

District Environmental Action Plan

FOR NAVSARI DISTRICT



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

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INTRODUCTION

Hon“ble 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, Principal Secretary to Government / Chairman (FAC) vide D.O. letter dated 26.07.2019 requested District Collectors to prepare District Environmental plans by constituting District Committee (as a part of District Planning Committee under Article 243 (ZD) with representatives from Panchayats, Local Bodies, Regional Officers, State PCB and a suitable officer representing the administration, which may in turn be chaired and monitored by the District Collector / District Magistrate twice every month and shall host the same in the website for a period of one year on or before 01.08.2019 & furnish monthly progress report to Chief Secretary to Government every month and copy of the same earmarked to GPC Board accordingly.

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

The District Environment Plans cover the following environmental issues:

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

1. BRIEF PROFILE OF DISTRICT

NAVSARI is an administrative district in the state of Gujarat. The district headquarter is located at NAVSARI town which is situated at south Gujarat @336 km from Gandhinagar, the State capital.

According to In 2011, Navsari had population of 1,329,672 of which male and female were 678,165 and 651,507 respectively. In 2001 census, Navsari had a population of 1,229,463 of which males were 628,988 and remaining 600,475 were females.

The sex-ratio of Navsari district is around 961 compared to 919 which is average of Gujarat state. The literacy rate of Navsari district is 75.35% out of which 79.55% males are literate and 70.98% females are literate. The total area of Navsari is 2,246 sq.km with population density of 592 per sq.km.

Out of total population, 69.23% of population lives in Urban area and 30.77% lives in Rural area. There are 2.67% Scheduled Caste (SC) and 48.11% Scheduled Tribe (ST) of total population in Navsari district.

The district has become the populated district in Gujarat. The literacy rate is 88.92% of which male 84.91% and female 92.62%. Gujarati is the most widely spoken language in the district, although Gujarati is the official language.

LOCATION & GEOGRAPHICAL AREA

Navsari district is located between 20.07- 21.00' North Latitude and 72.43-73.00' East Longitude. The district is located in the South Eastern part of Gujarat state in the coastal low land along Purnariver. The total geographical areas of Navsari district is 2657.56 Sq.Kms. It is a coastal district open to the Arabian Sea from West and is bounded by Valsad district on the North. On the East, it is contiguous to Dand district in Gujarat.

TOPOGRAPHY

Navsari district was carved out on the erstwhile – unified Valsad district with effect from 2nd October, 1997. The district can be distinctly divided into three Agro-climatically divisions (1) Forest and hilly tracts of the Eastern parts comprising Vansda blocks. (2) Saline Soils due to inundation by sea of Western parts comprising parts in Gandevi and Jalalpore blocks. (3) Black Fertile soils of the central parts comprising Navsari, Gandevi and Chikhl Blocks. The area between East and West of Navsari District is known as “Green Belt” which is suitable for gardening and nurseries. Navsari district offers good scope for entrepreneurs to establish new industrial units for manufacturing various products. The district abounds in sugarcane fields, Chikoo plantations and Mango trees. Navsari is known for its floriculture activities and sugar business. Famous historical places Dandi and Vansda National Park are located in Navsari District. Surat – Navsari industrial area lies within 50 Km. of Dedicated Freight Corridor in -2- southern Gujarat. This region is connected by NH-48. Major characteristic of the district, particularly in relation to the economic resources are Agriculture, Livestock, Fisheries etc.

INDUSTRIES IN GIDC NAVSARI

Existing Status of Industrial Areas in the District...NAVSARI.

| Sr. no. | Name of Ind. Area | Land acquired (In hectare) Land developed (In hectare) | Land developed (In hectare) | Prevailing Rate Per Sqm (In Rs.) No. of Plots | No. of Plots |
|---------|-------------------|---|-----------------------------|--|--------------|
| 1 | Navsari | 55.00 | 55.00 | 550/- | 264 |
| 2 | Bilimora | 44.00 | 44.00 | 395/- | 234 |

PRESENT SCENARIO IN THE DISTRICT

In NAVSARI District, there are 4(Four)Nagarpalikas / ULBs. The ULBs on an average generates about 131.35Metric Tones of waste per day. The quantities of waste are also growing with each passing year.

| SRN o. | NameofULB | Population (Asper2011census) | TotalWasteGenerated perday(InMT) |
|--------|-----------|-------------------------------|----------------------------------|
| 1 | NAVSARI | 160130 | 68.5 |
| 2 | Vijalpore | 81245 | 26.0 |
| 3 | Gandevi | 16827 | 5.0 |
| 4 | Bilimora | 53187 | 14.5 |



2. Waste Management Plan

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.

Further, for effective implementation of the said Rules, the Hon^{ble} NGT in its orders dated 31.08.2018 had constituted Apex Committee, Regional Committee and State Committee.

Solid Wastes generation in Navsari District:

In **NAVSARI** District, there are 4 Nagarpalikas (namely Navsari, Vijalpore, Gandevi and Bilimora). The solid waste generated from the said local bodies is being collected. The wet solid waste is either composted or micro composted. The plastic waste is collected and partly used for co-processing, partly reused road lying and for recycling for other purposes and the inert material is disposed on the solid waste dump site. In **NAVSARI** 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 detailed guidelines to be followed in respect of Solid Waste Management Rules, 2016 are illustrated below:

ANNEXURE - 1

| Sr. No. | Responsibility of District Committee | Plan of Action | Stake holders responsible |
|---------|---|---|---|
| 1. | Collection, Segregation and treatment of solid waste | <ol style="list-style-type: none"> 1. To carry out 100% door to door collection with segregation at source. 2. Quantification of generation of solid wastes (Biodegradable, Non-biodegradable, inert, etc.). 3. Methodology of composting, biomethanation, waste to energy etc. to be adopted. 4. 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. | <ol style="list-style-type: none"> 1. All Chief officers of 4 Nagarpalikas 2. All Executive Officers (Taluka Panchayat) |
| 2. | Issue of Authorisation under SWM Rules, 2016 | <p>Local bodies generating solid waste greater than 5 tons/day shall obtain Authorisation as per SWM Rules, 2016</p> <ul style="list-style-type: none"> • No. of Eligible ULBs to obtain Authorisation as on 29, December 2019 • No. of ULBs obtained Authorization NIL as on 29/12/2019. | <ol style="list-style-type: none"> 1. All Chief officers of 4 Nagarpalikas 2. All Executive Officers (Taluka Panchayat) 3. Regional Officer, GPCB, NAVSARI |
| 3. | Air Quality Monitoring, Water Quality Monitoring of dumpsites & Compost quality as per Schedule I & II of SWM Rules, 2016 at all Corporations and Nagarpalikas | <p>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</p> <p>Periodicity of Water Quality Monitoring: Summer, Monsoon, Post Monsoon</p> | <ol style="list-style-type: none"> 1. All Chief officers of 4 Nagarpalikas 2. All Executive Officers (Jilla Panchayat/Taluka Panchayats) 3. Regional Officer, GPCB, NAVSARI 4. Executive Engineer, GWSSB 5. Executive Engineer, Irrigation / Agriculture |
| 4. | Creating Awareness to the public at all the districts through Special Task Force constituted as per Mentioned letter No. for formation | <p>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</p> | <ol style="list-style-type: none"> 1. All Chief officers of 4 Nagarpalikas 2. All Executive Officers Jilla Panchayats/Taluka Panchayats) 3. Regional Officer, GPCB, Navsari 4. Public Relation Officer, District NAVSARI |
| 5. | | <p>Awareness shall be carried out through Eco-clubs in Schools, NSS & NCC in colleges</p> | <ol style="list-style-type: none"> 1. Public Relation Officer, District NAVSARI 2. Regional Officer, GPCB, NAVSARI 3. Education Officer, District Level |

2.2 Plastic Waste Management:

In NAVSARI District, there are 4 Nagarpalikas. The local bodies are directed to ensure that the plastic waste generated from all the local bodies is to be segregated and recyclable plastic waste is sold to the recyclers, low value plastic is utilized for road laying and the non-recyclable plastic waste is sent to co-incineration in Cement Plant and the remaining inert is 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, 2018 as amended.

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

With respect to effective implementation of Plastic Waste Management Rules, 2018, Hon'ble NGT had laid down several orders, of which, Hon'ble NGT in its order dated 12.03.2019 in Original Application No. 247/2017 among other things has directed all the States to prepare respective action plans for compliance of Rules and the same was submitted to the CPCB on 01.05.2019.

Further, the Government of Gujarat, in exercise of the powers conferred under Section 5 of the Environment (Protection) Act, 1986 notified ban on manufacture, store, supply, transport, sale or distribute of use and throwaway plastics from 01.01.2019.

The Action plan to be followed in respect Plastic Waste Management Rules 2018 as amended are given below:

ANNEXURE - 2

| Sr. No. | Responsibility of District Committee | Plan of Action | Stake holders responsible |
|---------|--|--|---|
| 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 | <ul style="list-style-type: none"> • All Chief officers of 4 Nagarpalikas • All Executive Officers (Taluka Panchayat • Regional Officer, GPCB, • GSPMA, NGO |
| 2. | Channelizing the collected waste plastics (T/M) | <ul style="list-style-type: none"> • Recycling of waste plastics • Mixed with bitumen for Road laying • Co-processing incineration plants • Pyrolysis plants | <ul style="list-style-type: none"> • All Chief officers of 4 Nagarpalikas • All Executive Officers Jilla Panchayats/Taluka Panchayats • Regional Officer, GPCB, |
| 3. | Issue of Registration as per PWM Rules, 2018 as amended | <ul style="list-style-type: none"> • No. of recycling units identified for Registration, and issued with Registration as on 31/12/2019 • No. of multi layered plastic units identified for Registration and issued with Registrations on 31/12/2019. | Regional Officer, GPCB, NAVSARI |
| 4. | Action regarding User & Throwaway Plastic ban | Zone wise surprise inspections will be carried out once in a month and if any banned use & throwaway plastic manufacturers found; Directions for Closure & disconnection of power supply will be affected | <ul style="list-style-type: none"> • All Chief officers of 4 Nagarpalikas • All Executive Officers (Taluka Panchayat • Regional Officer, GPCB, NAVSARI |
| 5. | Awareness creation | Awareness shall be carried out through Eco clubs in Schools, NSS & NCC in colleges | <ul style="list-style-type: none"> • Education officer, Regional Officer, GPCB, NAVSARI |

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

In NAVSARI district, Nagarpalikas and town panchayats are advised to ensure that the Construction and Demolition wastes are disposed without affecting the Environment.

As per Hon`ble NGT order dated: 15.07.2019 in OA. No. 710 – 713 /2017, the detailed guidelines to be followed in respect of C&D Waste Management Rules, 2016 by the District Committee as given below:

ANNEXURE -3

| Sr. No. | Responsibility of District Committee | Plan of Action | Stake holders responsible |
|---------|---|--|---|
| 1. | Handling of construction and demolition waste | Identification & Establishment of site for Construction and Demolition processing facility | <ul style="list-style-type: none">• All Chief officers of 4 Nagarpalikas• All Executive Officers JillaPanchyats/TalukaPanchayats• Regional Officer, GPCB, |
| 2. | Issue of Authorization | To grant authorization to C&D waste processing facility | <ul style="list-style-type: none">• Regional Officer, GPCB, NAVSARI |

2.4 Biomedical Waste Management :

In NAVSARI 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. En-clerBio-Medical Waste Pvt. Ltd. at Gokul Nagar , Near aazadnagar , bhatar , Surat and M/s. Globe BIO care, Plot no. 8208/2P & 3 , Road no.82/A, GIDC Sachin , Surat; Both are having common biomedical waste incineration facility and have obtained environmental clearance as well as Consent to Establish permission of the GPC Board. The detailed guidelines to be followed in respect of Bio Medical Waste Management Rules, 2016 by the District Committee are given below:

Present Scenario in the district :

In Navsaridistrict ,There are 193 No. of healthcare facilities including Bedded Hospitals, non-bedded HCF-454 including Pathlabs, Dental clinics & Veterinary Hospitals etc in the district .

| HCU's | Navsari | Bilimora + Gandevi | VijalporeNagarpalika |
|-------------------------------|------------|--------------------|----------------------|
| Total no. of Bedded Hospitals | 78 | 27 | 13 |
| Total no. of non-bedded HCF | 257 | 70 | 47 |
| Total no. Clinics | 174 | 50 | 34 |
| No of Veterinary Hospitals | 4 | 2 | 4 |
| Pathlabs | 18 | 6 | 5 |
| Dental Clinics | 59 | 12 | 4 |
| Blood Banks | 2 | 0 | 0 |
| Total | 335 | 97 | 60 |

As per data collected from Nagarpalika

ANNEXURE - 4

Plan of Action

| Sr. No. | Responsibility of District Committee / District Level Monitoring Committee | Plan of Action | Stake holders responsible |
|---------|--|--|---|
| 1. | Inventorisation of Occupiers and data on bio-medical waste generation, treatment & disposal | <ul style="list-style-type: none"> • Number of bedded and non-bedded Government and Private Health Care Facilities in the Districts • Number of Blood Banks, Clinical labs in the Districts • List of Institutions under Indian Medicine attached separately • Veterinary Institution & Animal Husbandry • List of Medical Institution • Forensic Labs & RD labs, etc., | <ol style="list-style-type: none"> 1. Chief District Health officer 2. Health officer, Animal Husbandry 3. Regional Officer, GPCB, NAVSARI |
| 2. | Issue of Biomedical Waste authorization under Bio Medical Waste Management Rules 2016 and issue of consent under water (P & CP) Act, 1974 as amended and under Air (P & CP) Act, 1981 as amended | As and when Inventorisation is added. | Regional Officer, GPCB, NAVSARI |
| 3. | In each district, promoting a full-fledged Common Bio Medical Waste Treatment Facilities within one Year | Set up of Common Bio Medical Waste Treatment Facilities (CBMWTFs) consisting of Incinerator having residence time of 2 seconds, shredder with autoclaving facility, sanitary landfills, ash pit etc., | Regional Officer, GPCB, NAVSARI |
| | Monitoring of compliance under Bio Medical Waste Management Rules, 2016 | <ul style="list-style-type: none"> • To Verify the number of dedicated collection vehicles matching with the quantity of Bio Medical Waste quantity generation and duration of travel • To verify the operation of GPS in each of the dedicated vehicles and functioning of the tracking system in the respective CBMWTFs portal. • verification of Autoclave & incinerable waste generated by HCFs through individual HCFs websites • To ensure all the HCFs of hospitals, nursing homes, clinics, dispensaries, veterinary institutions, animal houses, pathological laboratories, blood banks, ayush hospitals, clinical establishments, research or educational institutions, health camps, medical or surgical camps, vaccination camps, blood donation camps, first aid rooms of schools, forensic laboratories and research labs are collecting and sending the Bio Medical waste to common facility • unauthorized deep burial to be prevented. • Periodic inspection at the CBMWTFs to verify the process parameters for the autoclave, incinerator are being followed. | <ul style="list-style-type: none"> • Regional Officer, GPCB, NAVSARI • CBMWTFs operators |
| 5. | District Environmental Plans to be hosted in the Website | District Environmental Plans of the District Planning Committee, Minutes of the Monthly Meeting shall be made available in the individual district Website under | P.A. To district Collector |

| | | | |
|----|-------------------------------|--|--|
| | | the name of District planning Committee for Environment Protection. | |
| 6. | Monitoring of Monthly Reports | Monitoring of Monthly Reports to be submitted to Chief Secretary, Gujarat State every month. | District Collector Regional Officer, GPCB, NAVSARI |

2.5 Hazardous wasteManagement

“Hazardouswaste” meansanywastewhichbyreasonofcharacteristicssuch as physical,chemical,biological, reactive, toxic, flammable, explosiveor corrosive, causesdangerorislikelytocausedangertohealthorenvironment,whetheraloneorin contact with other wastes or substances,

ANNEXURE - 5

Plan of Action

| Sr No | Action Points | Strategy and approach | Stake holders responsible |
|-------|--|--|---|
| 1. | Preparation of 'Inventory of Hazardous Waste Generators' | Including Manufacturer/recycler/ refurbishes /handler of Lead Acid battery, and other lead scrap/ashes/residues not covered under Batteries (Management and Handling) Rules, 2001. | 1.Regional Officer -GPCB NAVSARI 2.CO of ULBs 3.PCB, Gujarat 4. All BDOs |
| 2. | 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. | 1. CO of ULBs 2. Representative from PCB Gujarat |
| 3. | Authorization of Industries | | PCB Gujarat |
| 4. | Waste deposition centers 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. | ULBs |

| | | | |
|----|--------------------------|---|-------------------------------------|
| 5. | Monitoring of Compliance | <p>District Level Monitoring Committee under the chairmanship of District Magistrate, NAVSARI to monitor the compliance of the provisions of Hazardous waste Management Rules</p> <p>Public Health Engineering Department, ULBs as members among others.</p> <p>RO-GPCB, NAVSARI shall be the Member Secretary of this Committee.</p> | District Level Monitoring Committee |
|----|--------------------------|---|-------------------------------------|

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

ANNEXURE - 6

Plan of Action

| Sl No | Action Points | Strategy and approach | Stake holders Responsible |
|-------|---|---|---------------------------------|
| 1. | Collection of E-Waste | <ul style="list-style-type: none">Collection Centers to be established by ULBs in DistrictDoor to door collectionAuthorizing E-Waste collectors | CO of ULBs |
| 2. | Control E-Waste related pollution and Awareness | <ul style="list-style-type: none">Creation of Awareness on E-Waste handling and disposal | Dist Administration, ULBs, NGOs |

3. Water Quality Management Plan

Central Pollution Control Board in association with State Pollution Control Boards 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 2005 to 2011, the CPCB has identified 351 polluted river stretches in the country.

Polluted River Stretches in Gujarat:

- For NAVSARI, Gujarat, CPCB has identified no any single Polluted River Stretches based on the Bio-Chemical Oxygen Demand (BOD)..
- 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.

ANNEXURE - 7

4. Domestic Sewage Management Plan

Domestic untreated sewage was found being discharged (1) from nagarpalika area of NAVSARI, Vijalpore, Gandevi and Bilimora Nagarpaliksa which is actually part of Navsari District city but untreated wastewater discharge in to River Purna , Ambika&Kaveri respectively (3) Area of GIDC Kabilpore –Navsari&Aataliya –Bilimora which is actually part of Navsari District however untreated wastewater discharge in to septic tank/soak pits. For IN NAVSARI district Nagarpalikas from areas of Navsari ,Vijalpore,Gandevi and Bilimora Nagarpalikas has been carried out the necessary work for establishment of STP to treat domestic wastewater of the said areas and not to discharge untreated sewage waste water in to rivers at the above sad river locations. Nagarpalikas has assigned to the work to establish STP for Navsari , Vijalpore, Gandevi&Bilimora Nagarpalika. The concerned authorities were directed to complete the work to stop any wastewater discharge in to rivers stretches in Navsari districts during the District Environmental Actions Plan Committee meetings. Also, the GPCB has been carried out regular monitoring of rivers stretches at designated points decided by GPCB & CPCB. Moreover, the Local bodies have been directed to ensure that no untreated sewage is discharged into the rivers.

ANNEXURE – 8

Plan of Action

| Sr. No. | Responsibility of District Committee | Plan of Action | Stake holders responsible |
|---------|---|---|--|
| 1. | Domestic wastewater discharge of Navsari , Vijalpore, Gandevi&Bilimora Nagarpalikas in to rivers Purna, Ambika&Kaveri | To provide STP and to utilize treated sewage as per State Government policy | <ul style="list-style-type: none"> Chief Officer, Nagarpalikas, Exe. Engg. GWSSB |
| 2. | Domestic wastewater discharge of Gram panchayats located near river banks area | To provide STP and to utilize treated sewage as per State Government policy | <ul style="list-style-type: none"> Gram Panchayat Authority, Taluka Panchayats |

5. Industrial Wastewater Management Plan

Navsari District is known for industries of various sectors such as Food Processing units, Textiles, Stone crushers & mining units ,Pharmaceutical Formulation, Agro fertilizers , chemicals, Cements ball mills , Dairy products and its allied Engineering, Foundries, Steel Re-Rolling, and Sugar mills & distilleries .Major industries are located in GIDC of Kabilpore&Aataliya. Major of stone crushing & black trap mining activities located T vill: Aalipore, Degam ,Duwada&chasa Ta; Chikhli/GandeviDist : Navsari.

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

| Category | Number of Industries |
|----------|----------------------|
| Red | 237 |
| Orange | 245 |
| Green | 90 |
| Total | 572 |

All the units generating wastewater are provided with Effluent Treatment Plant andtheemission sources are provided with Air Pollution Control measures with stacks to control the emissioninto the atmosphere as per the environmental laws.

ANNEXURE - 9

6. Air Quality Management Plan

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

ANNEXURE - 10

Plan of Action

| Sl No | Point of Action | Strategy and approach | Stake holders responsible |
|-------|--|--|------------------------------------|
| 1 | Air Quality Monitoring and Collection off data | <ul style="list-style-type: none"> To be monitored in association with PCB. PCB will be requested to set up facility in NAVSARI district to monitor Air Quality | GPCB |
| 2 | Inventory of Air Pollution Sources | Inventory of potential Air Polluting Sources will be made for better monitoring. | RO, NAVSARI GPCB |
| 3 | Monitoring of polluting vehicle | <ul style="list-style-type: none"> Stress will be given for setting up more Auto Emission Testing Centres in the district in addition to the existing centres. RTO will ensure that all Auto Emission Testing Centres functions as per Govt norms. | RTO Police dept. |
| 4 | Monitoring of compliance by Industries/Brick kilns | They will monitor for violation and submit report to PCB, DC | RO- GPCB, NAVSARI,DDO |
| 5 | Creation of Awareness | Public awareness to be created through IEC campaign with participation of SHGs, NGOs, students. | Dist Administration/ NGOs,DIPRO |
| 6 | Promotion of Clean fuel/new tech. chulhas | | DDOs/TDOs NGOs |

7. Mining Activity Management plan

ANNEXURE - 11

Mining Activity Management plan for the district is as follows

Plan of Action

| SI No | Action Points | Strategy and approach | Stakeholders 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 Circle Level Committees. Circle level Committee to be headed by the Circle officer and will comprise among other officials from Forest Dept., BDO. etc | Circle Officer, DFO, Geologist - mining Dept. |
| 2 | Monitoring | Checking for Violation of approved mining plan/environmental norms by the Mahaldars DFO will notify a Phone number to receive mining related complain will give wide publicity of the number. | PCB, Gujarat DFO, Mining Dept. |

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. Like smoking, 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.

ANNEXURE - 12

Plan of Action

| Sl No | Action Points | Strategy and approach | Stake holders |
|-------|---|---|--------------------------|
| 1 | Noise level Monitoring | <ul style="list-style-type: none"> PCB or its authorized Agency will conduct Noise level Monitoring. Monitoring equipment/ noise measuring devices will be procured. | GPCB Police Dept. |
| 2 | Categorization of areas | <ul style="list-style-type: none"> Categorisation of areas into industrial, commercial residential or silence areas/zones will be completed soon. Sign boards will be installed in Silent zones. | GPCB 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 be allowed to be used without obtaining written permission from the authority. A loud speaker or a public address system will not be allowed to be used at night (between 10.00 p.m. to 6.00 a.m.) Special team for monitoring during festivals. | District Administration |
| 4 | Monitoring of polluting vehicle | DTO will take steps for monitoring/ checking of vehicles to ensure environmental norms are followed by the vehicles. | RTO |

| | | | |
|---|-----------------------|-----------------------------|---------------------------------|
| 5 | Creation of Awareness | Steps will be taken to make | Dist- dministration/ NGOs |
|---|-----------------------|-----------------------------|---------------------------------|

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.

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. The users of this Plan should bear in mind that this plan is not a substitute to Govt. rules and regulations but a skeletal framework with action points and roles and responsibilities of stakeholders. *These are only suggestive but not exhaustive.*



Vipin
District Development Officer
Navsari.

In charge District Magistrate & District Collector ,Navsari cum
Chairman District Level Environment Committee,

Navsari

Date: 04-01-2020

Annexure

This district environment action plan is finalised in 1st/2nd ... meeting held on dated 19-10-2019, 26-12-2019 & 03-01-2020.

District Environment Committee, NAVSARI

| Sr. no | Name | Designation |
|--------|---|-------------------|
| 1. | District Magistrate, NAVSARI District | Chairman |
| 2. | District Superintendent of Police, NAVSARI | Member |
| 3. | District Development Officer, NAVSARI | Member |
| 4. | Dy Conservator of Forest, Forest dept.NAVSARI | Member |
| 5. | Chief District Health Officer-CDHO, Navsari | Convener |
| 6. | Chief Officers -Navsari, Vijalpore, | Member |
| 7. | Executive Engineer, Urban Water Supply, NAVSARI | Member |
| 8. | Executive Engineer, Irrigation, NAVSARI | Member |
| 9. | Executive Engineer, GWSSB, NAVSARI | Member |
| 10. | Geologist, Department of Geology & Mines, Navsari | Member |
| 11. | Representative of Revenue Department, Navsari | Member |
| 12. | Regional Officer, GPCB Navsari | Convener |
| 13. | Regional Manager,GIDCVapi | Member |
| 14. | Regional Municipal Commissioner , SUDA -Surat | Invitee Member |

ANNEXURE - 1

2.5 Solid Waste Management

NAGARPALIKA NAVSARI

| No. | Action Areas | Details of Data Requirement | Units of Measurable Outcome | Please enter Measurable Outcome for District | Current Status | Desirable level | Gap | Time line for gap |
|------|---|--|---|--|-----------------|-----------------|------|-------------------|
| | Name of Nagarpalika | | NavsariNagarपालिका | Navsari District | | | | |
| | Population | | [Nos as per 2011 census] | 160130 | | | | |
| SW1 | Report on inventory of total solid waste Generation | | | 68.5 | 68.5 | | | |
| SW1a | | Total solid waste Generation | [in MT/Day] or [Not estimated] | 68.5 | 68.5 | | | |
| SW1b | | Qty. of Dry Waste segregated | [in MT/Day] or [Collection Not initiated] | 27.5 | 27.5 | | | |
| SW1c | | Qty. of Wet Waste segregated | [in MT/Day] or [Collection Not initiated] | 41 | 41 | | | |
| SW1d | | Qty. of C&D Waste segregated | [in MT/Day] or [Collection Not initiated] | 10 | 10 | | | |
| SW1e | | Qty. of Street Sweeping | [in MT/Day] or [Not estimated] | 17 | 17 | | | |
| SW1f | | Qty. of Drain Silt | [in MT/Day] or [Not estimated] | 6 | 6 | | | |
| SW1g | | Qty. of Domestic Hazardous Waste(DHW) collected | [in MT/Day] or [No Facility] | 1 | 1 | | | |
| SW1h | | Qty. of Other Waste (Horticulture, sanitary waste, etc.) | [in MT/Day] or [Qty not estimated] | 0.1 | 0.1 | | | |
| SW1i | | No of Old dump sites | [Nos] or [None] | 1 | 1 | | | |
| SW1j | | Qty stored in dumpsites | [MT] or [Not estimated] | 46000 MT | 46000 MT | | | |
| SW1k | | No of Sanitary landfills | [Nos] or [None] | 0 | 0 | 100% | 100% | 18 months |
| SW1l | | No of wards | [nos] | 11 | 11 | | | |
| SW2 | Compliance by Bulk | | | | | | | |

| | | | | | | | | |
|------|---|--|---|----------------------|----------------------|------|------|-----------|
| | Waste Generators | | | | | | | |
| SW2a | | No of BW Generators | [numbers] or [inventory not done] | 2 | 2 | | | |
| SW2b | | No of on-site facilities for Wet Waste | [numbers] or [No data] | 2 - PIT composting | 2 - PIT composting | | | |
| SW3 | Compliance in segregated waste Collection SW Collection | | | | | | | |
| SW3a | | Total generation | [Automatic] from SW1a | 68.5 | 68.5 | | | |
| SW3b | | Wet Waste | [in MT/Day] or [Collection Not initiated] | 41 | 41 | | | |
| SW3c | | Dry Waste | [in MT/Day] or [Collection Not initiated] | 27.5 | 27.5 | | | |
| SW3d | | C&D Waste | [in MT/Day] or [Collection Not initiated] | 8 | 8 | | | |
| SW4 | Waste Management Operations | | | | | | | |
| SW4a | | Door to Door Collection | [100%] / [partial %] / [not initiated] | 100% | 100% | | | |
| SW4b | | Mechanical Road Sweeping | [100%] / [partial%] / [not initiated] | Not initiated | Not initiated | 100% | 100% | 6 Months |
| SW4c | | Manual Sweeping | [100%] / [partial%] | 100% | 100% | | | |
| SW4d | | Segregated Waste Transport | [100%] / [partial %] / [not initiated] | 100% | 100% | | | |
| SW4e | | Digesters (Bio-methanation) | [% of WW] / [not initiated] | not initiated | not initiated | 100% | 100% | 10 Months |
| SW4f | | Composting operation | [% of WW] / [not initiated] | 40% | 40% | 100% | 60% | 12 months |
| SW4g | | MRF Operation | [MRF used] / [not installed] | operational | operational | | | |
| SW4h | | Use of Sanitary Landfill | [% of SW collected] / [no SLF] | No Sanitary Landfill | No Sanitary Landfill | 100% | 100% | 12 Month |
| SW4i | | Reclamation of old dumpsites | [initiated] / [not initiated] | Remediation Start | Remediation Start | | | 18 Month |
| SW4j | | Linkage with Waste to Energy Boilers / Cement Plants | [initiated] / [not initiated] | Not initiated | Not initiated | 100% | 100% | 6 Month |
| SW4k | | Linkage with Recyclers | [initiated] / [not initiated] | Initiated | Initiated | | | |
| SW4l | | Authorization of waste | [initiated] / [not initiated] | Initiated | Initiated | | | |

| | | | | | | | | |
|------|----------------------------|---------------------------------------|--|---|---|------|------|--------------|
| | | pickers | | | | | | |
| SW4m | | Linkage with TSDf / CBMWTF | [initiated] / [not initiated] | Initiated-Generated BMW sent to CBMWTF at En-cler P Ltd Surat | Initiated-Generated BMW sent to CBMWTF at En-cler P Ltd Surat | | | |
| SW4n | | Involvement of NGOs | [initiated] / [not initiated] | Initiated-Rotary club& Lions Club | Initiated- Rotary club& Lions Club | | | |
| SW4o | | Linkage with Producers / Brand Owners | [initiated] / [not initiated] | not initiated | not initiated | | | |
| SW4p | | Authorisation of Waste Pickers | | 36 Waste picker initiated | 36 Waste picker initiated | | | |
| SW4q | | Issuance of ID Cards | [initiated] / [not initiated] | Initiated-issued ID cards | Initiated- issued ID cards | | | |
| SW5 | Adequacy of Infrastructure | | | | | | | |
| SW5a | | Waste Collection Trolleys | [Nos. Required] / [Nos. Available] | 80 | 80 | | | |
| SW5b | | Mini Collection Trucks | [Nos. Required] / [Nos. Available] | 22 | 22 | | | |
| SW5c | | Segregated Transport | [yes] / [no] / [% area covered] | Yes [50% area covered} | Yes [50% area covered} | 100% | 50% | 6 Month |
| SW5d | | Bulk Waste Trucks | [Nos. Required] / [Nos. Available] | 2 | 2 | | | |
| SW5e | | Waste Transfer points | [Nos. Required] / [Nos. Available] / [Not available] | Not available | Not available | | | Not required |
| SW5f | | Bio-methanation units | [Nos. Required] / [Nos. Available] | Not Available | Not Available | | | |
| SW5h | | Composting units | [Nos. Required] / [Nos. Available] | 1 | 1 | | | |
| SW5i | | Material Recovery Facilities | [used or installed] / [not available] | Installed at Bandar road | Installed at Bandar road | | | |
| SW5k | | Waste to Energy (if applicable) | [Required] / [Nos. Available] | Yes, Required | Yes, Required | 100% | 100% | 6 months |
| SW5l | | Waste to RDF | [Required] / [Nos. Available] | Yes -7 T | Yes -7 T | 100% | 100% | 12 months |
| SW5m | | Sanitary Landfills | [Nos] / [Nos. Available] | 0 | 0 | 100% | 100% | 12 months |
| SW5n | | Capacity of sanitary landfills | [MT] / / [Nos. Available] | 0 | 0 | | | |
| SW5o | | Waste Deposit Centers (DHW) | [Nos] / [Nos. Available] | 0 | 0 | | | |
| SW5p | | Other facilities | [give or select from list] | MSW Composting plant | MSW Composting plant | | | |

| | | | | | | | | |
|------|--|---------------------------|--|---|---|--|--|--|
| SW6 | Notification and Implementation of By-Laws | | | Yes, Notification Health bye laws and Plastic bye laws | Yes, Notification Health bye laws and Plastic bye laws | | | |
| SW6a | | Notification of By-laws | [done] / [in progress] / [not initiated] | Yes , done | Yes , done | | | |
| SW6b | | Implementation of by-laws | [done] / [in progress] / [not initiated] | Yes,Done | Yes,Done | | | |
| SW7 | Adequacy of Financial Status of ULB | | | | | | | |
| SW7a | | CAPEX Required | [INR] / [Not required] | 7.76 Cr. DPR - ---- Cr | 7.76 Cr. DPR - --- - Cr | | | |
| SW7b | | OPEX | [INR per Year] / [% of requirement] | 98,000/-Pit Compost | 98,000/-Pit Compost | | | |
| SW7c | | Adequacy of OPEX | [Yes] / [No] | Yes | Yes | | | |

NAGARPALIKA VIJALPORE

| No. | Action Areas | Details of Data Requirement | Units of Measurable Outcome | Please enter Measurable Outcome for District | Current Status | Desirable level | Gap | Time line for gap |
|------|---|--|---|--|----------------|-----------------|------|-------------------|
| | Name of Nagarpalika | | VijalporeNagar palika | Navsari District | | | | |
| | Population | | [Nos as per 2011 census] | 81245 | | | | |
| SW1 | Report on inventory of total solid waste Generation | | | 26 | 26 | | | |
| SW1a | | Total solid waste Generation | [in MT/Day] or [Not estimated] | 26 | 26 | | | |
| SW1b | | Qty. of Dry Waste segregated | [in MT/Day] or [Collection Not initiated] | 8 | 8 | | | |
| SW1c | | Qty. of Wet Waste segregated | [in MT/Day] or [Collection Not initiated] | 18 | 18 | | | |
| SW1d | | Qty. of C&D Waste segregated | [in MT/Day] or [Collection Not initiated] | 2.7 Ton | 2.7 Ton | | | |
| SW1e | | Qty. of Street Sweeping | [in MT/Day] or [Not estimated] | 6 Ton | 6 Ton | | | |
| SW1f | | Qty. of Drain Silt | [in MT/Day] or [Not estimated] | 1.5 Ton | 1.5 Ton | | | |
| SW1g | | Qty. of Domestic Hazardous Waste(DHW) collected | [in MT/Day] or [No Facility] | 0.86 Ton | 0.86 Ton | | | |
| SW1h | | Qty. of Other Waste (Horticulture, sanitary waste, etc.) | [in MT/Day] or [Qty not estimated] | 1.5 Ton | 1.5 Ton | | | |
| SW1i | | No of Old dump sites | [Nos] or [None] | 1 | 1 | | | |
| SW1j | | Qty stored in dumpsites | [MT] or [Not estimated] | 1900 Ton | 1900 Ton | | | |
| SW1k | | No of Sanitary landfills | [Nos] or [None] | None | None | 100% | 100% | 12 months |
| SW1l | | No of wards | [nos] | 9 | 9 | | | |
| SW2 | Compliance by Bulk Waste Generators | | | | | | | |
| SW2a | | No of BW Generators | [numbers] or [inventory not | 0 | 0 | | | |

| | | | | | | | | |
|------|---|--|---|----------------------|-------------------------|------|------|-----------|
| | | | done] | | | | | |
| SW2b | | No of on-site facilities for Wet Waste | [numbers] or [No data] | 0 | 0 | | | |
| SW3 | Compliance in segregated waste Collection SW Collection | | | | | | | |
| SW3a | | Total generation | [Automatic] from SW1a | 26 | 26 | | | |
| SW3b | | Wet Waste | [in MT/Day] or [Collection Not initiated] | 18 | 18 | | | |
| SW3c | | Dry Waste | [in MT/Day] or [Collection Not initiated] | 8 | 8 | | | |
| SW3d | | C&D Waste | [in MT/Day] or [Collection Not initiated] | 2.7 | 2.7 | | | |
| SW4 | Waste Management Operations | | | | | | | |
| SW4a | | Door to Door Collection | [100%] / [partial %] / [not initiated] | 100% | 100% | | | |
| SW4b | | Mechanical Road Sweeping | [100%] / [partial%] / [not initiated] | initiated | initiated | 100% | 100% | 6 Months |
| SW4c | | Manual Sweeping | [100%] / [partial%] | 100% | 100% | | | |
| SW4d | | Segregated Waste Transport | [100%] / [partial %] / [not initiated] | not initiated | not initiated | | 100% | 12 Months |
| SW4e | | Digesters (Bio-methanation) | [% of WW] / [not initiated] | not initiated | not initiated | | | |
| SW4f | | Composting operation | [% of WW] / [not initiated] | not initiated | not initiated | 100% | 100% | 12 Months |
| SW4g | | MRF Operation | [MRF used] / [not installed] | not initiated | not initiated | 100% | 100% | 12 Months |
| SW4h | | Use of Sanitary Landfill | [% of SW collected] / [no SLF] | no Sanitary Landfill | no Sanitary Landfill | 100% | 100% | 12months |
| SW4i | | Reclamation of old dumpsites | [initiated] / [not initiated] | initiated | initiated | | | |
| SW4j | | Linkage with Waste to Energy Boilers / Cement Plants | [initiated] / [not initiated] | not initiated | not initiated | | | |
| SW4k | | Linkage with Recyclers | [initiated] / [not initiated] | not initiated | not initiated | 100% | 100% | 12 months |
| SW4l | | Authorization of waste pickers | [initiated] / [not initiated] | Initiated | Initiated | | | |
| SW4m | | Linkage with TSDF / | [initiated] / [not initiated] | Initiated-Generated | Initiated-Generated BMW | | | |

| | | CBMWTF | | BMW sent to CBMWTF at En-cler P Ltd Surat | sent to CBMWTF at En-cler P Ltd Surat | | | |
|------|--|---------------------------------------|--|--|---|--|------|-----------|
| SW4n | | Involvement of NGOs | [initiated] / [not initiated] | not initiated | not initiated | | | |
| SW4o | | Linkage with Producers / Brand Owners | [initiated] / [not initiated] | not initiated | not initiated | | | |
| SW4p | | Authorisation of Waste Pickers | | Initiated – 8 waste pickers | Initiated – 8 waste pickers | | | |
| SW4q | | Issuance of ID Cards | [initiated] / [not initiated] | Initiated – issued id card | Initiated – issued id card | | | |
| SW5 | Adequacy of Infrastructure | | | | | | | |
| SW5a | | Waste Collection Trolleys | [Nos. Required] / [Nos. Available] | 36 | 36 | | | |
| SW5b | | Mini Collection Trucks | [Nos. Required] / [Nos. Available] | 12 | 12 | | | |
| SW5c | | Segregated Transport | [yes] / [no] / [% area covered] | No | No | | 100% | 12 months |
| SW5d | | Bulk Waste Trucks | [Nos. Required] / [Nos. Available] | 1 | 1 | | | |
| SW5e | | Waste Transfer points | [Nos. Required] / [Nos. Available] / [Not available] | Not available | Not available | | | |
| SW5f | | Bio-methanation units | [Nos. Required] / [Nos. Available] | 0 | 0 | | | |
| SW5h | | Composting units | [Nos. Required] / [Nos. Available] | 0 | 0 | | | |
| SW5i | | Material Recovery Facilities | [used or installed] / [not available] | not available | not available | | | |
| SW5k | | Waste to Energy (if applicable) | [Required] / [Nos. Available] | 0 | 0 | | | |
| SW5l | | Waste to RDF | [Required] / [Nos. Available] | 0 | 0 | | | |
| SW5m | | Sanitary Landfills | [Nos] / [Nos. Available] | 0 | 0 | | | |
| SW5n | | Capacity of sanitary landfills | [MT] // [Nos. Available] | 0 | 0 | | | |
| SW5o | | Waste Deposit Centers (DHW) | [Nos] / [Nos. Available] | 0 | 0 | | | |
| SW5p | | Other facilities | [give or select from list] | 0 | 0 | | | |
| SW6 | Notification and Implementation of By-Laws | | | Yes Notification Health By-Laws & Plastic By-Laws | Yes Notification Health By-Laws & Plastic By-Laws | | | |

| | | | | | | | | |
|------|-------------------------------------|---------------------------|--|---------------------|---------------------|--|--|--|
| SW6a | | Notification of By-laws | [done] / [in progress] / [not initiated] | Yes done | Yes done | | | |
| SW6b | | Implementation of by-laws | [done] / [in progress] / [not initiated] | Yes done | Yes done | | | |
| SW7 | Adequacy of Financial Status of ULB | | | | | | | |
| SW7a | | CAPEX Required | [INR] / [Not required] | 1.15 Cr. DPR | 1.15 Cr. DPR | | | |
| SW7b | | OPEX | [INR per Year] / [% of requirement] | 0 | 0 | | | |
| SW7c | | Adequacy of OPEX | [Yes] / [No] | 0 | 0 | | | |

NAGARPALIKA GANDEVI

| No. | Action Areas | Details of Data Requirement | Units of Measurable Outcome | Please enter Measurable Outcome for District | Current Status | Desirable level | Gap | Time line for gap |
|------|---|--|---|--|----------------|-----------------|------|-------------------|
| | Name of Nagarpalika | | GandeviNagarpalika | Navsari District | | | | |
| | Population | | [Nos as per 2011 census] | 16827 | | | | |
| SW1 | Report on inventory of total solid waste Generation | | | 5 | 5 | | | |
| SW1a | | Total solid waste Generation | [in MT/Day] or [Not estimated] | 5 | 5 | | | |
| SW1b | | Qty. of Dry Waste segregated | [in MT/Day] or [Collection Not initiated] | 1.7 | 1.7 | | | |
| SW1c | | Qty. of Wet Waste segregated | [in MT/Day] or [Collection Not initiated] | 2.3 | 2.3 | | | |
| SW1d | | Qty. of C&D Waste segregated | [in MT/Day] or [Collection Not initiated] | 5 Ton | 5 Ton | | | |
| SW1e | | Qty. of Street Sweeping | [in MT/Day] or [Not estimated] | 3.9 Ton | 3.9 Ton | | | |
| SW1f | | Qty. of Drain Silt | [in MT/Day] or [Not estimated] | 0.3 Ton | 0.3 Ton | | | |
| SW1g | | Qty. of Domestic Hazardous Waste(DHW) collected | [in MT/Day] or [No Facility] | 0.03 Ton | 0.03 Ton | | | |
| SW1h | | Qty. of Other Waste (Horticulture, sanitary waste, etc.) | [in MT/Day] or [Qty not estimated] | 0.25 | 0.25 | | | |
| SW1i | | No of Old dump sites | [Nos] or [None] | 1 | 1 | | | |
| SW1j | | Qty stored in dumpsites | [MT] or [Not estimated] | 3000 Ton | 3000 Ton | | | |
| SW1k | | No of Sanitary landfills | [Nos] or [None] | 0 | 0 | 100% | 100% | 18 months |
| SW1l | | No of wards | [nos] | 6 | 6 | | | |
| SW2 | Compliance by Bulk Waste Generators | | | | | | | |
| SW2a | | No of BW Generators | [numbers] or [inventory not done] | 0 | 0 | | | |
| SW2b | | No of on-site facilities | [numbers] or [No data] | PIT | PIT | | | |

| | | for Wet Waste | | composting | composting | | | |
|------|---|--|---|-----------------------|-----------------------|------|------|-----------|
| SW3 | Compliance in segregated waste Collection SW Collection | | | | | | | |
| SW3a | | Total generation | [Automatic] from SW1a | 5 | 5 | | | |
| SW3b | | Wet Waste | [in MT/Day] or [Collection Not initiated] | 2.7 | 2.7 | | | |
| SW3c | | Dry Waste | [in MT/Day] or [Collection Not initiated] | 1.3 | 1.3 | | | |
| SW3d | | C&D Waste | [in MT/Day] or [Collection Not initiated] | 1 Ton | 1 Ton | | | |
| SW4 | Waste Management Operations | | | | | | | |
| SW4a | | Door to Door Collection | [100%] / [partial %] / [not initiated] | 100% | 100% | | | |
| SW4b | | Mechanical Road Sweeping | [100%] / [partial %] / [not initiated] | 100% | 100% | | | |
| SW4c | | Manual Sweeping | [100%] / [partial %] | 100% | 100% | | | |
| SW4d | | Segregated Waste Transport | [100%] / [partial %] / [not initiated] | Partial | Partial | 100% | 20% | 6 months |
| SW4e | | Digesters (Bio-methanation) | [% of WW] / [not initiated] | not initiated | not initiated | | | |
| SW4f | | Composting operation | [% of WW] / [not initiated] | 0% Aerobic composting | 0% Aerobic composting | 100% | 100% | 12 months |
| SW4g | | MRF Operation | [MRF used] / [not installed] | Operational | Operational | | | |
| SW4h | | Use of Sanitary Landfill | [% of SW collected] / [no SLF] | [no SLF] | [no SLF] | 100% | 100% | 18 months |
| SW4i | | Reclamation of old dumpsites | [initiated] / [not initiated] | not initiated | not initiated | | | |
| SW4j | | Linkage with Waste to Energy Boilers / Cement Plants | [initiated] / [not initiated] | not initiated | not initiated | | | |
| SW4k | | Linkage with Recyclers | [initiated] / [not initiated] | Not initiated | Not initiated | 100% | 100% | 6 months |
| SW4l | | Authorization of waste pickers | [initiated] / [not initiated] | initiated | initiated | | | |
| SW4m | | Linkage with TSDF / CBMWTF | [initiated] / [not initiated] | not initiated | not initiated | | | |
| SW4n | | Involvement | [initiated] / [not initiated] | not initiated | not initiated | | | |

| | | | | | | | | |
|------|--|---------------------------------------|--|---------------|---------------|------|------|-----------|
| | | t of NGOs | initiated] | initiated | | | | |
| SW4o | | Linkage with Producers / Brand Owners | [initiated] / [not initiated] | not initiated | not initiated | | | |
| SW4p | | Authorisation of Waste Pickers | | not initiated | not initiated | | | |
| SW4q | | Issuance of ID Cards | [initiated] / [not initiated] | initiated | initiated | | | |
| SW5 | Adequacy of Infrastructure | | | | | | | |
| SW5a | | Waste Collection Trolleys | [Nos. Required] / [Nos. Available] | 4 | 4 | | | |
| SW5b | | Mini Collection Trucks | [Nos. Required] / [Nos. Available] | 3 | 3 | | | |
| SW5c | | Segregated Transport | [yes] / [no] / [% area covered] | yes | yes | | | |
| SW5d | | Bulk Waste Trucks | [Nos. Required] / [Nos. Available] | 0 | 0 | | | |
| SW5e | | Waste Transfer points | [Nos. Required] / [Nos. Available] / [Not available] | Not available | Not available | | | |
| SW5f | | Bio-methanation units | [Nos. Required] / [Nos. Available] | 0 | 0 | | | |
| SW5h | | Composting units | [Nos. Required] / [Nos. Available] | None | None | 100% | 100% | 6 months |
| SW5i | | Material Recovery Facilities | [used or installed] / [not available] | None | None | 100% | 100% | 6 months |
| SW5k | | Waste to Energy (if applicable) | [Required] / [Nos. Available] | not initiated | not initiated | | | |
| SW5l | | Waste to RDF | [Required] / [Nos. Available] | 0 | 0 | | | |
| SW5m | | Sanitary Land fills | [Nos] / [Nos. Available] | 0 | 0 | 100% | 100% | 18 months |
| SW5n | | Capacity of sanitary landfills | [MT] / [Nos. Available] | None | None | 100% | 100% | 18 months |
| SW5o | | Waste Deposit Centers (DHW) | [Nos] / [Nos. Available] | 0 | 0 | | | |
| SW5p | | Other facilities | [give or select from list] | 0 | 0 | | | |
| SW6 | Notification and Implementation of By-Laws | | | | | | | |
| SW6a | | Notification of By-laws | [done] / [in progress] / [not initiated] | Yes | Yes | | | |
| SW6b | | Implementation of by-laws | [done] / [in progress] / [not initiated] | Yes | Yes | | | |
| SW7 | Adequacy of Financial Status of ULB | | | | | | | |

| | | | | | | | | |
|------|--|------------------|-------------------------------------|-------------------|-------------------|--|--|--|
| SW7a | | CAPEX Required | [INR] / [Not required] | 1.02Cr DPR | 1.02Cr DPR | | | |
| SW7b | | OPEX | [INR per Year] / [% of requirement] | 0.0 | 0.0 | | | |
| SW7c | | Adequacy of OPEX | [Yes] / [No] | 0 | 0 | | | |

NAGARPALIKA BILIMORA

| No. | Action Areas | Details of Data Requirement | Units of Measurable Outcome | Please enter Measurable Outcome for District | Current Status | Desirable level | Gap | Time line for gap |
|------|---|--|---|--|----------------|-----------------|------|-------------------|
| | Name of Nagarpalika | | BilimoraNagarpalika | Navsari District | | | | |
| | Population | | [Nos as per 2011 census] | 53187 | | | | |
| SW1 | Report on inventory of total solid waste Generation | | | 14.50 | 14.50 | | | |
| SW1a | | Total solid waste Generation | [in MT/Day] or [Not estimated] | 14.50 | 14.50 | | | |
| SW1b | | Qty. of Dry Waste segregated | [in MT/Day] or [Collection Not initiated] | 4.9 | 4.9 | | | |
| SW1c | | Qty. of Wet Waste segregated | [in MT/Day] or [Collection Not initiated] | 9.6 | 9.6 | | | |
| SW1d | | Qty. of C&D Waste segregated | [in MT/Day] or [Collection Not initiated] | initiated | initiated | 100% | 100% | 14 months |
| SW1e | | Qty. of Street Sweeping | [in MT/Day] or [Not estimated] | 2 | 2 | | | |
| SW1f | | Qty. of Drain Silt | [in MT/Day] or [Not estimated] | 1 | 1 | | | |
| SW1g | | Qty. of Domestic Hazardous Waste(DHW) collected | [in MT/Day] or [No Facility] | 0.02 | 0.02 | | | |
| SW1h | | Qty. of Other Waste (Horticulture, sanitary waste, etc.) | [in MT/Day] or [Qty not estimated] | 0.045 | 0.045 | | | |
| SW1i | | No of Old dump sites | [Nos] or [None] | 1 | 1 | | | |
| SW1j | | Qty stored in dumpsites | [MT] or [Not estimated] | 2000 | 2000 | | | |
| SW1k | | No of Sanitary landfills | [Nos] or [None] | 0 | 0 | 100% | 100% | 18 months |
| SW1l | | No of wards | [nos] | 9 | 9 | | | |
| SW2 | Compliance by Bulk Waste Generators | | | | | | | |
| SW2a | | No of BW Generators | [numbers] or [inventory not done] | 0 | 0 | | | |
| SW2b | | No of on-site facilities | [numbers] or [No data] | 0 | 0 | | | |

| | | | | | | | | |
|------|---|--|---|---|---|------|------|-----------|
| | | for Wet Waste | | | | | | |
| SW3 | Compliance in segregated waste Collection SW Collection | | | | | | | |
| SW3a | | Total generation | [Automatic] from SW1a | 14.5 | 14.5 | | | |
| SW3b | | Wet Waste | [in MT/Day] or [Collection Not initiated] | 9.6 | 9.6 | | | |
| SW3c | | Dry Waste | [in MT/Day] or [Collection Not initiated] | 4.9 | 4.9 | | | |
| SW3d | | C&D Waste | [in MT/Day] or [Collection Not initiated] | 0.500 | 0.500 | | | |
| SW4 | Waste Management Operations | | | | | | | |
| SW4a | | Door to Door Collection | [100%] / [partial %] / [not initiated] | 100% | 100% | | | |
| SW4b | | Mechanical Road Sweeping | [100%] / [partial%] / [not initiated] | 80% | 80% | 100% | 20% | 14 months |
| SW4c | | Manual Sweeping | [100%] / [partial%] | 100% | 100% | | | |
| SW4d | | Segregated Waste Transport | [100%] / [partial %] / [not initiated] | 100% | 100% | | | |
| SW4e | | Digesters (Bio-methanation) | [% of WW] / [not initiated] | not initiated | not initiated | 100% | 100% | 14 months |
| SW4f | | Composting operation | [% of WW] / [not initiated] | not initiated | not initiated | 100% | 100% | 14 months |
| SW4g | | MRF Operation | [MRF used] / [not installed] | Manual operated | Manual operated | | | |
| SW4h | | Use of Sanitary Landfill | [% of SW collected] / [no SLF] | no SLF | no SLF | 100% | 100% | 18 months |
| SW4i | | Reclamation of old dumpsites | [initiated] / [not initiated] | not initiated | not initiated | 100% | 100% | 18 months |
| SW4j | | Linkage with Waste to Energy Boilers / Cement Plants | [initiated] / [not initiated] | not initiated | not initiated | 100% | 100% | 14 months |
| SW4k | | Linkage with Recyclers | [initiated] / [not initiated] | not initiated | not initiated | | 100% | 14 months |
| SW4l | | Authorization of waste pickers | [initiated] / [not initiated] | initiated | initiated | | | |
| SW4m | | Linkage with TSDF / CBMWTF | [initiated] / [not initiated] | Initiated-Generated BMW sent to CBMWTF at En-cler P Ltd Surat | Initiated-Generated BMW sent to CBMWTF at En-cler P Ltd Surat | | | |

| | | | | | | | | |
|------|--|---------------------------------------|--|---------------------------|----------------------------|------|------|-----------|
| SW4n | | Involvement of NGOs | [initiated] / [not initiated] | not initiated | not initiated | 100% | 100% | 6 months |
| SW4o | | Linkage with Producers / Brand Owners | [initiated] / [not initiated] | not initiated | not initiated | | | |
| SW4p | | Authorisation of Waste Pickers | | 11 Waste picker initiated | 11 Waste picker initiated | | | |
| SW4q | | Issuance of ID Cards | [initiated] / [not initiated] | Initiated-issued ID cards | Initiated- issued ID cards | | | |
| SW5 | Adequacy of Infrastructure | | | | | | | |
| SW5a | | Waste Collection Trolleys | [Nos. Required] / [Nos. Available] | 40 | 40 | | | |
| SW5b | | Mini Collection Trucks | [Nos. Required] / [Nos. Available] | 10 | 10 | | | |
| SW5c | | Segregated Transport | [yes] / [no] / [% area covered] | Yes [60% area covered} | Yes [60% area covered} | 100% | 40% | 6 month |
| SW5d | | Bulk Waste Trucks | [Nos. Required] / [Nos. Available] | 1 | 1 | | | |
| SW5e | | Waste Transfer points | [Nos. Required] / [Nos. Available] / [Not available] | Not available | Not available | | | |
| SW5f | | Bio-methanation units | [Nos. Required] / [Nos. Available] | 0 | 0 | | | |
| SW5h | | Composting units | [Nos. Required] / [Nos. Available] | 0 | 0 | | 100% | 6 months |
| SW5i | | Material Recovery Facilities | [used or installed] / [not available] | not available | not available | | 100% | 6 months |
| SW5k | | Waste to Energy (if applicable) | [Required] / [Nos. Available] | Not Required | Not Required | | | |
| SW5l | | Waste to RDF | [Required] / [Nos. Available] | 0 | 0 | | | |
| SW5m | | Sanitary Land fills | [Nos] / [Nos. Available] | 0 | 0 | 100% | 100% | 18 months |
| SW5n | | Capacity of sanitary landfills | [MT] // [Nos. Available] | 100 MT | 100 MT | 100% | 100% | 18 months |
| SW5o | | Waste Deposit Centers (DHW) | [Nos] / [Nos. Available] | 0 | 0 | | | |
| SW5p | | Other facilities | [give or select from list] | Not Available | Not Available | | | |
| SW6 | Notification and Implementation of By-Laws | | | | | | | |
| SW6a | | Notification of By-laws | [done] / [in progress] / [not initiated] | Yes , done | Yes , done | | | |
| SW6b | | Implementation of by-laws | [done] / [in progress] / [not initiated] | Yes , done | Yes , done | | | |

| | | | | | | | | |
|------|-------------------------------------|------------------|-------------------------------------|---------------------|---------------------|--|--|--|
| SW7 | Adequacy of Financial Status of ULB | | | | | | | |
| SW7a | | CAPEX Required | [INR] / [Not required] | 5.52 Cr. DPR | 5.52 Cr. DPR | | | |
| SW7b | | OPEX | [INR per Year] / [% of requirement] | 0 | 0 | | | |
| SW7c | | Adequacy of OPEX | [Yes] / [No] | Yes | Yes | | | |

ANNEXURE - 2

2.2 Plastic Waste Management:

NAGARPALIKA NAVSARI

| No. | Action Areas | Details of Data Requirement | Units of Measurable Outcome | Please enter Measurable Outcome for District | Current Status | Desirable level | Gap | Time line for gap |
|--------------|---|---|--|--|---------------------------|-----------------|-------------|-------------------|
| | Name of Nagarpalika | | NavsariNagarpalika | | | | | |
| | Population | | | 160130 | | | | |
| PW1 | Inventory of plastic waste generation | | | 8 T | 8 T | | | |
| PW1 a | | Estimated Quantity of plastic waste generated in District | [MT/day] / [Not Estimated] | 8 T | 8 T | | | |
| PW2 | Implementation of Collection | | | | | | | |
| PW2 a | | Door to Door collection | [100%] / [partial %] / [not initiated] | 100% | 100% | | | |
| PW2 b | | Segregated Waste collection | [100%] / [partial %] | 100% | 100% | | | |
| PW2c | | Plastic waste collection at Material Recovery Facility | [MRF used] / [not installed] | MRF used | MRF used | | | |
| PW2 d | | Authorization of PW pickers | [Nos] / [not initiated] | 5 | 5 | | | |
| PW2 e | | PW collection Centers | [Nos] / [not established] | 1 collector Office | 1 collector Office | | | |
| PW3 | Establishment of linkage with Stakeholders | | | 5 | 5 | | | |
| PW3 a | | Established linkage with PROs of Producers | [Nos] / [not established] | not established | not established | | | |
| PW3 b | | Established linkage with NGOs | [Nos] / [not established] | not established | not established | | | |
| PW4 | Availability of facilities for Recycling or utilization of PW | | | not established | not established | | | |
| PW4 a | | No. of PW recyclers | [Nos] | 0 | 0 | | | |
| PW4 b | | No Manufacturers | [Nos] | 0 | 0 | | | |
| PW4c | | No of pyrolysis oil plants | [Nos] | 0 | 0 | | | |
| PW4 d | | Plastic pyrolysis | [Quantity in MT sent per Month] | 0 | 0 | 100% | 100% | 8 Month |
| PW4 e | | Use in road making | [Quantity MT used per Month] | 0 | 0 | 100% | 100% | 6 Month |
| PW4f | | Co-processing in Cement Kiln | [Quantity in MT sent per Month] | 0 | 0 | | | |
| W5 | Implementation of PW | | | Implemented | Implemented | | | |

| | | | | | | | | |
|-------------|--|---|--|--|--|--|--|--|
| | Management Rules, 2016 | | | 27/11/2018 NAGARPALIK A follow the rules of PW Management Rules ,2016 . | 27/11/2018 NAGARPALIK A follow the rules of PW Management Rules ,2016 . | | | |
| W5a | | Sealing of units producing < 50-micron plastic | [All sealed] / [Partial] / [no action] | None | None | | | |
| PW5b | | Prohibiting sale of carry bags < 50 micron | [Prohibited] / [Partial] / [no action] | 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 | | | |
| PW6 | Implementation of Extended Producers Responsibility (EPR) through Producers/Brand-owners | | | Implemented | Implemented | | | |
| PW6a | | No of Producers associated with ULBs | [Nos] / [None] | None | None | | | |
| PW6b | | Financial support by Producers / Brand owners to ULBs | [Nos] / [None] | None | None | | | |
| PW6c | | Amount of PRO Support | [Rs...] | None | None | | | |
| PW6d | | Infrastructure support by Producers / Brand owners to ULBs | [Nos of Producers] / [None] | None | None | | | |
| PW6e | | No of collection centers established by Producers / Brand owners to ULBs | [Nos] / [None] | None | None | | | |

NAGARPALIKA VIJALPORE

| No. | Action Areas | Details of Data Requirement | Units of Measurable Outcome | Please enter Measurable Outcome for District | Current Status | Desirable level | Gap | Time line for gap |
|------------|---------------------------------------|-----------------------------|-----------------------------|--|----------------|-----------------|-----|-------------------|
| | Name of Nagarpalika | | VijalporeNagarpalika | | | | | |
| | Population | | | 81245 | | | | |
| PW1 | Inventory of plastic waste generation | | | 0.8 Ton | 0.8 Ton | | | |

| | | | | | | | | |
|-------------|---|---|--|---|---|------|------|----------|
| PW1a | | Estimated Quantity of plastic waste generated in District | [MT/day] / [Not Estimated] | 0.8 Ton | 0.8 Ton | | | |
| PW2 | Implementation of Collection | | | | | | | |
| PW2a | | Door to Door collection | [100%] / [partial %] / [not initiated] | 100% | 100% | | | |
| PW2b | | Segregated Waste collection | [100%] / [partial %] | 100% | 100% | | | |
| PW2c | | Plastic waste collection at Material Recovery Facility | [MRF used] / [not installed] | Not Installed | Not Installed | 100% | 100% | 6 Months |
| PW2d | | Authorization of PW pickers | [Nos] / [not initiated] | 0 | 0 | | | |
| PW2e | | PW collection Centers | [Nos] / [not established] | 0 | 0 | | | |
| PW3 | Establishment of linkage with Stakeholders | | | | | | | |
| PW3a | | Established linkage with PROs of Producers | [Nos] / [not established] | not established | not established | | | |
| PW3b | | Established linkage with NGOs | [Nos] / [not established] | not established | not established | | | |
| PW4 | Availability of facilities for Recycling or utilization of PW | | | | | | | |
| PW4a | | No. of PW recyclers | [Nos] | 0 | 0 | | | |
| PW4b | | No Manufacturers | [Nos] | 0 | 0 | | | |
| PW4c | | No of pyrolysis oil plants | [Nos] | 0 | 0 | | | |
| PW4d | | Plastic pyrolysis | [Quantity in MT sent per Month] | 0 | 0 | | | |
| PW4e | | Use in road making | [Quantity MT used per Month] | 0 | 0 | | | |
| PW4f | | Co-processing in Cement Kiln | [Quantity in MT sent per Month] | 0 | 0 | | | |
| W5 | Implementation of PW Management Rules, 2016 | | | 28/01/2019 by laws Implemented follow the rules of PWM 2016 | 28/01/2019 by laws Implemented follow the rules of PWM 2016 | | | |
| W5a | | Sealing of units producing < 50-micron plastic | [All sealed] / [Partial] / [no action] | None | None | | | |
| PW5b | | Prohibiting sale of carry bags < 50 micron | [Prohibited] / [Partial] / [no action] | 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 | | | |
| PW6 | Implementation of Extended | | | Implemented | Implemented | | | |

| | | | | | | | | |
|-------------|---|--|-----------------------------|------|------|--|--|--|
| | Producers Responsibility (EPR) through Producers/Brand-owners | | | | | | | |
| PW6a | | No of Producers associated with ULBs | [Nos] / [None] | None | None | | | |
| PW6b | | Financial support by Producers / Brand owners to ULBs | [Nos] / [None] | None | None | | | |
| PW6c | | Amount of PRO Support | [Rs...] | None | None | | | |
| PW6d | | Infrastructure support by Producers / Brand owners to ULBs | [Nos of Producers] / [None] | None | None | | | |
| PW6e | | No of collection centers established by Producers / Brand owners to ULBs | [Nos] / [None] | None | None | | | |

| No. | Action Areas | Details of Data Requirement | Units of Measurable Outcome | Please enter Measurable Outcome for District | Current Status | Desirable level | Gap | Time line for gap |
|-------------|---|---|--|--|--|-----------------|------|-------------------|
| | Name of Nagarpalika | | Gandevi Nagarpalika | | | | | |
| | Population | | | 16827 | | | | |
| PW1 | Inventory of plastic waste generation | | | 0.062 MT | 0.062 MT | | | |
| PW1a | | Estimated Quantity of plastic waste generated in District | [MT/day] / [Not Estimated] | 0.062MT | 0.062MT | | | |
| PW2 | Implementation of Collection | | | | | | | |
| PW2a | | Door to Door collection | [100%] / [partial %] / [not initiated] | 100% | 100% | | | |
| PW2b | | Segregated Waste collection | [100%] / [partial %] | 100% | 100% | | | |
| PW2c | | Plastic waste collection at Material Recovery Facility | [MRF used] / [not installed] | MRF Used | MRF Used | | | |
| PW2d | | Authorization of PW pickers | [Nos] / [not initiated] | 0 | 0 | | | |
| PW2e | | PW collection Centers | [Nos] / [not established] | 0 | 0 | | | |
| PW3 | Establishment of linkage with Stakeholders | | | | | | | |
| PW3a | | Established linkage with PROs of Producers | [Nos] / [not established] | not established | not established | | | |
| PW3b | | Established linkage with NGOs | [Nos] / [not established] | not established | not established | 100% | 100% | 6 months |
| PW4 | Availability of facilities for Recycling or utilization of PW | | | | | | | |
| PW4a | | No. of PW recyclers | [Nos] | not established | not established | | | |
| PW4b | | No Manufacturers | [Nos] | not established | not established | | | |
| PW4c | | No of pyrolysis oil plants | [Nos] | 0 | 0 | | | |
| PW4d | | Plastic pyrolysis | [Quantity in MT sent per Month] | 0 | 0 | | | |
| PW4e | | Use in road making | [Quantity MT used per Month] | 0 | 0 | | | |
| PW4f | | Co-processing in Cement Kiln | [Quantity in MT sent per Month] | n | n | | | |
| W5 | Implementation of PW Management Rules, 2016 | | | 28/10/2018 NAGARPALIKA follow the rules of PW Management Rules ,2016 . | 28/10/2018 NAGARPALIKA follow the rules of PW Management Rules ,2016 . | | | |
| W5a | | Sealing of units producing < 50-micron plastic | [All sealed] / [Partial] / [no action] | Nil | Nil | | | |
| PW5b | | Prohibiting sale of carry | [Prohibited] / [Partial] / [no] | Prohibited | Prohibited | | | |

| | | | | | | | | |
|-------------|--|---|--|-------------|-------------|--|--|--|
| | | bags < 50 micron | action] | | | | | |
| PW5c | | Ban on Carry bags and other single use plastics as notified by State Government | [Implemented] / [Partial] / [no action] / [No Ban] | Implemented | Implemented | | | |
| PW6 | Implementation of Extended Producers Responsibility (EPR) through Producers/Brand-owners | | | | | | | |
| PW6a | | No of Producers associated with ULBs | [Nos] / [None] | None | None | | | |
| PW6b | | Financial support by Producers / Brand owners to ULBs | [Nos] / [None] | None | None | | | |
| PW6c | | Amount of PRO Support | [Rs...] | None | None | | | |
| PW6d | | Infrastructure support by Producers / Brand owners to ULBs | [Nos of Producers] / [None] | None | None | | | |
| PW6e | | No of collection centers established by Producers / Brand owners to ULBs | [Nos] / [None] | None | None | | | |

NAGARPALIKA GANDEVI

NAGARPALIKA BILIMORA

| No. | Action Areas | Details of Data Requirement | Units of Measurable Outcome | Please enter Measurable Outcome for District | Current Status | Desirable level | Gap | Time line for gap |
|-------------|---|---|--|--|-----------------|-----------------|-------|-------------------|
| | Name of Nagarpalika | | GandeviNagarpalika | | | | | |
| | Population | | | 53187 | | | | |
| PW1 | Inventory of plastic waste generation | | | | | | | |
| PW1a | | Estimated Quantity of plastic waste generated in District | [MT/day] / [Not Estimated] | 0.255 | 0.255 | | | |
| PW2 | Implementation of Collection | | | | | | | |
| PW2a | | Door to Door collection | [100%] / [partial %] / [not initiated] | 100% | 100% | | | |
| PW2b | | Segregated Waste collection | [100%] / [partial %] | 60% | 60% | 100% | 40% | 3 months |
| PW2c | | Plastic waste collection at Material Recovery Facility | [MRF used] / [not installed] | Manual operated | Manual operated | 100% | 100 % | 12 months |
| PW2d | | Authorization of PW pickers | [Nos] / [not initiated] | 0 | 0 | | 100 % | 6 months |
| PW2e | | PW collection Centers | [Nos] / [not established] | 0 | 0 | | 100 % | 6 months |
| PW3 | Establishment of linkage with Stakeholders | | | | | | | |
| PW3a | | Established linkage with PROs of Producers | [Nos] / [not established] | not established | not established | | | |
| PW3b | | Established linkage with NGOs | [Nos] / [not established] | not established | not established | | | |
| PW4 | Availability of facilities for Recycling or utilization of PW | | | | | | | |
| PW4a | | No. of PW recyclers | [Nos] | 0 | 0 | | | |
| PW4b | | No Manufacturers | [Nos] | 0 | 0 | | | |
| PW4c | | No of pyrolysis oil plants | [Nos] | 0 | 0 | | | |
| PW4d | | Plastic pyrolysis | [Quantity in MT sent per Month] | 0 | 0 | | 100% | 12 Month |
| PW4e | | Use in road making | [Quantity MT used per Month] | 0 | 0 | | 100% | 12 Month |
| PW4f | | Co-processing in Cement Kiln | [Quantity in MT sent per Month] | 0 | 0 | | 100% | 8 Month |
| W5 | Implementation of PW Management Rules, 2016 | | | | | | | |
| W5a | | Sealing of units producing < 50-micron plastic | [All sealed] / [Partial] / [no action] | None | None | | | |
| PW5b | | Prohibiting sale of carry bags < 50 micron | [Prohibited] / [Partial] / [no action] | 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 | | | |
| PW6 | Implementation of Extended Producers Responsibility (EPR) through Producers/Brand-owners | | | | | | | |
| PW6a | | No of Producers associated with ULBs | [Nos] / [None] | None | None | | | |
| PW6b | | Financial support by Producers / Brand owners to ULBs | [Nos] / [None] | None | None | | | |
| PW6c | | Amount of PRO Support | [Rs...] | None | None | | | |
| PW6d | | Infrastructure support by Producers / Brand owners to ULBs | [Nos of Producers] / [None] | None | None | | | |
| PW6e | | No of collection centers established by Producers / Brand owners to ULBs | [Nos] / [None] | None | None | | | |

ANNEXURE - 3

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

| No. | Action Areas | Details of Data Requirement | Units of Measurable Outcome | Please enter Measurable Outcome for District | Current Status | Desirable level | Gap | Time line for gap |
|------|--|---|--|--|--|-----------------|-----|-------------------|
| | Name of Nagarpalika | NavsariNagarpalika | | | | | | |
| | Population | | | 160130 | | | | |
| CD1 | Inventory of C&D waste generation | | | 10 T | 10 T | | | |
| CD1a | | Estimated Quantity | [Kg/Day] / [Not estimated] | 10000 kg | 10000 kg | | | |
| CD2 | Implement scheme for permitting bulk waste generators | | | 2 | 2 | | | |
| CD2a | | Issuance of Permissions by ULBs | [Initiated] / [Not initiated] | Initiated | Initiated | | | |
| CD3 | Establishment of C&D Waste Deposition centers | | | 4(Jay sankar party , Bandar road , ring road, sardar township) | 4(Jay sankar party , Bandar road , ring road, sardar township) | | | |
| CD3a | | Establishment of Deposition Points | [Yes] / [No] | Yes | Yes | | | |
| CD3b | | C&D Deposition point identified | [Yes] / [No] | Yes | Yes | | | |
| CD4 | Implementation of By-Laws for CD Waste Management | | | Yes | Yes | | | |
| CD4a | | Implementation of By-laws | [notified] / [not notified] | Notified 27/11/2018 | Notified 27/11/2018 | | | |
| CD4b | | Collection of Deposition / disposal Charges | [Initiated] / [Not initiated] | Initiated 750 per trip | Initiated 750 per trip | | | |
| CD5 | Establishment of C&D Waste recycling plant or linkage with such facility | | | In Navsarinagarpalika we have Cetnterlized C & D Unit | In Navsarinagarpalika we have Cetnterlized C & D Unit | | | |
| CD5a | | Establishment CD Waste Recycling Plant | [Established] / [Sent to shared Facility] / [No facility exists] | In Navsarinagarpalika we have Cetnterlized C & D Unit | In Navsarinagarpalika we have Cetnterlized C & D Unit | | | |
| CD5b | | Capacity of CD Waste Recycling Plant | [MT/Day] / [Not available] | NavsariNagarpalika C & D waste used in Gov.sector,landfilling | NavsariNagarpalika C & D waste used in Gov.sector,landfilling | | | |

NAGARPALIKA VIJALPORE

| No. | Action Areas | Details of Data Requirement | Units of Measurable Outcome | Please enter Measurable Outcome for District | Current Status | Desirable level | Gap | Time line for gap |
|------|--|---|--|--|---------------------|-----------------|------|-------------------|
| | Name of Nagarpalika | VijalporeNagarpalika | | | | | | |
| | Population | | | 81245 | | | | |
| CD1 | Inventory of C&D waste generation | | | 1.7 Ton | 1.7 Ton | | | |
| CD1a | | Estimated Quantity | [Kg/Day] / [Not estimated] | 1700KG | 1700KG | | | |
| CD2 | Implement scheme for permitting bulk waste generators | | | 0 | 0 | | | |
| CD2a | | Issuance of Permissions by ULBs | [Initiated] / [Not initiated] | Not initiated | Not initiated | | | |
| CD3 | Establishment of C&D Waste Deposition centers | | | No center | No center | | | |
| CD3a | | Establishment of Deposition Points | [Yes] / [No] | No | No | 100% | 100% | 6 month |
| CD3b | | C&D Deposition point identified | [Yes] / [No] | No | No | 100% | 100% | 3 month |
| CD4 | Implementation of By-Laws for CD Waste Management | | | Yes | Yes | | | |
| CD4a | | Implementation of By-laws | [notified] / [not notified] | notified 24/10/2018 | notified 24/10/2018 | | | |
| CD4b | | Collection of Deposition / disposal Charges | [Initiated] / [Not initiated] | Not initiated | Not initiated | | | |
| CD5 | Establishment of C&D Waste recycling plant or linkage with such facility | | | | | | | |
| CD5a | | Establishment CD Waste Recycling Plant | [Established] / [Sent to shared Facility] / [No facility exists] | No facility exists | No facility exists | | | |
| CD5b | | Capacity of CD Waste Recycling Plant | [MT/Day] / [Not available] | Not available | Not available | | | |

NAGARPALIKA GANDEVI

| No. | Action Areas | Details of Data Requirement | Units of Measurable Outcome | Please enter Measurable Outcome for District | Current Status | Desirable level | Gap | Time line for gap |
|------|--|---|--|---|---|-----------------|-----|-------------------|
| | Name of Nagarpalika | GandeviNagarpalika | | | | | | |
| | Population | | | 16827 | | | | |
| CD1 | Inventory of C&D waste generation | | | 1 Ton | 1 Ton | | | |
| CD1a | | Estimated Quantity | [Kg/Day] / [Not estimated] | 1000 kg | 1000 kg | | | |
| CD2 | Implement scheme for permitting bulk waste generators | | | 0 | 0 | | | |
| CD2a | | Issuance of Permissions by ULBs | [Initiated] / [Not initiated] | Initiated | Initiated | | | |
| CD3 | Establishment of C&D Waste Deposition centers | | | PanitakiGandevi | PanitakiGandevi | | | |
| CD3a | | Establishment of Deposition Points | [Yes] / [No] | Yes | Yes | | | |
| CD3b | | C&D Deposition point identified | [Yes] / [No] | Yes | Yes | | | |
| CD4 | Implementation of By-Laws for CD Waste Management | | | Yes | Yes | | | |
| CD4a | | Implementation of By-laws | [notified] / [not notified] | notified 28/11/2018 | notified 28/11/2018 | | | |
| CD4b | | Collection of Deposition / disposal Charges | [Initiated] / [Not initiated] | Initiated 500 per trip | Initiated 500 per trip | | | |
| CD5 | Establishment of C&D Waste recycling plant or linkage with such facility | | | In Gandevinagarpalika we have Cetnterlized C & D Unit | In Gandevinagarpalika we have Cetnterlized C & D Unit | | | |
| CD5a | | Establishment CD Waste Recycling Plant | [Established] / [Sent to shared Facility] / [No facility exists] | In Gandevinagarpalika we have Cetnterlized C & D Unit | In Gandevinagarpalika we have Cetnterlized C & D Unit | | | |
| CD5b | | Capacity of CD Waste Recycling Plant | [MT/Day] / [Not available] | 20 MTD | 20 MTD | | | |

NAGARPALIKA BILIMORA

| No. | Action Areas | Details of Data Requirement | Units of Measurable Outcome | Please enter Measurable Outcome for District | Current Status | Desirable level | Gap | Time line for gap |
|------|--|---|--|--|--------------------------|-----------------|------|-------------------|
| | Name of Nagarpalika | BilimoraNagarpalika | | | | | | |
| | Population | | | 53187 | | | | |
| CD1 | Inventory of C&D waste generation | | | 0.500 TPD | 0.500 TPD | | | |
| CD1a | | Estimated Quantity | [Kg/Day] / [Not estimated] | 500 kg | 500 kg | | | |
| CD2 | Implement scheme for permitting bulk waste generators | | | No bulk waste generators | No bulk waste generators | | | |
| CD2a | | Issuance of Permissions by ULBs | [Initiated] / [Not initiated] | Not initiated | Not initiated | | 100% | 12 months |
| CD3 | Establishment of C&D Waste Deposition centers | | | Not initiated | Not initiated | | 100% | 12 months |
| CD3a | | Establishment of Deposition Points | [Yes] / [No] | yes | yes | 50% | 50% | 6 month |
| CD3b | | C&D Deposition point identified | [Yes] / [No] | yes | yes | | | |
| CD4 | Implementation of By-Laws for CD Waste Management | | | Yes | Yes | | | |
| CD4a | | Implementation of By-laws | [notified] / [not notified] | Notified 29/1/2019 | Notified 29/1/2019 | | | |
| CD4b | | Collection of Deposition / disposal Charges | [Initiated] / [Not initiated] | 1000 | 1000 | | | |
| CD5 | Establishment of C&D Waste recycling plant or linkage with such facility | | | No | No | | | |
| CD5a | | Establishment CD Waste Recycling Plant | [Established] / [Sent to shared Facility] / [No facility exists] | No facility exists | No facility exists | | | |
| CD5b | | Capacity of CD Waste Recycling Plant | [MT/Day] / [Not available] | Not available | Not available | | | |

ANNEXURE - 4

2.4 Biomedical Waste Management : NAGARPALIKA NAVSARI

| No. | Action Areas | Details of Data Requirement | Units of Measurable Outcome | Please enter Measurable Outcome for District | Current Status | Desirable level | Gap | Time line for gap |
|-------|--|-------------------------------|-----------------------------|--|----------------|-----------------|-----|-------------------|
| | Name of Nagarpalika | NavsariNagarpalika | | | | | | |
| | Population | | | | | | | |
| | Population | | [Nos as per 2011 census] | 160130 | | | | |
| BMW1 | Inventory of Biomedical Waste Generation | | | | | | | |
| BMW1a | | Total no. of Bedded Hospitals | [Nos] / [No inventory] | 78 | 78 | | | |
| BMW1b | | Total no. of non-bedded HCF | [Nos] / [No inventory] | 257 | 257 | | | |
| BMW1c | | Total no. Clinics | [Nos] / [No inventory] | 174 | 174 | | | |
| BMW1d | | No of Veterinary Hospitals | [Nos] / [No inventory] | 4 | 4 | | | |
| BMW1e | | Pathlabs | [Nos] / [No inventory] | 18 | 18 | | | |
| BMW1f | | Dental Clinics | [Nos] / [No inventory] | 59 | 59 | | | |
| BMW1g | | Blood Banks | [Nos] / [No inventory] | 2 | 2 | | | |
| BMW1h | | Animal Houses | [Nos] / [No inventory] | 0 | 0 | | | |
| BMW1i | | Bio-research Labs | [Nos] / [No inventory] | 0 | 0 | | | |
| BMW1j | | Others | [Nos] / [No inventory] | | | | | |
| BMW2 | Authorization of HCFs by SPCBs / PCCs | | | | | | | |
| BMW2a | | Bedded HCFs | [Nos Authorized] | 78 | 78 | | | |
| BMW2b | | Non-bedded HCFs | [Nos Authorized] | 257 | 257 | | | |
| BMW3a | Biomedical Waste Treatment and Disposal Facilities | | | NA | NA | | | |

| | | | | | | | | |
|-------|---|-------------------------------------|----------------------------------|------|------|--|--|--|
| | (CBMWTFs) | | | | | | | |
| BMW3a | | No of CBMWTFs | [Nos] / None | NA | NA | | | |
| BMW3b | | Linkage with CBMWTFs | [Yes] / [no linkage] | Yes | Yes | | | |
| BMW3c | | Capacity of CBMWTFs | [Adequate] / [Not adequate] | NA | NA | | | |
| BMW3d | | Requirements of CBMWTFs | [Require] / [not required] | NA | NA | | | |
| BMW3e | | Captive Disposal Facilities of HCFs | [Nos] / [None] | NIL | NIL | | | |
| BMW4 | Compliance by CBMWTFs | | | NA | NA | | | |
| BMW4a | | Compliance to standards | [Meeting] / [Not meeting] / [NA] | NA | NA | | | |
| BMW4b | | Barcode tracking by HCFs / CBMWTFs | [100%] / [Partly %] / [None] | None | None | | | |
| BMW4c | | Daily BMW lifting by CBMWTFs | [Kg / day] | NA | NA | | | |
| BMW5 | Status of Compliance by Healthcare Facilities | | | | | | | |
| BMW5a | | Pre-segregation | [100%] / [partly %] / [None] | 100% | 100% | | | |
| BMW5b | | Linkage with CBMWTFs | [100%] / [partly %] / [None] | 100% | 100% | | | |

NAGARPALIKA VIJALPORE

| No. | Action Areas | Details of Data Requirement | Units of Measurable Outcome | Please enter Measurable Outcome for District | Current Status | Desirable level | Gap | Time line for gap |
|-------|--|-------------------------------------|----------------------------------|--|----------------|-----------------|-----|-------------------|
| | Name of Nagarpalika | VijalporeNagarpalika | | | | | | |
| | Population | | | | | | | |
| | Population | | [Nos as per 2011 census] | 81245 | | | | |
| BMW1 | Inventory of Biomedical Waste Generation | | | | | | | |
| BMW1a | | Total no. of Bedded Hospitals | [Nos] / [No inventory] | 13 | 13 | | | |
| BMW1b | | Total no. of non-bedded HCF | [Nos] / [No inventory] | 47 | 47 | | | |
| BMW1c | | Total no. Clinics | [Nos] / [No inventory] | 34 | 34 | | | |
| BMW1d | | No of Veterinary Hospitals | [Nos] / [No inventory] | 4 | 4 | | | |
| BMW1e | | Pathlabs | [Nos] / [No inventory] | 5 | 5 | | | |
| BMW1f | | Dental Clinics | [Nos] / [No inventory] | 4 | 4 | | | |
| BMW1g | | Blood Banks | [Nos] / [No inventory] | 0 | 0 | | | |
| BMW1h | | Animal Houses | [Nos] / [No inventory] | 0 | 0 | | | |
| BMW1i | | Bio-research Labs | [Nos] / [No inventory] | 0 | 0 | | | |
| BMW1j | | Others | [Nos] / [No inventory] | | | | | |
| BMW2 | Authorization of HCFs by SPCBs / PCCs | | | | | | | |
| BMW2a | | Bedded HCFs | [Nos Authorized] | 13 | 13 | | | |
| BMW2b | | Non-bedded HCFs | [Nos Authorized] | 47 | 47 | | | |
| BMW3a | Biomedical Waste Treatment and Disposal Facilities (CBMWTFs) | | | NA | NA | | | |
| BMW3a | | No of CBMWTFs | [Nos] / None | NA | NA | | | |
| BMW3b | | Linkage with CBMWTFs | [Yes] / [no linkage] | Yes | Yes | | | |
| BMW3c | | Capacity of CBMWTFs | [Adequate] / [Not adequate] | NA | NA | | | |
| BMW3d | | Requirements of CBMWTFs | [Require] / [not required] | NA | NA | | | |
| BMW3e | | Captive Disposal Facilities of HCFs | [Nos] / [None] | NIL | NIL | | | |
| BMW4 | Compliance by CBMWTFs | | | NA | NA | | | |
| BMW4a | | Compliance to standards | [Meeting] / [Not meeting] / [NA] | NA | NA | | | |
| BMW4b | | Barcode tracking by HCFs / CBMWTFs | [100%] / [Partly %] / [None] | NA | NA | | | |
| BMW4c | | Daily BMW lifting by CBMWTFs | [Kg / day] | NA | NA | | | |

| | | | | | | | | |
|-------|---|----------------------|------------------------------|------|------|--|--|--|
| BMW5 | Status of Compliance by Healthcare Facilities | | | | | | | |
| BMW5a | | Pre-segregation | [100%] / [partly %] / [None] | 100% | 100% | | | |
| BMW5b | | Linkage with CBMWTFs | [100%] / [partly %] / [None] | 100% | 100% | | | |

NAGARPALIKA GANDEVI + BILIMORA [GANDEVI TALUKA]

| No. | Action Areas | Details of Data Requirement | Units of Measurable Outcome | Please enter Measurable Outcome for District | Current Status | Desirable level | Gap | Time line for gap |
|-------|--|-------------------------------------|-----------------------------|--|----------------|-----------------|-----|-------------------|
| | Name of Nagarpalika | Gandevi&BilimoraNagarpalika | | | | | | |
| | Population | | | | | | | |
| | Population | | [Nos as per 2011 census] | 53187 | | | | |
| BMW1 | Inventory of Biomedical Waste Generation | | | | | | | |
| BMW1a | | Total no. of Bedded Hospitals | [Nos] / [No inventory] | 27 | 27 | | | |
| BMW1b | | Total no. of non-bedded HCF | [Nos] / [No inventory] | 70 | 70 | | | |
| BMW1c | | Total no. Clinics | [Nos] / [No inventory] | 50 | 50 | | | |
| BMW1d | | No of Veterinary Hospitals | [Nos] / [No inventory] | 2 | 2 | | | |
| BMW1e | | Pathlabs | [Nos] / [No inventory] | 6 | 6 | | | |
| BMW1f | | Dental Clinics | [Nos] / [No inventory] | 12 | 12 | | | |
| BMW1g | | Blood Banks | [Nos] / [No inventory] | 0 | 0 | | | |
| BMW1h | | Animal Houses | [Nos] / [No inventory] | 0 | 0 | | | |
| BMW1i | | Bio-research Labs | [Nos] / [No inventory] | 0 | 0 | | | |
| BMW1j | | Others | [Nos] / [No inventory] | | | | | |
| BMW2 | Authorization of HCFs by SPCBs / PCCs | | | | | | | |
| BMW2a | | Bedded HCFs | [Nos Authorized] | 27 | 27 | | | |
| BMW2b | | Non-bedded HCFs | [Nos Authorized] | 70 | 70 | | | |
| BMW3a | Biomedical Waste Treatment and Disposal Facilities (CBMWTFs) | | | NA | NA | | | |
| BMW3a | | No of CBMWTFs | [Nos] / None | NA | NA | | | |
| BMW3b | | Linkage with CBMWTFs | [Yes] / [no linkage] | Yes | Yes | | | |
| BMW3c | | Capacity of CBMWTFs | [Adequate] / [Not adequate] | NA | NA | | | |
| BMW3d | | Requirements of CBMWTFs | [Require] / [not required] | NA | NA | | | |
| BMW3e | | Captive Disposal Facilities of HCFs | [Nos] / [None] | NIL | NIL | | | |
| BMW4 | Compliance by CBMWTFs | | | NA | NA | | | |
| BMW4a | | Compliance to standards | [Meeting] / | NA | NA | | | |

| | | | | | | | | |
|-------|---|------------------------------------|------------------------------|------|------|--|--|--|
| | | | [Not meeting] / [NA] | | | | | |
| BMW4b | | Barcode tracking by HCFs / CBMWTFs | [100%] / [Partly %] / [None] | NA | NA | | | |
| BMW4c | | Daily BMW lifting by CBMWTFs | [Kg / day] | NA | NA | | | |
| BMW5 | Status of Compliance by Healthcare Facilities | | | | | | | |
| BMW5a | | Pre-segregation | [100%] / [partly %] / [None] | 100% | 100% | | | |
| BMW5b | | Linkage with CBMWTFs | [100%] / [partly %] / [None] | 100% | 100% | | | |

ANNEXURE - 5

Hazardous waste Management

| No. | Action Areas | Details of Data Requirement | Units of Measurable Outcome | Please enter Measurable Outcome for District | Current Status | Desirable level | Gap | Time line for gap |
|------|---|---|---|--|----------------|-----------------|-----|-------------------|
| | Name of Nagarpalika | Nagarpalika | | | | | | |
| | Population | | | | | | | |
| HW1 | Inventory of Hazardous Waste | | | | | | | |
| HW1a | | No of HW Generating Industry | [Nos.] | 114 | | | | |
| HW1b | | Quantity of HW | [MT/Annum] | 50253 | | | | |
| HW1c | | Quantity of Incinerable HW | [MT/Annum] | 716 | | | | |
| HW1d | | Quantity of land-fillable HW | [MT/Annum] | 6586 | | | | |
| HW1e | | Quantity of Recyclable / utilizable HW | [MT/Annum] | 42951 | | | | |
| HW2 | Contaminated Sites and illegal industrial hazardous waste dumpsites | | | There is not any Contaminated Sites and illegal industrial hazardous waste dumpsites | | | | |
| HW2a | | No of HW dumpsites | [Nos] / [None] | NIL | | | | |
| HW2c | | Probable Contaminated Sites | [Nos] (provide list) | NIL | | | | |
| HW3 | Authorization by SPCBs/PCCs | | | | | | | |
| HW3a | | No of industries authorized | [Nos] | 114 | | | | |
| HW3b | | Display Board of HW Generation in front of Gate | [Nos] | 114 | | | | |
| HW3 | Availability of Common Hazardous Waste TSDF | | | ---- | | | | |
| HW3a | | Common TSDF | [Exists] / [No] / [Sent to Other District within State] | NIL | | | | |
| HW3b | | Industries linkage with TSDF | [Nos.] | 114 | | | | |
| HW4 | Linkage of ULBs in District with Common TSDF | | | NO | | | | |
| HW4a | | ULBs linked to Common TSDFs for Domestic | [Yes] / [No] | NO | | | | |

| | | | | | | | | |
|--|--|-----------------|--|--|--|--|--|--|
| | | Hazardous Waste | | | | | | |
|--|--|-----------------|--|--|--|--|--|--|

ANNEXURE - 6

2.6 E-waste management

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

| | | | | | | | | |
|------|-----------------------------|---|----------------------|-----|-----|--|--|--|
| | Waste handling and disposal | | | | | | | |
| EW5a | | Does PROs / Producers conducted any District level Awareness Campaigns | [Yes] / [No] / [Nos] | Yes | Yes | | | |
| EW5c | | Does District Administration conducted any District level Awareness Campaigns | [Yes] / [No] / [Nos] | NO | NO | | | |

ANNEXURE - 7

3. Water Quality Management Plan

| No. | Action Areas | Details of Data Requirement | Units of Measurable Outcome | Please enter Measurable Outcome for District | Current Status | | | Gap | Time line for gap |
|------|--|---|--------------------------------|---|--|---|--|-----|-------------------|
| | Name of District | | | | | | | | |
| | Navsari | | | | | | | | |
| WQ1 | Inventory of water resources in District | | | Navsari District | Purna | Ambica | Kaveri | | |
| WQ1a | | Rivers | [Nos] and [Length in Km] | | 3 | | | | |
| WQ1b | | Length of Coastline | [in Km] | 860.909 km HTL & inter Tidal lenth - 142.74km | | | | | |
| WQ1c | | Nalas/Drains meeting Rivers | [Nos] | | Domestic effluent from Nagarpalika - Navsari&Kabilpore GIDC navsari | Domestic effluent from Nagarpalika - Gandevi | Domestic effluent from Nagarpalika - Bilimora&Atataliya GIDC Bilimora | | |
| WQ1d | | Lakes / Ponds | [Nos] and [Area in Hectares] | 0 | data not available | data not available | data not available | | |
| WQ1e | | Total Quantity of sewage and industrial discharge in District | [Automatic] (SW1a+IW1b) | 66.62 MLD | 59.63 MLD | 2.8 MLD | 4.19 MLD | | GPCB |
| | Control of Groundwater Water Quality | | | None | | | | | |
| WQ2a | | Estimated number of bore-wells | [Nos] | 18143 | | | | | |
| WQ2b | | No of permissions given for extraction of groundwater | [Nos] | 18143 | | | | | |
| WQ2c | | Number of groundwater polluted areas | [Nos] | none | NIL | NIL | NIL | | |
| WQ2d | | Groundwater Availability | [adequate] / [not adequate] | adequate | adequate | adequate | adequate | | |
| WQ3 | Availability of Water Quality Data | | | | | | | | |
| WQ3a | | Creation of monitoring cell | [Yes] / [No] | Yes , As per CGWA Navsari report ;There are a total number of 18 monitoring stations in the district which include 16 open wells and 02 piezometers.. | Under GEMS & MINARs | Under GEMS & MINARs | Under GEMS & MINARs | | |
| WQ3b | | Access to Surface water and groundwater quality data at DM office | [Available] or [Not available] | Available - Water treatment plan at NavsariNagar palika | NIL | NIL | NIL | | |
| WQ4 | Control of River | | | | | | | | |

| | | | | | | | | | |
|------|--------------------------------------|---|--|--|--|--|--|--------------|------------------|
| | side Activities | | | | | | | | |
| WQ4a | Control of River side Activities | River Side open defecation | [Fully Controlled] / [Partly controlled] / [no Measures taken] | No measures taken | MSW site located at bank of river purna | MSW dumped at low lying area | MSW site at Chhaper village influence under HT & at present MSW dumped at sr. 33 near river ambika - bilimora | | |
| WQ4b | | Dumping of SW on river banks | [Fully Controlled] / [Partly controlled] / [no Measures taken] | No measures taken | MSW site located at bank of river purna | MSW dumped at low lying area | MSW site at Chhaper village influence under HT & at present MSW dumped at sr. 33 near river ambika - bilimora | | |
| WQ4c | | Control measures for idol immersion | [Measures taken] / [Measures taken post immersion] / [No Measures taken] | Measures taken by providing artificial ponds | Measures taken by providing artificial ponds | Measures taken by providing artificial ponds | Measures taken by providing artificial ponds | | |
| WQ5 | Control of Water Pollution in Rivers | | | | | | | | |
| WQ5a | | Percentage of untreated sewage | [%] (automatic SM1g/SM1a) | STPs proposed at Nagarplaka 's level | 100% | 100% | 100% | | |
| WQ5b | | Monitoring of Action Plans for Rejuvenation of Rivers | [Monitored] / [Not monitored] [not applicable] | STPs proposed at Nagarplaka level | not applicable | not applicable | not applicable | 100 % | 18 Months |
| WQ5c | | No of directions given to industries for Discharge of Untreated industrial wastewater in last 12 months | [Nos] | None | NIL | NIL | NIL | | |
| WQ6 | Awareness Activities | | | | | | | | |
| WQ6a | | District level campaigns on protection of water quality | [Nos in previous year] | No River polluted stretch -PRS | | | | | |
| WQ6b | Oil Spill Disaster Contingency Plan | | | | | | | | |
| WQ6a | | Creation of District Oil Spill Crisis Management Group | [Created] / [Not Created] | By CPCB | | | | | |
| WQ6b | | Preparation District Oil Spill Disaster Contingency Plan | [Prepared] / [Not Prepared] | Not prepared | | | | | |
| WQ7 | Protection of Flood plains | | | | | | | | |
| WQ7a | | Encroachment of flood plains is regulated. | [Yes] / [No] | Yes | | | | | |

| | | | | | | | | | |
|------|----------------------|---------------------------------------|-----------------------------------|--|--|--|--|--|--|
| | Rainwater Harvesting | | | | | | | | |
| WQ8a | | Action plan for Rain water harvesting | [Implemented] / [Not implemented] | Implemented -in govt. offices premises | | | | | |

ANNEXURE - 8

4. Domestic Sewage Management Plan

| No. | Action Areas | Details of Data Requirement | Units of Measurable Outcome | Please enter Measurable Outcome for District | Current Status | | | gap | Time line for gap |
|------|---|--|-----------------------------|--|---------------------|---------|----------|------|-------------------|
| | | | | | Navsari + vijalpure | Gandevi | Bilimora | | |
| SM1 | Inventory of Sewage Management | | | Yes | Navsari + vijalpure | Gandevi | Bilimora | 100% | 3 Months |
| SM1a | | Total Quantity of Sewage generated in District from Class III cities and above | [MLD] | 66.62 MLD | 59.63 + ----- MLD | 2.8 MLD | 8.6 MLD | | |
| SM1b | | No of Class-II towns and above | [Nos] | | | | | | |
| SM1c | | No of Class-I towns and above | [Nos] | | | | | | |
| SM1d | | No of Towns needing STPs | [Nos] | 3 | 1 | 1 | 1 | 100% | 18 Months |
| SM1e | | No of Towns STPs installed | [Nos] | 0 | 0 | 0 | 0 | 100% | 18 Months |
| SM1f | | Quantity of treated sewage flowing into Rivers (directly or indirectly) | [MLD] | | | | 100% | 100% | 18 months |
| SM1g | | Quantity of untreated or partially treated sewage (directly or indirectly) | [Automatic] | 66.62 MLD | 59.63 MLD | 2.8 MLD | 8.6 MLD | 100% | 18 months |
| SM1h | | Quantity of sewage flowing into lakes | [MLD] | 0 | 0 | 0 | 0 | | |
| SM1i | | No of industrial townships | [Nos] | 2-GIDC Kabilpore & Aataliya Bilimora | 1 | 0 | 1 | 100% | 18 months |
| SW2 | Adequacy of Available Infrastructure for Sewage Treatment | | | | | | | | |

| | | | | | | | | | |
|------|------------------------------|--|-------------|------|-----|---|-----|--------------------|-----------|
| SM2a | | % sewage treated in STPs | [Automatic] | 0 | | | | 100% | 18 months |
| SM2b | | Total available Treatment Capacity | [MLD] | 0 | 0 | 0 | 0 | 100% | 18 months |
| SM2c | | Additional treatment capacity required | [MLD] | 0 | - | - | - | - | - |
| SM3 | Adequacy of Sewerage Network | | | None | | | | | |
| SM3a | | No of ULBs having partial underground sewerage network | [Nos] | 2 | 1 | 0 | 1 | | |
| SM3b | | No of towns not having sewerage network | [Nos] | 0 | 0 | 1 | 0 | | |
| SM3c | | % population covered under sewerage network | [Automatic] | | 80% | 0 | 80% | <u>100%</u> 20% | 18 months |

ANNEXURE - 9

5.Industrial Wastewater Management Plan

| No. | Action Areas | Details of Data Requirement | Units of Measurable Outcome | Please enter Measurable Outcome for District | Current Status | gap | Time line for gap |
|-------|---|---|---|--|----------------|-----|-------------------|
| IWW1 | Inventory of industrial wastewater Generation in District | | | | | | |
| IWW1a | | No of Industries discharging wastewater | [Nos] | 1 | 1 | | |
| IWW1b | | Total Quantity of industrial wastewater generated | [MLD] | 0.135 MLD | 0.135 MLD | | |
| IWW1c | | Quantity of treated IWW discharged into Nalas / Rivers | [MLD] | 0.135 MLD | 0.135 MLD | | |
| IWW1d | | Quantity of un-treated or partially treated IWW discharged into lakes | [MLD] | 0 | 0 | | |
| 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 | Textile inds | Textile inds | | |
| IWW1f | | Common Effluent Treatment Facilities | [Nos] / [No CETPs] | none | none | | |
| IWW2 | Status of compliance by Industries in treating wastewater | | | | | | |
| IWW2a | | No of Industries meeting Standards | [Nos] | 1 | 1 | | |
| IWW2b | | No of Industries not meeting discharge Standards | [Automatic] | 0 | 0 | | |
| IWW2c | | No of complaints received or number of recurring complaints against | [Nos] | 0 | 0 | | |

| | | | | | | | |
|-------|--|--|-------|---|---|--|--|
| | | industrial pollution in last 3 months | | | | | |
| AWW4 | Status of Action taken for not meeting discharge standards | | | | | | |
| IWW4a | | No industries closed for exceeding standards in last 3 months | [Nos] | 0 | 0 | | |
| IWW4b | | No of industries where Environmental Compensation was imposed By SPCBs | [Nos] | 0 | 0 | | |

ANNEXURE - 10

6. Air Quality Management Plan

| No. | Action Areas | Details of Data Requirement | Units of Measurable Outcome | Please enter Measurable Outcome for District | Current Status | gap | Time line for gap |
|------|--|--|---|--|----------------|-----|-------------------|
| AQ1 | Availability of Air Quality Monitoring Network in District | | | | | | |
| AQ1a | | Manual Air Quality monitoring stations of SPCBs /CPCB | [Nos] / [None] | 0 | | | |
| AQ1c | | Automatic monitoring stations Operated by SPCBs / CPCB | [Nos] / [None] | 0 | | | |
| 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) | L-M-S scale indurty | | | |
| AQ2b | | No of Non-Attainment Cities | [Nos] / [None] | 0 | | | |
| AQ2c | | Action Plans for non-attainment cities | [Prepared] / [Not yet prepared] | 0 | | | |
| 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 Yet available | | | |
| AQ4 | Control of Industrial Air Pollution | | | | | | |
| AQ4a | | No of Industries meeting Standards | [Nos] | 56 | | | |
| 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] | NIL | | | |
| AQ5b | | Control Open burning of Waste – Nos of actions Taken | [Nos] | NIL | | | |
| AQ5c | | Control of forest fires | [SOP available] / [No SoP] | NIL | | | |
| AQ5d | | Vehicle pollution check centers | [% ULBs covered] | 100 % ARTO | | | |
| AQ5e | | Dust Suppression Vehicles | [% ULBs covered] | 50% | | | |
| AQ6 | Development of Air Pollution complaint redressal system | | | | | | |

| | | | | | | | |
|------|--|---|-------------------------------|-------------------|--|--|--|
| AQ6a | | Mobile App / Online based air pollution complaint redressing system of SPCBs. | [Available] / [Not available] | Not Yet available | | | |
|------|--|---|-------------------------------|-------------------|--|--|--|

ANNEXURE - 11

6. Mining Activity Management plan

| No. | Action Areas | Details of Data Requirement | Units of Measurable Outcome | Please enter Measurable Outcome for District | Current Status | gap | Time line for gap |
|------|--|---|---|--|--|-----|-------------------|
| MI1a | Inventory of Mining in District | | | Navsari District | Navsari District | | |
| MI1a | | Type of Mining Activity | [Sand Mining] / [Iron Ore] / [Bauxite] / [Coal] / Other [specify] | Black trap mining | Black trap mining | | |
| | | | Multiple selection in order of magnitude of operations | Multiple selection in order of magnitude of operations | Multiple selection in order of magnitude of operations | | |
| MI1b | | No of Mining licenses given in the District | [Nos] | 151 Black Trep Mines | 151 Black Trep Mines | | |
| MI1c | | Area covered under mining | [Sq Km] | Total 194.67 sq.km | Total 194.67 sq.km | | |
| MI1d | | Area of District | [Sq Km] | 2211 sq.km | 2211 sq.km | | |
| MI1e | | Sand Mining | [Yes] / [No] | YES | YES | | |
| MI1f | | Area of sand Mining | [River bed] / [Estuary] / [Non - river deposit] | River bed | River bed | | |
| MI2 | Compliance to Environmental Conditions | | | | | | |
| MI2a | | No of Mining areas meeting Environmental Clearance Conditions | [Nos] | 151 | 151 | | |
| MI2b | | No of Mining areas meeting Consent Conditions of SPCBs / PCCs | [Nos] | 12 | 139 | | |
| MI3a | Mining related environmental Complaints | | | | | | |
| MI3b | | No of pollution related complaints against Mining Operations in last 1 year | [Nos] | 0 | 0 | | |
| MI4 | Action against non-complying mining activity | | | | | | |
| MI4a | | No of Mining operations suspended for violations to environmental norms | [Nos] | 0 | 0 | | |
| MI4b | | No of directions issued by SPCBs | [Nos] | 0 | 0 | | |

ANNEXURE - 12

8. Noise Pollution Management Plan

| No. | Action Areas | Details of Data Requirement | Units of Measurable Outcome | Please enter Measurable Outcome for District | Current Status | gap | Time line for gap |
|------|---|---|---|--|----------------|-----|-------------------|
| NP1 | Availability Monitoring equipment | | | Having GPCB only | | | |
| NP1a | | No. of noise measuring devices with district administration | [Nos] / [None] | 0 | | 1 | |
| 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] | GPCB Technical staff | | | |
| NP2 | Management of Noise related complaints | | | | | | |
| NP2a | | No of complaints received on noise pollution in last 1 year | | | | | |
| | | | [Nos] | 1 | | | |
| 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] | carried out during festivals | | | |
| NP3c | | Sign boards in towns and cities in silent zones | [Installed] / [Partial] / [Not Installed] | Installed | | | |

નં. જીપીસીબી/એનએવી-ટી-૧૦૫/નવસારી/૨૨૩/૨૦૧૯

25 SEP 2019

વંચાણ: ૧) નામદાર નેશનલ ગ્રીન ટ્રીબ્યુનલ નવી દિલ્લીના ૭૧૦/૨૦૧૭ ના હુકમ.

૨) અત્રેની કચેરીની સ્વીકૃતિ/એપુવલ નોંધ તા. ૨૦.૦૯.૨૦૧૯

વિષય: ડીસ્ટ્રીક્ટ એન્વાયરમેન્ટ પ્લાનીંગ કમિટીની રચના કરવા બાબતે.

:- હુકમ :-

વંચાણ (૧) ની હુકમો મુજબ, ચુસ્ત અમલીકરણ કરવા અર્થે અત્રેના નવસારી જિલ્લામાં પર્યાવરણને લગતા પ્લાનીંગ સુધારા અને સમીક્ષા અંતર્ગત નેશનલ ગ્રીન ટ્રીબ્યુનલમાં આપેલ જજમેન્ટ મુજબ મલવારી અંતર્ગત નેશનલ ગ્રીન ટ્રીબ્યુનલના નિર્દેશો મુજબ ડીસ્ટ્રીક્ટ એન્વાયરમેન્ટ પ્લાનીંગ કમિટીની રચના કરવામાં આવેલ છે, સદર કમિટીમાં કુલ -૧૨ હોદ્દાઓ છે.

કમિટીનું માળખું નીચે મુજબના કોષ્ટકમાં દર્શાવેલ છે.

| અનુ. નં. | કમિટીના સભ્યો | કમિટીમાં હોદ્દો |
|----------|---|------------------|
| ૧ | કલેક્ટરશ્રી તથા જિલ્લા મેજિસ્ટ્રેટશ્રી, નવસારી | અધ્યક્ષશ્રી |
| ૨ | જીલ્લા વિકાસ અધિકારીશ્રી, નવસારી | સભ્ય |
| ૩ | જિલ્લા પોલીસ અધિક્ષક, નવસારી | સભ્ય |
| ૪ | વન અને પર્યાવરણ વિભાગના નાયબ સંરક્ષક, નવસારી | સભ્ય |
| ૫ | મુખ્ય જિલ્લા આરોગ્ય અધિકારીશ્રી, નવસારી | સભ્ય |
| ૬ | ચીફ ઓફિસરશ્રી, નગરપાલિકા-વિજલપોર, નવસારી, ગણદેવી અને બીલીમોરા | સભ્ય |
| ૭ | કાર્યપાલક ઈજનેર સિંચાઈ વિભાગ (રાજ્ય), નવસારી | સભ્ય |
| ૮ | કાર્યપાલક ઈજનેર પાણી પુરવઠા વિભાગ, નવસારી | સભ્ય |
| ૯ | પ્રાદેશિક મેનેજર જીઆઈડીસી, સબ ડિવિઝન, ગંદલાવ, જિ. વલસાડ | સભ્ય |
| ૧૦ | ભુસ્તરશાસ્ત્રીશ્રી, ખાણ ખનીજ વિભાગ, નવસારી | સભ્ય |
| ૧૧ | મહેસુલ વિભાગના પ્રતિનિધિઓ, કલેક્ટર કચેરી, નવસારી | સભ્ય |
| ૧૨ | પ્રાદેશિક અધિકારી, ગુજરાત પ્રદૂષણ નિયંત્રણ બોર્ડ, નવસારી ૧લો માળ, "સી"-બ્લોક, જુના જિલ્લા સેવા સદન, જુનાઠાણા, નવસારી | સભ્ય સચિવશ્રી |

ઉપરોક્ત ડીસ્ટ્રીક્ટ એન્વાયરમેન્ટ પ્લાનીંગ કમિટીની સૈધ્ધાંતિક મંજૂરી/એપુવલ વંચાણ (૨) માં કરવામાં આવેલ છે. આ સાથે વંચાણ (૧) નામદાર હાઈકોર્ટ દ્વારા આપેલ જજમેન્ટની નકલ મોકલવામાં આવે છે.

બિડાણ: (૧) વંચાણ (૧) વાળી જજમેન્ટની નકલ

(૨) ડીસ્ટ્રીક્ટ એન્વાયરમેન્ટ પ્લાનીંગ કમિટીની સૈધ્ધાંતિક મંજૂરી/એપુવલ જિલ્લા મેજિસ્ટ્રેટ તથા કલેક્ટરશ્રી, નવસારી

જિલ્લા મેજિસ્ટ્રેટ તથા કલેક્ટરશ્રી
જિ. નવસારી

Attendance Sheet

District Environmental Planning Committee Third Meeting scheduled on dated-03/01/2020
at 16:30 hrs at conference hall, Collector office-Navsari

| Sr.No | Name & Designation | Department | Contact Number & E-mail ID | Sign |
|-------|-----------------------------------|------------------------|--|------|
| 1 | | | | |
| 2 | | | | |
| 3 | B.S. Mori DY.S.P. H.Q. | Home. | 9979408268 dysp-hq-mori@ govt.gujarat.gov.in | |
| 4 | D.N. Kohli CO Navsari | UD | 9022294517 | |
| 5 | R.K. Pathal Executive Engineer | Ambre Dist. Navsari | 9825542831 ambrekarivijay@ gmail.com | |
| 6 | S.S. Dash DY Executive Eng | GIDC | 9726424264 deegundlav@gmail.com | |
| 7 | A. U. Patil C.O. Bilimora | UD Bilimora | 9922212858 aunpatil@ gmail.com | |
| 8 | C. H. Saraiya C.O. Gandhinagar | CANDREVI ULD | 9824148238 | |
| 9 | M. K. Shukla S.I. | M.N.P. | 9824159567 | |
| 10 | Mohan. D. A.I.Y. S.I. | V.N.P | 9825045511 | |

11. Dhimma Bhuvesh
M.I.E
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B.D. Dhimma

12. V.B. Kivani
Geology and
mining
(mines supervisor)
Geology
(and
mining)
756749147

13. M.U. Shukla
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