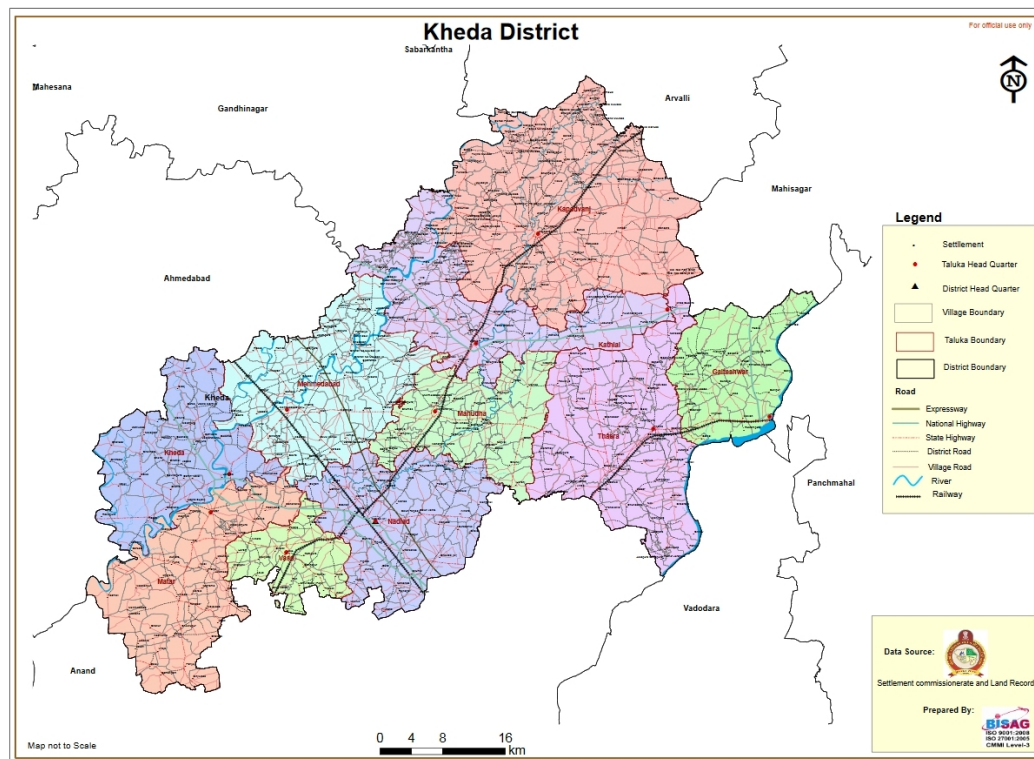


# District Environmental Action Plan (KHEDA DISTRICT)



(As per Hon'ble NGT order in  
O.A.No.710-713/2017 dated 15.07.2019)

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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.**

<b>Sr. No.</b>	<b>Action points</b>	<b>Plan of Action</b>	<b>Current status</b>	<b>Desirable Level</b>	<b>Gap</b>	<b>Time limit</b>	<b>Responsible Stake holders</b>
1.	<b>Collection, Segregation and treatment of solid waste</b>	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.	100%	100%	0	Continuous activity	Chief officers(CO) of all Nagarpalikas
			100%	100%	0	--	
			100%	100%	0	Continuous activity	
			NO	100%	100%	31/01/2021	
			NO	100%	100%	31/01/2021	
2.	<b>Development of Secured Landfill (SLF) Site.</b>	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.	<b>Issue of Authorisation</b>	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
	<b>under SWM Rules, 2016</b>	Authorisation as per SWM Rules, 2016 <ul style="list-style-type: none"> <li>No. of ULBs required to obtain Authorisation as on 31st December 2019 - 7</li> <li>No. of ULBs obtained Authorization as on 31/12/2019. - Nil</li> </ul>				SLF.	all Nagarpalikas 2. Regional Officer, GPCB, Nadiad
4.	<b>Air Quality Monitoring, Water Quality Monitoring of dumpsites &amp; Compost quality as per Schedule I &amp; II of SWM Rules, 2016 at all Corporations and Nagarpliakas</b>	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.	<b>Creating Awareness to the public through constituted Special Task Force.</b>	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	-	-	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.	<b>Segregation and Quantification of Plastic Wastes</b>	<ul style="list-style-type: none"> <li>No. of Material Recovery facilities established.</li> <li>Quantity received and sent for beneficial uses.</li> <li>Quantification of generation of plastic wastes</li> <li>Linkage between ULB and Producer.</li> </ul>	9 ULB has MRF Nil 100% Nil	10 100% 100% 100%	1 (Thasra) 100% 100% 100%	30/06/2020 30/06/2020 30/06/2020 31/03/2021	<ul style="list-style-type: none"> <li>Chief officers of all Nagarpalikas</li> <li>Regional Officer, GPCB, Nadiad</li> </ul>
2.	<b>Channelizing the collected waste plastics(T/M)</b>	<ul style="list-style-type: none"> <li>Recycling of waste plastics</li> <li>Co-processing in cement plants.</li> </ul>	10% 5%	100% 100%	90% 95%	31/03/2021 31/03/2021	<ul style="list-style-type: none"> <li>Chief officers of all Nagarpalikas</li> <li>Regional Officer, GPCB, Nadiad</li> </ul>
3.	<b>Issue of Registration as per PWM Rules, 2016 as amended</b>	<ul style="list-style-type: none"> <li>No. of recycling units identified for Registration - 5, and issued with Registration as on 31/12/2019 - 1</li> <li>No. of Plastic units (Producers) identified for Registration -32, and issued with Registration as on 31/12/2019 - 01.</li> </ul>	1  1	5  31	80%  97%	31/03/2021  31/03/2021	<ul style="list-style-type: none"> <li>Regional Officer, GPCB, Nadiad</li> </ul>
4.	<b>Action regarding User &amp; Throw away Plastic ban</b>	<ul style="list-style-type: none"> <li>Notification of By-laws and implementation.</li> <li>Ban on use of single use</li> </ul>	100% 100%	100% 100%	0 0	- -	<ul style="list-style-type: none"> <li>Chief officers of all Nagarpalikas</li> <li>Regional Officer,</li> </ul>

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

### **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.**

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





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

<b>Sr. No.</b>	<b>Action points</b>	<b>Plan of Action</b>	<b>Current status</b>	<b>Desirable Level</b>	<b>Gap</b>	<b>Time limit</b>	<b>Responsible Stake holders</b>
1.	<b>Awareness/ training of Waste Generators</b>	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"> <li>• Chief Officers of all Nagarpalikas.</li> <li>• Regional Officer, GPCB, Nadiad.</li> </ul>

2.	<b>Authorization of Industries</b>	<ul style="list-style-type: none"> <li>No. of industrial units required to obtain Authorisation as on 31/12/2019 - 527.</li> <li>No. of industrial units issued with Authorisation as on 31/12/2019 - 527</li> </ul>	100%	100%	0	Continuous activity	<ul style="list-style-type: none"> <li>Regional Officer, GPCB, Nadiad and Head Office, Gandhinagar.</li> </ul>
3.	<b>Waste deposition centres for domestic hazardous waste</b>	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%	31/03/2020	<ul style="list-style-type: none"> <li>Chief Officers of all Nagarpalikas.</li> </ul>
4.	<b>Monitoring of compliance of Hazardous and Other waste rules 2016</b>	Unauthorised dumping of Hazardous waste is to be prevented	100%	100%	0	Continuous activity	<ul style="list-style-type: none"> <li>Regional Officer, GPCB, Nadiad</li> </ul>

## **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.**

<b>Sr. No.</b>	<b>Action points</b>	<b>Plan of Action</b>	<b>Current status</b>	<b>Desirable Level</b>	<b>Gap</b>	<b>Time limit</b>	<b>Responsible Stake holders</b>
1.	<b>Collection of E-Waste</b>	<ul style="list-style-type: none"> <li>Collection Centres to be established by ULBs in District</li> </ul>	Nil	10	100%	31/06/2020	<ul style="list-style-type: none"> <li>Chief Officers of all Nagarpalikas.</li> </ul>
2.	<b>Control E-Waste related pollution and Awareness</b>	<ul style="list-style-type: none"> <li>Creation of Awareness on E-Waste handling and disposal</li> </ul>	Awareness programs periodically conducted.	To be carried out Extensively	-	-	<ul style="list-style-type: none"> <li>Chief Officers of all Nagarpalikas.</li> <li>Regional Officer, GPCB, Nadiad.</li> </ul>

### **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.

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.**

<b>Sr. No.</b>	<b>Action points</b>	<b>Plan of Action</b>	<b>Current status</b>	<b>Desirable Level</b>	<b>Gap</b>	<b>Time limit</b>	<b>Stake holders responsible</b>
1.	<b>Domestic wastewater discharge by all Nagarpalika</b>	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"> <li>• Chief Officers of all Nagarpalikas</li> <li>• Exe. Eng. GWSSB</li> </ul>



## 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:

<b>Category</b>	<b>Number of Industries</b>
Red	178
Orange	311
Green	181
Total	670

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.**

<b>Sr. No.</b>	<b>Action points</b>	<b>Plan of Action</b>	<b>Current status</b>	<b>Desirable Level</b>	<b>Gap</b>	<b>Time limit</b>	<b>Stake holders responsible</b>
1.	<b>Industrial wastewater Quality Monitoring and Collection of data</b>	To be regularly monitored	100%	100%	0	Continuous activity	<ul style="list-style-type: none"> <li>Regional Officer, GPCB, Nadiad</li> </ul>
2	<b>Monitoring of Industrial Units</b>	To be regularly monitored	100%	100%	0	Continuous activity	<ul style="list-style-type: none"> <li>Regional Officer, GPCB, Nadiad</li> </ul>
3	<b>To monitor discharge of industrial wastewater</b>	<ul style="list-style-type: none"> <li>Status of compliance by industrial units discharging treated wastewater.</li> <li>To provide CETP for Nadiad GIDC Industries. CETP required – 1 Provided - 0</li> </ul>	95%	100%	05%	Continuous activity	<ul style="list-style-type: none"> <li>Regional Officer, GPCB, Nadiad</li> </ul>
			Nil	1	100%	31/07/2021	<ul style="list-style-type: none"> <li>Nadiad GIDC Industries Association</li> </ul>

## **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.**

<b>Sr. No.</b>	<b>Action points</b>	<b>Plan of Action</b>	<b>Current status</b>	<b>Desirable Level</b>	<b>Gap</b>	<b>Time limit</b>	<b>Stake holders responsible</b>
1.	<b>Air Quality Monitoring and Collection of data</b>	• To be regularly monitored	100%	100%	0	Continuous activity	• Regional Officer, GPCB, Nadiad
2	<b>Inventory of Air Pollution Sources</b>	Inventory of potential Air Polluting Sources	100%	100%	0	Continuous activity	• Regional Officer, GPCB, Nadiad
3	<b>Monitoring of polluting vehicle</b>	• Setting up of Auto Emission Testing Centres in the district. Number of existing Centers - 47	47	47	100%	--	RTO Police dept.
4	<b>Monitoring of compliance by Industries</b>	Regular monitoring for compliance.	95%	100%	05%	Continuous activity	Regional Officer, GPCB, Nadiad
5	<b>Creation of Awareness</b>	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.**

<b>Sr. No.</b>	<b>Action points</b>	<b>Plan of Action</b>	<b>Current status</b>	<b>Desirable Level</b>	<b>Gap</b>	<b>Time limit</b>	<b>Stake holders responsible</b>
1.	<b>Preventing illegal mining</b>	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"> <li>• District Geologist.</li> <li>• District Administration (Revenue Dept.)</li> <li>• Police Department</li> </ul>
2	<b>Monitoring</b>	Checking for Violation of approved mining plan/environmental norms	100%	100%	0	Continuous activity	<ul style="list-style-type: none"> <li>• District Geologist.</li> </ul>

## **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.	<b>Noise level Monitoring</b>	<ul style="list-style-type: none"> <li>Police Department and GPCB will conduct Noise level Monitoring as and when necessary.</li> <li>Monitoring equipment/ noise measuring devices, procured by GPCB -1, procured by police department - Nil.</li> </ul>	100%	100%	0	Continuous activity	<ul style="list-style-type: none"> <li>Police Dept.</li> <li>RO, GPCB Nadiad</li> </ul>
2	<b>Categorization of areas</b>	<ul style="list-style-type: none"> <li>Categorization of areas into industrial, commercial residential or silence areas/zones.</li> <li>Sign boards will be installed in Silent zones.</li> </ul>	Nil	100%	100%	30/06/2020	<ul style="list-style-type: none"> <li>All CO of ULBs</li> </ul>
3	<b>Restriction on use of loud speakers/ PA system</b>	<ul style="list-style-type: none"> <li>Loud speaker or a public address system will not allowed to be used without obtaining written permission</li> </ul>	100%	100%	0	Continuous activity	<ul style="list-style-type: none"> <li>District Administration</li> <li>Police Dept.</li> </ul>



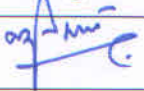











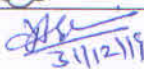
	<b>etc and monitoring</b>	<p>from the authority.</p> <ul style="list-style-type: none"> <li>• A loud speaker or a public address system will not allowed to be used at night (between 10.00 p.m. to 6.00 a.m.)</li> <li>• Special team for monitoring during festivals.</li> </ul>	100%	100%	0	Continuous activity	<ul style="list-style-type: none"> <li>• District Administration</li> <li>• Police Dept.</li> </ul>
			100%	100%	0	Continuous activity	<ul style="list-style-type: none"> <li>• Police Dept.</li> <li>• RO, GPCB Nadiad</li> </ul>
4	<b>Monitoring of polluting vehicle</b>	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"> <li>• RTO</li> </ul>
5	<b>Creation of Awareness</b>	Steps will be taken to aware general public	Awareness programs periodically conducted.	To be carried out Extensively	-	-	<ul style="list-style-type: none"> <li>• District Administration</li> <li>• RTO</li> </ul>

## 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 district environment action plan is finalised in 3<sup>rd</sup> meeting held on dated 31.12.2019**

### District Environment Committee

Sr No	Name and Designation	Designation in the committee	Sign
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 , <del>Public works department.</del> R&B. 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	 31/12/19

  
Shri I. K. Patel (I.A.S)  
Chairman of the committee and  
District Magistrate Kheda