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INTRODUCTION

Hon' National Green Tribunal in O. A. No. 710-713 / 2017 dated 15.07.2019 ordered regarding constitution of District Committee (as a part of District Planning Committee under Article 243 ZD) under Articles 243 G, 243 W, 243 ZD read with Schedules 11 and 12 and Rule 15 of the Solid Waste Management Rules, 2016.

In the above said order, it is stated that among others

'Chief Secretaries may personally monitor compliance of environmental norms (including BMW Rules) with the District Magistrate once every month. The District Magistrates may conduct such monitoring twice every month. We find it necessary to add that in view of Constitutional provisions under Articles 243 G, 243 W, 243 ZD read with Schedules 11 and 12 and Rule 15 of the Solid Waste Management Rules,2016 it is necessary to have a District Environment Plan to be operated by a District committee (as a part of District Planning Committee under Article 243 ZD)'

In this regard, Director (Environment) and Additional secretary, Forest and Environment department, Gandhinagar requested District Collectors to prepare District Environmental plans by constituting District Committee (as a part of District Planning Committee under Article 243 ZD) & furnish monthly progress report to Chief Secretary to Government every month.

As per the directions, District committee was formed in the Kheda District comprising of following members to evolve and execute District Environmental Plan.

Sr No	Name and Designation	Designation in the committee
1.	District Magistrate, Kheda –Nadiad District	Chairman
2.	President, Kheda Jilla Panchayat.	Member
3.	District Development Officer, Kheda Jilla Panchayat	Member
4.	The Superintendent of Police, Kheda	Member
5.	District Planning Officer, Kheda	Member
6.	President, Nadiad Nagarpalika.	Member
7.	Chief Officer, Nadiad Nagarpalika	Member
8.	Chief District Health Officer, Kheda	Member
9.	Executive Engineer, Public works department.	Member
10.	Executive Engineer, Irrigation Department	Member

11.	Assistant Geologist, Geology & Mining Department, Nadiad.	Member
12.	Deputy Conservator of Forests, Nadiad.	Member
13.	General Manager, District Industries Center, Nadiad	Member
14.	Regional Transport Officer, Nadiad.	Member
15.	District Animal Husbandry Officer, Nadiad.	Member
16.	Executive Engineer, Gujarat Water Supply and Sewerage Board, Nadiad.	Member
17.	President, Nadiad GIDC Industries Association, Nadiad	Member
18.	Regional Officer, GPCB, Nadiad	Member Secretary

The District Environment Plans cover the following environmental issues:

1. Solid Waste Management
2. Biomedical Waste Management
3. Plastic Waste Management
4. Construction and Debris Waste (C & D)
5. Rejuvenation of Polluted River Stretches
6. Industrial Pollution Control
7. Utilization of Treated Sewage
8. Conservation of Water Bodies
9. Air Quality Management Plan
10. E-Waste Management
11. Mining (Prevention of Sand Mining)

1. Brief Profile of the District

According to Census 2011, Kheda district has a total population of 22.99 lakhs. The total number of households being 395493, the average family size works out to 5.12. Sex wise data show that the proportion of males in the total population is 51.64 per cent while that of females is 48.36 per cent. The resultant sex ratio works out to 937 females per 1000 males. The literacy ratio is 88.21 percent in urban areas whereas is lower (83.14 per cent) in rural areas. The overall literacy rate in the district is thus 84.31 per cent - males 93.40 per cent which is substantially higher than the female literacy rate (72.38 per cent).

Kheda district is having area of 3959 sq.kms. Nadiad taluka is the district head quarter for the Government administration. There are total 10 taluka, 8 towns and 620 villages in the district. Geographically it lies between 22.30" to 23.18" degree latitude at Northern side and 72.32" to 73.37" deg. District is bound by two major rivers of Gujarat, on west side Sabaramati and Mahisagar on the East.

In Kheda District, there are total 10 Talukas namely, Kheda, Nadiad, Mahemdabad, Kapadvanj, Kathlal, Mahudha, Thasra, Matar, Galteshwar and Vaso. There are 10 Nagarpalikas (ULB) namely Nadiad, Kheda, Kathlal, Kapadvanj, Kanjari, Chaklasi, Mahudha, Mehmedabad, Thasra and Dakor.

The district has major rivers named Mahi, Sabarmati, Meshwo, Khari, Vatrak and Shedhi. Mahi River is famous with Mahisagar name for its large stretch which passing near by the Thasra taluka.

Total Geographical Area of Kheda district is 3,94,388 hector, of which 9807 hector is Forest cover

Region of Kheda is known as "Charotar-the Golden Leaf area". Since many decades it has been major producer of tobacco in Gujarat. Moreover, it has strong base of cotton & rice too. Major industries of the district are of Textiles, Paper, Agro-based and Food Processing. Kheda is known for its timber industry and also recognized as hub for the packaging woods. Matar & Kheda Taluka has abundant reserves of natural gas. There are many warehouses along the National Highway-8.

Most popular religious places of the district are Santram Mandir (Nadaid), Vadtal Swaminarayan Mandir (Vadtal), Rannchhodrai Temple at Dakor, Galteshwer Mahadev Mandir and Roja Roji (Mehamdabad). There is no big mountain or mountain range. There is no coastal area in Kheda District.

2. Waste Management Plan

The Waste Management plan covers the following environmental plans:

- 2.1 Solid Waste Management Plan
- 2.2 Plastic Waste Management
- 2.3 C&D Waste Management
- 2.4 Biomedical Waste Management
- 2.5 Hazardous Waste Management
- 2.6 E-Waste Management

2.1 Solid Waste Management

The Ministry of Environment, Forest and Climate Change, Government of India has notified the Solid Waste Management Rules, 2016. As per the Rules, the role of local body has been specified as per Rule 15 of Solid Waste Management Rules, 2016 and as per Rule 16 of the said Rules, Gujarat Pollution Control Board shall enforce these Rules through local bodies.

With respect to effective implementation of Solid Waste Management Rules, 2016, Hon'ble NGT had laid down several orders, of which, Hon'ble National Green Tribunal, Principal Bench on 22nd December 2016 has passed judgment in Original Application No. 199 of 2014 filed by Mrs. Almitra Patel with regard to solid waste management.

Solid Wastes generation in Kheda District:

In Kheda District, there are 10 Nagarpalikas (ULB) namely Nadiad, Kheda, Kathlal, Kapadwanj, Kanjari, Chaklasi, Mahudha, Mehmedabad, Thasara and Dakor. The solid waste generated from the said local bodies is being collected. The wet solid waste is either composted or disposed at solid waste dump site. The plastic waste is collected and partly used for co processing, recycling for other purposes and the inert material is disposed on the solid waste dump site. In Kheda district, scientific solid waste disposal land fill site is yet not developed.

As per Hon'ble NGT order dated 15.07.2019 in O.A. No. 710-713/2017, The details in prescribed format of Model action plan of CPCB is as per Annexure A.

Based on the data analysis of current status, Action plan with action points and Responsible Stake holders is as below:

Action Plan for Solid Waste Management.

Sr. No.	Action points	Plan of Action	Current status	Desirable Level	Gap	Time limit	Responsible Stake holders
1.	Collection, Segregation and treatment of solid waste	1. To carry out 100% door to door collection with segregation at source. 2. Notification of By-laws and implementation. 3. Quantification of generation of solid wastes (Biodegradable, Non-biodegradable, inerts, etc.). 4. Methodology of composting, bio-methanation, waste to energy etc. to be adopted. 5. Domestic hazardous waste such as discarded paint drums, used batteries, CFL bulbs, etc. to be collected separately and handed over to Hazardous Waste Disposal facilities authorized by the GPCB.	95%	100%	5%	Continuous activity	Chief officers(CO) of all Nagarpalikas
			100%	100%	0	--	
			100%	100%	0	Continuous activity	
			NO	100%	100%	31/03/2022	
			NO	100%	100%	31/03/2022	
2.	Development of Secured Landfill (SLF) Site.	To provide 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	Nil	100%	100%	31/03/2022	Chief officers(CO) of all Nagarpalikas
3.	Issue of Authorisation	Local bodies generating solid waste greater than 5 tons/day shall obtain	Nil	7	100%	After provision of	1. Chief officers(CO) of

Sr. No.	Action points	Plan of Action	Current status	Desirable Level	Gap	Time limit	Responsible Stake holders
	under SWM Rules, 2016	Authorisation as per SWM Rules, 2016 <ul style="list-style-type: none"> No. of ULBs required to obtain Authorisation as on 31st December 2019 - 7 No. of ULBs obtained Authorization as on 31/12/2019. - Nil 				SLF.	all Nagarpalikas 2. Regional Officer, GPCB, Nadiad
4.	Air Quality Monitoring, Water Quality Monitoring of dumpsites & Compost quality as per Schedule I & II of SWM Rules, 2016 at all Corporations and Nagarpliakas	To carry out Air Quality Monitoring, Water Quality Monitoring (ground water) & Compost quality in and around processing facilities & dumpsites as per Schedule I & II of SWM Rules, 2016 at all Corporations and sensitive / ecological Municipalities Periodicity of Water Quality Monitoring: Summer, Monsoon, Post Monsoon	No SLF developed No Composting facility.	100%	100%	After provision of SLF.	1. All Chief officers of 10 Nagarpalikas 2. Regional Officer, GPCB, Nadiad 3. Executive Engineer, GWSSB
5.	Creating Awareness to the public through constituted Special Task Force.	Special Task Force shall periodically review once in once in a month on the status of creating awareness and also on the prevention of dumping of solid waste and discharge of sewage in water bodies, action against open burning of solid wastes, etc.	Awareness programs periodically conducted.	To be carried out Extensively	-	Continuous activity	1. Nagarpalika 2. All Chief officers of 10 Nagarpalikas 3. Regional Officer, GPCB, Nadiad

2.2 Plastic Waste Management :

In Kheda District, there are 10 Nagarpalikas (namely Nadiad, Kheda, Kathlal, Kapadwanj, Kanjari, Chaklasi, Mahudha, Mehmedabad, Thasara and Dakor). The local bodies are directed to ensure that the plastic waste generated from all the local bodies are to be segregated and recyclable plastic waste are sold to the recyclers, low value plastic are utilized for road laying and the non-recyclable plastic waste is sent to co-processing in Cement Plant and the remaining inerts are disposed for landfill.

In order to give thrust on plastic waste minimization, source segregation, recycling, involving waste pickers, recyclers and waste processors in collection of plastic waste fraction either from households or any other source of its generation or intermediate material recovery facility and adopt polluters pay principle for the sustainability of the Waste Management system, MoEF&CC has notified Plastic Waste Management Rules, 2016 as amended.

These rules shall apply to every waste generator, local body, Village Panchayat, manufacturer, recyclers, importers and producers.

The details in prescribed format of Model action plan of CPCB is as per Annexure **B**.

Based on the data analysis of current status, Action plan with action points and Responsible Stake holders is as below:

Action Plan for Plastic Waste Management.

Sr. No.	Action points	Plan of Action	Current status	Desirable Level	Gap	Time limit	Responsible Stake holders
1.	Segregation and Quantification of Plastic Wastes	<ul style="list-style-type: none"> No. of Material Recovery facilities established. Quantity received and sent for beneficial uses. Quantification of generation of plastic wastes Linkage between ULB and Producer. 	9 ULB has MRF Nil 100% Nil	10 100% 100% 100%	1 (Thasra) 100% 100% 100%	31/12/2021 31/12/2021 31/12/2021 31/03/2022	<ul style="list-style-type: none"> Chief officers of all Nagarpalikas Regional Officer, GPCB, Nadiad
2.	Channelizing the collected waste plastics(T/M)	<ul style="list-style-type: none"> Recycling of waste plastics Co-processing in cement plants. 	10% 5%	100% 100%	90% 95%	31/03/2022 31/03/2022	<ul style="list-style-type: none"> Chief officers of all Nagarpalikas Regional Officer, GPCB, Nadiad
3.	Issue of Registration as per PWM Rules, 2016 as amended	<ul style="list-style-type: none"> No. of recycling units identified for Registration – 8, and issued with Registration as on 31/08/2021 - 5 No. of Plastic units (Producers) identified for Registration -32, and issued with Registration as on 31/08/2021 -10. 	5 10	8 32	37.5% 68.75%	31/03/2022 31/03/2022	<ul style="list-style-type: none"> Regional Officer, GPCB, Nadiad
4.	Action regarding User & Throw away Plastic ban	<ul style="list-style-type: none"> Notification of By-laws and implementation. Ban on use of single use 	100% 100%	100% 100%	0 0	- -	<ul style="list-style-type: none"> Chief officers of all Nagarpalikas Regional Officer,

		Plastic. <ul style="list-style-type: none"> • Zone wise surprise inspections to be carried out. 	Surprise inspections periodically conducted.	To be carried out Extensively	-	-	GPCB, Nadiad
5.	Awareness creation	Awareness shall be carried out for the general Public.	Awareness programs periodically conducted.	To be carried out Extensively	-	-	<ul style="list-style-type: none"> • District Administration • Chief officers of all Nagarpalikas • Regional Officer, GPCB, Nadiad

2.3 Construction and Debris (C & D) Waste Management :

As per Hon'ble NGT order dated: 15.07.2019 in OA. No. 710 – 713 /2017, The details in prescribed format of Model action plan of CPCB is as per Annexure C.

Based on the data analysis of current status, Action plan with action points and Responsible Stake holders is as below:

Action Plan for Construction and Debris (C & D) Waste Management.

Sr. No.	Action points	Plan of Action	Current status	Desirable Level	Gap	Time limit	Responsible Stake holders
1.	Handling of construction and demolition waste	<ul style="list-style-type: none"> • Identification & Establishment of site for Construction and Demolition processing facility. • Construction and Demolition waste recycling plant. 	Nil	100%	100%	31/03/2022	<ul style="list-style-type: none"> • Chief Officers of all Nagarpalikas.
			Nil	100%	100%	31/03/2022	

2.4 Biomedical Waste Management :

In Kheda District, the Biomedical waste generated from the government and private health care facilities is treated and disposed through the Common Bio Medical Waste Facility owned by **M/s. Samvedna BMW Incinerator, Halol unit and M/s. Pollu Care Biomedical waste incinerator, Ahmedabad.** Both are having common biomedical waste incineration facility have obtained Consent to Establish and Consent to operate permission of the GPC Board.

The details in prescribed format of Model action plan of CPCB is as per Annexure **D.**

Based on the data analysis of current status, Action plan with action points and Responsible Stake holders is as below:

	amended and under Air(P&CP) Act, 1981as amended						
3.	Monitoring of compliance under Bio Medical Waste Management Rules,2016	<ul style="list-style-type: none"> To ensure all the HCFs are collecting and sending segregated Bio Medical waste to common facility. Unauthorized disposal to be prevented. 	100%	100%	0	Continuous activity	<ul style="list-style-type: none"> Regional Officer, GPCB, Nadiad CBMWTFs operators
			100%	100%	0	Continuous activity	

2.5 Hazardous waste

“Hazardous waste” means any waste which by reason of characteristics such as physical, chemical, biological, reactive, toxic, flammable, explosive or corrosive, causes danger or is likely to cause danger to health or environment, whether alone or in contact with other wastes or substances.

The details in prescribed format of Model action plan of CPCB is as per Annexure **E**.

Based on the data analysis of current status, Action plan with action points and Responsible Stake holders is as below:

Action Plan for Hazardous Waste Management.

Sr. No.	Action points	Plan of Action	Current status	Desirable Level	Gap	Time limit	Responsible Stake holders
1.	Awareness/ training of Waste Generators	ULBs take necessary steps for public awareness and importance of segregation of potentially hazardous domestic waste. Training on Handling/disposal will be provided to informal sector persons who are engaged in trading, dismantling, and recycling of e-waste/batteries.	Awareness programs periodically conducted.	To be carried out Extensively	-	-	<ul style="list-style-type: none"> • Chief Officers of all Nagarpalikas. • Regional Officer, GPCB, Nadiad.

2.	Authorization of Industries	<ul style="list-style-type: none"> No. of industrial units required to obtain Authorisation as on 31/08/2021- 527. No. of industrial units issued with Authorisation as on 31/08/2021 - 527 	100%	100%	0	Continuous activity	<ul style="list-style-type: none"> Regional Officer, GPCB, Nadiad and Head Office, Gandhinagar.
3.	Waste deposition centres for domestic hazardous waste	ULBs will establish waste deposition centres for domestic hazardous waste and give direction for waste generators to deposit domestic hazardous wastes at this centre for its safe disposal.	Nil	10	100%	31/03/2022	<ul style="list-style-type: none"> Chief Officers of all Nagarpalikas.
4.	Monitoring of compliance of Hazardous and Other waste rules 2016	Unauthorised dumping of Hazardous waste is to be prevented	100%	100%	0	Continuous activity	<ul style="list-style-type: none"> Regional Officer, GPCB, Nadiad Police department

2.6 E-waste management

Electronic waste or e-waste describes discarded electrical or electronic devices. Used electronics which are destined for refurbishment, reuse, resale, salvage recycling through material recovery, or disposal are also considered e-waste

At present E-waste management is in nascent stage in the district and only informal trading, dismantling, and recycling of e-waste exists in the District.

The details in prescribed format of Model action plan of CPCB is as per annexure **F**.

Based on the data analysis of current status, Action plan with action points and Responsible Stake holders is as below:

Action Plan for E - Waste Management.

Sr. No.	Action points	Plan of Action	Current status	Desirable Level	Gap	Time limit	Responsible Stake holders
1.	Collection of E-Waste	<ul style="list-style-type: none"> Collection Centres to be established by ULBs in District 	1	10	90%	31/12/2021	<ul style="list-style-type: none"> Chief Officers of all Nagarpalikas.
2.	Control E-Waste related pollution and Awareness	<ul style="list-style-type: none"> Creation of Awareness on E-Waste handling and disposal 	Awareness programs periodically conducted.	To be carried out Extensively	-	-	<ul style="list-style-type: none"> Chief Officers of all Nagarpalikas. Regional Officer, GPCB, Nadiad.

3. Water Quality Management Plan

Central Pollution Control Board in association with State Pollution Control Board monitors the water quality of major Rivers and Lakes under the Global Environmental Monitoring System (GEMS) and Monitoring of Indian National Aquatic Resources System (MINARS) programme.

Based on the consolidated reports of GEMS and MINARS during the year 2016-17, the CPCB has identified 351 polluted river stretches in the country. For Gujarat, CPCB has identified 20 numbers of Polluted River Stretches based on the Bio-Chemical Oxygen Demand (BOD) values.

Hon'ble NGT (PB) has directed all the States and Union Territories to prepare action plans within 31.01.2019 for bringing all the polluted river stretches to be fit at least for bathing purposes (i.e., BOD < 3mg/l & FC < 500 MPN/100ml) within six months from the date of finalisation of the action plans and subsequently the time limit extended for two years i.e. within 31.03.2021 vide its order dated 08.04.2019.

Polluted River Stretches in Kheda:

- In Kheda Dist. River Shedhi from Dhamod to Kheda is identified as polluted stretches as Priority 4 having BOD value of 9 mg/l.
- Separate Action plan is already prepared for Rejuvenation of polluted River Stretch of River Shedhi.
- As per direction of Hon. NGT, River Rejuvenation Committee is reviewing progress report of submitted time bound action plan to restore quality of water of River.

The details in prescribed format of Model action plan of CPCB is as per annexure **G**.

4 Domestic Sewage Management Plan

In Kheda District, there are 10 Nagarpalikas (ULB) namely Nadiad, Kheda, Kathlal, Kapadwanj, Kanjari, Chaklasi, Mahudha, Mehmedabad, Thasara and Dakor. Out of 10 Nagarpalika only Nadiad Nagarpalika has STP hence in 9 Nagarpalika STP is required. Nadiad Nagarpalika also have to divert all quantity of domestic sewage to their STP.

STP at Kheda, Mehmedavad and Kapadwanj Nagarpalika is under construction.

STP for Mahudha, Kathlal and Dakor under planning.

The details in prescribed format of Model action plan of CPCB is as per annexure **H**.

Based on the data analysis of current status, Action plan with action points and Responsible Stake holders is as below:

Action Plan for Water Quality Management.

Sr. No.	Action points	Plan of Action	Current status	Desirable Level	Gap	Time limit	Stake holders responsible
1.	Domestic wastewater discharge by all Nagarpalika	To provide STP and to utilize treated sewage as per State Government policy. STP required -10 STP Provided - 01	1	10	90%	31/12/2022	<ul style="list-style-type: none"> • Chief Officers of all Nagarpalikas • Exe. Eng. GWSSB
2	Use of treated sewage	To use treated sewage for gardening or irrigation.	0	10	100 %	31/12/2022	<ul style="list-style-type: none"> • Chief Officers of all Nagarpalikas • Exe. Eng. GWSSB
3	Rain water harvesting	To plan for rain water harvesting	--	To be carried out Extensively	--	31/12/2022	<ul style="list-style-type: none"> • Chief Officers of all Nagarpalikas • Exe. Eng. GWSSB • Regional Officer, GPCB, Nadiad. • Each large scale industrial unit.

5 Industrial Wastewater Management Plan:

Kheda District is known for industries of various sectors such as Food and food processing units, Plywood and Laminated Sheet manufacturing units, Oil and gas extraction wells including its processing facility, Brick kilns and Stone Crushers. There are four GIDC areas namely Nadaid, Matar, Kapadwanj and Thasra. There two private textile park namely- M/S Vraj Integrated Textile Park Ltd. at Bidaj, Ta & Dist Kheda and M/S Amitara Green Hi Tech Textile Park Pvt. Ltd. at Nayka, Ta & Dist Kheda.

The details of Industries obtained consent of GPCB are given as follows:

Category	Number of Industries
Red	172
Orange	329
Green	194
Total	698

All the units generating wastewater have provided Effluent Treatment Plant.

The details in prescribed format of Model action plan of CPCB is as per annexure I.

Based on the data analysis of current status, Action plan with action points and Responsible Stake holders is as below:

Action Plan for Industrial Waste Water Management.

Sr. No.	Action points	Plan of Action	Current status	Desirable Level	Gap	Time limit	Stake holders responsible
1.	Industrial wastewater Quality Monitoring and Collection of data	To be regularly monitored	100%	100%	0	Continuous activity	<ul style="list-style-type: none"> Regional Officer, GPCB, Nadiad
2	Monitoring of Industrial Units	To be regularly monitored	100%	100%	0	Continuous activity	<ul style="list-style-type: none"> Regional Officer, GPCB, Nadiad
3	To monitor discharge of industrial wastewater	<ul style="list-style-type: none"> Status of compliance by industrial units discharging treated wastewater. To provide CETP for Nadiad GIDC Industries. CETP required – 1 Provided - 0 	95%	100%	05%	Continuous activity	<ul style="list-style-type: none"> Regional Officer, GPCB, Nadiad
			Nil	1	100%	At the earliest.	<ul style="list-style-type: none"> Nadiad GIDC Industries Association

6. Air Quality Management Plan

Main Sources of Air pollution in the district are Industrial (Industry/crusher/ Brick Kiln) and Vehicular traffic. This plan aims to reduce the sources and amount of pollutants responsible for reducing the ambient air quality.

The details in prescribed format of Model action plan of CPCB is as per annexure J.

Based on the data analysis of current status, Action plan with action points and Responsible Stake holders is as below:

Action Plan for Air Quality Management.

Sr. No.	Action points	Plan of Action	Current status	Desirable Level	Gap	Time limit	Stake holders responsible
1.	Air Quality Monitoring and Collection of data	• To be regularly monitored	100%	100%	0	Continuous activity	• Regional Officer, GPCB, Nadiad
2	Inventory of Air Pollution Sources	Inventory of potential Air Polluting Sources	100%	100%	0	Continuous activity	• Regional Officer, GPCB, Nadiad
3	Monitoring of polluting vehicle	• Setting up of Auto Emission Testing Centres in the district. Number of existing Centers - 47	47	47	100%	--	RTO Police dept.
4	Monitoring of compliance by Industries	Regular monitoring for compliance.	100%	100%	0	Continuous activity	Regional Officer, GPCB, Nadiad
5	Creation of Awareness	Public awareness to be created through IEC campaign with public participation.	Awareness programs periodically conducted.	To be carried out Extensively	-	-	• RTO • Regional Officer, GPCB, Nadiad

7. Mining Activity Management plan

Main mining area of Kheda District are in Sevalia and Danadara Area. Mainly mining activity is for Black trap and ordinary sand. Ordinary sand mining is carried out in River Bed.

The details in prescribed format of Model action plan of CPCB is as per annexure **K**.

Based on the data analysis of current status, Action plan with action points and Responsible Stake holders is as below:

Action Plan for Mining Activity Management.

Sr. No.	Action points	Plan of Action	Current status	Desirable Level	Gap	Time limit	Stake holders responsible
1.	Preventing illegal mining	Identification of river stretches where there are chances for illegal sand mining and Frequent surprise checks in those river stretches by Mining Department.	100%	100%	0	Continuous activity	<ul style="list-style-type: none"> • District Geologist. • District Administration (Revenue Dept.) • Police Department
2	Monitoring	Checking for Violation of approved mining plan/environmental norms	100%	100%	0	Continuous activity	<ul style="list-style-type: none"> • District Geologist. • Regional Officer, GPCB, Nadiad

8. Noise Pollution Management Plan

Noise can be defined as unwanted or undesired sound and Noise pollution simply means when there is a lot of noise in the environment which is consequentially harming the environment. Noise pollution affects active and passive recipients when noise levels cross certain safe boundaries. Noise pollution affects both human health and behaviour. Noise pollution also impacts the health and well-being of wildlife.

Most activities that cause pollution are essential to meet the needs of the growing population and development. Therefore preventive measures to minimize pollutants are more practical than their elimination.

The details in prescribed format of Model action plan of CPCB is as per annexure L.

Based on the data analysis of current status, Action plan with action points and Responsible Stake holders is as below:

Action Plan for Noise Pollution Management.

Sr. No.	Action points	Plan of Action	Current status	Desirable Level	Gap	Time limit	Stake holders responsible
1.	Noise level Monitoring	<ul style="list-style-type: none"> Police Department and GPCB will conduct Noise level Monitoring as and when necessary. Monitoring equipment/ noise measuring devices, procured by GPCB -1, procured by police department - 01. 	100%	100%	0	Continuous activity	<ul style="list-style-type: none"> Police Dept. RO, GPCB Nadiad
			100%	100%	0	-	
2	Categorization of areas	<ul style="list-style-type: none"> Categorization of areas into industrial, commercial residential or silence areas/zones. 	Nil	100%	100%	31/12/2021	<ul style="list-style-type: none"> All CO of ULBs
3	Restriction on use of loud speakers/ PA system etc and monitoring	<ul style="list-style-type: none"> Loud speaker or a public address system will not allowed to be used without obtaining written permission from the authority. A loud speaker or a public address system will not allowed to be used at 	100%	100%	0	Continuous activity	<ul style="list-style-type: none"> District Administration Police Dept.
			100%	100%	0	Continuous activity	

		<p>night (between 10.00 p.m. to 6.00 a.m.)</p> <ul style="list-style-type: none"> • Special team for monitoring during festivals. 	100%	100%	0	Continuous activity	<ul style="list-style-type: none"> • Police Dept. • RO, GPCB Nadiad
4	Monitoring of polluting vehicle	RTO will take steps for monitoring/ checking of vehicles to ensure environmental norms are followed by the vehicles.	100%	100%	0	Continuous activity	<ul style="list-style-type: none"> • RTO
5	Creation of Awareness	Steps will be taken to aware general public	Awareness programs periodically conducted.	To be carried out Extensively	-	-	<ul style="list-style-type: none"> • District Administration • RTO
6	Tree Plantation	<p>To plant a tree along the road side and when ever open land is available.</p> <p>To plan for greenery at suitable locations.</p>		To be carried out Extensively		Continuous activity	<ul style="list-style-type: none"> • All CO of ULBs • Forest Department.

9. Conclusion

Efforts have been made to make a District Environmental Plan in line with the model District Environment Plan of CPCB covering the topics given therein.

This updating district environment action plan is finalised in 15th meeting held on dated 18.09.2021

District Environment Committee

Sr No	Name and Designation	Designation in the committee
1.	District Magistrate , Kheda –Nadiad District	Chairman
2.	President ,Kheda Jilla Panchayat.	Member
3.	District Development Officer, Kheda Jilla Panchayat	Member
4.	The Superintendent of Police,Kheda	Member
5.	District Planning Officer.Kheda	Member
6.	President ,Nadiad Nagarpalika.	Member
7.	Chief Officer ,Nadiad Nagarpalika	Member
8.	Chief District Health Officer,Kheda	Member
9.	Executive Engineer ,Public works department.	Member
10.	Executive Engineer, Irrigation Department	Member
11.	Assistant Geologist, Geology & Mining Department, Nadiad.	Member
12.	Deputy Conservator of Forests,Nadiad	Member
13.	General Manager, District Industries Center,Nadiad	Member
14.	Regional Transport Officer ,Nadiad	Member
15.	District Animal Husbandry Officer, Nadiad.	Member
16.	Executive Engineer, Gujarat Water Supply and Sewerage Board, Nadiad.	Member
17.	President, Nadiad GIDC Industries Association, Nadiad	Member
18.	Regional Offcier, GPCB,Nadiad	Member Secretary

Annexure A - Solid Waste Management Plan (for each ULB)

No.	Action Areas	Details of Data Requirement	Units of Measurable Outcome	ULB1	ULB2	ULB3	ULB4	ULB5	ULB6	ULB7	ULB8	ULB9	ULB10
	Name of Urban Local Body (ULB)		[name of ULB]	Nadiad Municipality	Mahemdabad	Kapadvanj	Chaklasi	Thasra	Kathlal	Dakor	Mahudha	Kheda	Kanjari
	No of ULBs in the District		[Nos]	10									
	Population		[Nos as per 2011 census]	225000	35368	49308	39581	15806	22702	25669	17722	25575	17882
SW1	Report on inventory of total solid waste Generation												
SW1a		Total solid waste Generation	[in MT/Day] or [Not estimated]	85	8	15	3.5	2.1	4.5	8	5	6	3.2
SW1b		Qty. of Dry Waste segregated	[in MT/Day] or [Collection Not initiated]	15	5	3.2	2	0.8	3	2.75	5	3	2
SW1c		Qty. of Wet Waste segregated	[in MT/Day] or [Collection Not initiated]	8	3	4.8	1.5	1.2	1.5	5.25	3	3	1.2
SW1d		Qty. of C&D Waste segregated	[in MT/Day] or [Collection Not initiated]	1.5	0.5	1	1	2	1.5	0.25	1	0.05	4
SW1e		Qty. of Street Sweeping	[in MT/Day] or [Not estimated]	Not Estimated	3	15	0	0	1		0.5	1	1.5
SW1f		Qty. of Drain Silt	[in MT/Day] or [Not estimated]	Not Estimated	NA	NA	0	NA	1	NA	0.25	0	0.5
SW1g		Qty. of Domestic Hazardous Waste(DHW) collected	[in MT/Day] or [No Facility]	No Facility	NA	NA	1 kg/day	0.5 kg/day	0	NA	0	0	0
SW1h		Qty. of Other Waste (Horticulture, sanitary waste, etc.)	[in MT/Day] or [Qty not estimated]	Qty not estimated	NA	NA	Qty not estimated	NA	0	NA	0	0	0
SW1i		No of Old dump sites	[Nos] or [None]	1	1	1	0	1	1	1	1	1	0
SW1j		Qty stored in dumpsites	[MT] or [Not estimated]	291000 MT	230	21000	Not estimated	2525	4500	8	4500	1	1
SW1k		No of Sanitary landfills	[Nos] or [None]	0	0	0	0	0	0	0	0	0	0
SW1l		No of wards	[nos]	13	7	7	7	6	6	7	6	7	6
SW2	Compliance by Bulk Waste Generators												
SW2a		No of BW Generators	[numbers] or [inventory not done]	2	Not Identified	NA	0	NA	0	NA	0	3	2
SW2b		No of on-site facilities for Wet Waste	[numbers] or [No data]	0	NA	NA	0	NA	NA	NA	NA	NA	0
SW3	Compliance in segregated waste Collection SW Collection												
SW3a		Total generation	[Automatic] from SW1a	85	8	15	3.5	2.1	4.5	8	5	6	3.2
SW3b		Wet Waste	[in MT/Day] or [Collection Not initiated]	15	3	4.8	2	1.2	1.5	2.75	1	3	1.2
SW3c		Dry Waste	[in MT/Day] or [Collection Not initiated]	68	5	3.2	1.5	0.8	3	5.25	3	3	2
SW3d		C&D Waste	[in MT/Day] or [Collection Not initiated]	1.5	0.5	2	1	2	1.5	0.25	0.5	0.5	4
SW4	Waste Management Operations												
SW4a		Door to Door Collection	[100%] / [partial %] / [not initiated]	100%	100%	100%	100	100	100	100	100	100	100
SW4b		Mechanical Road Sweeping	[100%] / [partial%] / [not initiated]	30%	100%	100%	0	25	not initiated	not initiated	not initiated	not initiated	100
SW4c		Manual Sweeping	[100%] / [partial%]	70%	100%	100%	100	75	100	100	100	100	100
SW4d		Segregated Waste Transport	[100%] / [partial %] / [not initiated]	8 MT	100%	100%	100	100	Partial 70%	100	Partial 70%	100	100
SW4e		Digesters (Bio-methanation)	[% of WW] / [not initiated]	0%	not initiated	100%	0	not initiated	not initiated	not initiated	not initiated	not initiated	0
SW4f		Composting operation	[% of WW] / [not initiated]	0%	50%	50%	0	not initiated	75%	50	75%	90%	30%
SW4g		MRF Operation	[MRF used] / [not installed]	MRF Used	MRF USED	1-MRF USED	MRF USED	not installed	MRF USED	MRF USED	MRF USED	MRF USED	1
SW4h		Use of Sanitary Landfill	[% of SW collected] / [no SLF]	No Self	NO SLF	NO SLF	NO SLF	NO SLF	NO SLF	NO SLF	NO SLF	NO SLF	0
SW4i		Reclamation of old dumpsites	[initiated] / [not initiated]	Not initiated	not initiated	not initiated	not initiated	not initiated	not initiated	not initiated	not initiated	initiated	1
SW4j		Linkage with Waste to Energy Boilers / Cement Plants	[initiated] / [not initiated]	Not initiated	not initiated	not initiated	not initiated	not initiated	not initiated	not initiated	not initiated	not initiated	Nos Available
SW4k		Linkage with Recyclers	[initiated] / [not initiated]	initiated	not initiated	not initiated	initiated	initiated	initiated	initiated	initiated	initiated	not initiated
SW4l		Authorization of waste pickers	[initiated] / [not initiated]	36	7	initiated	not initiated	initiated	not initiated	not initiated	initiated	initiated	2

SW4m		Linkage with TSDF / CBMWTF	[initiated] / [not initiated]	Not initiated	not initiated	not initiated	not initiated	not initiated	not initiated	not initiated	not initiated	not initiated	Nos Available
SW4n		Involvement of NGOs	[initiated] / [not initiated]	3 initiated	not initiated	not initiated	not initiated	not initiated	not initiated	not initiated	not initiated	not initiated	not initiated
SW4o		Linkage with Producers / Brand Owners	[initiated] / [not initiated]	Not initiated	not initiated	not initiated	not initiated	not initiated	not initiated	not initiated	not initiated	not initiated	not initiated
SW4p		Authorisation of Waste Pickers		Yes	not initiated	not initiated	not initiated	3	0	not initiated	3	7	2
SW4q		Issuance of ID Cards	[initiated] / [not initiated]	Initiated	7	initiated	not initiated	initiated	not initiated	initiated	not initiated	not initiated	2
SW5	Adequacy of Infrastructure												
SW5a		Waste Collection Trolleys	[Nos. Required] / [Nos. Available]	21 Nos. Available	2TRACTOR	5-TRACTOR	3	3	30	4	27	2	2
SW5b		Mini Collection Trucks	[Nos. Required] / [Nos. Available]	15 Nos. Available	2 CHOTAHATHI	4-CHOTAHATHI	3	4	4	2	2	1	2
SW5c		Segregated Transport	[yes] / [no] / [% area covered]	Yes	YES 100%	YES 100%	100	100	Yes	100	50%	Yes	2
SW5d		Bulk Waste Trucks	[Nos. Required] / [Nos. Available]	3 Nos. Available	No. Required]	No. Required		No. Required	0	No. Required	1	0	1 Required
SW5e		Waste Transfer points	[Nos. Required] / [Nos. Available] / [Not available]	Not Available	No. Required]	5			1	2	1	0	Nos Available
SW5f		Bio-methanation units	[Nos. Required] / [Nos. Available]	Not Available	1	NOT REQUIRED			1	0	1	0	Nos Available
SW5h		Composting units	[Nos. Required] / [Nos. Available]	4	1	1			10	1	10	8	2 Required
SW5i		Material Recovery Facilities	[used or installed] / [not available]	1	used or installed	used or installed			used	Used	Used	Used	Nos Available
SW5k		Waste to Energy (if applicable)	[Required] / [Nos. Available]	Required	NO	NO			1	NO	1	0	1
SW5l		Waste to RDF	[Required] / [Nos. Available]	Required	NO	NO			1	NO	1	0	Nos Available
SW5m		Sanitary Land fills	[Nos] / [Nos. Available]	0	Required	NO			1	NO	1	1	Nos Available
SW5n		Capacity of sanitary landfills	[MT] / / [Nos. Available]	0	Not applicable	NO			0	NO	0	0	Nos Available
SW5o		Waste Deposit Centers (DHW)	[Nos] / [Nos. Available]	1 Nos. Available	NO	NO			2	NO	2	0	Nos Available
SW5p		Other facilities	[give or select from list]	0	NO	NO			0	NO	0	0	0
SW6	Notification and Implementation of By-Laws												
SW6a		Notification of By-laws	[done] / [in progress] / [not initiated]	Done	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE	Done
SW6b		Implementation of by-laws	[done] / [in progress] / [not initiated]	in progress	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE	Done
SW7	Adequacy of Financial Status of ULB												
SW7a		CAPEX Required	[INR] / [Not required]	Rs.18.00 Crore	2 Cror	2.51LAKH	50 lac	Not required	20 Lac	Not required	12 Lac	12 Lac	200 Lac
SW7b		OPEX	[INR per Year] / [% of requirement]	Rs.9.60 Crore	50 lacs		10 lac		1 Lac		2.25 Lac	2.25 Lac	200 Lac
SW7c		Adequacy of OPEX	[Yes] / [No]	No	no	9.5LAKH	no		NO		NO	NO	Yes

Annexure B - Plastic Waste Management (for each ULB)

No.	Action Areas	Details of Data Requirement	Measurable Outcome	ULB1	ULB2	ULB3	ULB4	ULB5	ULB6	ULB7	ULB8	ULB9	ULB10
	Name of ULB		[name of ULB]	Nadiad Municipality	Mahemdabad	KAPADWAN J	Chaklasi	Thasra	Kathlal	Dakor	Mahudha	Kheda	Kanjari
	Population		[Nos as per 2011 census]	225000	35368	49308	39581	15806	22702	25669	17722	25575	17882
PW1	Inventory of plastic waste generation				1600	7 SHOPKEEPERS							
PW1a		Estimated Quantity of plastic waste generated in District	[MT/day] / [Not Estimated]	0.50 MT	0	0.5	0.5	0.5	4.5	0.5	5	Not Estimated	2
PW2	Implementation of Collection												
PW2a		Door to Door collection	[100%] / [partial %] / [not initiated]	100%	100%	100%	100%	100%	100	100	100	100	100
PW2b		Segregated Waste collection	[100%] / [partial %]	20%	50%	100%	100%	100%	75	100	75	100	30
PW2c		Plastic waste collection at Material Recovery Facility	[MRF used] / [not installed]	MRF Used	MRF used	MRF used	MRF used	not installed	MRF used	MRF used	MRF used	MRF used	1
PW2d		Authorization of PW pickers	[Nos] / [not initiated]	62	7	5 REG	NE	3	0	not initiated	3	7	2
PW2e		PW collection Centers	[Nos] / [not established]	1	1	1	NE	1	1	2	5	2	2
PW3	Establishment of linkage with Stakeholders												
PW3a		Established linkage with PROs of Producers	[Nos] / [not established]	Not established	[not established]	[not established]	not established	not established	not established	not established	not established	not established	0
PW3b		Established linkage with NGOs	[Nos] / [not established]	Not established	[not established]	[not established]	not established	not established	not established	not established	not established	not established	0
PW4	Availability of facilities for Recycling or utilization of PW												
PW4a		No. of PW recyclers	[Nos]	0	NA	NA	1	0	0	0	0	0	0
PW4b		No Manufacturers	[Nos]	0	NA	NA	0	0	0	0	0	0	0
PW4c		No of pyrolysis oil plants	[Nos]	0	NA	NA	0	0	0	0	0	0	0
PW4d		Plastic pyrolysis	[Quantity in MT sent per Month]	0	NA	NA	0	0	0	0	0	0	0
PW4e		Use in road making	[Quantity MT used per Month]	0	NA	NA	0	0	0	0	0	0	0
PW4f		Co-processing in Cement Kiln	[Quantity in MT sent per Month]	0	NA	NA	0	0	0	0	0	0	0
W5	Implementation of PW Management Rules, 2016												
W5a		Sealing of units producing < 50-micron plastic	[All sealed] / [Partial] / [no action]	0	No Action	NO ACTION	No Action	All sealed	10 kg	All sealed	5kg	No Action	all sealed
PW5b		Prohibiting sale of carry bags < 50 micron	[Prohibited] / [Partial] / [no action]	Prohibited	Prohibited in Bye-Laws	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	prohibited
PW5c		Ban on Carry bags and other single use plastics as notified by State Government	[Implemented] / [Partial] / [no action] / [No Ban]	Implemented	Implemented	Implemented	Implemented	Implemented	Implemented	Implemented	Implemented	Implemented	Implemented
PW6	Implementation of Extended Producers Responsibility (EPR) through Producers/Brand-owners												
PW6a		No of Producers associated with ULBs	[Nos] / [None]	None	None	None	None	None	None	None	None	None	None
PW6b		Financial support by Producers / Brand owners to ULBs	[Nos] / [None]	None	None	None	None	None	None	None	None	None	None
PW6c		Amount of PRO Support	[Rs...]	Rs.0.00	0	0	0	0	0	0	0	0	
PW6d		Infrastructure support by Producers / Brand owners to ULBs	[Nos of Producers] / [None]	None	None	None	None	None	None	None	None	None	None
PW6e		No of collection centers established by Producers / Brand owners to ULBs	[Nos] / [None]	None	None	None	None	None	1	None	1	None	None

Annexure D - Biomedical Waste Management (for each ULB)

No.	Action Areas	Details of Data Requirement	Measurable Outcome	ULB1	ULB2	ULB3	ULB4	ULB5	ULB6	ULB7	ULB8	ULB9	ULB10
	Name of ULB		[name of ULB]	Nadiad Municipality	Mahemdabad	KAPADWAN J	Chaaklasi	Thasra	Kathlal	Dakor	Mahudha	Kheda	Kanjari
	Population		[Nos as per 2011 census]	225000	35368	49308	39581	15806	22702	25669	17722	25575	17882
BMW1	Inventory of Biomedical Waste Generation			0									
BMW1a		Total no. of Bedded Hospitals	[Nos] / [No inventory]	40	No inventory	15	7	2	7	No inventory	3	No inventory	Not Alailable
BMW1b		Total no. of non-bedded HCF	[Nos] / [No inventory]	0	No inventory	5	4	0	0	No inventory	0	No inventory	Not Alailable
BMW1c		Total no. Clinics	[Nos] / [No inventory]	60	No inventory	8	4	9	4	No inventory	2	No inventory	1
BMW1d		No of Veterinary Hospitals	[Nos] / [No inventory]	0	No inventory	1	1	1	1	No inventory	1	No inventory	Not Alailable
BMW1e		Pathlabs	[Nos] / [No inventory]	12	No inventory	6	1	1	2	No inventory	1	No inventory	Not Alailable
BMW1f		Dental Clinics	[Nos] / [No inventory]	15	No inventory	5	1	1	1	No inventory	1	No inventory	1
BMW1g		Blood Banks	[Nos] / [No inventory]	1	No inventory	1	0	0	0	No inventory	0	No inventory	Not Alailable
BMW1h		Animal Houses	[Nos] / [No inventory]	0	No inventory	1	0	0	0	No inventory	0	No inventory	Not Alailable
BMW1i		Bio-research Labs	[Nos] / [No inventory]	0	No inventory	0	0	0	0	No inventory	0	No inventory	Not Alailable
BMW1j		Others	[Nos] / [No inventory]	-	No inventory	0	0	0	0	No inventory	0	No inventory	Not Alailable
BMW2	Authorization of HCFs by SPCBs / PCCs												
BMW2a		Bedded HCFs	[Nos Authorized]	-	Nos Authorized]			0	7	Nos Authorized]	0	Nos Authorized]	
BMW2b		Non-bedded HCFs	[Nos Authorized]	-	Nos Authorized]			0	0	Nos Authorized]	0	Nos Authorized]	
BMW3a	Biomedical Waste Treatment and Disposal Facilities (CBMWTFs)												
BMW3a		No of CBMWTFs	[Nos] / None	1	None			None	None	None	None	None	
BMW3b		Linkage with CBMWTFs	[Yes] / [no linkage]	Yes	no linkage			no linkage	7	no linkage	no linkage	no linkage	
BMW3c		Capacity of CBMWTFs	[Adequate] / [Not adequate]	Adequate	Not adequate			Not adequate	Adequate	Not adequate	Not adequate	Not adequate	
BMW3d		Requirements of CBMWTFs	[Require] / [not required]	Not required	not required			not required	Not required	not required	not required	not required	
BMW3e		Captive Disposal Facilities of HCFs	[Nos] / [None]	None	None			None	None	None	None	None	
BMW4	Compliance by CBMWTFs												
BMW4a		Compliance to standards	[Meeting] / [Not meeting] / [NA]	Meeting	NA		NA	NA	NA	NA	NA	NA	
BMW4b		Barcode tracking by HCFs / CBMWTFs	[100%] / [Partly %] / [None]	[100%] / [Partly %] / [None]	NONE		NONE	NONE	NONE	NONE	NONE	NONE	
BMW4c		Daily BMW lifting by CBMWTFs	[Kg / day]	750 Kg / day	0	0	0	0	10 kg/day	0	10 kg/day	0	
BMW5	Status of Compliance by Healthcare Facilities												
BMW5a		Pre-segregation	[100%] / [partly %] / [None]	[100%] / [partly %] / [None]	NONE	100%	100%	NONE	100%	NONE	100%	100%	
BMW5b		Linkage with CBMWTFs	[100%] / [partly %] / [None]	[100%] / [partly %] / [None]	NONE	100%	100%	NONE	100%	NONE	NONE	100%	

Annexure E - Hazardous Waste Management

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Please enter Measurable Outcome for District
HW1	Inventory of Hazardous Waste			
HW1a		No of HW Generating Industry	[Nos.]	527
HW1b		Quantity of HW	[MT/Annum]	501.514 MT/Annum
HW1c		Quantity of Incinerable HW	[MT/Annum]	6.127 MT/Annum
HW1d		Quantity of land-fillable HW	[MT/Annum]	136.514 MT/Annum
HW1e		Quantity of Recyclable / utilizable HW	[MT/Annum]	358.873 MT/Annum
HW2	Contaminated Sites and illegal industrial hazardous waste dumpsites			
HW2a		No of HW dumpsites	[Nos] / [None]	None
HW2c		Probable Contaminated Sites	[Nos] (provide list)	None
HW3	Authorization by SPCBs/PCCs			
HW3a		No of industries authorized	[Nos]	527
HW3b		Display Board of HW Generation in front of Gate	[Nos]	527
HW3	Availability of Common Hazardous Waste TSDF			
HW3a		Common TSDF	[Exists] / [No] / [Sent to Other District within State]	Sent to Other District within State
HW3b		Industries linkage with TSDF	[Nos.]	All
HW4	Linkage of ULBs in District with Common TSDF			
HW4a		ULBs linked to Common TSDFs for Domestic Hazardous Waste	[Yes] / [No]	None

Annexure F - E-Waste Waste Management

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Please enter Measurable Outcome for District
EW1	Status of facilitating authorized collection of E-Waste			
EW1a		Does the citizen are able to deposit or provide E-Waste through Toll-free Numbers in the District	[Yes] / [No]	No
EW1c		Collection centers established by ULB in District	[Nos] / [None]	None
EW1d		Collection centers established by Producers or their PROs in the District	[Nos] / [None]	1
EW1e		Does the district has linkage with authorized E-Waste recyclers / Dismantler	[Yes] / [No]	No
EW1f		No authorized E-Waste recyclers / Dismantler	[Nos] / [None]	None
EW2	Status of Collection of E-Waste			
EW2a		Authorizing E-Waste collectors	[Authorized] / [None]	None
EW2b		Involvement of NGOs	[Yes] / [No] / [Nos]	None
EW2c		Does Producers have approached NGOs/ Informal Sector for setting up Collection Centers.	[Yes] / [No] / [Nos]	None
EW2d		Does ULBs have linkage with authorized Recyclers / Dismantlers	[Yes] / [No]	No
EW4	Control E-Waste related pollution			
EW4a		Does informal trading, dismantling, and recycling of e-waste exists in District	[Yes] / [No]	No
EW4b		Does the administration closed illegal E-Waste recycling in the District	[Yes] / [No] / [Nos]	No
EW4c		No of actions taken to close illegal trading or processing of E-Waste	[Nos]	
EW5	Creation of Awareness on E-Waste handling and disposal			
EW5a		Does PROs / Producers conducted any District level Awareness Campaigns	[Yes] / [No] / [Nos]	No
EW5c		Does District Administration conducted any District level Awareness Campaigns	[Yes] / [No] / [Nos]	No

Annexure G - Water Quality Management Plan

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Please enter Measurable Outcome for District
WQ1	Inventory of water resources in District			
WQ1a		Rivers	[Nos] and [Length in Km]	5
WQ1b		Length of Coastline	[in Km]	0
WQ1c		Nalas/Drains meeting Rivers	[Nos]	
WQ1d		Lakes / Ponds	[Nos] and [Area in Hectares]	9 and 1635 Hectares
WQ1e		Total Quantity of sewage and industrial discharge in District	[Automatic] (SW1a+IW1b)	
	Control of Groundwater Water Quality			
WQ2a		Estimated number of bore-wells	[Nos]	435
WQ2b		No of permissions given for extraction of groundwater	[Nos]	435
WQ2c		Number of groundwater polluted areas	[Nos]	15
WQ2d		Groundwater Availability	[adequate] / [not adequate]	Adequate
WQ3	Availability of Water Quality Data			
WQ3a		Creation of monitoring cell	[Yes] / [No]	Yes
WQ3b		Access to Surface water and groundwater quality data at DM office	[Available] or [Not available]	Available
WQ4	Control of River side Activities			
WQ4a	Control of River side Activities	River Side open defecation	[Fully Controlled] / [Partly controlled] / [no Measures taken]	
WQ4b		Dumping of SW on river banks	[Fully Controlled] / [Partly controlled] / [no Measures taken]	
WQ4c		Control measures for idol immersion	[Measures taken] / [Measures taken post immersion] / [No Measures taken]	
WQ5	Control of Water Pollution in Rivers			
WQ5a		Percentage of untreated sewage	[%] (automatic SM1g/SM1a)	
WQ5b		Monitoring of Action Plans for Rejuvenation of Rivers	[Monitored] / [Not monitored] [not applicable]	Monitored
WQ5c		No of directions given to industries for Discharge of Untreated industrial wastewater in last 12 months	[Nos]	2
WQ6	Awareness Activities			
WQ6a		District level campaigns on protection of water quality	[Nos in previous year]	
WQ6b	Oil Spill Disaster Contingency Plan			
WQ6a		Creation of District Oil Spill Crisis Management Group	[Created] / [Not Created]	
WQ6b		Preparation District Oil Spill Disaster Contingency Plan	[Prepared] / [Not Prepared]	
WQ7	Protection of Flood plains			
WQ7a		Encroachment of flood plains is regulated.	[Yes] / [No]	
	Rainwater Harvesting			
WQ8a		Action plan for Rain water harvesting	[Implemented] / [Not implemented]	

Annexure H - Domestic Sewage Management Plan

No.	Action Areas	Details of Data Requirement	Measurable Outcome	ULB1	ULB2	ULB3	ULB4	ULB5	ULB6	ULB7	ULB8	ULB9	ULB10
SM1	Inventory of Sewage Management			Nadiad Municipality	Mahemdabad	KAPADWAN J	Chaklasi	Thasra	Kathlal	Dakor	Mahudha	Kheda	Kanjari
SM1a		Total Quantity of Sewage generated in District from Class II cities and above	[MLD]	28 MLD	7MLD	4MLD	1.5 MLD	3		0.28			1.7
SM1b		No of Class-II towns and above	[Nos]	[Nos]	0	0		0		0			0
SM1c		No of Class-I towns and above	[Nos]	[Nos]	0	0				0			0
SM1d		No of Towns needing STPs	[Nos]	[Nos]	1	1		1		0			0
SM1e		No of Towns STPs installed	[Nos]	1	1	1		0		0			0
SM1f		Quantity of treated sewage flowing into Rivers (directly or indirectly)	[MLD]	18 to 20 MLD	0	0	1.5 MLD	0		0			0
SM1g		Quantity of untreated or partially treated sewage (directly or indirectly)	[Automatic]	8 MLD	0	0	0	0		0			0
SM1h		Quantity of sewage flowing into lakes	[MLD]	-	0	0		0		0			0
SM1i		No of industrial townships	[Nos]	1 No	0	0				0			0
SW2	Adequacy of Available Infrastructure for Sewage Treatment				15								
SM2a		% sewage treated in STPs	[Automatic]	70%	IN PROGRES	0		NA		0			0
SM2b		Total available Treatment Capacity	[MLD]	52 MLD		6.23		0		0.28			0
SM2c		Additional treatment capacity required	[MLD]	-	0	0		0		0			0
SM3	Adequacy of Sewerage Network												0
SM3a		No of ULBs having partial underground sewerage network	[Nos]	-	12000	18447	1	3800		7682			0
SM3b		No of towns not having sewerage network	[Nos]	-	0	0	9246	451		0			0
SM3c		% population covered under sewerage network	[Automatic]	75% in Nadiad	95%	95%	25%	90%		100			0

Annexure I - Industrial Wastewater Management Plan

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Please enter Measurable Outcome for District
IWW1	Inventory of industrial wastewater Generation in District			
IWW1a		No of Industries discharging wastewater	[Nos]	173
IWW1b		Total Quantity of industrial wastewater generated	[MLD]	168.79 MLD
IWW1c		Quantity of treated IWW discharged into Nalas / Rivers	[MLD]	7.4 MLD
IWW1d		Quantity of un-treated or partially treated IWW discharged into lakes	[MLD]	None
IWW1e		Prominent Type of Industries	[Agro based] / [Chemical – Dye etc.] / [Metallurgical] / [Pharma] / [Pesticide] / [Power Plants] / [Mining] / [Automobile] : Multiple selection based on size of operation and number	Agro based/ Metallurgical / Pharma / Power Plant
IWW1f		Common Effluent Treatment Facilities	[Nos] / [No CETPs]	None
IWW2	Status of compliance by Industries in treating wastewater			
IWW2a		No of Industries meeting Standards	[Nos]	167
IWW2b		No of Industries not meeting discharge Standards	[Automatic]	6
IWW2c		No of complaints received or number of recurring complaints against industrial pollution in last 3 months	[Nos]	1
AWW4	Status of Action taken for not meeting discharge standards			
IWW4a		No industries closed for exceeding standards in last 3 months	[Nos]	None
IWW4b		No of industries where Environmental Compensation was imposed By SPCBs	[Nos]	1

Annexure J - Air Quality Management Plan

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Please enter Measurable Outcome for District
AQ1	Availability of Air Quality Monitoring Network in District			
AQ1a		Manual Air Quality monitoring stations of SPCBs /CPCB	[Nos] / [None]	None
AQ1c		Automatic monitoring stations Operated by SPCBs / CPCB	[Nos] / [None]	None
AQ2	Inventory of Air Pollution Sources			
AQ2a		Identification of prominent air polluting sources	[Large Industry] / [Small Industry] / [Unpaved Roads] / [Burning of Waste Stubble] / [Brick Kiln] / [Industrial Estate] / [Others] (Multiple selection)	Large Industry / Small Industry / Unpaved Roads / Brick Kiln
AQ2b		No of Non-Attainment Cities	[Nos] / [None]	None
AQ2c		Action Plans for non-attainment cities	[Prepared] / [Not yet prepared]	Not applicable
AQ3	Availability of Air Quality Monitoring Data at DMs Office			
AQ3a		Access to air quality data from SPCBs & CPCB through Dashboard	[Available] / [Not yet Available]	Not applicable
AQ4	Control of Industrial Air Pollution			
AQ4a		No of Industries meeting Standards	[Nos]	585
AQ4b		No of Industries not meeting discharge Standards	[Nos]	0
AQ5	Control of Non-industrial Air Pollution sources			
AQ5a		Control open burning of Stubble –during winter	[Nos of fire incidents]	Not Estimated
AQ5b		Control Open burning of Waste – Nos of actions Taken	[Nos]	Not Estimated
AQ5c		Control of forest fires	[SOP available] / [No SoP]	None
AQ5d		Vehicle pollution check centers	[% ULBs covered]	47
AQ5e		Dust Suppression Vehicles	[% ULBs covered]	NO
AQ6	Development of Air Pollution complaint redressal system			
AQ6a		Mobile App / Online based air pollution complaint redressing system of SPCBs.	[Available] / [Not available]	Available via GPCBxgn and twitter online

Annexure K - Mining Activity Management plan

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Please enter Measurable Outcome for District
MI1a	Inventory of Mining in District			
MI1a		Type of Mining Activity	[Sand Mining] / [Iron Ore] / [Bauxite] / [Coal] / Other [specify]	Black trap-105 Ordinary sand-105 Ordinary clay -1 Bentonite 1 Gravel 11 Bauxite-10
			Multiple selection in order of magnitude of operations	
MI1b		No of Mining licenses given in the District	[Nos]	199
MI1c		Area covered under mining	[Sq Km]	412.46
MI1d		Area of District	[Sq Km]	4219
MI1e		Sand Mining	[Yes] / [No]	Yes quarry lease of ordinary sand -71
MI1f		Area of sand Mining	[River bed] / [Estuary] / [Non-river deposit]	River bed
MI2	Compliance to Environmental Conditions			
MI2a		No of Mining areas meeting Environmental Clearance Conditions	[Nos]	-
MI2b		No of Mining areas meeting Consent Conditions of SPCBs / PCCs	[Nos]	
MI3a	Mining related environmental Complaints			
MI3b		No of pollution related complaints against Mining Operations in last 1 year	[Nos]	Nil
MI4	Action against non-complying mining activity			
MI4a		No of Mining operations suspended for violations to environmental norms	[Nos]	Nil
MI4b		No of directions issued by SPCBs	[Nos]	

Annexure L - Noise Pollution Management Plan

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Please enter Measurable Outcome for District
NP1	Availability Monitoring equipment			
NP1a		No. of noise measuring devices with district administration	[Nos] / [None]	0
NP1b		No. of noise measuring devices with SPCBs	[Nos] / [None]	1
NP2	Capability to conduct noise level monitoring by State agency / District authorities			
NP2a		capability to conduct noise level monitoring by State agency / District authorities	[Available] / [Not available]	Not available
NP2	Management of Noise related complaints			
NP2a		No of complaints received on noise pollution in last 1 year	[Nos]	0
NP2b		No of complaints redressed	[Nos]	0
NP3	Compliance to ambient noise standards			
NP3a		Implementation of Ambient noise standards in residential and silent zones	[Regular Activity] / [Occasional] / [Never]	[Occasional]
NP3b		Noise monitoring study in district	[carried out] / [not carried out]	not carried out
NP3c		Sign boards in towns and cities in silent zones	[Installed] / [Partial] / [Not Installed]	[Not Installed]