Jhalawar District Environmental Action Plan

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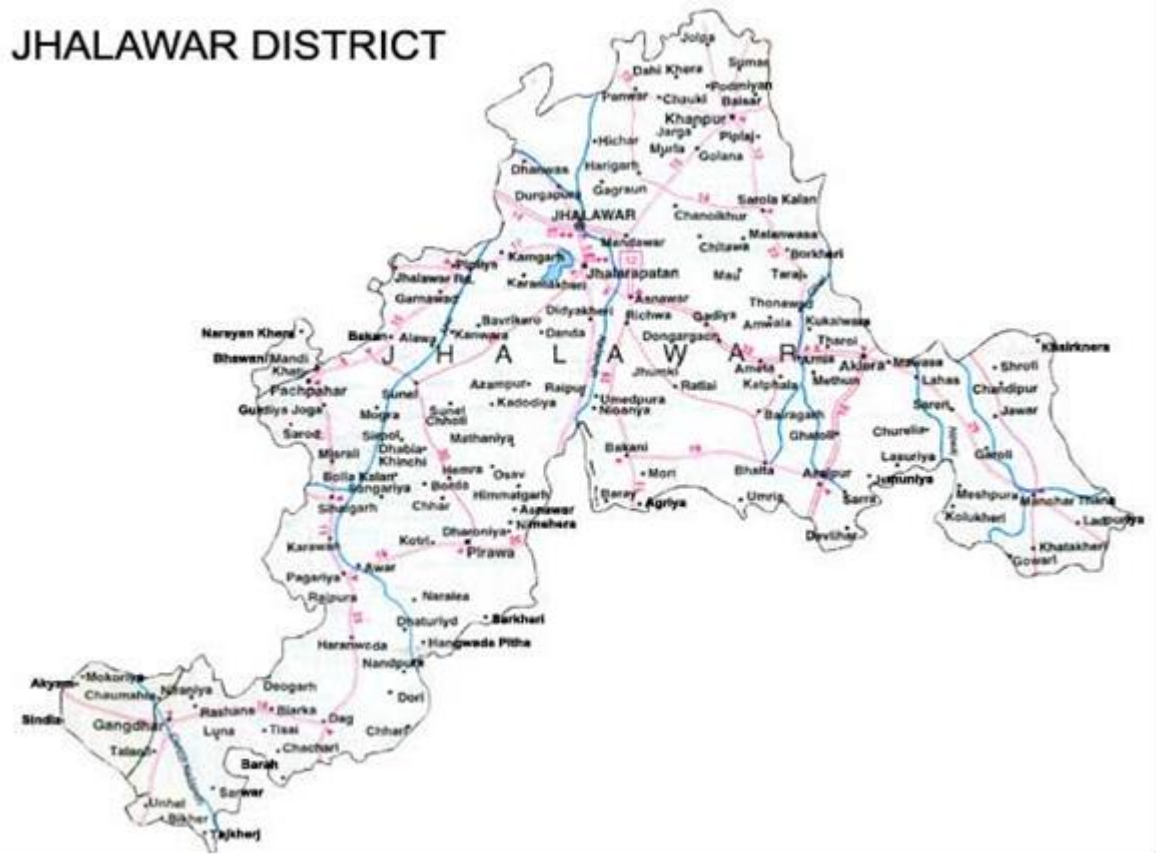
ABOUT THE DISTRICT

Jhalawar is located in the south east corner of Rajasthan at the edge of the Malwa plateau. The State of Madhya Pradesh borders Jhalawar on the south west and in the east of Jhalawar district, while to the north west, north and north east are Ramganj, Mandi, Sangod tehsils of Kota district and north east are Atru and Chhipabarod tehsils of Baran district.

To the north the Mukandara Range, running from north-west to east. From a rough boundary between the two districts but Khanpur is beyond the main range. The district is situated between 23°45'20" and 24°52'17" north latitudes and 75°27'35" and 76°56'48" east longitudes.



Topography

Jhalawar district is an expanse of fertile plain having rich black-cotton soil. It is watered by several rivers, giving it a verdant look. The largest river flowing through the area is Kali

Sindh which flows through the territory to join the Chambal, Rajasthan's largest river. Other rivers include Ujaad, Ahu, Parvan, Chavli, etc.

The Aravali hills, which are the most ancient folded mountain range in India, crosses the region, roughly dividing the plains of hadoti from the Malwa plateau. These hills and the surrounding areas were once thickly forested and teemed with wildlife.

Geographical and Physical Features

The district lies at the edge of the Malwa Plateau, an area of low hills and shallow plains. However, in places sharp geophysical disturbances in ages long past have thrown up hills which are in reality an extension of Vindhyachal range. As a result, the district falls in the following physical divisions:

The Mukandara range which enters the district from the south-east, two ridges passing close to Jhalrapatan and continuing north-west towards former the boundary of Khanpur with Chhipabarod tehsil of Baran district.

The hills of Dag, extendingup to Pirawa. The plateau region with low rounded hills covering most of the southern half of the district. The central plain of Pachpahar and Jhalrapatan, extending upto the village of Aklera and Manoharthana across the ridges. The plain of Khanpur is between two arms of the Mukandara. The Mukandara hills which take their name from famous pass in Kota district and was the scene of Col.

Monson's defeat by Holkar in 1804, enter the district at the border of tehsil Aklera and former Bakani tehsil and proceeding northwards, bifurcate at the northern boundary of Aklera, the main range going north west-wars pass Jhalrapatan branch north-wards into Chippabarod of Baran district. Another smaller bunch runs parallel to the main range and south of it, forming the boundary between Asnawar and Bakani. The hills of Dag reach their highest point near the village of Tankra in the extreme south of the tehsil.

The whole of south Jhalawar has the characteristics of the Malwa Plateau, an area of rounded bare hills interspersed by plains. The Jhalawar plain stretches in a wide belt from Bhawani Mandi in the west almost up to Asnawar in the east and is bounded on the northern, eastern and southern sides by the Mukandara hills. This is fertile, well-watered region crossed by the Ahu and Kalisindh rivers and a number of lesser streams. The rivers and streams of the district belong to the Chambal river system. Except in Gangdhar tehsil, the general flow is

from south to north. For the sake of convenience, the rivers of Jhalawar may be divided into two groups -- the western group and the eastern group.

The western rivers are Ahu Piplaj, Kyasri, Kantali, Rawa, Kalisindh and Chandrabhaga. The eastern rivers are Parwan, Andheri, Newaj, Ghar and Ujar. There are artificial lakes Kadila and Mansarovar. Generally speaking, the Jhalawar rivers have deep beds with the result that water level is below that of the surrounding countryside and hence canals cannot be dug for irrigation.

Climate

In an average the climate is fairly dry and healthy. The year may be divided into four seasons -- the hot season from March to middle of the June, the monsoon season from mid-June to September, post monsoon season from October to November and the cold season from December to February. The western portion of the district gets fewer rains than the eastern portion. The south-west monsoon advances into the area in the latter half of the June and as much as 93 percent of the annual rainfall is recorded during the season.

Geology and Minerals

Jhalrapatan stands on Vindhyan strats at the northern edge of the great spread of basaltic rocks known as Deccan trap formation, the northern area of which is also called the Malwa trap. These Vindhyan starts below to the upper division in the geological survey classification of the Indian rock system. The beds around Jhalrapatan are considered as belonging to the Rewa or middle group of them, and consist of sand-stones and shells with a band of lime stone. Over the greater part of the Vindhyan area, the strata are quite undisturbed and their habit is to weather into scarped plateaus or ridges, having one face steep and the other sloping. These are capped by sandstone, the low ground being eroded out of the shells. There are many varieties of the basaltic rocks hard, amorphous and soft.

There are vast deposits of sandstone lying in an area of eight square miles in horizontal strata near about Jhalrapatan and Jhalawar, in the tehsil of Gangdhar, Dag, Pachpahar and Pirawa, there are no quarries as are found in the north of the district. Instead of sandstone, black rocks of volcanic origin called Kala Tal are used as building material. Superimposed on the black rock in many places are layers of soft stones are also used for building purposes. Apart from sand stones near Jhalawar the main deposits are laterite, copper, calcite, cheledoney of agate and kankar. The laterite is found at Sarod in tehsil Pachpahar, limestone for building purposes

at Mangrol in Jhalrapatan tehsil, and limestone at Jhakadiya and Chhatrapura in Pirawa and Pachpahar tehsils. Sandstone is found in the whole of the district.

Economy

Rajasthan's economy is primarily agricultural and pastoral. Wheat and barley are cultivated over large areas, as are pulses, sugarcane, and oilseeds. Cotton and tobacco are the state's cash crops. Rajasthan is among the largest producers of edible oils in India and the second largest producer of oilseeds. Rajasthan is also the biggest wool-producing state in India and the main opium producer and consumer. There are mainly two crop seasons. The water for irrigation comes from wells and tanks. The Indira Gandhi Canal irrigates northwestern Rajasthan.

The main industries are mineral based, agriculture based, and textiles. Rajasthan is the second largest producer of polyester fibre in India. The Pali and Bhilwara District produces more cloth than Bhiwandi, Maharashtra and the bhilwara is the largest city in suitings production and export and Pali is largest city in cotton and polyster in blouse pes and rubia production and export. Several prominent chemical and engineering companies are located in the city of Kota, in southern Rajasthan. Rajasthan is pre-eminent in quarrying and mining in India. The TajMahal was built from the white marble which was mined from a town called Makrana. The state is the second largest source of cement in India. It has rich salt deposits at Sambhar, copper mines at Khetri, Jhunjhunu and zinc mines at Dariba, Zawar mines at Zawarmala for zinc, Rampura Aghucha (opencast) near Bhilwara.

Jhalawar - An economic perspective

Jhalawar is also known for the Production of Citrus (Oranges). The area around Bhawani Mandi and surrounding rural belt have got huge orchards and fields of oranges that's why it's called as "The Orange City". The speciality about orange trees is that each tree gets two crops in one year i.e. summer & winter crop on same tree in different season. The Bhawanimandi& surrounding rural belt got proud of achieving second rank in orange production in India after Nagpur.

Availability of Minerals

Jhalawar belt has many mining sites from which kota stone is mined and this stone is then crushed and polished in many industries present in Jhalawar region. The biriyakhedi and pipliya regions in Jhalawar are some of the major mining sites in Jhalawar.

Minerals	**Leases**	**Area (in Hectare)**	**Production (Tons)**
Sandstone	40	78.08	11104.16
Masonary Stone	30	31.82	165928.41
Bantonite	7	7	10671.82
Limestone (Dimnl.)	54	223	314740
Limestone (Burning)	1	1	0
Kankar-Bajri	0	0	0
Murram	0	0	20684

INDUSTRIAL SCENERIO OF JHALAWAR

Major industries are of Stone cutting, Stone Polishing, Vegetable Oil, Henna Powder, Readymade Garments, Wood Furniture, Cement-made tanks, PVC pipes, Shoes, Washing Powders , TyreRetrading, Spices etc. . Major Handicraft units are of Utensils, Stone-pillars, Leather shoes, Clothes, Pickles, Sculptures, Wood-work, Iron-work, Ropes, Brooms, Chatai, etc.

Growth Center, Jhalara Patan DIC established an industrial growth center near Jhalara Patan, which has total 450 plots for industries. Out of these, 316 plots are allotted to various industries. 110 of the industries are running their operations and remaining are in the process of construction. Major industries in this growth center are of Stone cutting and polishing, Steel Furniture and Almirah, PVC shoes, Agricultural accessories, tractor trolleys, electric transformers, etc. Major Exportable Items are Cotton and Synthetic Yarns, and Limestone.

Main Industrial areas

- Industrial Area, Jhalawar
- Mama Bhanja, Phase I, II & III.
- Industrial Area, Patan Road, Jhalawar
- Industrial Area, Jhalarapatan
- Gindore
- Bhawani Mandi Road, J.Patan
- Industrial Area, Bhawani Mandi
- Industrial Area, Aklera
- Industrial Area, Devrighata
- Industrial Area, Manohar Thana

Growth Trend

The Main Industries in the District is stone cutting and polishing .There is lot of scope of this sector in export field as this stone are being used for pavement and flooring .

Medium Scale Enterprises

(1) Rajasthan Textile Mills, Bhawani Mandi, Jhalawar

Existing Clusters of Micro & Small Enterprise

DETAIL OF MAJOR CLUSTERS

(A) Manufacturing Sector

(1) Stone cutting and polishing

(2) Handloom Asnawar Jhalawar

(3) Patthar ki Murti Jhalrapatan

(4) Bans ki tokri Jhalawar

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 too 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.


Reduce
Refuse
Reuse
7 R's
Refill
Refurbished
Recover
Recycle

2.0OBJECTIVES:-

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

1) To ensure conservation of environment and natural resources at district level.
2) Restore ecological balance.
3) To harness active participation of all stakeholders in planned environment conservation actions.
4) Assess, Mitigate and monitor adverse impacts of various pollution sources at district level.
5) Capacity building of stakeholder, department, agencies, organizations and individuals at district level to understand and implement micro level environmental conservation actions.
6) To harness inter-departmental coordination for implementation of action plans.
7) To develop local knowledge centers and expertise for developing environmental conservation strategies at district level.
8) To develop and implement micro monitoring system at district level.

3.0 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.

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

c. 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) WASTEMANAGEMENT

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.

e) 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 to ensure ground water quality testing particularly shallow hand pumps, and deep borewells 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	Please enter Measurable Outcome for District	ULB1	ULB2	ULB3	ULB4	ULB5	Action to be taken by
	Name of Urban Local Body (ULB)		[name of ULB]	Jhalawar	Aklera	Bhawani mandi	Jhalrapatan	Jhalawar	Pirawa	ALL ULB (Nagar Parishad/ Nagar Palika)
	No of ULBs in the District		[Nos]	5	1	1	1	1	1	ALL ULB (Nagar Parishad/ Nagar Palika)
	Population		[Nos as per 2011 census]	188780	26269	42279	37506	69919	12807	ALL ULB (Nagar Parishad/ Nagar Palika)
SW1	Report on inventory of total solid waste Generation									ALL ULB (Nagar Parishad/ Nagar Palika)

No.	Action Areas	Details of Data Requirement	Units of Measurable Outcome	Please enter Measurable Outcome for District	ULB1	ULB2	ULB3	ULB4	ULB5	Action to be taken by
SW1a		Total solid waste Generation	[in MT/Day] or [Not estimated]	64.9	4.9	11	15	30.00	4	ALL ULB (Nagar Parishad/ Nagar Palika)
SW1b		Qty. of Dry Waste segregated	[in MT/Day] or [Collection Not initiated]	35.4	3	6	6	18.00	2.4	ALL ULB (Nagar Parishad/ Nagar Palika)
SW1c		Qty. of Wet Waste segregated	[in MT/Day] or [Collection Not initiated]	24.8	1.9	3	6.5	12.00	1.4	ALL ULB (Nagar Parishad/ Nagar Palika)
SW1d		Qty. of C&D Waste segregated	[in MT/Day] or [Collection Not initiated]	0.25	0	0.05	0	NIL	0.2	ALL ULB (Nagar Parishad/ Nagar Palika)
SW1e		Qty. of Street Sweeping	[in MT/Day] or [Not estimated]	Not estimated	Not estimated	Not estimated	1	3.10	Not estimated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW1f		Qty. of Drain Silt	[in MT/Day] or [Not estimated]	8	Not estimated	Not estimated	1.5	6.50	Not estimated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW1g		Qty. of Domestic Hazardous Waste(DHW) collected	[in MT/Day] or [No Facility]	0	0	Not estimated	0	0.00	Not estimated	ALL ULB (Nagar Parishad/ Nagar Palika)

No.	Action Areas	Details of Data Requirement	Units of Measurable Outcome	Please enter Measurable Outcome for District	ULB1	ULB2	ULB3	ULB4	ULB5	Action to be taken by
SW1h		Qty. of Other Waste (Horticulture, sanitary waste, etc.)	[in MT/Day] or [Qty not estimated]	Qty not estimated	Qty not estimated	Qty not estimated	0	1.25	Qty not estimated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW1i		No of Old dump sites	[Nos] or [None]	5	1	1	1	1.00	1	ALL ULB (Nagar Parishad/ Nagar Palika)
SW1j		Qty stored in dumpsites	[MT] or [Not estimated]	602.45	45	54.45	28	450.00	25	ALL ULB (Nagar Parishad/ Nagar Palika)
SW1k		No of Sanitary landfills	[Nos] or [None]	2	1	None	0	1.00	None	ALL ULB (Nagar Parishad/ Nagar Palika)
SW1l		No of wards	[nos]	155	35	30	35	35.00	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]	Inventory not done	Inventory not done	Inventory not done	Inventory not done	Inventory not done	Inventory not done	ALL ULB (Nagar Parishad/ Nagar Palika)
SW2b		No of on-site facilities for Wet Waste	[numbers] or [No data]	2	0	0	1	1.00	No data	ALL ULB (Nagar Parishad/ Nagar Palika)
SW3	Compliance in segregated									ALL ULB (Nagar

No.	Action Areas	Details of Data Requirement	Units of Measurable Outcome	Please enter Measurable Outcome for District	ULB1	ULB2	ULB3	ULB4	ULB5	Action to be taken by
	waste Collection SW Collection									Parishad/ Nagar Palika)
SW3a		Total generation	[Automatic] from SW1a	64.9	4.9	11	15	30.00	4	ALL ULB (Nagar Parishad/ Nagar Palika)
SW3b		Wet Waste	[in MT/Day] or [Collection Not initiated]	30.8	1.9	3	6.5	18.00	1.4	ALL ULB (Nagar Parishad/ Nagar Palika)
SW3c		Dry Waste	[in MT/Day] or [Collection Not initiated]	29.4	3	6	6	12.00	2.4	ALL ULB (Nagar Parishad/ Nagar Palika)
SW3d		C&D Waste	[in MT/Day] or [Collection Not initiated]	5	0.09	0.05	0	NIL	0.2	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%	100.00	100%	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4b		Mechanical Road Sweeping	[100%] / [partial%] / [not initiated]	not initiated	not initiated	not initiated	not initiated	not initiated	not initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4c		Manual Sweeping	[100%] / [partial%]	100	100	100	100%	100.00	100%	ALL ULB (Nagar Parishad/ Nagar Palika)

No.	Action Areas	Details of Data Requirement	Units of Measurable Outcome	Please enter Measurable Outcome for District	ULB1	ULB2	ULB3	ULB4	ULB5	Action to be taken by
SW4d		Segregated Waste Transport	[100%] / [partial %] / [not initiated]	96	100	100	100%	100.00	10%	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4e		Digesters (Bio-methanation)	[% of WW] / [not initiated]	not initiated	not initiated	not initiated	not initiated	Not initiated	not initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4f		Composting operation	[% of WW] / [not initiated]	5	not initiated	not initiated	50%	60.00	not initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4g		MRF Operation	[MRF used] / [not installed]	Work in Progress	MRF Used	Complet ed	MRF used	80.00	MRF used	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4h		Use of Sanitary Landfill	[% of SW collected] / [no SLF]	10	0	No SLF	0	70.00	No SLF	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4i		Reclamation of old dumpsites	[initiated] / [not initiated]	Partly Initiated	Initiated	Nil	Initiated	Initiated	not initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4j		Linkage with Waste to Energy Boilers / Cement Plants	[initiated] / [not initiated]	Partly Initiated	not initiated	Mangla m Cement Factory, Modak	Manglam Cement Factory, Modak	Manglam Cement Plant Morak	not initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4k		Linkage with Recyclers	[initiated] / [not initiated]	not initiated	not initiated	not initiated	Nil	Nil	not initiated	ALL ULB (Nagar Parishad/ Nagar Palika)

No.	Action Areas	Details of Data Requirement	Units of Measurable Outcome	Please enter Measurable Outcome for District	ULB1	ULB2	ULB3	ULB4	ULB5	Action to be taken by
SW4l		Authorization of waste pickers	[initiated] / [not initiated]	Partly Initiated	Initiated	not initiated	Initiated	Initiated	not 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]	Partly Initiated	Initiated	not initiated	Initiated	Initiated	not initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4o		Linkage with Producers / Brand Owners	[initiated] / [not initiated]	not initiated	NA	Nil	Nil	Not initiated	not initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4p		Authorization of Waste Pickers		19	5	0	14		0	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4q		Issuance of ID Cards	[initiated] / [not initiated]	Mostly done	not initiated	All Staff	Initiated	Initiated	No	ALL ULB (Nagar Parishad/ Nagar Palika)
SW5	Adequacy of Infrastructure									ALL ULB (Nagar Parishad/ Nagar Palika)
SW5a		Waste Collection Trolleys	[Nos. Required] / [Nos. Available]	28/8	7	10/4	9/1	1/3	1	ALL ULB (Nagar Parishad/ Nagar Palika)
SW5b		Mini Collection	[Nos. Required] / [Nos. Available]	20/20	2	10/2	7/4	0/14	1	ALL ULB (Nagar Parishad/ Nagar Palika)

No.	Action Areas	Details of Data Requirement	Units of Measurable Outcome	Please enter Measurable Outcome for District	ULB1	ULB2	ULB3	ULB4	ULB5	Action to be taken by
		Trucks								
SW5c		Segregated Transport	[yes] / [no] / [% area covered]	100	100	100	100	100	1	ALL ULB (Nagar Parishad/ Nagar Palika)
SW5d		Bulk Waste Trucks	[Nos. Required] / [Nos. Available]	0/2	0	Not Required	0/2	0.00	Not Required	ALL ULB (Nagar Parishad/ Nagar Palika)
SW5e		Waste Transfer points	[Nos. Required] / [Nos. Available] /[Not available]	Insufficient data	Not Required	Not Required	0/1	0.00	Not Required	ALL ULB (Nagar Parishad/ Nagar Palika)
SW5f		Bio-methanation units	[Nos. Required] / [Nos. Available]	Required but not available	NA	NA	No Available	NA	NA	ALL ULB (Nagar Parishad/ Nagar Palika)
SW5h		Composting units	[Nos. Required] / [Nos. Available]	Required 5 Units	1/0	2/0	1/1	1 Required	1/0	ALL ULB (Nagar Parishad/ Nagar Palika)
SW5i		Material Recovery Facilities	[used or installed] / [not available]	Work in Progress	Initiated	Completed	1/1	1.00	used or installed	ALL ULB (Nagar Parishad/ Nagar Palika)
SW5k		Waste to Energy (if applicable)	[Required] / [Nos. Available]	Required	NA	NA	0/1	Required	NA	ALL ULB (Nagar Parishad/ Nagar Palika)
SW5l		Waste to RDF	[Required] / [Nos. Available]	Required	NA	NA	Required	Required	NA	ALL ULB (Nagar Parishad/ Nagar Palika)

No.	Action Areas	Details of Data Requirement	Units of Measurable Outcome	Please enter Measurable Outcome for District	ULB1	ULB2	ULB3	ULB4	ULB5	Action to be taken by
SW5m		Sanitary Land fills	[Nos] / [Nos. Available]	2	1 Available	Not Available		1 Available	NA	ALL ULB (Nagar Parishad/ Nagar Palika)
SW5n		Capacity of sanitary landfills	[MT] / / [Nos. Available]	Data insufficient	7261.9	Not Available	43021.74	47900.00	NA	ALL ULB (Nagar Parishad/ Nagar Palika)
SW5o		Waste Deposit Centers (DHW)	[Nos] / [Nos. Available]	Not Available	NA	Not Available		Na	NA	ALL ULB (Nagar Parishad/ Nagar Palika)
SW5p		Other facilities	[give or select from list]	NA	NA	NA		Nil	NA	ALL ULB (Nagar Parishad/ Nagar Palika)
SW6	Notification and Implementation of By-Laws									ALL ULB (Nagar Parishad/ Nagar Palika)
SW6a		Notification of By-laws	[done] / [in progress] / [not initiated]	In Progress	Done	Yes	In Progress	In Progress	Done	ALL ULB (Nagar Parishad/ Nagar Palika)
SW6b		Implementation of by-laws	[done] / [in progress] / [not initiated]	In Progress	In progress	In progress	In Progress	In Progress	In progress	ALL ULB (Nagar Parishad/ Nagar Palika)
SW7	Adequacy of Financial Status of ULB									ALL ULB (Nagar Parishad/ Nagar Palika)

No.	Action Areas	Details of Data Requirement	Units of Measurable Outcome	Please enter Measurable Outcome for District	ULB1	ULB2	ULB3	ULB4	ULB5	Action to be taken by
SW7a		CAPEX Required	[INR] / [Not required]	Not Required	Not Required	Not Required	Not required	Not Required	Not Required	ALL ULB (Nagar Parishad/ Nagar Palika)
SW7b		OPEX	[INR per Year] / [% of requirement]	Nil	no	No	required	Required	No	ALL ULB (Nagar Parishad/ Nagar Palika)
SW7c		Adequacy of OPEX	[Yes] / [No]	No	No	No	No	No	No	ALL ULB (Nagar Parishad/ Nagar Palika)

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 Communicat6ion (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	ULB1	ULB2	ULB3	ULB4	ULB5	Action to be taken by
	Name of ULB		[name of ULB]	Jhalawar	Aklera	Bhawani Mandi	Jhalrapatan	Jhalawar	Pirawa	ALL ULB (Nagar Parishad/ Nagar Palika)
	Population		[Nos as per 2011 census]	188780	26269	42279	37506	69919	12807	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	Not Estimated	0.02	Not Estimated	Not Estimated	0.05	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)

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Please enter Measurable Outcome for District	ULB1	ULB2	ULB3	ULB4	ULB5	Action to be taken by
PW2b		Segregated Waste collection	[100%] / [partial %]	50	90%	0	100%	100%	10%	ALL ULB (Nagar Parishad/ Nagar Palika)
PW2c		Plastic waste collection at Material Recovery Facility	[MRF used] / [not installed]	Work in progress	MRF USED	Work in progress	MRF USED	MRF USED	MRF USED	ALL ULB (Nagar Parishad/ Nagar Palika)
PW2d		Authorization of PW pickers	[Nos] / [not initiated]	Partly initiated	5	Not initated	14	4	0	ALL ULB (Nagar Parishad/ Nagar Palika)
PW2e		PW collection Centers	[Nos] / [not established]	Partly established	Not established	Not established	0	1	0	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]	1	0	0	1	0	0	ALL ULB (Nagar Parishad/ Nagar Palika)

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Please enter Measurable Outcome for District	ULB1	ULB2	ULB3	ULB4	ULB5	Action to be taken by
PW4b		No Manufacturers	[Nos]	0	0	0	0	0	0	ALL ULB (Nagar Parishad/ Nagar Palika)
PW4c		No of pyrolysis oil plants	[Nos]	0	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]	3.85	0	0	0	3.85	0	ALL ULB (Nagar Parishad/ Nagar Palika)
W5	Implementation of PW Management Rules, 2016									ALL ULB (Nagar Parishad/ Nagar Palika)
W5a		Sealing of units producing < 50-micron plastic	[All sealed] / [Partial] / [no action]	Plastic Banned	Plastic Banned In ULB	Plastic Banned In ULB	Partial	Partial	Plastic Banned In ULB	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)

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Please enter Measurable Outcome for District	ULB1	ULB2	ULB3	ULB4	ULB5	Action to be taken by
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	None	None	None	None	None	ALL ULB (Nagar Parishad/ Nagar Palika)
PW6c		Amount of PRO Support	[Rs…]	None	None	None	None	None	None	ALL ULB (Nagar Parishad/ Nagar Palika)
PW6d		Infrastructure support by Producers / Brand owners to ULBs	[Nos of Producers] / [None]	None	None	None	None	None	None	ALL ULB (Nagar Parishad/ Nagar Palika)
PW6e		No of collection centers established by Producers / Brand owners to ULBs	[Nos] / [None]	1	None	None	None	1	None	ALL ULB (Nagar Parishad/ Nagar Palika)

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

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	ULB1	ULB2	ULB3	ULB4	ULB5	Action to be taken by
	Name of ULB		[name of ULB]	Jhalawar	Aklera	Bhawani Mandi	Jhalrapatan	Jhalawar	Pirawa	ALL ULB (Nagar Parishad/ Nagar Palika)
	Population		[Nos as per 2011 census]	188780	26269	42279	37506	69919	12807	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]	15.6	5.1	10	Not estimated	Not estimated	0.5	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 ULBs	[Initiated] / [Not initiated]	Not initiated	Not initiated	Not initiated	Not initiated	initiated	Not initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
CD3	Establishment									ALL ULB

	of C&D Waste Deposition centers									(Nagar Parishad/ Nagar Palika)
CD3a		Establishment of Deposition Points	[Yes] / [No]	NO	No	No	No	No	Yes	ALL ULB (Nagar Parishad/ Nagar Palika)
CD3b		C&D Deposition point identified	[Yes] / [No]	Partly	yes	Yes	Yes	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	notified	Notified	Notified	Notified	Notified	ALL ULB (Nagar Parishad/ Nagar Palika)
CD4b		Collection of Deposition / disposal Charges	[Initiated] / [Not initiated]	Not initiated	Not initiated	Not initiated	Not initiated		Initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
CD5	Establishment of C&D Waste recycling plant or linkage with such facility									ALL ULB (Nagar Parishad/ Nagar Palika)
CD5a		Establishment CD Waste Recycling Plant	[Established] / [Sent to shared Facility] / [No facility exists]	No Facility Exists	No Facility Exists	No Facility Exists	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	ALL ULB (Nagar Parishad/ Nagar Palika)

As per data received from All Five ULB office

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	Please enter Measurable Outcome for District	Action to be taken by
	Name of ULB		[name of ULB]	Jhalawar	ALL ULB (Nagar Parishad/ Nagar Palika)
	Population		[Nos as per 2011 census]	185780	ALL ULB (Nagar Parishad/ Nagar Palika)
BMW1	Inventory of Biomedical Waste Generation				
BMW1a		Total no. of Bedded Hospitals	[Nos] / [No inventory]	74	CMHO
BMW1b		Total no. of non-bedded HCF	[Nos] / [No inventory]	3	CMHO
BMW1c		Total no. Clinics	[Nos] / [No inventory]	10	CMHO
BMW1d		No of Veterinary Hospitals	[Nos] / [No inventory]	2	CMHO
BMW1e		Pathlabs	[Nos] / [No inventory]	71	CMHO
BMW1f		Dental Clinics	[Nos] / [No inventory]	6	CMHO
BMW1g		Blood Banks	[Nos] / [No inventory]	2	CMHO
BMW1h		Animal Houses	[Nos] / [No inventory]	0	ALL ULB (Nagar Parishad/ Nagar Palika)
BMW1i		Bio-research Labs	[Nos] / [No inventory]	0	CMHO
BMW1j		Others	[Nos] / [No inventory]	0	ALL ULB (Nagar Parishad/ Nagar Palika)/CMHO
BMW2	Authorization of HCFs by SPCBs / PCCs				RPCB

BMW2a		Bedded HCFs	[Nos Authorized]	67	RPCB
BMW2b		Non-bedded HCFs	[Nos Authorized]	2	RPCB
BMW3a	Biomedical Waste Treatment and Disposal Facilities (CBMWTFs)				
BMW3a		No of CBMWTFs	[Nos] / None	1	RPCB
BMW3b		Linkage with CBMWTFs	[Yes] / [no linkage]	Yes	RPCB
BMW3c		Capacity of CBMWTFs	[Adequate] / [Not adequate]	Not adequate	RPCB
BMW3d		Requirements of CBMWTFs	[Require] / [not required]	Require	RPCB
BMW3e		Captive Disposal Facilities of HCFs	[Nos] / [None]	0	RPCB
BMW4	Compliance by CBMWTFs				RPCB
BMW4a		Compliance to standards	[Meeting] / [Not meeting] / [NA]	Not meeting	RPCB
BMW4b		Barcode tracking by HCFs / CBMWTFs	[100%] / [Partly %] / [None]	None	RPCB
BMW4c		Daily BMW lifting by CBMWTFs	[Kg / day]	-	RPCB
BMW5	Status of Compliance by Healthcare Facilities				RPCB
BMW5a		Pre-segregation	[100%] / [partly %] / [None]	100	RPCB
BMW5b		Linkage with CBMWTFs	[100%] / [partly %] / [None]	Partly(32.11)	RPCB

As per data received from Regional office RSPCB, Kota & CMHO Office

ACTION PLAN FOR BIO-MEDICALWASTE

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.	• Authorization to HCFs and Occupiers • Submission of Annual report to CPCB.	Immediate	RPCB
6.	Mass awareness campaigns and extensive training programs.	Regular Activity	Health Department
7.	• BMW from HCFs Transported, Treated & disposed of in accordance with Rules. • Establish Bar coding & Global Positioning system for handling of BMW. • Training to all workers. Assist Occupier in Training. • Supply Non Chlorinated colored Plastic Bags to Occupiers.	Immediate	CBWTFs
8.	• Ensure BMW handling as per Rule. • Safe, Ventilated & Secured In house Storage of BMW. • No mixing of BMW with MSW. • Bar code system for Bio-medical waste collection Bags.	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's 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	Please enter Measurable Outcome for District	Action to be taken by
HW1	Inventory of Hazardous Waste				RPCB
HW1a		No of HW Generating Industry	[Nos.]	2	RPCB
HW1b		Quantity of HW	[MT/Annum]	1067.955	RPCB
HW1c		Quantity of Incinierable HW	[MT/Annum]	0	RPCB
HW1d		Quantity of land-fillable HW	[MT/Annum]	1044.97	RPCB
HW1e		Quantity of Recyclable / utilizable HW	[MT/Annum]	22.985	RPCB
HW2	Contaminated Sites and illegal industrial hazardous waste				RPCB

	dumpsites				
HW2a		No of HW dumpsites	[Nos] / [None]	0	RPCB
HW2c		Probable Contaminated Sites	[Nos] (provide list)	0	RPCB
HW3	Authorization by SPCBs/PCCs				RPCB
HW3a		No of industries authorized	[Nos]	2	RPCB
HW3b		Display Board of HW Generation in front of Gate	[Nos]	2	RPCB
HW3	Availability of Common Hazardous Waste TSDF				RPCB
HW3a		Common TSDF	[Exists] / [No] / [Sent to Other District within State]	Sent to Other District within State	RPCB
HW3b		Industries linkage with TSDF	[Nos.]	2	RPCB
HW4	Linkage of ULBs in District with Common TSDF				ALL ULB (Nagar Parishad/ Nagar Palika)
HW4a		ULBs linked to Common TSDFs for Domestic Hazardous Waste	[Yes] / [No]	No	ALL ULB (Nagar Parishad/ Nagar Palika)

As per data received from Regional office RSPCB, Kota

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	Please enter 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] / [Nos]	No	RPCB

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Please enter Measurable Outcome for District	Action to be taken by
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)

As per data received from Regional office RSPCB, Kota

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.	• Ensure no illegal e-waste processing • No dumping of e-waste, HW & other wastes on banks of river • No illegal transportation of e-waste.	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 MANAGEMEN

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Please enter Measurable Outcome for District	Action to be taken by
WQ1	Inventory of water resources in District				
WQ1a		Rivers	[Nos] and [Length in Km]	14 & 786 KM.	Water Resources Department
WQ1b		Length of Coastline	[in Km]	NA	Water Resources Department
WQ1c		Nalas/Drains meeting Rivers	[Nos]	228	Water Resources Department
WQ1d		Lakes / Ponds	[Nos] and [Area in Hectares]	66 & Area 10000 Hectare Approx.	Water Resources Department
WQ1e		Total Quantity of sewage and industrial discharge in District	[Automatic] (SW1a+IW1b)		Water Resources Department
	Control of Groundwater Water Quality				
WQ2a		Estimated number of bore-wells	(Monitoring Networks)	270	Ground water department

WQ2b		No of permissions given for extraction of groundwater	320 (01.04.2019 to 31.03.2020) 160 (01.04.2020 to 31.10.2020)	160	Ground water department
WQ2c		Number of groundwater polluted areas	Not Reported in Samples Collected By GWD	0	Ground water department
WQ2d		Groundwater Availability	As per Assessment as on 31.03.2017 Block wise Position is as under 1. Block-Aklera - Semi-critical 2. Block - Bakani - Over-Exploited 3. Block-Bhawanimandi - Semi-critical 4. Block -Dag - Semi-critical 5. Block Jhalrapatan - Critical 6. Block-Khanpur -Over-Exploited 7. Block-Manoharthana - Critical 8. Block-Pirawa - Critical	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]	Yes	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]	Not Related	ALL ULB (Nagar Parishad/ Nagar Palika)
WQ4b		Dumping of SW on river banks	[Fully Controlled] / [Partly controlled] /[no Measures taken]	Not Related	ALL ULB (Nagar Parishad/ Nagar Palika)
WQ4c		Control measures for idol immersion	[Measures taken] / [Measures taken post immersion] / [No Measures taken]	Not Related	ALL ULB (Nagar Parishad/ Nagar Palika)
WQ5	Control of Water Pollution in Rivers				
WQ5a		Percentage of untreated sewage	[%] (automatic SM1g/SM1a)	Not Related	ALL ULB (Nagar Parishad/ Nagar Palika)
WQ5b		Monitoring of Action Plans for Rejuvenation of Rivers	[Monitored] / [Not monitored] [not applicable]	Not Related	ALL ULB (Nagar Parishad/ Nagar Palika)
WQ5c		No of directions given to industries for Discharge of Untreated industrial wastewater in last 12 months	[Nos]	Not Related	RPCB
WQ6	Awareness Activities				
WQ6a		District level campaigns on protection of water quality	[Nos in previous year]	Not Related	ALL ULB (Nagar Parishad/ Nagar Palika)
WQ6b	Oil Spill Disaster Contingency Plan			Not Related	ALL ULB (Nagar Parishad/ Nagar Palika)
WQ6a		Creation of District Oil Spill Crisis Management Group	[Created] / [Not Created]	Not Related	ALL ULB (Nagar Parishad/ Nagar Palika)

WQ6b		Preparation District Oil Spill Disaster Contingency Plan	[Prepared] / [Not Prepared]	Not Related	ALL ULB (Nagar Parishad/ Nagar Palika)
WQ7	Protection of Flood plains				
WQ7a		Encroachment of flood plains is regulated.	[Yes] / [No]	Not Related	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)

As per data received from Ground water Department & Water Resource office

4.1.3 DOMESTIC SEWAGE MANAGEMENTPLAN

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	ULB1-Aklera	ULB2-Bhawani mandi	ULB3-Jhalrapatan	ULB4-Jhalawar	ULB5- Pirawa	Action to be taken by
SM1	Inventory of Sewage Management				No Sewage Management Plan	No Sewage Management Plan			No Sewage Management Plan	ALL ULB (Nagar Parishad/ Nagar Palika)
SM1a		Total Quantity of Sewage generated in	[MLD]	7.57			4.32	3.25		ALL ULB (Nagar Parishad/ Nagar Palika)

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Please enter Measurable Outcome for District	ULB1- Aklera	ULB2- Bhawani mandi	ULB3- Jhalrapatan	ULB4- Jhalawar	ULB5- Pirawa	Action to be taken by
		District from Class II cities and above								
SM1b		No of Class-II towns and above	[Nos]	2			1	1		ALL ULB (Nagar Parishad/ Nagar Palika)
SM1c		No of Class-I towns and above	[Nos]	0			Nil	0		ALL ULB (Nagar Parishad/ Nagar Palika)
SM1d		No of Towns needing STPs	[Nos]	0			Nil	0		ALL ULB (Nagar Parishad/ Nagar Palika)
SM1e		No of Towns STPs installed	[Nos]	2			1	1		ALL ULB (Nagar Parishad/ Nagar Palika)
SM1f		Quantity of treated sewage flowing into Rivers (directly or indirectly)	[MLD]	3.1			Nil	3.1		ALL ULB (Nagar Parishad/ Nagar Palika)
SM1g		Quantity of untreated or partially treated sewage (directly or indirectly)	[Automatic]	0			Nil	0		ALL ULB (Nagar Parishad/ Nagar Palika)
SM1h		Quantity of sewage flowing into lakes	[MLD]	0			Nil	0		ALL ULB (Nagar Parishad/ Nagar Palika)
SM1i		No of industrial townships	[Nos]	2			1	1		RPCB
SW2	Adequacy of Available Infrastructure for Sewage									

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Please enter Measurable Outcome for District	ULB1- Aklera	ULB2- Bhawani mandi	ULB3- Jhalrapatan	ULB4- Jhalawar	ULB5- Pirawa	Action to be taken by
	Treatment									
SM2a		% sewage treated in STPs	[Automatic]	40.25%			39.35	90%		ALL ULB (Nagar Parishad/ Nagar Palika)
SM2b		Total available Treatment Capacity	[MLD]	7.7			1.7	6		ALL ULB (Nagar Parishad/ Nagar Palika)
SM2c		Additional treatment capacity required	[MLD]	0			Nil	0		ALL ULB (Nagar Parishad/ Nagar Palika)
SM3	Adequacy of Sewerage Network									
SM3a		No of ULBs having partial underground sewerage network	[Nos]	2			1	1		ALL ULB (Nagar Parishad/ Nagar Palika)
SM3b		No of towns not having sewerage network	[Nos]	0			Nil	0		ALL ULB (Nagar Parishad/ Nagar Palika)
SM3c		% population covered under sewerage network	[Automatic]	75			35	40		ALL ULB (Nagar Parishad/ Nagar Palika)

As per data received from All Five ULB office

ACTION POINT FOR SEWAGE MANAGEMENT

Short Term Action Point

S.No.	Action Point	Timeline	Implementing Department/ Agency
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

Long Term Action Point

S.No.	Action Point	Timeline	Implementing Department/Agency
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

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Please enter Measurable Outcome for District	Action to be taken by
IWW1	Inventory of industrial wastewater Generation in District				RPCB
IWW1a		No of Industries discharging wastewater	[Nos]	7	RPCB
IWW1b		Total Quantity of industrial wastewater generated	[MLD]	8.079	RPCB
IWW1c		Quantity of treated IWW discharged into Nalas / Rivers	[MLD]	0	RPCB
IWW1d		Quantity of un-treated or partially treated IWW discharged into lakes	[MLD]	0	RPCB
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	Large(Thermal power Station, Textile)	RPCB
IWW1f		Common Effluent Treatment Facilities	[Nos] / [No CETPs]	[No CETPs]	RPCB

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Please enter Measurable Outcome for District	Action to be taken by
IWW2	Status of compliance by Industries in treating wastewater				RPCB
IWW2a		No of Industries meeting Standards	[Nos]	7	RPCB
IWW2b		No of Industries not meeting discharge Standards	[Automatic]	0	RPCB
IWW2c		No of complaints received or number of recurring complaints against industrial pollution in last 3 months	[Nos]	0	RPCB
AWW4	Status of Action taken for not meeting discharge standards				RPCB
IWW4a		No industries closed for exceeding standards in last 3 months	[Nos]	0	RPCB
IWW4b		No of industries where Environmental Compensation was imposed By SPCBs	[Nos]	0	RPCB

As per data received from Regional office RSPCB, Kota

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

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Please enter Measurable Outcome for District	Action to be taken by
AQ1	Availability of Air Quality Monitoring Network in District				RPCB
AQ1a		Manual Air Quality monitoring stations of SPCBs /CPCB	[Nos] / [None]	None	RPCB
AQ1b		Automatic monitoring stations Operated by SPCBs / CPCB	[Nos] / [None]	None	RPCB
AQ2	Inventory of Air Pollution Sources				RPCB
AQ2a		Identification of prominent air polluting sources	[Large Industry] / [Small Industry] / [Unpaved Roads] / [Burning of Waste Stubble] / [Brick Kiln] / [Industrial Estate] / [Others] (Multiple selection)	arge(termal power station textile)/Small scale(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
AQ3	Availability of Air Quality Monitoring Data at DMs Office				RPCB
AQ3a		Access to air quality data from SPCBs & CPCB through Dashboard	[Available] / [Not yet Available]	NA	ULB
AQ4	Control of Industrial Air Pollution				RPCB
AQ4a		No of Industries meeting Standards	[Nos]	33	RPCB
AQ4b		No of Industries not meeting discharge Standards	[Nos]	0	RPCB
AQ5	Control of Non-industrial Air Pollution sources			from ULB	RPCB
AQ5a		Control open burning of Stubble – during winter	[Nos of fire incidents]		RPCB
AQ5b		Control Open burning of Waste – Nos of actions Taken	[Nos]		RPCB
AQ5c		Control of forest fires	[SOP available] / [No SoP]		RPCB
AQ5d		Vehicle pollution check centers	[% ULBs covered]		RPCB
AQ5e		Dust Suppression Vehicles	[% ULBs covered]		RPCB
AQ6	Development of Air Pollution complaint redressal system				
AQ6a		Mobile App / Online based air pollution complaint redressing system of SPCBs.	[Available] / [Not available]	Available	ULB

As per data received from Regional office RSPCB, Kota

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

S. No	Action Points	Timeframe for implementation	Action Required to be Taken by Responsible Departments
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 bi-cycle to reach the destination.		ULBs/Development Authorities

(ii) OTHER STEPS TO CONTROL AIR POLLUTION

a. Short Term Action Plan

S. No.	Action Points	Time frame for implementation	Action Required to be Taken by Responsible Departments
1.	Engage with concerned authorities on continual basis for maximizing coverage of LPG/PNG for domestic and commercial cooking with target of 100% coverage *(Under Pradhan Mantri Ujjwala+ Yojana in urban areas)*		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

S. No.	Action Points	Timeframe for implementation	Action Required to be Taken by Responsible Departments
1.	Installation of CEMS by polluting units/institutions etc. under "Polluters Pay Principles".	Already installed by all 17 categories unit.	RPCB
2.	Tree Plantation for mitigation of air pollution based open location of pollution sources and Wind rose data		Forest department

b. LONG TERM ACTION PLAN

(iii) Control of Air Pollution From Constructions and Demolition Activities

S. No.	Action Points	Timeframe for implementation	Action Required to be Taken by Responsible Departments
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 suppressionunits;		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/Cropresidue/Garbage/Municipalsolidwasteburning/Forestfires

S. No.	Action Points	Timeframe for implementation	Action Required to be Taken by Responsible Departments
(i)	Launch extensive drive against open burning of bio-mass, crop residue, garbage, leaves, etc.		ULBs
(ii)	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
(iii)	Proper collection of horticulture waste (bio-mass) and its disposal following composting-cum-gardening approach as material for plantations.		ULBs
(iv)	Ensure ban on burning of agriculture waste and crop residues and its implementation.		Agriculture Department
(v)	Door to Door collection of segregated waste by agency and then its disposal directly in plant without dumping it on land.		ULBs
(vi)	Establishment of composting pits in Parks/ residential societies etc for management of biodegradable waste.		ULBs
(vii)	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
1.	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		
Sources **Active or Abandoned surface and underground mines, processing plants**	**Causes** • Particulate matter is released and cause air pollution • Physical disturbance to the landscape, decline of wildlife and plant species. • Largely affect the surface and ground water near the mining activity	**Efforts** • Closing illegal and unregulated mines • Form better legislation and regulation • Closing and reclaiming sites of shutdown mines • Investing in R&D of Green Mining Technology

BASELINE DATA FOR MINING ACTIVITYMANAGEMENT

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Please enter Measurable Outcome for District	Action to be taken by
MI1a	Inventory of Mining in District				
MI1a		Type of Mining Activity	[Sand Mining] / [Iron Ore] / [Bauxite] / [Coal] / Other [specify]	Limestone(Dimensional) (Minor)-61, Limestone(Burning)(Minor)-01, Sandstone-40, Masnarybstonr-25, Bentonite-7	Mining Department
			Multiple selection in order of magnitude of operations		Mining Department
MI1b		No of Mining licenses given in the District	[Nos]	134	Mining Department
MI1c		Area covered under mining	[Sq Km]	3.5446 Sq. KM	Mining Department
MI1d		Area of District	[Sq Km]	6928 Sq Km	Mining Department
MI1e		Sand Mining	[Yes] / [No]	NO	Mining Department

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Please enter Measurable Outcome for District	Action to be taken by
MI1f		Area of sand Mining	[River bed] / [Estuary] / [Non -river deposit]	River bad(In compliance of Hon'ble Supreme Court Order Mining operation is closed)	Mining Department
MI2	Compliance to Environmental Conditions				
MI2a		No of Mining areas meeting Environmental Clearance Conditions	[Nos]	126	Mining Department
MI2b		No of Mining areas meeting Consent Conditions of SPCBs / PCCs	[Nos]	126(No. Of lease holder,presafly constant to operate)	Mining Department
MI3a	Mining related environmental Complaints				
MI3b		No of pollution related complaints against Mining Operations in last 1 year	[Nos]	Nil	RPCB
MI4	Action against non-complying mining activity				
MI4a		No of Mining operations suspended for violations to environmental norms	[Nos]	Nil	Mining Department
MI4b		No od directions issued by SPCBs	[Nos]	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

Noise Pollution Management Plan		
Sources • **Industrialization** • **Poor Urban Planning** • **Transportation** • **Construction Activity Household Chores.**	**Causes** • Hearing Problems Health Issue Sleeping • Disorder Cardiovascular Issue • Effect on Wildlife & Environment	**Efforts** • Turn off appliances at home and office. • Go green by planning trees. • Use noise absorbent in noisy machineries Proper Lubrication and better maintenance. • Regular check noise level.

BASELINE DATA FOR NOISE POLLUTION MANAGEMENT

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Measurable Outcome for district	ULB1	ULB2	ULB3	ULB 4	Action to be taken by
NP1	Availability Monitoring equipment								
NP1a		No. of noise measuring devices with district administration	[Nos] / [None]	0	0	0	0	0	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								

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Measurable Outcome for district	ULB1	ULB2	ULB3	ULB 4	Action to be taken by
NP2a		capability to conduct noise level monitoring by State agency / District authorities	[Available] / [Not available]	0	0	0	0	0	Police
NP2	Management of Noise related complaints								
NP2a		No of complaints received on noise pollution in last 1 year	[Nos]	0	0	0	0	0	Police
NP2b		No of complaints redressed	[Nos]	0	0	0	0	0	Police
NP3	Compliance to ambient noise standards								
NP3a		Implementation of Ambient noise standards in residential and silent zones	[Nos]	0	0	0	0	0	Police
NP3b		Noise monitoring study in district	[carried out] / [not carried out]	carried out					RPCB
NP3c		Sign boards in towns and cities in silent zones	[Installed] / [Partial] / [Not Installed]						ALL ULB (Nagar Parishad/ Nagar Palika)

ACTION POINTS FOR NOISE POLLUTION

Sl. 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 (between10.00p.m.to6.00a.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

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