River Streetch along Sachin.	N.A	N.A	N.A	The Mindhola river is not perennial river. There is no storage dam exist on Mindhola river. But during winter and summer season water from command area of Ukai-Kakrapar project is flown in Mindhola river during irrigation rotation period. Hence From Bardoli to Sachin, River flow is maintained but due to industrial unit along Mindhola river from Bardoli - Palsana - Sachin numbers of chemical industiral units exist which flow non-treated effulent in Mindhola River. Hence Palsana to Sachin stretch of Mindhola River is most polluted.

2. Details of good Irrigation Practices.

General Government practice of Irrigaion is maintained in command area of Ukai - Kakrapar Project.
Farmers are made aware to use water optimally.
Canal system of Kakrapar Project are most of lined so as to minimize seepage losses.
As such not water logging issued noticed so far in the command area of Ukai-Kakrapar Project.

3. Details on flood plain management zone.

N.A

Annexure-IV

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 to cover remaining gap along river/river stretch**	**Time limit**	**Remarks**
Mindhola (Along sachin)	1250 trees	Target submitted by APCCF for all the Rivers of Gujarat is as per attached details **in Annexure-A**		

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**

List of Polluted River Stretches of the Gujarat (River Both side Plantation done in 2019-20)		
S.No.	River	Plants (In lacs)
1	Sabarmati	1.51
2	Bhadar	0.13
3	Amlakhadi	0.00
4	Bhogavo	0.59
5	Khari	0.01
6	Vishvamitri	0.14
7	Dhadar	1.02
8	Triveni	0.07
9	Amravati	0.00
10	Damanganga	0.25
11	Kolak	0.21
12	Mahi	0.18
13	Shedhi	0.15
14	Tapi	0.32
15	Anas	0.35
16	Baleshwar khadi	0.00
17	Kim	0.00
18	Meshwa	0.41
19	Mindhola	0.03
20	Narmada	0.42
TOTAL		**5.79**

National Mission for Clean Ganga

Monthly Progress Report of Gujarat State for March-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. 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	Quarterly RRC meeting held at GPCB, Gandhinagar to review the progress & minutes of the same (having progress status) is regularly submitted to CPCB Reviews of all NGT matters are taken frequently under chairmanship of Hon'ble CS (Last meeting was conducted on 24/12/2019) 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) Status of STPs, I&D and sewerage networks 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) 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 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		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 not been 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 61 # of HCUs (Health Care Units) located in the Ankleshwar taluka, treatment & disposal of Bio Medical Waste of which is being taken care of by a common facility M/s, Globe Bio Care located in GIDC Ankleshwar **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
	(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)
March-20	NTPC Zanor	7.43	8.17	0.80	6	33	70
	Zadeshwar	7.29	8.16	0.84	10	110	280
	Garudeshwar	7.68	8.15	0.65	7	22	70

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	Data/details will be furnished soon

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	Target submitted by APCCF for all the Rivers of Gujarat is as per attached details **in Annexure-A**		

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**

List of Polluted River Stretches of the Gujarat (River Both side Plantation done in 2019-20)		
S.No.	River	Plants (In lacs)
1	Sabarmati	1.51
2	Bhadar	0.13
3	Amlakhadi	0.00
4	Bhogavo	0.59
5	Khari	0.01
6	Vishvamitri	0.14
7	Dhadar	1.02
8	Triveni	0.07
9	Amravati	0.00
10	Damanganga	0.25
11	Kolak	0.21
12	Mahi	0.18
13	Shedhi	0.15
14	Tapi	0.32
15	Anas	0.35
16	Baleshwar khadi	0.00
17	Kim	0.00
18	Meshwa	0.41
19	Mindhola	0.03
20	Narmada	0.42
TOTAL		**5.79**

National Mission for Clean Ganga

Monthly Progress Report of Gujarat State for Mar-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. 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	(i)155 MLD STP:- May-2020 (ii) STP of Shankar Bhuvan 25 MLD:- March-2020 (iii) STP at Dafnala 25 MLD:- Mar-2021 (iv) STP at Kotarpur 60 MLD:- Mar-2021 (v) STP at Koteshwar 60 MLD by AUDA-Timeline not given. RRC instructed AUDA to submit the same with details action plan without any further delay. AUDA has dropped this project due to 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:-** (i)155 MLD STP:- May-2020 (ii) STP of Shankar Bhuvan 25 MLD:- March-2020 (iii) STP at Dafnala 25 MLD:- Mar-2021 (iv) STP at Kotarpur 60 MLD:- Mar-2021 STP at Koteshwar 60 MLD by AUDA-Timeline not given. RRC instructed AUDA to submit the same with details action plan without any further delay. AUDA has dropped this project due to land issue. **CETPs:-** **Green Environment Co-Operative So. Ltd., (GECSL)-** Exp^{n} :16 to 35 MLD **(**Dec-2020) **Naroda Enviro Projects Ltd.** **(NEPL)- Exp^{n}:-:-** 3 to 14 MLD (Feb-2020) **Odhav Enviro Projects Ltd.** **(OEPL)- Modification:** - Proposed Spray Dryer (Mar-2020). **Narol Dyestuff Enviro Society (NDES)- Exp^{n}:** - up to 0.45 MLD (Mar-2020) **Narol Textile Integrated Enviro Management (NTIEM)- Exp^{n}** :- 100 to 130 MLD (Mar-2020)

			Ahmedabad Hand Screen Printing Association (AHSPA)- New CETP: - (Dec-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	Quarterly RRC meeting held at GPCB, Gandhinagar to review the progress & minutes of the same (having progress status) is regularly submitted to CPCB Reviews of all NGT matters are taken frequently under chairmanship of Hon'ble CS (Last meeting was conducted on 24/12/2019) 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:** 855 MLD **Gap analysis:** 25 MLD **Proposed :** 265 MLD as below (i)155 MLD STP, 72% construction completed, May-2020. (ii) STP of Shankar Bhuvan 25 MLD-Commissioned (iii) STP at Dafnala 25 MLD, Tender stage, Mar-2021 (iv) STP at Kotarpur 60 MLD, Tender stage, Mar-2021 (v) STP of 60 MLD at Koteshwar (AUDA) :- For the treatment of domestic sewage discharges of Bhat, Koteshwar & nearby other area. Timeline not given. RRC instructed AUDA to submit the same with details action plan without any further delay-- AUDA has dropped this project due to land issue (Feb submission).

	(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:-** 1351. 1066 (CETP member units). Rest 285 (Danilimda-Behrampura) having individual ETPs. 1 New CETP is 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 given approval 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) -** Work order issued (Dec-2021) **2) GECSL Exp$^{n:}$ ^{16} to 35 MLD $^{-}$:-** Tendering for civil work completed. (Dec-2020) **3) NEPL Exp$^{n:-}$:-** 3 to 14 MLD**:-** Modification/up gradation work is completed (Feb-2020) **4) OEPL Modification:** - Proposed Spray Dryer completed by Mar-2020. **5) NDES Exp$^{n:-}$** up to 0.45 MLD :- Up-gradation of CETP units is in progress.(Mar-2020) **6) NTIEM- Exp^{n}** :- 100 to 130 MLD - Preliminary survey of present process is completed .(Mar-2020)

	(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:-** Total 5083 Nos. of Health Care Unit's are operating in Ahmedabad City and generated Bio Medical Waste is disposed in to 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 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
	(viii)	Adopting good irrigation practices		Details w.r.to 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/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	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 shall 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 on 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 (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 March-2020:

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**	7.90	18	2.61	7. 71	280	63
5.	**Railway Bridge**	8.54	17	2.22	7.50	540	220
6.	**V N Bridge**	8.33	350	87	BDL	2200	1100
7.	**Miroli**	8.16	189	46	BDL	3500	330
8.	**Vautha**	8.07	150	34	BDL	920	220

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

Sr No	Bore wells	pH	BOD(mg/l)	COD(mg/l)	TDS(mg/l)
1.	**Gandhi Ashram**, Ahmedabad	7.78	0.76	08	416
2.	**Jain Temple**, Ahmedabad (Half yearly)	Sample not collected (Half Yearly)			
3.	**P T College**, Ahmedabad	Sample not collected			
4.	**Pirana Pumping Station**, Ahmedabad (Half Yearly)	Sample not collected (Half Yearly)			
5.	**Gyaspur Nr.MSW Site**, Ahmedabad	7.48	0.81	10	2196
6.	**Ajmeri Farm**, Ahmedabad	7.60	0.83	12	1676
7.	**Excel Industries**, Ahmedabad	7.38	0.88	13	1532
8.	**UPL Djl**, Ahmedabad	7.45	0.69	11	2532
9.	**Miroli Pumping Station**, Ahmedabad	Sample not collected (Half Yearly)			
10.	**Naklang Mahadev**, Ahmedabad	Sample not collected (Half Yearly)			
11.	**Paldi-Kankaj**, Ahmedabad	Sample not collected (Half Yearly)			
12.	**GIDC Naroda**, Ahmedabad	7.57	0.88	08	968
13.	**GIDC-Vatva**, Ahmedabad	7.53	0.51	08	1368
14.	**GIDC-GVMM**, Ahmedabad	7.10	0.70	10	1062

15.	**GIDC-Odhav**, Ahmedabad	7.54	0.62	07	1082
16.	**Narol,** Ahmedabad (*closed)	-	-	-	-

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-III

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

Sr.No	River name	Details/Status
1	Sabarmati	Data/details will be furnished soon

Annexure-IV

Details w.r.to 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**
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.	Target submitted by APCCF for all the Rivers of Gujarat is as per attached details **in Annexure-A**		

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**

List of Polluted River Stretches of the Gujarat (River Both side Plantation done in 2019-20)		
S.No.	River	Plants (In lacs)
1	Sabarmati	1.51
2	Bhadar	0.13
3	Amlakhadi	0.00
4	Bhogavo	0.59
5	Khari	0.01
6	Vishvamitri	0.14
7	Dhadar	1.02
8	Triveni	0.07
9	Amravati	0.00
10	Damanganga	0.25
11	Kolak	0.21
12	Mahi	0.18
13	Shedhi	0.15
14	Tapi	0.32
15	Anas	0.35
16	Baleshwar khadi	0.00
17	Kim	0.00
18	Meshwa	0.41
19	Mindhola	0.03
20	Narmada	0.42
TOTAL		**5.79**

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 Gujarat State for Mar-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. 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	Kheda STP (5.2 MLD) - Feb-2021 Underground drainage Project for Nadiad Nagarpalika - Feb-2021
2	Timeline for completing all steps of action plans including completion of setting up of STPs and their commissioning	31.03.2021	• Kheda STP (5.2 MLD) GWSSB- Expected to be commissioned by Feb-2021 • Underground drainage Project for Nadiad Nagarpalika - Feb-2021 • **ETP:- Mafatlal Industries Limited Upgradation** – RRC asked to submit the proposal of modification to achieve River discharge norms / ZLD. Unit has submitted letter dated 20/01/2020 regarding permission of Nadiad Nagarpalika to continue discharge of treated wastewater to inlet of STP via drainage line. • **CETP Nadiad (**0.5 MLD) **-** Dec-2020
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	Quarterly RRC meeting held at GPCB, Gandhinagar to review the progress & minutes of the same (having progress status) is regularly submitted to CPCB Reviews of all NGT matters are taken frequently under chairmanship of Hon'ble CS (Last meeting was conducted on 24/12/2019) 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) Status of STPs, I&D and sewerage networks 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 :** Feb-2021 **Proposed Plan and Present Status:-** I. **Kheda STP (5.2 mld**):- Feb-2021 Primary line out work in progress. Work order issued. DILR demarcation to be done. **II. Underground drainage Project -** Feb-2021 Nadiad Nagarpalika has STP of adequate capacity. Underground drainage Project Phase I is completed. Work order is issued dated 17/01/2020 by GUDC for Underground drainage Project Phase II under AMRUT.
	(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:- GIDC Nadiad has 21 no. of industries (** 13 discharging units having captive ETP while rest 8 are zero discharge) **M/s. Mafatlal Industries Limited (5 MLD):- ETP Upgradation** – RRC asked to submit the proposal of modification to achieve River discharge norms / ZLD Unit has submitted letter dated 20/01/2020 regarding permission of Nadiad Nagarpalika to continue discharge of treated wastewater to inlet of STP via drainage line. **Proposed CETP & Status:-** CETP Nadiad 0.5 MLD .Timeline:- Dec-2020
	(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 232 # of HCUs (Health Care Units) located in the Nadiad and Kheda taluka, treatment & disposal of Bio Medical Waste of which is being taken care of by a common facility M/s. Samvedana BMW Incinerator or M/s. Pollucare Biomedical Management 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
	(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	Time limit	Responsible agency	Present Status
Domestic	85 TPD	70 TPD	45 Ton MRF 15 Ton Pit composting	25 TPD	25 Tone Wastage will be treat by on site waste composting machines	1 Year	Nadiad Nagar palika	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 Nagar palika	
Total	**91 TPD**	**76 TPD**		**31 TPD**	--	--	--	

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

- **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)
Mar 2020	River Shedhi at Kheda Matar Bridge	4.7	7.61	2.9	17	350	540
	At Nadiad - Mahemdabad Bridge	4.2	7.61	2.9	21	350	540

- **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)
Oct 2019 (Half yearly)	Borewell Nadiad GIDC Water Works	Not Applicable	7.53	0.48	4	<2	<2

- **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-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	Shedhi	Environmental Flow:- River is not a perennial river Detail of good irrigation practices:- Detail attached below Details on flood plain management zone:- Detail attached below

1. RIVER SHEDHI [STRETCH-DAKOR TO KHEDA]

Sr. No.	Stretch	Existing E-Flow	Proposed plan to achieve min.E-flow	Time limit	Remarks
1	Dakor to Kheda	Shedhi river is not a Perennial river	By releasing surplus flood water through Mahor escape at ch.181.80 km of Narmada Main Canal under SSNNL and through different escapes of Mahi Right Bank Canal offtaking from Wanakbori Weir. There is disposal of domestic waste water near Dakor and Nadiad. So the concerned authorities are requested to stop the disposal of waste water in Shedhi River.	During the Monsoon and on availability of excess Flood Water.	

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**
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.	Target submitted by APCCF for all the Rivers of Gujarat is as per attached details **in Annexure-A**		

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**

List of Polluted River Stretches of the Gujarat (River Both side Plantation done in 2019-20)		
S.No.	River	Plants (In lacs)
1	Sabarmati	1.51
2	Bhadar	0.13
3	Amlakhadi	0.00
4	Bhogavo	0.59
5	Khari	0.01
6	Vishvamitri	0.14
7	Dhadar	1.02
8	Triveni	0.07
9	Amravati	0.00
10	Damanganga	0.25
11	Kolak	0.21
12	Mahi	0.18
13	Shedhi	0.15
14	Tapi	0.32
15	Anas	0.35
16	Baleshwar khadi	0.00
17	Kim	0.00
18	Meshwa	0.41
19	Mindhola	0.03
20	Narmada	0.42
TOTAL		**5.79**

National Mission for Clean Ganga
Monthly Progress Report of Gujarat State for Mar-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. 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	Signapore (155 MLD) – Expansion. Dec-2020 Gavier (53 MLD) – Expansion. March-2021 Bhatar (162 MLD) – Expansion. March-2021 Bhesan (100 MLD) – Expansion. June- 2020 STPs under Tapi Suddhikaran Yojana (Total 37 STPs by SUDA and GWSSB) –Feb-22 to Dec-22
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	Quarterly RRC meeting held at GPCB, Gandhinagar to review the progress & minutes of the same (having progress status) is regularly submitted to CPCB Reviews of all NGT matters are taken frequently under chairmanship of Hon'ble CS (Last meeting was conducted on 24/12/2019) 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		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

	treatment		
	(ii) Status of STPs, I&D and sewerage networks 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:-** • Signapore (155 MLD) – Upgradation & expansion.50% completed. Work in Progress. Expected to complete by Dec-2020 • 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. 80% completed. Work in Progress. Expected to complete by June-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 Feb-22 to Dec-22 (Please refer Annexure V for details). • In last video conference meeting, CS has intimated to concerned dept. to resolve the issues
	(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 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		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), treatment & disposal of Bio Medical Waste of which is being taken care of by a common facility M/s, Globe Bio Care and En-Cler Biomedical Waste Treatment Pvt. Ltd located in Surat **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
	(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	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 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) 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)
04-03-2020	Kathor, N.H. 8	7.22	7.4	0.88	9	6	53
04-03-2020	Varachha Bridge	7.04	7.6	0.96	8	9	41
04-03-2020	ONGC Bridge	6.72	7.1	1.68	23	9	83
04-03-2020	Rander	7.04	7.7	1.04	14	9	53
06-03-2020	Swamivivekanand Bridge	6.68	7.2	1.28	24	9	41
06-03-2020	Sardar Bridge	6.62	7.5	1.32	23	11	53
06-03-2020	Umara Temple	6.22	7.4	1.68	--	11	53

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	Oct-2019	0.88	4.19	8	0.18	34.1	0.28	7.55	8	34	250	36	710	2.8	28
BORE WELL OF SHREE SAI ASHA PETROL PUMP(IOC),BHATHA	Oct-2019	0.98	2.9	9	0.28	55.94	0.56	7.98	6	13	410	41	546	2.24	28

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-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	Details mentioned as below

1. Environmental Flow (E-Flow)

Stretch	Existing E-Flow	Proposed Plan to Achieve min. E-Flow	Time Limit	Remarks
1	2	3	4	5
Tapi River Stretch from Kadod (Bardoli) to Surat.	Existing E-Flow is 2039 cusecs in lean period.	There is no inflow from December to May in Tapi River. Hence there is no question of releasing water during above period. However during December to May average flow in River Tapi is 2039 cusecs. Hence the question for proposed new plan to achieve Min. E-flow does not arise.	N.A.	Approx. 1700 Cusecs water inflow in Tapi River from Kakrapar weir to Surat from small tributaries (Khadi) and during December to May additional average 339 cusecs water is flown from Kakrapar weir to maintain potable water. Hence min. E-flow is maintained in Tapi river as above.

2. Details 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 is lined at cost Rs. 540 crore.Canal system of Kakrapar Project are most of lined so as to minimize seepage losses.

As such no water logging issuesare noticed due to irrigation in command area.

3. Details on flood plain management zone:

As far as Tapi Reservoir Project is concerned, 252 villages of Surat District are identified which & may affected due to Floods in downstream of Kakrapar Weir for more than 3,91,100 cusecs discharge from Kakrapar. In such condition people of these villages are warned through early warning 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. spatial

Annexure-IV

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 to cover remaining gap along river/river stretch**	**Time limit**	**Remarks**
Tapi	5,10,035 sq.mt	1,50,000 sq.mt	24 months	at Katargam Water Works
Tapi River (khadod to surat)	2350 trees (Source:- Social Forestry wing, Aranya Bhavan)	Target submitted by APCCF for all the Rivers of Gujarat is as per attached details **in Annexure-A**		

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**

List of Polluted River Stretches of the Gujarat (River Both side Plantation done in 2019-20)		
S.No.	River	Plants (In lacs)
1	Sabarmati	1.51
2	Bhadar	0.13
3	Amlakhadi	0.00
4	Bhogavo	0.59
5	Khari	0.01
6	Vishvamitri	0.14
7	Dhadar	1.02
8	Triveni	0.07
9	Amravati	0.00
10	Damanganga	0.25
11	Kolak	0.21
12	Mahi	0.18
13	Shedhi	0.15
14	Tapi	0.32
15	Anas	0.35
16	Baleshwar khadi	0.00
17	Kim	0.00
18	Meshwa	0.41
19	Mindhola	0.03
20	Narmada	0.42
TOTAL		**5.79**

Annexure-V

Break up of STPs proposed in Tapi Suddhikaran Yojana

River	Proposed (P) STPs, capacity	Present Status (%)	Timeline given in RAP	Expected time line	Remarks
Tapi	Bharthana SPS 1 at TPS-83 (22.7 mld) SUDA	Tender to be invited subject to land possession (0%)	February -2022	February-2022	Land is finalised, Detail engineering is started but possession is yet to be received. SUDA give consent letter to collectorate to submit 10 % cost of land for advance possession vide letter dtd 23/12/2019
	Kamrej- Dungra (0.67 mld) SUDA	Tender to be invited subject to land possession	February -2022	February-2022*	Other parcel of land to be neemed in lieu of GAUCHAR land by GoG. Proposal is sent by Collectorate to revenue department, GoG on 14/10/2019
	Kamrej- Kholeshwar (0.33 mld) SUDA	Tender to be invited subject to land possession	February -2022	February-2022*	Land is finalised, Detail engineering is started but possession is yet to be received. Hon. Collector shri Instructed mamlatdar to check land is whether GAUCHAR or GOVERNMENT on 25/11/2019.
	Kamrej- Kamrej 1 (18.5 mld) SUDA	Detail Engineering stated.	February -2022	February-2022*	Land Possession received ,
	Kamrej- Valak creek (43.24 mld) SUDA	Work in Progress	Decemb er-2021	Decembe r-2021*	Land Possession received
	Kamrej- Vav- 1 (16.09 mld) SUDA	Tender to be invited subject to land possession	February -2022	February-2022*	Land is already NEEM for “Smashangruh” Hon. Collector shri will visit site
	Kamrej- Laskana (5.17 mld) SUDA	Tender to be invited subject to land possession	February -2022	February-2022*	Other parcel of land to be neemed in lieu of GAUCHAR land by GoG. Proposal is sent by Collectorate to revenue department, GoG on 14/10/2019
	Kamrej – Kolibharthana (4.3 mld) SUDA	Tender to be invited subject to land possession	February -2022	February-2022*	Other parcel of land to be neemed in lieu of GAUCHAR land by GoG. Proposal is sent by Collectorate to revenue department, GoG on 14/10/2019
	Kamrej- Varachha Creek (51.72 mld) SUDA	Work in Progress	Decemb er-2021	Decembe r-2021*	Land Possession received

	Kamrej- Pasodara (4.15 mld) SUDA	Tender to be invited subject to land possession	February -2022	February-2022*	Other parcel of land to be neemed in lieu of GAUCHAR land by GoG. Proposal is sent by Collectorate to revenue department, GoG on 14/10/2019
	Kamrej- Karjan (1 mld) SUDA	Tender to be invited subject to land possession	February -2022	February-2022*	Other parcel of land to be neemed in lieu of GAUCHAR land by GoG. Proposal is sent by Collectorate to revenue department, GoGon 25/10/2019
	Kamrej- Dhoran Creek (1.18 mld) SUDA	Tender to be invited subject to land possession	February -2022	February-2022*	SUDA put up proposal to Irrigation Department
	Kamrej- Dhoran Pardi-2 (12.5 mld) SUDA	Tender to be invited subject to land possession	February -2022	February-2022*	Other parcel of land to be neemed in lieu of GAUCHAR land by GoG. Proposal is sent by Collectorate to revenue department, GoG on 14/10/2019
	Kamrej- Kathor (16 mld) SUDA	Tender to be invited subject to land possession	February -2022	February-2022*	Land is finalised, Detail engineering is started but possession is yet to be received from DDO shri.
	Kamrej- JatBharthana (5.22 mld) GWSSB	DPR under approval	February -2022	February-2022	Land acquisition proposal is with Revenue Department dtd.14/10/2019. Compliance asked from Collector Surat dated.24/12/20219
	Kamrej- Ghala (1.4 mld) GWSSB				
	Kamrej- Datva (0.34 mld) GWSSB		February -2022	February-2022	Land acquisition proposal is with Revenue Department dtd.25/10/2019. Compliance asked from Collector Surat dated.24/12/20219
	Kamrej- Sevni (5.18 mld) GWSSB		Decemb er-2022	Decembe r-2022	Land acquisition proposal is with Revenue Department dtd. 14/10/2019. Compliance asked from Collector Surat dated. 24/12/20219
	Mandvi- Koliwad Rataniya (0.41 mld) GWSSB	DPR under preparation	Decemb er-2022	Decembe r-2022	Land acquisition proposal is with Collector, Surat
	Mandvi- Khanjroli (0.21 mld) GWSSB	DPR under approval	Decemb er-2022	Decembe r-2022	Land acquisition proposal is with Collector,Surat
	Bardoli- Mori (0.15 mld) GWSSB		Decemb er-2022	Decembe r-2022	Land acquisition proposal is with Collector, Surat Land is not Available as per requirement. So Land acquisition proposal is sent to Mamlatdar for scrutiny as on dt.25/11/2019

	Mandvi- Unn Kosadi (0.29 mld) GWSSB	DPR under preparation	December-2022	December-2022	Land acquisition proposal is with Collector, Surat
	Mandvi- Patna Creek(0.35 mld) GWSSB	DPR under preparation	December-2022	December-2022	Land acquisition proposal is with Collector, Surat
	Mandvi- Tarsada (0.82 mld) GWSSB	DPR under approval	December-2022	December-2022	Land acquisition proposal is with Collector, Surat
	Bardoli – Kadod Creek (3.5 mld) GWSSB	DPR under preparation	December-2022	December-2022	Land acquisition proposal is with Collector, Surat
	Bardoli- Bhamaiya (0.17 mld) GWSSB	DPR under approval	December-2022	December-2022	Land acquisition proposal is with Collector, Surat
	Bardoli- Vaghecha (0.28 mld) GWSSB		December-2022	December-2022	Land acquisition proposal is with Collector, Surat
	Kamrej- Timba (0.75 mld) GWSSB		December-2022	December-2022	Land acquisition proposal is with Collector, Surat
	Kamrej- Maachi (0.16 mld) GWSSB		December-2022	December-2022	Land acquisition proposal is with Collector, Surat
	Mandvi- Mandvi (25 mld) GWSSB	DPR under preparation	December-2022	December-2022	Land available
	Mandvi- Puna Gam (0.36 mld) GWSSB		December-2022	December-2022	Land acquisition proposal is with Collector, Surat Scrutiny is necessary for Site situation for land allocation in favour of Panchayat
	Mandvi- Kamlapore Creek (1.9 mld) GWSSB		December-2022	December-2022	Land acquisition proposal is with Collector, Surat

	Mandvi- Vareli Kudashi (2 mld) GWSSB		Decemb er-2022	Decembe r-2022	Land acquisition proposal is with Collector, Surat
	Mandvi- Bodhan Creek (2.2 mld) GWSSB		Decemb er-2022	Decembe r-2022	Land acquisition proposal is with Collector, Surat
	Mandvi- Uskhed Khurd (0.11 mld) GWSSB		Decemb er-2022	Decembe r-2022	Common land for both STPs. Land acquisition proposal is with Collector, Surat
	Mandvi- Gamtalav Bujrang (0.34 mld) GWSSB		Decemb er-2022	Decembe r-2022	
	Mandvi- Bodhan Village (1.3 mld) GWSSB		Decemb er-2022	Decembe r-2022	Proposal under preparation

* Timeline given as per DPR sanctioned by NRCP.

Note:-

- A meeting was held under the chairmanship of The Chief Secretary, Gujarat for policy level decisions of Pollution Abatement And Conservation Of River Tapi At 85 Km Stretch From Kakarapar Barrage To ONGC Bridge, Surat Project at Chief Secretary's office dated 24/01/2020 in which following matters were brought forward:
- Operation and Maintenance shall be done by GWSSB for a specific duration of 7 years and funds arrangement for the same shall be done by Panchayat Department
- After completion of Project as Deposit works, project has to be handed over to Gram Panchayat.
- Non Core items like River Front Garden Development, Vermi-Compost, River Quality Monitoring System etc. shall not be implemented by GWSSB in Rural Areas of Surat.SMC/SUDA shall decide implementation of the same.
- Mandvi STP tender is included in SJMMSVY and Administrative Approval is accorded for the same. The same is also included in above project.

- Secretary (Water Supply) and Chairman, GWSSB informed the estimated project cost varies with respect to the original sanctioned cost by NRCD.
- For 17 villages, DPR cost was RS 115 crore (without O&M). Now revised cost : Capital cost-99.65 Cr & 7 yr O&M cost -71.79 Cr . Total cost - Rs 171 crore (with 7 year O&M)
- Presently only sewage interception and treatment are considered for villages near creek. It won't be technically feasible to collect sewage from open drains as storm water and other solid waste may also enter in creek.
- Each creek receives sewage from more than 5 villages so 26 more villages will have to be planned with complete UGD system and STP with 7 years O&M.
- Thus tentative project cost for additional villages may be around Rs.146 crore .Total revised tentative project cost may be around Rs.320 crore

National Mission for Clean Ganga
Monthly Progress Report of Gujarat State for Mar-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. 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 domestic wastewater discharge in to this 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	Quarterly RRC meeting held at GPCB, Gandhinagar to review the progress & minutes of the same (having progress status) is regularly submitted to CPCB Reviews of all NGT matters are taken frequently under chairmanship of Hon'ble CS (Last meeting was conducted on 24/12/2019) 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) Status of STPs, I&D and sewerage networks Details of existing infrastructure, gap analysis, proposed along with completion timeline		There is no discharge of domestic wastewater into this 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 effluent discharge in to Triveni Sangam.
	(iv) Status of Solid Waste Management & Details of Processing Facilities 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 handled by common biomedical waste treatment facility at Girnar Biomedical Waste Management Facility, GIDC- II, Junagadh. **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.
	(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		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 (Mar -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	6.5	8.33	2.2	9	NA	NA

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	Details to be furnished soon

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 to cover remaining gap along river /river stretch**	**Time limit**	**Remarks**
The details received from Social Forestry wing, Aranya Bhavan, Gandhinagar are as under				
Triveni	About 11000 trees	Target submitted by APCCF for all the Rivers of Gujarat is as per attached details **in Annexure-A**		

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**

List of Polluted River Stretches of the Gujarat (River Both side Plantation done in 2019-20)		
S.No.	River	Plants (In lacs)
1	Sabarmati	1.51
2	Bhadar	0.13
3	Amlakhadi	0.00
4	Bhogavo	0.59
5	Khari	0.01
6	Vishvamitri	0.14
7	Dhadar	1.02
8	Triveni	0.07
9	Amravati	0.00
10	Damanganga	0.25
11	Kolak	0.21
12	Mahi	0.18
13	Shedhi	0.15
14	Tapi	0.32
15	Anas	0.35
16	Baleshwar khadi	0.00
17	Kim	0.00
18	Meshwa	0.41
19	Mindhola	0.03
20	Narmada	0.42
TOTAL		**5.79**

National Mission for Clean Ganga
Monthly Progress Report of Gujarat State for March-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. 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	31.03.2021	1. Kapurai (new) (STP + Network):- Dec-2020 2.Sayaji garden:- Mar-2021 3. Channi (new-50 MLD) (STP + Network)- Dec-21 4. Atladara (new 24 MLD)- Dec-21 5. Tarsali / GIDC (new 20 MLD) (STP + Network):- Dec-21
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	Quarterly RRC meeting held at GPCB, Gandhinagar to review the progress & minutes of the same (having progress status) is regularly submitted to CPCB Reviews of all NGT matters are taken frequently under chairmanship of Hon'ble CS (Last meeting was conducted on 24/12/2019) 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-23 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>90% work of STP is completed.</td><td>Dec-2020</td></tr>
<tr><td>Sayaji garden (7.5 MLD)</td><td>4%. Engineering work is completed</td><td>Mar-2021</td></tr>
<tr><td>Channi (new 50 MLD) (STP + Network)</td><td>5%</td><td>Dec-2021</td></tr>
<tr><td>Atladara (new 24 MLD)</td><td>DPR is under progress and tender</td><td>Dec-2021</td></tr>
<tr><td>Tarsali / GIDC (new 20 MLD) (STP + Network)</td><td>DPR under preparation.</td><td>Dec-2021</td></tr>
</table>
</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 no direct discharge of industrial effluent into river Vishwamitri.</td>
</tr>
<tr>
<td></td>
<td>(iv) <u>Status of Solid Waste Management & Details of Processing Facilities</u>
Details of existing infrastructure, gap analysis, proposed along with completion timeline</td>
<td></td>
<td>5 (iv) Status is attached as Annexure – I</td>
</tr>
<tr>
<td></td>
<td>(v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river</td>
<td></td>
<td>5 (v) Status is attached as Annexure – II</td>
</tr>
</table>

	(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 Vadodara. & disposal of Bio Medical Waste of which is being taken care of by a common facility Quantum Environment Engineers having capacity of 8 MT/Day. **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
	(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		Attached as **Annexure – V**. 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

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:

Sample ID and Date	Sampling Point	pH	COD	BOD	DOX	FCO	TCO
278049-05/03/2020	RIVER VISHWAMITRI AT ASOD	7.97	8	0.65	6.8	6	120
278044 05/03/2020	RIVER VISHWAMITRI AT KHALIPUR	7.44	108	24	BDL	>1600	>1600

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

Sample ID and Date	Sampling Point	pH	COD	BOD	TDS
278053-05/03/2020	WATER PROJECT RAP BOREWELL AT HANUMAN TEMPLE ATLADRA	7.43	4	0.42	1490
278051-05/03/2020	WATER PROJECT RAP BOREWELL AT KAMATIBAUG	7.51	4	0.55	894

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 Colledge	-	1.00
TOTAL			**64**

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	Vishwamitri	Data/details will be furnished soon

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**
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.	Target submitted by APCCF for all the Rivers of Gujarat is as per attached details **in Annexure-A**		
Source:- Social Forestry wing., Aranya Bhavan, Gandhinagar				

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**

List of Polluted River Stretches of the Gujarat (River Both side Plantation done in 2019-20)		
S.No.	River	Plants (In lacs)
1	Sabarmati	1.51
2	Bhadar	0.13
3	Amlakhadi	0.00
4	Bhogavo	0.59
5	Khari	0.01
6	Vishvamitri	0.14
7	Dhadar	1.02
8	Triveni	0.07
9	Amravati	0.00
10	Damanganga	0.25
11	Kolak	0.21
12	Mahi	0.18
13	Shedhi	0.15
14	Tapi	0.32
15	Anas	0.35
16	Baleshwar khadi	0.00
17	Kim	0.00
18	Meshwa	0.41
19	Mindhola	0.03
20	Narmada	0.42
TOTAL		**5.79**

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					