

# **District Environmental Action Plan-Bundi**



**“A traditional and heritage city”**

**BUNDI**

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## **ABOUT THE DISTRICT**

Bundi is the southeast of northern Indian state of Rajasthan. Bundi city is located about 35 kilometers from Kota district which is surrounded by hills on all three sides. Bundi city is famous for palaces and baories. Taragarh fort is made on the hill of Bundi which in itself reveals a beauty. The beauty of Taragarh can be seen from the buy-pass. The population of Bundi district is about 103286.

Though teej is celebrated throughout the state of Rajasthan on the third day of bhadra (July-August), marking the onset of the monsoon. A palanquin bearing the goddess Teej is carried through the streets with a procession of decorated elephants, camels chariots, artistes, etc. starting from the naval sagar lake through the main bazaars of the old bundi city, finally ending at Azad park, the procession starts lete in the evening and covers most of its journey in darkness. so elaborate artificial lighting arrangements are made.

## **GEOGRAPHY**

Bundi is situated at 25°27 N and 75°39 E with an area of 5,550 sq km with the highest point at 495m above sea level. The district is situated in the south-eastern part of Rajasthan. It is bound in the north by Tonk in the west by Bhilwara and in the southwest by Chittorgarh districts. The river Chambal forms the southern and eastern boundary separating Bundi and Kota.

The better known regions around Bundi are Jaipur (210 km), Ajmer (67 km), and Kota (37 km). It is easily accessible from all these via the bye – pass road, which was built in 1940 to allow better connectivity. In order to reach Bundi one may travel by flight, rail or road. The nearest airport is at Jaipur, railway junction at Kota, and railway station is at Bundi.

The district lies in a geologically stable zone. Set within a valley, Bundi is surrounded by hills. Its terrain is largely slopping down from the place towards the Naval Sagar Lake. Moving further towards the main city the landscape starts to flatten from Baharli Bundi to a gradual plain. The climate may be classified as hot and arid with summer temperatures ranging for 35°C (Min) to 45°C (Max) and winter temperatures lying

between 5°C (Min) to 35°C (Max). The region has an annual rainfall of 75 cms.

### **CLIMATE:-**

Bundi has a semi-arid climate with high temperatures throughout the year. Summers are long, hot and dry, starting in late March and lasting till the end of June. The temperatures average above 40 °C in May and June, frequently exceed 45 °C with temperatures as high as 48.4 °C also been recorded. The monsoon season follows with comparatively lower temperatures, but higher humidity and frequent, torrential downpours. The monsoons subside in October and temperatures rise again. The brief, mild winter starts in late November and lasts until the last week of February. Temperatures hover between 26.7 °C (max) to 12.0 °C (min). This can be considered the best time to visit Bundi because of intense heat in the summer.

The average annual rainfall in the Bundi district is 660.6 mm. Most of the rainfall can be attributed to the southwest monsoon which has its beginning around the last week of June and may last till mid-September. Pre-monsoon showers begin towards the middle of June with post-monsoon rains occasionally occurring in October. The winter is largely dry, although some rainfall does occur as a result of the Western Disturbance passing over the region.

### **DEMOGRAPHICS:-**

As per provisional reports of Census India, population of Bundi in 2011 is 103,286; of which male and female are 53,628 and 49,658 respectively. Although Bundi city has population of 103,286; its urban / metropolitan population is 104,919 of which 54,485 are males and 50,434 are females. Hinduism is majority religion in Bundi city with 74.29 % followers. Islam is second most popular religion in city of Bundi with approximately 21.47 % following it. In Bundi city, Christianity is followed by 0.15 %, Jainism by 3.12 %, Sikhism by 0.93 % and Buddhism by 0.93 %. Around 0.00 % stated 'Other Religion'; approximately 0.04 % stated 'No Particular Religion'.

### **ECONOMY:-**

The city is the trade centre for an area in which rice, wheat, coriander and oilseeds are grown; industries include rice mills and oilseed milling, textile weaving, distilling,

dairying, and the manufacture of metal handcrafts.

## **TOURISM**

Approaching from Kota (approximately 30 km from bundi), one is caught unaware by the time eluding beauty of the township of Bundi. The first glance of the palace and form complex, from the bye – pass road, leaves one with reminisces from of a medieval townships. It seems like a mystical place right out of the pages of a history book. with a fairy tale like quality to it, the picturesque Bundi greets you with its grand yet humane palace whose reflection can be caught in the Naval Sagar lake just below. Moving closer one sees the entire city dotted with hues of blues and whites scattered as buildings in the valley sheltered by the majestic palace strategically located on the hill above.

The town of Bundi is flanked on three sides by Aravalli Hills and is circumscribed by a massive wall with four gateways. To its north are hills (1426 ft. high) that are home to the Taragarh fort built by Rao Nar Singh in 1654AD. It is beneath this fort that the very densely populated town of Bundi, sits. It is enclosed by walled fortifications with four gateways- Bhairon Gate on west, Chaugan gate in the south, Patanpol on east and Shukl baori gate on the north. This township came up as a primarily military based set-up which grew later to its present form. It is believed that the city developed largely in the period between the 15<sup>th</sup> and 19<sup>th</sup> centuries B.C. Owing to political and economic stability under the reign of Umed Singh, it is said that many advances were made towards building and construction.

## **Bundi Stone**

The fine-grained variety of limestone quarried from Bundi district is known as Bundi stone, with rich greenish-blue and brown colors. Bundi stone is tough, non-water-absorbent, non-slip, and non-porous. The varieties include Bundi Blue Natural, Bundi Blue Honed, Bundi Blue Polished, Bundi Blue Cobbles, Bundi Brown Natural and Bundi Brown Polished.

## **Industries**

Rice is cultivated in large quantities in Bundi district. Due to which the Rice Mills have been opened at various places in the Bundi area. Which rice is separated according to

quality and is sent to different areas outside the Bundi. Bundi has fertile land and greenery with irrigation facilities through canals.

## **1.0. INTRODUCTION**

In the process of development, the issues confronting today are achieving desired development for economic or social reasons on one hand and safeguarding the environment and maintaining good quality of life on the other. The developmental activities being haphazard and un-controlled are leading to veruse, congestion, incompatible land use and poor living conditions. The problems of environmental pollution are becoming complex and are creating high risk environment.

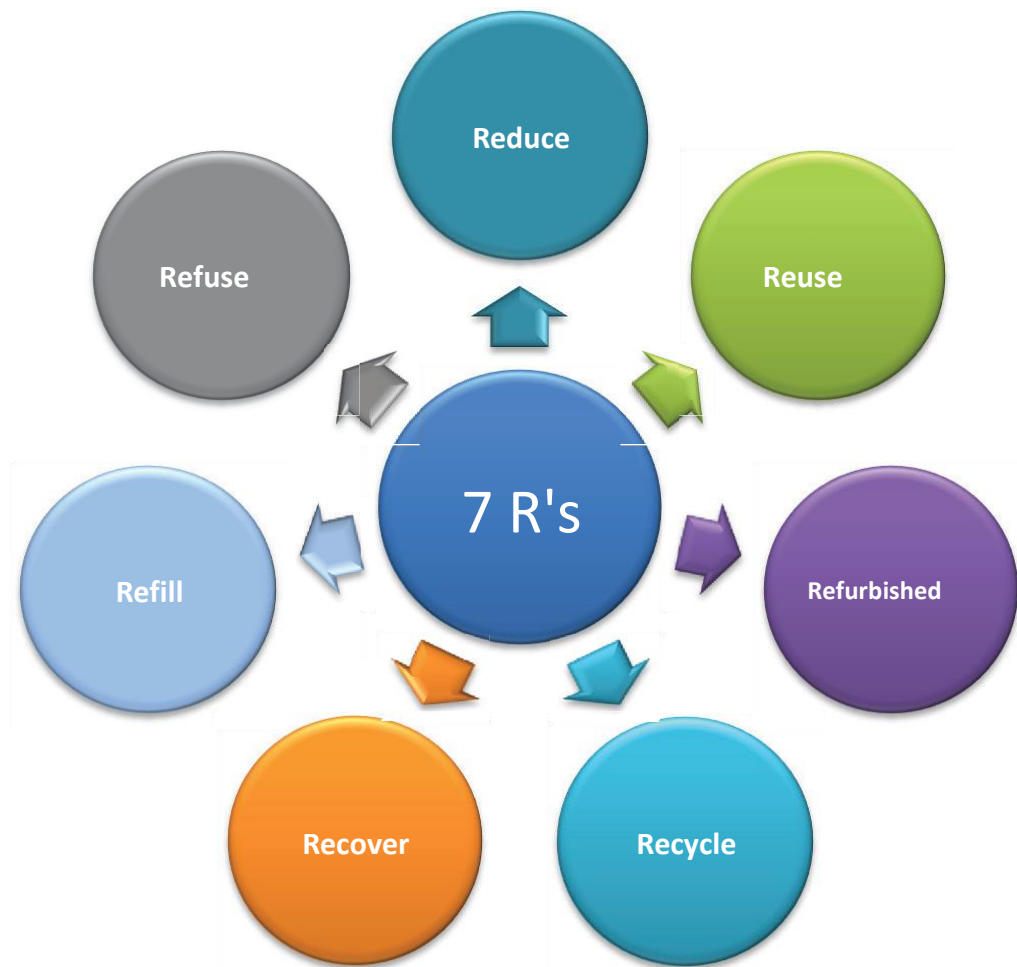
- Conventionally, the environmental pollution problems are solved by introducing environmental management techniques such as control of pollution at source, providing of sewage treatment facilities etc.
- The environmental aspects are to be induced into each of the developmental activities at the planning stage itself and are to be well co-ordinate and balanced.
- For all developmental activities, a crucial input is land and depending on the activity a specific land use is decided. The environmentally related land use such as trade and industry, housing construction, mining etc. is likely to have some impact on the environment. These land uses need proper planning and integration as some of the activities have inter dependencies such as industry with transport, housing etc.

Besides, Climate change is now affecting every country on every continent. It is disrupting national economies and affecting lives, costing people, communities and countries dearly today and even more tomorrow. Weather patterns are changing, sea levels are rising, and weather events are becoming more extreme and green house gas emissions are now at their highest levels in history. Without action, the world's average surface temperature is likely to surpass 3 degrees centigrade this century.

Sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs Sustainability

defines the models necessary to ensure the survival of the human race and planet Earth. This includes ways to slow or reverse pollution, conserve natural resources and protect our environment.

The principle of 7Rs is essential strategy for achieving the sustainability. It reduces the load and over exploitation on the natural resources and is a key for resource efficiency.



## **2.0 OBJECTIVES:-**

**The Objectives of District Environment and Management Plan (DEMP) are given below:**

- I. To ensure conservation of environment and natural resources at district level.
- II. Restore ecological balance.
- III. To harness active participation of all stakeholders in planned environment conservation actions.
- IV. Assess, Mitigate and monitor adverse impacts of various pollution sources at district level.
- V. Capacity building of stakeholder, department, agencies, organizations and individuals at district level to understand and implement micro level environmental conservation actions.
- VI. To harness inter-departmental coordination for implementation of action plans.
- VII. To develop local knowledge centers and expertise for developing environmental conservation strategies at district level.
- VIII. To develop and implement micro monitoring system at district level.

### **NGT DIRECTIONS:**

- a. Hon'ble NGT in last one year has issued several directions in various matters and various issues relating to environment management and these are to be executed by the Central and State Governments and concerned institutions. Further, the Directions are required to be executed at District Level covering all cities, towns and villages.

The role and responsibilities of enforcement are with District Collector/Magistrate, Pollution Control Board, Municipal Bodies, Public Health Engineering Departments and others.



The present state level execution and monitoring mechanism on various State and Central Government's Schemes are monitored by Chief Minister/ Chief Secretary with District Collector/Magistrate.

### **3.1. ISSUES REQUIRING ACTIONS:**

As per the directions of the Hon'ble NGT, District Collector/Magistrate through District Level Committee is required to act on the following issues:

#### **a) WASTE MANAGEMENT**

- a. Municipal Solid Waste (MSW) including remediation of legacy waste dumpsites.
- b. Plastic waste management
- c. Bio-medical waste management
- d. Construction and demolition waste (C&D)
- e. Hazardous Waste Management
- f. E-waste Management

**b) Industries to comply with Water (Prevention and Control of Pollution) Act, 1974** ensuring proper functioning of common effluent treatment plants (CETPs). Environment Compensation (EC) on "Polluter Pays" Principle is required to be imposed to utilize for restoration of environment.

**c)** Ensure cities, towns and villages provide proper sewage management facilities in a time-bound manner or else will be liable to pay EC in case of default and further required to ensure utilization of treated sewage for non- potable purpose.

**d)** Regulation of sand mining to check illegal sand mining and recover compensation. Proper restoration of exhausted mining sites as per Environmental Plan for conservation and protection of water sources.

## **3.2 ACTIONS TO BE TAKEN:**

The Tribunal has issued detailed directions on each issue for enforcement which are to be executed in accordance with the Acts/Rules. However, for ensuring visible impactful changes and taking immediate actions on certain issues, following actions are suggested below:

### **3.2.1 Solid Waste Management**

- i. Strengthen waste collection, storage and transportation system. Set up surveillance squads/Task Forces at Ward/Circle level. Attend vulnerable sites/locations and clean them.
- ii. Prohibiting burning of garbage.

### **3.2.2 Plastic Waste**

Prohibitions on use plastic carry bags.

### **3.2.3 Bio-Medical Waste**

- i. Hospitals, Clinics and Nursing Homes whenever generate or provide Bio-medical waste which should be disposed as CBMWTF.
- ii. Cities, towns and villages may tie-up individually or collectively to transport bio- medical waste to the common treatment plants.

### **3.2.4 Construction and Demolition Waste**

- i. Public notices may be issued that construction and demolition waste should only be disposed at pre-identified/notified sites.
- ii. Setting up construction and demolition waste processing facilities by Municipal Authorities.

### **3.2.5 Restoration of Polluted River Stretches**

- i. A river whether seasonal or perennial, should not be misused for disposal of sewage, garbage or any other waste into it.

- ii. Identify the specifically drains discharging sewage/industrial effluents into the river and intercept them and divert to the sewage treatment plant.
- iii. Public awareness and awareness at the level of schools and colleges may be taken up.

### **3.2.6 Maintaining Air Quality in Cities, Towns and Villages**

- i. RPCB may under take monitoring of ambient air quality in a phased manner covering all cities and towns for wider coverage.
- ii. Surveillance squads/ task forces may be set up at Ward and Circle level to prohibit burning of garbage and other waste BY Municipal authorities.
- iii. Open parks, dilapidated roads and other sources of dust pollution should be identified and actions be taken to prevent the suspension of dust from such sources by repairing the roads etc by concerned department.

### **3.2.7 Industrial Pollution Control**

- i. Rajasthan State Pollution Control Board should ensure that all industries comply with the Water Act, 1974, the Air Act, 1981 and Environment (Protection) Act, 1986.
- ii. Industries discharging waste water and not having effluent treatment plant are closed down as per Water Act, 1974 and Air Act, 1981 till compliance is achieved.

### **3.2.8 Sewage Treatment and Utilization**

- i. Every city, town should have time-bound plan to set up sewage management facility.
- ii. Intermediate remedial methods may be employed till sewage drains are intercepted and diverted to STP.
- iii. Treated sewage may be utilized for sprinkling on dust emitting sources for gardening and other non-potable purposes.

### **3.2.9 Regulation of Sand Mining**

- i. Special Police Forces along with Mining Department personnel may be deployed for patrolling sand mining areas, sand mining/stone quarrying to check illegal mining/quarrying.
- ii. Mining's rehabilitation & restoration plans should be ensured to be complied by Mining department.

### **3.2.10 Rejuvenation of water bodies/rain water harvesting and ground water conservation**

Ponds/water bodies may be identified at each city, town and village level and cleaned and not allowing sewage and solid waste disposal in such ponds by the Municipal authorities and Panchayat level. State Ground Water Board has to ensure ground water quality testing particularly shallow hand pumps, and deep bore wells to check fitness for consumption.

### **3.2.11 Hazardous and Other Waste Management**

- i. Illegal transportation of hazardous may be monitored.
- ii. Unauthorized dumping of hazardous must be checked.

### **3.2.12 E-Waste**

- i. Setting up of collection centers fore-waste.
- ii. Setting up of dismantling and recycling plants either at State level or District level.

### **3.3 IMMEDIATE ACTIONS:**

On urgent basis, to bring visible impact full changes in public, following actions may be considered;

- i. Work expeditiously to focus cleanliness with enforcement of waste management rules including thrust on Air and Water Quality Management.
- ii. In city and towns identify garbage littered areas/localities and clean them and publicize them.
- iii. Set up construction and demolition waste processing centers.
- iv. Clear encroachment from, river banks/lake/pond and beautify them.
- v. Vigilance and stop burning of waste and cover dusty areas/activities.
- vi. Immediately sensitize schools, colleges and other voluntary organizations for creating awareness. Education department to be involved.

#### **4.0 SEGMENTS OF DISTRICT ENVIRONMENT MANAGEMENT PLAN (DEMP)**

##### **4.1. POLLUTION CONTROL AND RESOURCE MANAGEMENT PLAN:**

**“The proposed Model Action Plan for 7 thematic areas”**

##### **4.1.1 WASTE MANAGEMENT PLAN**

###### **4.1.1.1 SOLID WASTE MANAGEMENT PLAN (for each ULB)**

Solid Wastes (Management & Handling) Rules, 2016 (SWM Rules) are applicable to every municipal authority responsible for collection, segregation, storage, transportation, processing and disposal of municipal solid waste.

## BASELINE DATA FOR SOLID WASTE MANAGEMENT

No.	Action Areas	Details of Data Requirement	Units Of Measurable Outcome	ULB 1	ULB 2	ULB 3	ULB4	ULB5	ULB6	Action to be taken by
	Name of Urban Local Body (ULB)		[name of ULB]	Bundi	K. Patan	Lakheri	Nainwa	Kapren	Indergarh	ALL ULB (Nagar Parishad/ Nagar Palika)
	No of ULBs in the District		[Nos]	5	-	1	-	-	1	ALL ULB (Nagar Parishad/ Nagar Palika)
	Population		[Nos as per 2011 census]	103284	24627	29572	19424	20748	7444	ALL ULB (Nagar Parishad/ Nagar Palika)
SW1	Report on inventory of total solid waste Generation									ALL ULB (Nagar Parishad/ Nagar Palika)
SW1a		Total solid waste Generation	[in MT/Day] or [Not estimated]	40 MT/DAY	7.44	12MT/ DAY	6	5	4MT/ DAY	ALL ULB (Nagar Parishad/ Nagar Palika)
SW1b		Qty. of Dry Waste segregated	[in MT/Day] or [Collection Not initiated]	Collection Not initiated	2.55	Collection Not initiated	2.5	2	Collection Not initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW1c		Qty. of Wet Waste segregated	[in MT/Day] or [Collection Not initiated]	Collection Not initiated	2.81	Collection Not initiated	3.5	3	Collection Not initiated	ALL ULB (Nagar Parishad/ Nagar Palika)

SW1d		Qty. of C&D Waste segregated	[in MT/Day] or [Collection Not initiated]	Collection Not initiated	1.8	Collection Not initiated	0.2	0	Collection Not initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW1e		Qty. of Street Sweeping	[in MT/Day] or [Not estimated]	02 MT/DAY	Not estimated	01 MT/DAY	Not estimated	Not estimated	01 MT/DAY	ALL ULB (Nagar Parishad/ Nagar Palika)
SW1f		Qty. of Drain Silt	[in MT/Day] or [Not estimated]	02 MT/DAY	Not estimated	01 MT/DAY	Not estimated	Not estimated	01 MT/DAY	ALL ULB (Nagar Parishad/ Nagar Palika)
SW1g		Qty. of Domestic Hazardous Waste(DHW) collected	[in MT/Day] or [No Facility]	No Facility	0.002	No Facility	0	No Facility	No Facility	ALL ULB (Nagar Parishad/ Nagar Palika)
SW1h		Qty. of Other Waste (Horticulture, sanitary waste, etc.)	[in MT/Day] or [Qty not estimated]	0.02 MT/DAY	Qty not estimated	0.01 MT/DAY	Qty not estimated	Qty not estimated	0.01 MT/DAY	ALL ULB (Nagar Parishad/ Nagar Palika)
SW1i		No of Old dump sites	[Nos] or [None]	2	1	2	none	1	2	ALL ULB (Nagar Parishad/ Nagar Palika)
SW1j		Qty stored in dumpsites	[MT] or [Not estimated]	Not estimated	565	Not estimated	8433	Not estimated	Not estimated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW1k		No of Sanitary landfills	[Nos] or [None]	1	0	1	None	0	1	ALL ULB (Nagar Parishad/ Nagar



										Palika)
SW11		No of wards	[nos]	45	20	25	20	20	20	ALL ULB (Nagar Parishad/ Nagar Palika)
SW2	Compliance by Bulk Waste Generators									ALL ULB (Nagar Parishad/ Nagar Palika)
SW2a		No of BW Generators	[numbers] or [inventory not done]	0	0	0	0	0	0	ALL ULB (Nagar Parishad/ Nagar Palika)
SW2b		No of on-site facilities for Wet Waste	[numbers] or [No data]	0	0	0	No data	1	0	ALL ULB (Nagar Parishad/ Nagar Palika)
SW3	Compliance in segregated waste Collection SW Collection									ALL ULB (Nagar Parishad/ Nagar Palika)
SW3a		Total generation	[Automatic] from SW1a	40 MT/DAY	7.44	12MT/DAY	6	5	4MT/DAY	ALL ULB (Nagar Parishad/ Nagar Palika)
SW3b		Wet Waste	[in MT/Day] or [Collection Not initiated]	12 MT/DAY	2.81	6.40 MT/DAY	3.5	3	2 MT/DAY	ALL ULB (Nagar Parishad/ Nagar Palika)
SW3c		Dry Waste	[in MT/Day] or [Collection Not initiated]	27.75 MT/DAY	2.55	4.40 MT/DAY	2.5	2	1 MT/DAY	ALL ULB (Nagar Parishad/ Nagar Palika)

SW3d		C&D Waste	[in MT/Day] or [Collection Not initiated]	0.25 MT/DAY	1.8	1.2 MT/DAY	0.2	0	1 MT/DAY	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4	Waste Management Operations									ALL ULB (Nagar Parishad/ Nagar Palika)
SW4a		Door to Door Collection	[100%] / [partial %] / [not initiated]	100%	100	100%	100	100	100%	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4b		Mechanical Road Sweeping	[100%] / [partial%] / [not initiated]	partial	0	No facility	not initiated	0	No facility	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4c		Manual Sweeping	[100%] / [partial%]	100%	100	100%	100	100	100%	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4d		Segregated Waste Transport	[100%] / [partial %] / [not initiated]	not initiated	90	not initiated	not initiated	100	not initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4e		Digesters (Bio-methanation)	[% of WW] / [not initiated]	not initiated	0	not initiated	not initiated	0	not initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4f		Composting operation	[% of WW] / [not initiated]	not initiated	0	not initiated	not initiated	0	not initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4g		MRF Operation	[MRF used] / [not installed]	not installed	MRF Used	installed	not installed	MRF Used	installed	ALL ULB (Nagar Parishad/ Nagar Palika)

										Palika)
SW4h		Use of Sanitary Landfill	[% of SW collected] / [no SLF]	no SLF	0	no SLF	No SLF	0	no SLF	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4i		Reclamation of old dumpsites	[initiated] / [not initiated]	not initiated	Initiated	not initiated	not initiated	Initiated	not initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4j		Linkage with Waste to Energy Boilers / Cement Plants	[initiated] / [not initiated]	not initiated	0	not initiated	not initiated	0	not initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4k		Linkage with Recyclers	[initiated] / [not initiated]	not initiated	0	not initiated	not initiated	0	not initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4l		Authorization of waste pickers	[initiated] / [not initiated]	initiated	Initiated	initiated	Initiated	Initiated	initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4m		Linkage with TSDF / CBMWTF	[initiated] / [not initiated]	not initiated	not initiated	not initiated	not initiated	not initiated	not initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4n		Involvement of NGOs	[initiated] / [not initiated]	not initiated	Initiated	not initiated	not initiated	Initiated	not initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4o		Linkage with Producers / Brand Owners	[initiated] / [not initiated]	not initiated	NA	not initiated	not initiated	NA	not initiated	ALL ULB (Nagar Parishad/ Nagar Palika)

SW4p		Authorization of Waste Pickers			Yes		Yes	No		ALL ULB (Nagar Parishad/ Nagar Palika)
SW4q		Issuance of ID Cards	[initiated] / [not initiated]	initiated	not initiated	initiated	not initiated	not initiated	initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW5	Adequacy of Infrastructure									ALL ULB (Nagar Parishad/ Nagar Palika)
SW5a		Waste Collection Trolleys	[Nos. Required] / [Nos. Available]		7		20	2		ALL ULB (Nagar Parishad/ Nagar Palika)
SW5b		Mini Collection Trucks	[Nos. Required] / [Nos. Available]		2		8	2		ALL ULB (Nagar Parishad/ Nagar Palika)
SW5c		Segregated Transport	[yes] / [no] / [% area covered]		Yes 100%		Yes	Yes 100%		ALL ULB (Nagar Parishad/ Nagar Palika)
SW5d		Bulk Waste Trucks	[Nos. Required] / [Nos. Available]		Not Required		Nos. Available	Not Required		ALL ULB (Nagar Parishad/ Nagar Palika)
SW5e		Waste Transfer points	[Nos. Required] / [Nos. Available]	1/1	Not Required	1/1	Not. Available	Not Required	1/1	ALL ULB (Nagar Parishad/ Nagar Palika)

			/[Not available]							
SW5f		Bio-methanation units	[Nos. Required] / [Nos. Available]	1/0	NA	0/0	Nos. Available	NA	0/0	ALL ULB (Nagar Parishad/ Nagar Palika)
SW5h		Composting units	[Nos. Required] / [Nos. Available]	1/0	YES/5	0/0	Nos. Available	YES/1	0/0	ALL ULB (Nagar Parishad/ Nagar Palika)
SW5i		Material Recovery Facilities	[used or installed] / [not available]	1/0	Used	1/0	Nos. Available	Used	1/0	ALL ULB (Nagar Parishad/ Nagar Palika)
SW5k		Waste to Energy (if applicable)	[Required] / [Nos. Available]	0/0	NA	0/0	Nos. Available	NA	0/0	ALL ULB (Nagar Parishad/ Nagar Palika)
SW5l		Waste to RDF	[Required] / [Nos. Available]	1/0	NA	0/0	Nos. Available	NA	0/0	ALL ULB (Nagar Parishad/ Nagar Palika)
SW5m		Sanitary Land fills	[Nos.] / [Nos. Available]	1/1	According to the rules of Solid Waste Management Rules 2016, for disposing of transported solid waste, scientific landfill is required to be developed at a distance of 500 meters from the	1/1	Nos. Available	NA	1/1	ALL ULB (Nagar Parishad/ Nagar Palika)

					<p>population area.  Due to non-availability of land at a distance of 500 meters from the population area near the municipality, the proposal for allotment of land has been sent to Tehsildar K.patan by selecting suitable land Khasra number 1255 acre 6.64 ha and Khasra number 1264 acre 5.16 ha. . After the allotment to the land municipality, a tender will be invited.</p>					
SW5n		Capacity of sanitary landfills	[MT] // [Nos. Available]	Not estimated	Not estimated	Not estimated	Nos. Available	Not estimated	Not estimated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW5o		Waste Deposit Centers (DHW)	[Nos] / [Nos. Available]	1/0	NA	1/0	Nos. Available	NA	1/0	ALL ULB (Nagar Parishad/ Nagar Palika)
SW5p		Other facilities	[give or select from list]		NA		NA	NA		ALL ULB (Nagar Parishad/ Nagar Palika)
SW6	Notification and									ALL ULB (Nagar

	Implementation of By-Laws									Parishad/ Nagar Palika)
SW6a		Notification of By-laws	[done] / [in progress] / [not initiated]	In progress	Done	Done	In progress	Done	Done	ALL ULB (Nagar Parishad/ Nagar Palika)
SW6b		Implementation of by-laws	[done] / [in progress] / [not initiated]	In progress	Done	In progress	In progress	Done	In progress	ALL ULB (Nagar Parishad/ Nagar Palika)
SW7	Adequacy of Financial Status of ULB									ALL ULB (Nagar Parishad/ Nagar Palika)
SW7a		CAPEX Required	[INR] / [Not required]		NA		Not required	NA		ALL ULB (Nagar Parishad/ Nagar Palika)
SW7b		OPEX	[INR per Year] / [% of requirement]		NA		NA	NA		ALL ULB (Nagar Parishad/ Nagar Palika)
SW7c		Adequacy of OPEX	[Yes] / [No]		NA		No	NA		ALL ULB (Nagar Parishad/ Nagar Palika)

Note: Action to be taken by respective Municipal authorities on all earmarked activities (bold).

## ACTION PLAN FOR SOLID WASTE MANAGEMENT

S. No.	Action Points	Timelines	Department/ Agencies
1.	Door to Door collection of municipal solid waste as per SWM Rules- 2016 Segregation at source of solid waste Regular pest control system	Regular activity	Municipal authorities
2.	Collection, Segregation, Transport and Disposal of Solid Waste in city	Regular activity	Municipal authorities /Development Authorities/Industries
3.	Segregation at source of solid waste.	Regular activity	Municipal authorities /Development Authorities/Waste Generator.
4.	Plantation of area specific types of plants to mitigate pollution Regular cleaning of drains and disposal of sludge In house disposal of Municipal Solid Waste in industrial areas as per SWM Rules-2016.	Regular activity	Department of Industries.
5.	Development of new MSW facility Establishment of Bio-compost RDF and waste to energy plant.	Immediate	ULBs
6.	Preventing solid waste entering into water bodies–installation of bar mesh in Nallahs &Drains.	Immediate	ULBs
7.	GPS enabled vehicles for waste transportation & user friendly mobile app.	Immediate	ULBs
8.	Redressal of complaints	Regular activity	ULBs
9.	Actions against defaulters of Solid Waste Management Rules- 2016	Immediate	ULBs
10.	Information, Education and Communication (IEC) activities for source segregation.	Regular activity	ULBs



#### **4.1.1.2 PLASTIC WASTE MANAGEMENT (FOR EACH ULB)**

Plastic products become an integral part of our daily life. That's why Plastic became menace worldwide as plastic polymer is produced at a massive scale worldwide. On an average, production of plastic crosses 150 Million tones globally per year. It has wide application in packaging, films, wrapping materials, shopping and garbage bags, fluid containers, clothing, toys, household and industrial products and building materials.

## BASELINE DATA FOR PLASTIC WASTE MANAGEMENT

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Please enter measurable outcome for district	ULB 1	ULB 2	ULB 3	ULB4	ULB5	ULB6	Action to be taken by
	Name of ULB		[name of ULB]		Nagar Prishad Bundi	N.Pa. K. Patan	N.Pa. Lakheri	N.Pa. Nainwa	N.Pa. Kapren	N.Pa. Indergarh	ALL ULB (Nagar Parishad/ Nagar Palika)
	Population		[Nos as per 2011 census]		103286	24627	29572	19424	20748	7444	ALL ULB (Nagar Parishad/ Nagar Palika)
PW1	Inventory of plastic waste generation										ALL ULB (Nagar Parishad/ Nagar Palika)
PW1a		Estimated Quantity of plastic waste generated in District	[MT/day] / [Not Estimated]		Not Estimated	0.0148	Not Estimated	Not Estimated	0.010	Not Estimated	ALL ULB (Nagar Parishad/ Nagar Palika)
PW2	Implementation of Collection										ALL ULB (Nagar Parishad/ Nagar Palika)
PW2a		Door to Door collection	[100%] / [partial %] / [not initiated]		100%	100	100%	100	100	100%	ALL ULB (Nagar Parishad/ Nagar Palika)
PW2b		Segregated Waste	[100%] / [partial %]		Partial	90	Partial	100	90	Partial	ALL ULB (Nagar Parishad/

		collection									Nagar Palika)
PW2c		Plastic waste collection at Material Recovery Facility	[MRF used] / [not installed]		Not installed	MRF Used	installed	not installed	MRF Used	installed	ALL ULB (Nagar Parishad/ Nagar Palika)
PW2d		Authorization of PW pickers	[Nos] / [not initiated]		11	5	24	5	2	0	ALL ULB (Nagar Parishad/ Nagar Palika)
PW2e		PW collection Centers	[Nos] / [not established]		1	1	1	2	1	1	ALL ULB (Nagar Parishad/ Nagar Palika)
PW3	Establishment of linkage with Stakeholders										ALL ULB (Nagar Parishad/ Nagar Palika)
PW3a		Established linkage with PROs of Producers	[Nos] / [not established]		Not established	Not established	Not established	Not established	Not established	Not established	ALL ULB (Nagar Parishad/ Nagar Palika)
PW3b		Established linkage with NGOs	[Nos] / [not established]		Not established	Not established	Not established	Not established	Not established	Not established	ALL ULB (Nagar Parishad/ Nagar Palika)
PW4	Availability of facilities for Recycling or utilization of PW										ALL ULB (Nagar Parishad/ Nagar Palika)
PW4a		No. of PW recyclers	[Nos]		0	0	0	0	0	0	ALL ULB (Nagar Parishad/ Nagar Palika)
PW4b		No Manufacturers	[Nos]		0	0	0	0	0	0	ALL ULB (Nagar Parishad/ Nagar Palika)

											Nagar Palika)
PW4c		No of pyrolysis oil plants	[Nos]		1	0	0	0	0	0	ALL ULB (Nagar Parishad/ Nagar Palika)
PW4d		Plastic pyrolysis	[Quantity in MT sent per Month]		0	0	0	0	0	0	ALL ULB (Nagar Parishad/ Nagar Palika)
PW4e		Use in road making	[Quantity MT used per Month]		0	0	0	0	0	0	ALL ULB (Nagar Parishad/ Nagar Palika)
PW4f		Co-processing in Cement Kiln	[Quantity in MT sent per Month]		0.11	0.20	0.03	0	0.20	0.01	ALL ULB (Nagar Parishad/ Nagar Palika)
PW5	Implementation of PW Management Rules, 2016										ALL ULB (Nagar Parishad/ Nagar Palika)
PW5a		Sealing of units producing < 50-micron plastic	[All sealed] / [Partial] / [no action]		0	uxjikfydk {ks= ds0ikVuesa 50-micron plastic IykfLVd mRiknud jusokyh bZdkbZ@m ksx LFKkfir ughagSA	0	Not Available	uxjikfydk {ks= dkisuesea 50-micron plastic IykfLVd mRiknud jusokyh bZdkbZ@m ksx LFKkfir ughagSA	0	ALL ULB (Nagar Parishad/ Nagar Palika)

PW5b		Prohibiting sale of carry bags < 50 micron	[Prohibited] / [Partial] / [no action]		Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	ALL ULB (Nagar Parishad/ Nagar Palika)
PW5c		Ban on Carry bags and other single use plastics as notified by State Government	[Implemented] / [Partial] / [no action] / [No Ban]		Implemented	Implemented	Implemented	Implemented	Implemented	Implemented	ALL ULB (Nagar Parishad/ Nagar Palika)
PW6	Implementation of Extended Producers Responsibility (EPR) through Producers/Brand-owners										ALL ULB (Nagar Parishad/ Nagar Palika)
PW6a		No of Producers associated with ULBs	[Nos] / [None]		None	None	None	None	None	None	ALL ULB (Nagar Parishad/ Nagar Palika)
PW6b		Financial support by Producers / Brand owners to ULBs	[Nos] / [None]		None	NA	None	None	NA	None	ALL ULB (Nagar Parishad/ Nagar Palika)
PW6c		Amount of PRO Support	[Rs...]		0	0	0	0	0	0	ALL ULB (Nagar Parishad/ Nagar Palika)
PW6d		Infrastructure support by Producers / Brand owners	[Nos of Producers] / [None]		None	None		None	None		ALL ULB (Nagar Parishad/ Nagar Palika)

		to ULBs									
PW6e		No of collection centers established by Producers / Brand owners to ULBs	[Nos] / [None]		None	None		None	None		ALL ULB (Nagar Parishad/ Nagar Palika)

**Note:** Action to be taken by respective Municipal authorities on all earmarked activities.

## ACTION POINTS FOR PLASTIC WASTE MANAGEMENT

S. No.	Action Points	Timelines	Department/ Agencies
1.	Door to Door plastic waste collection.	Regular activity	ULBs
2.	Setting up of decentralized waste processing facilities by bulk waste generators.	Immediate	ULBs/ Mandi Parishad / Bus Stand/ Hotels/ Institutions etc.
3.	Plastic waste segregation at Source.	Regular activity	ULBs/Waste generators
4.	Management by Waste Generator (Use of Plastic Carry Bags, Plastic Sheets, extended product life cycle, Cover Made of Plastic Sheets and Multi Layered Packaging).	Immediate	ULBs/ Panchayati Raj
5.	Utilization of Non-recyclable plastic waste (Road Construction, Waste to Fuel, Waste to energy, alternative uses identification etc).	As per requirement	ULBs/PWD
6.	Engaging Civil Societies working with Waste Picker.	Immediate	ULBs
7.	Ban on Carry bags and other single use plastics as notified by State Government.	Immediate	ULBs
8.	Ensuring no open burning and littering.	Immediate	ULBs/ Panchayati Raj
9.	Submission of Annual Report to CPCB.	Annually	RPCB
10.	Preventing plastic waste entering into water bodies – installation of bar mesh in Nallahs & Drains.	Immediate	ULBs
11.	Information, Education & Communication (IEC) for plastic waste management.	Regular Activity	ULBs/ NGOs/ Education Department

#### **4.1.1.3 CONSTRUCTION & DEMOLITION WASTE MANAGEMENT**

Safe and cost-effective management of construction & demolition wastes is a significant environmental challenge for modern society. Due to rapid urbanization is changing the nature of construction & demolition wastes management from a low priority, localized issue to a pervasive social and environmental problem with risks to public health and environment. Inadequately managed waste disposal has the potential to affect the health and environment. Construction and demolition waste" means waste comprising of building materials, debris and rubble resulting from construction, re-modeling, repair and demolition of any civil structure”.



### BASELINE DATA FOR CONSTRUCTION & DEMOLITION WASTE

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Please enter measurable outcome for district	ULB 1	ULB 2	ULB 3	ULB4	ULB5	ULB6	Action to be taken by
	Name of ULB		[name of ULB]		Nagar Parishad Bundi	N.P.A. K. PATAN	N.P.A. LAKHERI	N.P.A. NAINWA	N.P.A. KAPREN	N.P.A. INDERGARH	ALL ULB (Nagar Parishad/ Nagar Palika)
	Population		[Nos as per 2011 census]		103286	24627	29572	19424	20748	7444	ALL ULB (Nagar Parishad/ Nagar Palika)
CD1	Inventory of C&D waste generation										ALL ULB (Nagar Parishad/ Nagar Palika)
CD1a		Estimated Quantity	[Kg/Day] / [Not estimated]		Not estimated	1.80	Not estimated	0.2	0	Not estimated	ALL ULB (Nagar Parishad/ Nagar Palika)
CD2	Implement scheme for permitting bulk waste generators										ALL ULB (Nagar Parishad/ Nagar Palika)
CD2a		Issuance of Permissions by	[Initiated] / [Not		[Not initiated	[Not initiated	Not estimated	[Not initiated	[Not initiated	Not estimated	ALL ULB (Nagar

		ULBs	initiated]								Parishad/ Nagar Palika)
CD3	Establishment of C&D Waste Deposition centers										ALL ULB (Nagar Parishad/ Nagar Palika)
CD3a		Establishment of Deposition Points	[Yes] / [No]		YES	No	YES	No	No	YES	ALL ULB (Nagar Parishad/ Nagar Palika)
CD3b		C&D Deposition point identified	[Yes] / [No]		YES	No	YES	No	No	YES	ALL ULB (Nagar Parishad/ Nagar Palika)
CD4	Implementation of By-Laws for CD Waste Management										ALL ULB (Nagar Parishad/ Nagar Palika)
CD4a		Implementation of By-laws	[notified] / [not notified]		notified	No	notified	not notified	No	notified	ALL ULB (Nagar Parishad/ Nagar Palika)
CD4b		Collection of Deposition / disposal Charges	[Initiated] / [Not initiated]		Not initiated	Not initiated	Not initiated	not notified	Not initiated	Not initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
CD5	Establishment of C&D Waste recycling plant or linkage with										ALL ULB (Nagar Parishad/ Nagar Palika)

	such facility										
CD5a		Establishment CD Waste Recycling Plant	[Established] / [Sent to shared Facility] / [No facility exists]		No facility exists	No facility exists	No facility exists	Sent to shared Facility	No facility exists	No facility exists	ALL ULB (Nagar Parishad/ Nagar Palika)
CD5b		Capacity of CD Waste Recycling Plant	[MT/Day] / [Not available]		Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	ALL ULB (Nagar Parishad/ Nagar Palika)

**Note:** Action to be taken by respective Municipal authorities on all earmarked activities (bold).

## ACTION PLAN FOR CONSTRUCTION & DEMOLITION WASTE (C&D)

S.No.	Action Points	Timelines	Department/ Agencies
1.	Approval of Waste Management Plan submitted by Waste Generators before Construction starts.	Immediate	ULBs
2.	Proper collection, transportation, processing and disposal of C&D Waste	Immediate	ULBs/ Waste Generator
3.	Provisions for using materials made by C&D Waste in Construction Activity like paving blocks, lower layers of road pavements, colony and rural roads etc.	Immediate	Urban Development & Housing and Town Planning Department.
4.	Information, Education & Communication (IEC) for C&D waste management.	Regular Activity	ULBs/Development Authority/ NGOs/Education department.
5.	Fix rates to be paid by Waste Generators for Collection, Storage & Transportation of Waste.	Immediate	ULBs

#### **4.1.1.4. BIOMEDICAL WASTE MANAGEMENT**

Biomedical waste is defined as “any waste, which is generated during the diagnosis, treatment or immunization of human beings or animals or in research activities pertaining there to or in the production or testing of biological”. The biomedical waste management and handling has been assuming increasing significance for the past few years. The responsibility of medical administrators as regards proper handling and disposal of this category of waste has now become a statutory requirement with the promulgation of Government of India.

**BASELINE DATA FOR BIO-MEDICAL WASTE MANAGEMENT**

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Measurable Outcome For District	ULB 1	ULB 1	ULB 2	ULB 3	ULB4	ULB5	ULB6	Action to be taken by
	Name of ULB		[name of ULB]		CM& HO Bundi	Nagar Parishad Bundi	N.Pa. K. Patan	N.Pa. Lakheri	N.Pa. Nainwa	N.Pa. Kapren	N.Pa. Indergarh	ALL ULB (Nagar Parishad/ Nagar Palika)
	Population		[Nos as per 2011 census]			103286		29572	19424	20748	7444	ALL ULB (Nagar Parishad/ Nagar Palika)
BMW 1	Inventory of Biomedical Waste Generation											
BMW 1a		Total no. of Bedded Hospitals	[Nos] / [No inventory]		48	No inventory	1	1	1	1	1	CMHO
BMW 1b		Total no. of non-bedded HCF	[Nos] / [No inventory]		0	No inventory		No inventory	1	No inventory	No inventory	CMHO
BMW		Total no.	[Nos] / [No]		1	No		No	4	No	No	CMHO

1c		Clinics	inventory]			inventory		inventory		inventory	inventory	
BMW 1d		No of Veterinary Hospitals	[Nos] / [No inventory]			No inventory		No inventory	1	No inventory	No inventory	CMHO
BMW 1e		Pathlabs	[Nos] / [No inventory]			No inventory		No inventory	No inventory	No inventory	No inventory	CMHO
BMW 1f		Dental Clinics	[Nos] / [No inventory]			No inventory		No inventory	No inventory	No inventory	No inventory	CMHO
BMW 1g		Blood Banks	[Nos] / [No inventory]		1	No inventory		No inventory	No inventory	No inventory	No inventory	CMHO
BMW 1h		Animal Houses	[Nos] / [No inventory]			No inventory		No inventory	No inventory	No inventory	No inventory	ALL ULB (Nagar Parishad/ Nagar Palika)
BMW 1i		Bio-research Labs	[Nos] / [No inventory]		0	No inventory		No inventory	No inventory	No inventory	No inventory	CMHO
BMW 1j		Others	[Nos] / [No inventory]			No inventory		No inventory	No inventory	No inventory	No inventory	ALL ULB (Nagar Parishad/ Nagar Palika)/CMHO
BMW 2	Authorization of HCFs by SPCBs / PCCs				40							RPCB

BMW 2a		Bedded HCFs	[Nos Authorized]		40	NA		NA	NA	NA	NA	RPCB
BMW 2b		Non-bedded HCFs	[Nos Authorized]		1	NA		NA	NA	NA	NA	RPCB
BMW 3a	Biomedical Waste Treatment and Disposal Facilities (CBMWTFs											
BMW 3a		No of CBMWTFs	[Nos] / None			NA		NA	NA	NA	NA	RPCB
BMW 3b		Linkage with CBMWTFs	[Yes] / [no linkage]			NA		NA	NA	NA	NA	RPCB
BMW 3c		Capacity of CBMWTFs	[Adequate] / [Not adequate]			NA		NA	NA	NA	NA	RPCB
BMW 3d		Requiremen ts of CBMWTFs	[Require] / [not required]			NA		NA	NA	NA	NA	RPCB
BMW 3e		Captive Disposal Facilities of HCFs	[Nos] / [None]			NA		NA	NA	NA	NA	RPCB
BMW 4	Compliance by CBMWTFs											RPCB
BMW 4a		Compliance to standards	[Meeting] / [Not			NA		NA	NA	NA	NA	RPCB



			meeting] / [NA]										
BMW 4b		Barcode tracking by HCFs / CBMWTFs	[100%] / [Partly %] / [None]			NA		NA	NA	NA	NA	NA	RPCB
BMW 4c		Daily BMW lifting by CBMWTFs	[Kg / day]			NA		NA	NA	NA	NA	NA	RPCB
BMW 5	Status of Compliance by Healthcare Facilities												RPCB
BMW 5a		Pre- segregation	[100%] / [partly %] / [None]			NA		NA	NA	NA	NA	NA	RPCB
BMW 5b		Linkage with CBMWTFs	[100%] / [partly %] / [None]			NA		NA	NA	NA	NA	NA	RPCB

Note: -The CBMWTF should act as per the above immediately and report compliance.

## ACTION PLAN FOR BIO-MEDICAL WASTE

S. No.	Action Points	Timelines	Department/ Agencies
1.	Segregation of Bio Medical Waste (BMW) at source of generation in specified Color Coded bags as per Biomedical Waste Management Rule, 2016	Regular Activities	Health Department/ HCFs
2.	GPS enabled vehicles for Biomedical wastes transportation	Immediate	Health Department/RPCB/ CBWTFs
3.	Implementation of Rules in HCFs & Occupiers.	Immediate	Health Department/ RPCB
4.	Collection of Solid Waste other than BMW from HCFs	Immediate	CBWTFs
5.	<ul style="list-style-type: none"> <li>• Authorization to HCFs and Occupiers</li> <li>• Submission of Annual report to CPCB.</li> </ul>	Immediate	RPCB
6.	Mass awareness campaigns and extensive training programs.	Regular Activity	Health Department
7.	<ul style="list-style-type: none"> <li>• BMW from HCFs Transported, Treated &amp; disposed of in accordance with Rules.</li> <li>• Establish Bar coding &amp; Global Positioning system for handling of BMW.</li> <li>• Training to all workers. Assist Occupier in Training.</li> <li>• Supply Non Chlorinated coloured Plastic Bags to Occupiers.</li> </ul>	Immediate	CBWTFs
8.	<ul style="list-style-type: none"> <li>• Ensure BMW handling as per Rule.</li> <li>• Safe, Ventilated &amp; Secured In house Storage of BMW.</li> <li>• No mixing of BMW with MSW.</li> <li>• Bar code system for Bio-medical waste collection Bags.</li> </ul>	Regular Activity	Occupiers/ HCFs/ CBWTFs
9.	Information, Education & Communication (IEC) for Bio-medical waste management.	Regular Activity	Health Department/ NGOs/Education Department

#### **4.1.1.5 HAZARDOUS WASTE MANAGEMENT**

The improper handling, collection, treatment and disposal of hazardous waste material may cause substantial harm to human health or environment. Hazardous wastes can take the form of solids, liquids, sludge or contained gases and they are generated primarily by chemical production, manufacturing, and other industrial activities.

They may cause damage during inadequate storage, transportation, treatment or disposal operations. Improper hazardous-waste storage or disposal frequently contaminates surface and groundwater supplies. People living in homes built near old and abandoned waste disposal sites may be in a particularly vulnerable position. Hazardous wastes are classified on the basis of their biological, chemical, and physical properties. These properties generate materials that are toxic, reactive, ignitable, corrosive, infectious, or radio-active.

## BASELINE DATA FOR HAZARDOUS WASTEMANAGEMENT

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Measurable Outcome For District	Action to be taken by
HW1	Inventory of Hazardous Waste				RPCB
HW1a		No of HW Generating Industry	[Nos.]	<b>4</b>	RPCB
HW1b		Quantity of HW	[MT/Annum]	<b>631.025</b>	RPCB
HW1c		Quantity of Incinerable HW	[MT/Annum]	<b>0</b>	RPCB
HW1d		Quantity of land-fillable HW	[MT/Annum]	<b>65.5099</b>	RPCB
HW1e		Quantity of Recyclable / utilizable HW	[MT/Annum]	<b>565.5151</b>	RPCB
HW2	Contaminated Sites and illegal industrial hazardous waste dumpsites				RPCB
HW2a		No of HW dumpsites	[Nos] / [None]	<b>0</b>	RPCB
HW2c		Probable Contaminated Sites	[Nos] (provide list)	<b>0</b>	RPCB
HW3	Authorization by SPCBs/PCCs				RPCB

HW3a		No of industries authorized	[Nos]	<b>4</b>	RPCB
HW3b		Display Board of HW Generation in front of Gate	[Nos]	<b>4</b>	RPCB
HW3	Availability of Common Hazardous Waste TSDF				RPCB
HW3a		Common TSDF	[Exists] / [No] / [Sent to Other District within State]	[No] / [Sent to Other District within State]	RPCB
HW3b		Industries linkage with TSDF	[Nos.]	<b>4</b>	RPCB
HW4	Linkage of ULBs in District with Common TSDF			<b>0</b>	ALL ULB (Nagar Parishad/ Nagar Palika)
HW4a		ULBs linked to Common TSDFs for Domestic Hazardous Waste	[Yes] / [No]	<b>NO</b>	ALL ULB (Nagar Parishad/ Nagar Palika)

#### **4.1.1.6 E-WASTE MANAGEMENT**

Waste electrical and electronic equipment is becoming major threat to the whole world. Rapid growth of technology, up- gradation of technical innovations and a high rate up-gradation by exchanging old electronic items have led to one of the fastest growing waste in the world. Its toxic emissions mixed with virgin soil and air and causing harmful effects to the entire biota either directly or indirectly. Direct impacts include release of acids, toxic compounds including heavy metals, carcinogenic chemicals and indirect effects such as biomagnifications of heavy metals. Many private firms are involved in collecting, dismantling, separation and exporting e-wastes for recyclers.

## BASELINE DATA FOR E- WASTE MANAGEMENT

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Measurable Outcome For District	Action to be taken by
EW1	Status of facilitating authorized collection of E-Waste				ALL ULB (Nagar Parishad/ Nagar Palika)
EW1a		Does the citizen are able to deposit or provide E-Waste through Toll-free Numbers in the District	[Yes] / [No]	No	ALL ULB (Nagar Parishad/ Nagar Palika)
EW1c		Collection centers established by ULB in District	[Nos] / [None]	None	ALL ULB (Nagar Parishad/ Nagar Palika)
EW1d		Collection centers established by Producers or their PROs in the District	[Nos] / [None]	None	ALL ULB (Nagar Parishad/ Nagar Palika)
EW1e		Does the district has linkage with authorized E-Waste recyclers / Dismantler	[Yes] / [No]	No	ALL ULB (Nagar Parishad/ Nagar Palika)
EW1f		No authorized E-Waste recyclers / Dismantler	[Nos] / [None]	None	ALL ULB (Nagar Parishad/ Nagar Palika)
EW2	Status of Collection of E-Waste				
EW2a		Authorizing E-Waste collectors	[Authorized] / [None]	None	RPCB
EW2b		Involvement of NGOs	[Yes] / [No] /	No	RPCB

			[Nos]		
EW2c		Does Producers have approached NGOs/ Informal Sector for setting up Collection Centers?	[Yes] / [No] / [Nos]	No	RPCB
EW2d		Does ULBs have linkage with authorized Recyclers / Dismantlers	[Yes] / [No]	No	ALL ULB (Nagar Parishad/ Nagar Palika)
EW4	Control E-Waste related pollution				
EW4a		Does informal trading, dismantling, and recycling of e-waste exists in District	[Yes] / [No]	No	RPCB
EW4b		Does the administration closed illegal E-Waste recycling in the District	[Yes] / [No] / [Nos]	No	ALL ULB (Nagar Parishad/ Nagar Palika)
EW4c		No of actions taken to close illegal trading or processing of E-Waste	[Nos]	0	RPCB
EW5	Creation of Awareness on E-Waste handling and disposal				ALL ULB (Nagar Parishad/ Nagar Palika)
EW5a		Does PROs / Producers conducted any District level Awareness Campaigns	[Yes] / [No] / [Nos]	No	ALL ULB (Nagar Parishad/ Nagar Palika)
EW5c		Does District Administration conducted any District level Awareness Campaigns	[Yes] / [No] / [Nos]	No	ALL ULB (Nagar Parishad/ Nagar Palika)



## ACTION PLAN FOR E-WASTE MANAGEMENT

S. No.	Action Points	Timelines	Department/ Agencies
1.	Collection, Segregation and Channelization of e-waste pertaining to orphan products to recyclers/dismantlers	Immediate	ULBs
2.	Segregation of E-waste at source from MSW	Regular Activity	ULBs/Waste Generator
3.	<ul style="list-style-type: none"> <li>• Ensure no illegal e-waste processing</li> <li>• No dumping of e-waste, HW &amp; other wastes on banks of river</li> <li>• No illegal transportation of e-waste.</li> </ul>	Immediate	District Administration  /ULBs/RPCB/ RTO
4.	Information, Education & Communication (IEC) for E-waste Management.	Regular Activity	ULBs/Development Authority/ NGOs/Education department
5.	Authorization to Manufacturers, Dismantlers, Recyclers, Refurbishes.	Immediate	RPCB
6.	Earmarking or allocation of industrial space or shed, abandoned mills/factories for e-waste dismantling/recycling units in industrial clusters	Immediate	Department of Industries.

#### **4.1.2 WATER QUALITY MANAGEMENT PLAN**

Systematic management of water resources is necessary to ensure the required balance between development pressures and the safe guarding of the natural and built environment for future generations. The purpose of Water Quality Management Plan is to reduce discharge of pollutants into urban runoff from development projects by reducing or eliminating sources of pollutants, and managing site runoff volumes and flow rates through best Management Practices.

## BASELINE DATA FOR WATER QUALITY MANAGEMENT

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Measurable Outcome For District	Action to be taken by
WQ1	Inventory of water resources in District				
WQ1a		Rivers	[Nos] and [Length in Km]	0	Water Resources Department
WQ1b		Length of Coastline	[in Km]	NIL	Water Resources Department
WQ1c		Nalas/Drains meeting Rivers	[Nos]	NIL	Water Resources Department
WQ1d		Lakes / Ponds	[Nos] and [Area in Hectares]	2	Water Resources Department
WQ1e		Total Quantity of sewage and industrial discharge in District	[Automatic] (SW1a+IW1b)	40 MT/DAY	Water Resources Department
	Control of Groundwater Water Quality				
WQ2a		Estimated number of bore-wells	[Nos]	93	Ground water department
WQ2b		No of permissions given for extraction of groundwater	[Nos]	93	Ground water department
WQ2c		Number of groundwater polluted areas	[Nos]	NA	Ground water department

WQ2d		Groundwater Availability	[adequate] / [not adequate]	adequate	Ground water department
WQ3	Availability of Water Quality Data				
WQ3a		Creation of monitoring cell	[Yes] / [No]	YES	Ground water department
WQ3b		Access to Surface water and groundwater quality data at DM office	[Available] or [Not available]	Not available	Ground water department
WQ4	Control of River side Activities				
WQ4a	Control of River side Activities	River Side open defecation	[Fully Controlled] / [Partly controlled] / [no Measures taken]	Fully Controlled	ALL ULB (Nagar Parishad/ Nagar Palika)
WQ4b		Dumping of SW on river banks	[Fully Controlled] / [Partly controlled] / [no Measures taken]	Fully Controlled	ALL ULB (Nagar Parishad/ Nagar Palika)
WQ4c		Control measures for idol immersion	[Measures taken] / [Measures taken post immersion] / [No Measures taken]	measures taken	ALL ULB (Nagar Parishad/ Nagar Palika)
WQ5	Control of Water Pollution in Rivers				
WQ5a		Percentage of untreated sewage	[%] (automatic SM1g/SM1a)	2 MLD	ALL ULB (Nagar Parishad/ Nagar Palika)
WQ5b		Monitoring of Action Plans for Rejuvenation of Rivers	[Monitored] / [Not monitored] [not applicable]	not applicable	ALL ULB (Nagar Parishad/ Nagar Palika)
WQ5c		No of directions given to industries for Discharge of	[Nos]	NA	RPCB

		Untreated industrial wastewater in last 12 months			
WQ6	Awareness Activities				
WQ6a		District level campaigns on protection of water quality	[Nos in previous year]	NA	ALL ULB (Nagar Parishad/ Nagar Palika)
WQ6b	Oil Spill Disaster Contingency Plan				ALL ULB (Nagar Parishad/ Nagar Palika)
WQ6a		Creation of District Oil Spill Crisis Management Group	[Created] / [Not Created]	NA	ALL ULB (Nagar Parishad/ Nagar Palika)
WQ6b		Preparation District Oil Spill Disaster Contingency Plan	[Prepared] / [Not Prepared]	NA	ALL ULB (Nagar Parishad/ Nagar Palika)
WQ7	Protection of Flood plains				
WQ7a		Encroachment of flood plains is regulated.	[Yes] / [No]	YES	ALL ULB (Nagar Parishad/ Nagar Palika)
	Rainwater Harvesting				
WQ8a		Action plan for Rain water harvesting	[Implemented] / [Not implemented]	Implemented	ALL ULB (Nagar Parishad/ Nagar Palika)

**Note:** Action to be taken by respective Municipal authorities on all earmarked activities (bold).

### **4.1.3 DOMESTIC SEWAGE MANAGEMENT PLAN**

Domestic sewage is generated by domestic activities including toilet, bathroom, clothes washing and kitchen cleaning activities. This sewage water contains high levels of micro-organisms, chemicals (nutrients) and other contaminants capable of causing human illness and adversely impacting on the local environment.

**BASELINE DATA FOR DOMESTIC SEWAGE MANAGEMENT**

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Please enter Measurable Outcome for District	ULB 1	ULB 2	ULB 3	ULB 4	ULB 5	Action to be taken by	
SM1	Inventory of Sewage Management			N.P. Bundi	N.Pa. K. Patan	N.Pa. Lakheri	N.Pa. Nainwa	N.Pa. Kapren	N.Pa. Indergarh	ALL ULB (Nagar Parishad/ Nagar Palika)	
SM1a		Total Quantity of Sewage generated in District from Class II cities and above	[MLD]	2 MLD	uxjikfydk ds0ikVu esa lhojst ykbZu ughagSA	NA	uxjikfydk uSuoka esa lhojst ykbZu ugha gSA	uxjikfydk dkijesu esa lhojst ykbZu ugha gSA	NA	ALL ULB (Nagar Parishad/ Nagar Palika)	
SM1b		No of Class-II towns and above	[Nos]	1							ALL ULB (Nagar Parishad/ Nagar Palika)
SM1c		No of Class-I towns and above	[Nos]	0							
SM1d		No of Towns needing STPs	[Nos]	0							ALL ULB (Nagar Parishad/ Nagar Palika)
SM1e		No of Towns STPs installed	[Nos]	1							ALL ULB (Nagar

									Parishad/ Nagar Palika)
SM1f		Quantity of treated sewage flowing into Rivers (directly or indirectly)	[MLD]	NIL					ALL ULB (Nagar Parishad/ Nagar Palika)
SM1g		Quantity of untreated or partially treated sewage (directly or indirectly)	[Automatic]	Automatic					ALL ULB (Nagar Parishad/ Nagar Palika)
SM1h		Quantity of sewage flowing into lakes	[MLD]	0					RPCB
SM1i		No of industrial townships	[Nos]	2					
SM2	Adequacy of Available Infrastructure for Sewage Treatment								ALL ULB (Nagar Parishad/ Nagar Palika)
SM2a		% sewage treated in STPs	[Automatic]	100%					ALL ULB (Nagar Parishad/ Nagar Palika)
SM2b		Total available Treatment Capacity	[MLD]	8 MLD					ALL ULB (Nagar Parishad/ Nagar Palika)



SM2c		Additional treatment capacity required	[MLD]	NO					
SM3	Adequacy of Sewerage Network								ALL ULB (Nagar Parishad/ Nagar Palika)
SM3a		No of ULBs having partial underground sewerage network	[Nos]	1					ALL ULB (Nagar Parishad/ Nagar Palika)
SM3b		No of towns not having sewerage network	[Nos]	5					ALL ULB (Nagar Parishad/ Nagar Palika)
SM3c		% population covered under sewerage network	[Automatic]	78 % work Is Progress					

**Note:** Action to be taken by respective Municipal authorities on all earmarked activities (bold).

## **ACTION POINT FOR SEWAGE MANAGEMENT**

### **a. SHORT TERM ACTION POINT**

<b>S.No.</b>	<b>Action Point</b>	<b>Timeline</b>	<b>Implementing Department/Agency</b>
1	Estimation of total sewage generation from City/Towns where sewage treatment facility does not exist and preparation of DPR for treatment of sewage.		ULBs
2	Measurement of flow & load of all the drains contributing pollution load in Rivers.		ULBs
3	Installation of Bar-meshes in the drains & regular cleaning & disposal of Solid Waste from them.		ULBs
4	Completion and commissioning of under construction STPs.		ULBs/Working Agencies
5	Obtaining Consent to Operate/Establish and Hazardous Authorization from RPCB.		ULBs/Operating Govt. Agencies
6	Sewage Management in the areas where sewerage network does not exist.		ULBs

**b. LONG TERM ACTION POINT**

<b>S.No.</b>	<b>Action Point</b>	<b>Timeline</b>	<b>Implementing Department/ Agency</b>
1	Laying of Sewerage Network & Connection of households to the sewer line in order to utilize the installed capacity of existing STPs.		ULBs
2	Establishment of Sewage Treatment Plants of adequate capacity		ULBs
3	Infrastructure Development in Irrigation/Horticulture/ Sprinkling/Industrial use etc. and ensuring use of treated water.		ULBs
4	Ensuring Open Defecation Free in all the villages situated along the river		Gram Panchayat, Panchayati Raj, Rural Development Departments, Rastriya Swachta Mission-Gramin.

#### **4.1.4 INDUSTRIAL WASTEWATER MANAGEMENT PLAN**

Industrial waste water is one of the important and major pollution sources of Water. A huge amount of industrial waste water was discharged into rivers & lake. This resulted in serious pollution problems in the water environment and causes negative effects to the eco-system and human's life. There are many types of industrial waste water based on different industries and contaminants. Each sector produces its own particular combination of pollutants.

## BASELINE DATA FOR INDUSTRIAL WASTEWATER MANAGEMENT

<b>Industrial Wastewater Management Plan</b>					
<b>Sr. No.</b>	<b>Action Areas</b>	<b>Details of Data Requirement</b>	<b>Measurable Outcome</b>	<b>Please enter Measurable Outcome for District</b>	<b>Action to be taken by</b>
IWW1a	Inventory of industrial wastewater Generation in District	No of Industries discharging wastewater	-	-	-
IWW1b		Total Quantity of industrial wastewater generated	-	-	-
IWW1c		Quantity of treated IWW discharged into Nalas / Rivers	-	-	-
IWW1d		Quantity of un-treated or partially treated IWW discharged into lakes	-	-	RPCB
IWW1e		Prominent Type of Industries	-	-	RPCB
IWW1f		Common Effluent		-	-

	Treatment Facilities				
IWW2a	Status of compliance by Industries in treating wastewater	No of Industries meeting Standards	-	-	RPCB
IWW2b		No of Industries not meeting discharge Standards	-	-	RPCB
IWW2c		No of complaints received or number of recurring complaints against industrial pollution in last 3 months	-	-	RPCB
IWW4a	Status of Action taken for not meeting discharge standards	No industries closed for exceeding standards in last 3 months	-	-	RPCB
IWW4b		No of industries where Environmental Compensation was imposed By SPCBs	-	-	RPCB

## ACTION POINT FOR INDUSTRIAL WASTE MANAGEMENT

S.No.	Action Point	Timeline	Implementing Department/Agency
1	Monitoring of water polluting industries and ensuring closure of industries which are operating without consent or non-compliant.	Quarterly	RPCB
2	Closure the illegal water polluting industries.	Regular activity	District Administration, Police, RPCB, ULBs, Power Corporation, Department of Industries etc.

#### **4.1.5 AIR QUALITY MANAGEMENT PLAN**

Air quality affects our health, the livability of our cities and towns, and our environment. Air pollution, particularly from human activity, can cause health problems that affect the heart and lungs, and can cause cancer. Even short-term exposure to air pollution can cause health problems. Children, the elderly and people with existing heart and lung conditions are especially affected by air pollution.

Air quality management refers to all the activities to regulatory authority undertake to help protect human health and the environment from the harmful effects of air pollution.



## BASELINE DATA FOR AIR QUALITY MANAGEMENT

<b>Air Quality Management Plan</b>					
<b>No.</b>	<b>Action Areas</b>	<b>Details of Data Requirement</b>	<b>Measurable Outcome</b>	<b>Please enter Measurable Outcome for District</b>	<b>Action to be taken by</b>
AQ1a	AQ1-Availability of Air Quality Monitoring Network in District	Manual Air Quality monitoring stations of SPCBs /CPCB	[Nos] / [None]	None	RPCB
AQ1b		Automatic monitoring stations Operated by SPCBs / CPCB	[Nos] / [None]	None	RPCB
AQ2a	AQ2-Inventory of Air Pollution Sources	Identification of prominent air polluting sources	[Large Industry] / [Small Industry] / [Unpaved Roads] / [Burning of Waste Stubble] / [Brick Kiln] / [Industrial Estate] / [Others] (Multiple selection)	Large (Cement, Vegetable oil)/Small (Rice Mill, Stone Crusher)	RPCB
AQ2b		No of Non-Attainment Cities	[Nos] / [None]	None	RPCB
AQ2c		Action Plans for non-attainment cities	[Prepared] / [Not yet prepared]	NA	RPCB

AQ3a	AQ3-Availability of Air Quality Monitoring Data at DMs Office	Access to air quality data from SPCBs & CPCB through Dashboard	[Available] / [Not yet Available]	NA	RPCB
AQ4a	AQ4-Control of Industrial Air Pollution	No of Industries meeting Standards	[Nos]	56	RPCB
AQ4b		No of Industries not meeting discharge Standards	[Nos]	0	RPCB
AQ5a	AQ5-Control of Non-industrial Air Pollution sources	Control open burning of Stubble –during winter	[Nos of fire incidents]	None	ULB
AQ5b		Control Open burning of Waste – Nos of actions Taken	[Nos]		ULB
AQ5c		Control of forest fires	[SOP available] / [No SoP]		
AQ5d		Vehicle pollution check centers	[% ULBs covered]		
AQ5e		Dust Suppression Vehicles	[% ULBs covered]		
AQ6a	AQ6-Development of Air Pollution complaint redressal system	Mobile App / Online based air pollution complaint redressing system of SPCBs.	[Available] / [Not available]	Available	

## ACTION PLAN FOR AIR QUALITY MANAGEMENT PLAN

### (i) VEHICULAR EMISSION CONTROL

#### a. Short Term Action Plan: Reduce Congestion

S. No	Action Points	Timeframe for implementation	Action Required to be Taken by Responsible Departments
1.	Launch extensive drive against polluting vehicles for ensuring strict compliance.	As regular activity	R.T.O/Traffic Police
2.	Launch public awareness campaign for air pollution control, vehicle maintenance, minimizing use of personal vehicles, lane discipline, etc.	As regular activity	R.T.O/ Traffic Police
3.	Prevent parking of vehicles in the non-designated areas	As regular activity	Traffic Police/ULBs
4.	Prepare & implement plan for widening of road sand improvement of infrastructure for de-congestion of road.		PWD
5.	Steps for promoting battery operated vehicles including establishment of charging stations.		Transport Department/ULBs& Development Authorities
6.	Synchronize traffic movements/Introduce intelligent traffic systems for lane-driving.		Traffic Police
7.	Installation of remote sensor based PUC system		Traffic Police

**b. LONG TERM ACTION PLAN: REDUCE CONGESTION**

<b>S. No</b>	<b>Action Points</b>	<b>Timeframe for implementation</b>	<b>Action Required to be Taken by Responsible Departments</b>
1.	Plying of electric buses, e-rickshaws for public transport including establishment of sufficient charging stations.		Transport Department
2.	Arrangement of Multi-level Parking Facilities		ULBs/Development Authorities
3.	Development/Strengthening of Bike zone/Cycle zone at metro/railways/bus stations from where travelers hire bicycle to reach the destination.		ULBs/Development Authorities

(ii) **OTHER STEPS TO CONTROL AIR POLLUTION**

**a. SHORT TERM ACTION PLAN**

<b>S. No.</b>	<b>Action Points</b>	<b>Time frame for implementation</b>	<b>Action Required to be Taken by Responsible Departments</b>
1.	Engage with concerned authorities on continual basis for maximizing coverage of LPG/PNG for domestic and commercial cooking with target of 100% coverage ( <i>Under Pradhan Mantri Ujjwala+ Yojana in urban areas</i> )		District Supply Officer
2.	Street vendors are to be controlled strictly in respect of removing their wastes and debris before leaving the site of operation.		ULBs
3.	Complete ban on littering of streets with municipal solid wastes (MSW). Segregation & source collection at source of MSW to be implemented.		ULBs

**b. LONG TERM ACTION PLAN**

<b>S. No.</b>	<b>Action Points</b>	<b>Timeframe for implementation</b>	<b>Action Required to be Taken by Responsible Departments</b>
1	Installation of CEMS by polluting units/institutions etc. under "Polluters Pay Principles".	Already installed by all 17 categories unit.	RPCB
2	Block mixed Plantation in forest areas and roadside/ avenue Plantation in municipal areas for mitigation of air pollution based open location of pollution sources and Wind rose data	As regular activity.	Forest department

**(iii) CONTROL OF AIR POLLUTION FROM CONSTRUCTIONS AND DEMOLITION ACTIVITIES**

<b>S. No.</b>	<b>Action Points</b>	<b>Timeframe for implementation</b>	<b>Action Required to be Taken by Responsible Departments</b>
1.	Enforcement of Construction & Demolition Rules 2016. Fine should be imposed on defaulting units.		ULBs/Development Authorities
2.	Control measures for fugitive emissions from material handling, conveying and screening operations through water sprinkling, curtains, barriers and dust suppression units;		ULBs/Development Authorities
3.	Ensure carriage of construction material in closed/covered vessels.		Development authorities/ Regional Transport Department
4.	Builders should leave 33% area for green belt in residential colonies.		Development Authorities/ housing companies
5.	All construction areas must be covered to avoid dispersion of particulate matter.		ULBs/Development Authorities

**(IV) CONTROL OF EMISSIONS FROM BIOMASS / CROP RESIDUE /  
GARBAGE / MUNICIPAL SOLID WASTE BURNING / FORESTF-IREs**

<b>S. No.</b>	<b>Action Points</b>	<b>Timeframe for implementation</b>	<b>Action Required to be Taken by Responsible Departments</b>
<b>i)</b>	Launch extensive drive against open burning of bio-mass, crop residue, garbage, leaves, etc.		ULBs
<b>ii)</b>	Regular check and control of burning of municipal solid wastes and use of fire extinguisher for control of fire in municipal solid waste and biomass.		ULBs
<b>iii)</b>	Proper collection of horticulture waste (bio-mass) and its disposal following composting-cum-gardening approach as material for plantations.		ULBs
<b>iv)</b>	Ensure ban on burning of agriculture waste and crop residues and its implementation.		Agriculture Department
<b>v)</b>	Door to Door collection of segregated waste by agency and then its disposal directly in plant without dumping it on land.		ULBs
<b>vi)</b>	Establishment of composting pits in Parks/ residential societies etc for management of biodegradable waste.		ULBs
<b>vii)</b>	No plot should be left open more than 02 years and planting of trees must be mandatory on vacant plots.		ULBs

## (V) ACTION POINTS FOR CONTROL OF INDUSTRIAL EMISSIONS

### a. SHORT TERM ACTION PLAN

S. No.	Action Points	Timeframe for implementation	Action Required to be Taken by Responsible Departments
1.	Identification of brick kilns and their regular monitoring including use of designated fuel, and closure of unauthorized units.		Local Administration/ RPCB
2.	Bank guarantee should be taken for the compliance of conditions imposed in CTO/CTE for control of Environmental Pollution from industries. The bank guarantee shall be forfeited in case of any violation. Verification of these conditions to be carried out by RPCB.	Already in place	RPCB

### b. LONG TERM ACTION PLAN

S. No.	Action Points	Timeframe for implementation	Action Required to be Taken by Responsible Departments
	Installation of appropriate air pollution control devices in factory units/industries.	Already installed in 17 categories units & GPI. Regular verification of performance of pollution control devices being carried out.	RPCB



#### 4.1.6 MINING ACTIVITY MANAGEMENT PLAN

Mining Activities Management Plan		
<p><b><u>Sources</u></b></p> <p><b>Active or Abandoned surface and underground mines, processing plants</b></p>	<p><b><u>Causes</u></b></p> <ul style="list-style-type: none"> <li>• Particulate matter is released and cause air pollution</li> <li>• Physical disturbance to the landscape, decline of wildlife and plant species.</li> <li>• Largely affect the surface and ground water near the mining activity</li> </ul>	<p><b><u>Efforts</u></b></p> <ul style="list-style-type: none"> <li>• Closing illegal and unregulated mines</li> <li>• Form better legislation and regulation</li> <li>• Closing and reclaiming sites of shutdown mines</li> <li>• Investing in R&amp;D of Green Mining Technology</li> </ul>

**BASELINE DATA FOR MINING ACTIVITYMANAGEMENT**

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Measurable Outcome for District	Action to be taken by
MI1a	Inventory of Mining in District				
MI1a		Type of Mining Activity	Sand Stone		Mining Department
					Mining Department
MI1b		No of Mining licenses given in the District	264		Mining Department
MI1c		Area covered under mining	9.2125 [Sq. KM]		Mining Department
MI1d		Area of District	5550[Sq. KM]		Mining Department
MI1e		Sand Mining	[No]		Mining Department
MI1f		Area of sand Mining	NIL		Mining Department
MI2	Compliance to Environmental Conditions				
MI2a		No of Mining areas meeting Environmental Clearance Conditions	258		Mining Department
MI2b		No of Mining areas meeting Consent Conditions of SPCBs / PCCs	203		Mining Department
MI3a	Mining related environmental Complaints				

MI3b		No of pollution related complaints against Mining Operations in last 1 year	NIL		RPCB
MI4	Action against non-complying mining activity				
MI4a		No of Mining operations suspended for violations to environmental norms	NIL		Mining Department
MI4b		No. of directions issued by SPCBs	NIL		RPCB

## ACTION POINTS FOR LAND DEGRADATION – MINING

S.No.	Action Points	Timeline	Concerned Department
1.	Adoption of sustainable and systematic mining practices	Regular Activities	Mining Dept.
2.	Enforcing strict control measures against air pollution.	Immediate	RPCB
3.	Enforcing strict control measures against water pollution	Regular Activities	RPCB
4.	Enforcing strict control measures against noise pollution	Regular Activities	RPCB
5.	Establishment of greenbelt in and around mining lease areas and planting of rows of trees along road sides to hold the spread of dust over larger areas.	Regular Activities	Mine Consent/Forest Dept.
6.	Adoption of appropriate soil and moisture conservation measures in the mining lease area to hold run-off and increase in filtration.		Concerned Mines /Mining Dept.
7.	Stabilization and consolidation of inactive dumps through engineering and vegetative measures.		Concerned Mines /Mining Dept.
8.	Strict implementation of reclamation and rehabilitation measures both within and outside the mining lease areas.		Concerned Mines /Mining Dept.

#### 4.1.7 NOISE POLLUTION MANAGEMENT PLAN

<b>Noise Pollution Management Plan</b>		
<b><u>Sources</u></b>	<b><u>Causes</u></b>	<b><u>Efforts</u></b>
<ul style="list-style-type: none"><li>• <b>Industrialization</b></li><li>• <b>Poor Urban Planning</b></li><li>• <b>Transportation</b></li><li>• <b>Construction Activity</b></li><li>• <b>Household Chores.</b></li></ul>	<ul style="list-style-type: none"><li>• Hearing Problems Health Issue Sleeping</li><li>• Disorder Cardiovascular Issue</li><li>• Effect on Wildlife &amp; Environment</li></ul>	<ul style="list-style-type: none"><li>• Turn off appliances at home and office.</li><li>• Go green by planning trees.</li><li>• Use noise absorbent in noisy machineries Proper Lubrication and better maintenance.</li><li>• Regular check noise level.</li></ul>

**BASELINE DATA FOR NOISE POLLUTION MANAGEMENT**

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Please enter Measurable Outcome	Action to be taken by
NP1	Availability Monitoring equipment				
NP1a		No. of noise measuring devices with district administration	[Nos] / [None]	26	Police
NP1b		No. of noise measuring devices with SPCBs	[Nos] / [None]	2	RPCB
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]	Available	Police
NP2	Management of Noise related				

	complaints				
NP2a		No of complaints received on noise pollution in last 1 year			Police
NP2b		No of complaints redressed	[Nos]		Police
NP3	Compliance to ambient noise standards				
NP3a		Implementation of Ambient noise standards in residential and silent zones	[Nos]	ftyk cwUnh 'kgj esa /ofu iznw"k.k ls lEcfU/kr f'kdk;r izkIr gksus ij fu;ekuqlkj /ofu iznw"k.k vf/kfu;e ds vUrxZr dk;Zokgh dh tkrh gSA	Police
NP3b		Noise monitoring study in district		carried out	RPCB
NP3c		Sign boards in towns and cities in silent zones	[Regular Activity] / [Occasional] / [Never]	Not Installed	ALL ULB (Nagar Parishad/ Nagar Palika)

## ACTION POINTS FOR NOISE POLLUTION

S. No.	Action Points	Timeline	Concerned Department
1.	Impose restrictions in traffic hours	Regular Activities	RTO /Traffic Police
2.	To restrict the vehicular honking	Regular Activities	RTO /Traffic Police
3.	Establish suitable buffer zones around residential areas in order to insulate from noise emanating areas such as commercial, industrial, road etc.	Immediate	Development Authority
4.	Impose restriction on any sound creating activities in the silent zone	Regular Activities	District Administration / District Police
5.	Enforce the Noise Pollution (Regulation and Control) Rules. 2000	Immediate	District Administration / District Police
6.	A loudspeaker or a public address system shall not be used except after obtaining written permission from the authority.	Regular Activities	District Administration / District Police
7.	A loudspeaker/any other musical instrument or a public address system shall not be used at night (between 10.00p.m.to 6.00a.m.).	Regular Activities	District Administration/ District Police
8.	No person shall use, operate or permit the use or operation of a loud speaker in any public places or within distance of 200 meters from any public places or in any place of public entertainment.	Regular Activities	District Administration/ District Police



## **Conclusion**

Efforts have been made to make a District Environmental Action Plan according to the data provided by the various deptt 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.*

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