

District Environmental Plan Banswara



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ABOUT THE DISTRICT

Banswara District has an area of 5,037 km², which is 1.47% of Rajasthan state, India. The city of Banswara is the district headquarters. It is bounded on the north by Udaipur District, on the northeast by Pratapgarh District, on the east and southeast by Madhya Pradesh state, on the southwest by Gujarat state, and on the west by Dungarpur District.

The district is named after the former Princely State of Banswara. There are two traditions regarding the etymology of Banswara. According to one tradition, it is derived from the name of the Bhil chief Bansia who ruled over this area before being killed by Maharawal Jagmal Singh in 1529 CE. According to the other tradition, the name is derived from the *Bans Vara* (the country of bamboos) due to the abundance of bamboos in the dense forests of this region.



Banswara is part of the Vagad region of southern Rajasthan, which includes Banswara and Dungarpur districts. The region is mainly inhabited by tribals, predominantly Bhils. Banswara and Dungarpur are together called Vagar, and in both the places local language is Vagri.

The district lies in the Mahi River basin. The Mahi flows north through the district from its origin in the Vindhya Range of Madhya Pradesh, entering the district from the southeast and flowing north towards the northern end of the district, where it turns southwest to form the boundary between Banswara and Dungarpur districts before entering Gujarat and emptying into the Gulf of Cambay. Banswara District has rich flora and fauna. The forests include mainly teak. The wildlife includes a large variety of wild animals like leopard, chinkara, etc. Common birds in the region are fowl, partridge, black drongo, grey shrike, green bee-eater, bulbul, parrot etc.

Banswara district is divided into 3 sub-divisions, which are further divided into 11 tehsils and 8 development blocks. Banswara sub-division consists Banswara and Garhi tehsils, Ghatol sub-division consists Ghatol tehsil and Kushalgarh sub-division consists Kushalgarh and Bagidora tehsils. The 11 development blocks in the district are: Talwara, Garhi, Ghatol, Ganoda, Bagidora, Anandpuri, Chooti sarvan, Abapura, Gangadtalai Kushalgarh and Sajjangarh. The district consists of 5 Vidhan Sabha constituencies, Kushalgarh, Garhi, Ghatol, Banswara and Bagidora. All of them along with 3 other Vidhan Sabha constituencies from Dungarpur district are part of the one Lok Sabha constituency of the district, Banswara.

According to the 2011 census, Banswara district has a population of 1,797,485; the district has a population density of 399 inhabitants per square kilometer (1,030/sq m). Its population growth rate over the decade 2001-2011 was 26.58%. Banswara has a sex ratio of 979 females for every 1000 males, and a literacy rate of 57.2%.

1.0 INTRODUCTION

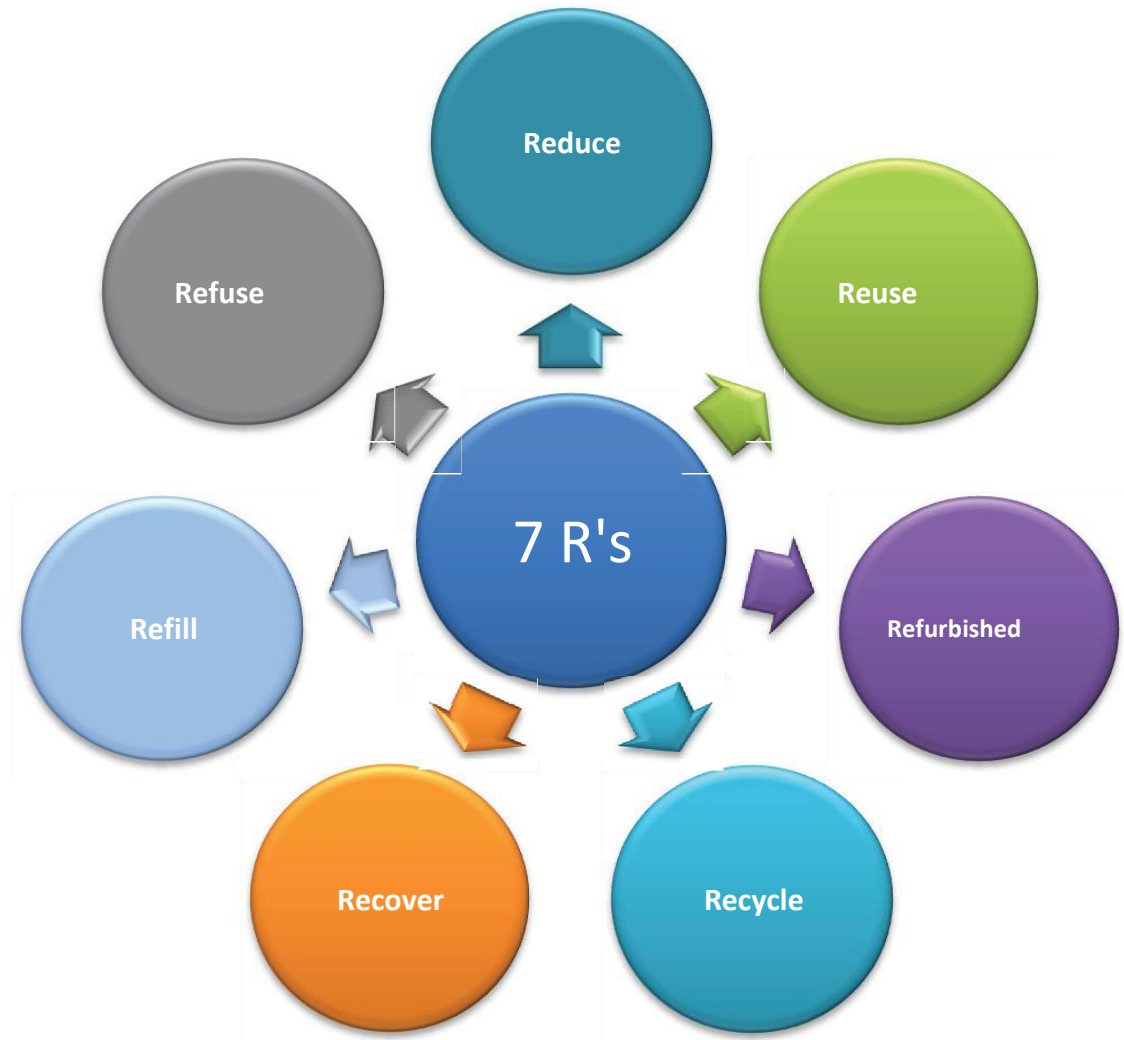
In the process of development, the issues confronting today are achieving desired development for economic or social reasons on one hand and safeguarding the environment and maintaining good quality of life on the other. The developmental activities being haphazard and un-controlled are leading to overuse, 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 interdependencies 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 greenhouse 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 7R 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:

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:

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
- 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 undertake 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 and Air Act 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 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 for e-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 impactful 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. 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	Action to be taken by
	Name of Urban Local Body (ULB)		Banswara	Banswara	Kushalgarh	Garhi Pratapur	ALL ULB (Nagar Parishad/ Nagar Palika)
	No of ULBs in the District		3	1	1	1	ALL ULB (Nagar Parishad/ Nagar Palika)
	Population		133608	101017	10666	21925	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	40.75 Mt/Day	31	4.27	5.48	ALL ULB (Nagar Parishad/ Nagar Palika)
SW1b		Qty. of Dry Waste segregated	21.0 Mt/Day	21	Collection Not Initiated	Collection Not Initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW1c		Qty. of Wet Waste segregated	10.0 Mt/Day	10	Collection Not Initiated	Collection Not Initiated	ALL ULB (Nagar Parishad/ Nagar Palika)

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SW1d		Qty. of C&D Waste segregated	Collection Not Initiated	Collection Not Initiated	Collection Not Initiated	Collection Not Initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW1e		Qty. of Street Sweeping	Not Estimated	Not Estimated	Not Estimated	Not Estimated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW1f		Qty. of Drain Silt	Not Estimated	Not Estimated	Not Estimated	Not Estimated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW1g		Qty. of Domestic Hazardous Waste(DHW) collected	No Facility	No Facility	No Facility	No Facility	ALL ULB (Nagar Parishad/ Nagar Palika)
SW1h		Qty. of Other Waste (Horticulture, sanitary waste, etc.)	Not Estimated	Not Estimated	Not Estimated	Not Estimated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW1i		No of Old dump sites	3	1	1	1	ALL ULB (Nagar Parishad/ Nagar Palika)
SW1j		Qty stored in dumpsites	15,000 MT	15000 MT	Not Estimated	Not Estimated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW1k		No of Sanitary landfills	1	1 (Under Process)	None	None	ALL ULB (Nagar Parishad/ Nagar Palika)
SW1l		No of wards	85	45	15	25	ALL ULB (Nagar Parishad/ Nagar Palika)

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SW2	Compliance by Bulk Waste Generators						ALL ULB (Nagar Parishad/ Nagar Palika)
SW2a		No of BW Generators	1	1	0	0	ALL ULB (Nagar Parishad/ Nagar Palika)
SW2b		No of on-site facilities for Wet Waste	No Data	No Data	No Data	No Data	ALL ULB (Nagar Parishad/ Nagar Palika)
SW3	Compliance in segregated waste Collection SW Collection						ALL ULB (Nagar Parishad/ Nagar Palika)
SW3a		Total generation	40.75	31	4.27	5.48	ALL ULB (Nagar Parishad/ Nagar Palika)
SW3b		Wet Waste	10 Mt/Day	10	Collection Not Initiated	Collection Not Initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW3c		Dry Waste	10 Mt/Day	21	Collection Not Initiated	Collection Not Initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW3d		C&D Waste	Collection Not Initiated	Collection Not Initiated	Collection Not Initiated	Collection Not Initiated	ALL ULB (Nagar Parishad/ Nagar Palika)

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SW4	Waste Management Operations						ALL ULB (Nagar Parishad/ Nagar Palika)
SW4a		Door to Door Collection	[100%] / [Partial %] / [Not Initiated]	100%	Not Initiated	Not Initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4b		Mechanical Road Sweeping	Not Initiated	Not Initiated	Not Initiated	Not Initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4c		Manual Sweeping	100%	100%	100%	100%	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4d		Segregated Waste Transport	50%	50%	Not Initiated	Not Initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4e		Digesters (Bio-methanation)	Not Initiated	Not Initiated	Not Initiated	Not Initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4f		Composting operation	Not Initiated	Under Process	Not Initiated	Not Initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4g		MRF Operation	Not Installed	Under Process	Not Installed	Not Installed	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4h		Use of Sanitary Landfill	No SLF	Under Process	No SLF	No SLF	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4i		Reclamation of old dumpsites	[Initiated] / [Not Initiated]	Initiated	Not Initiated	Not Initiated	ALL ULB (Nagar Parishad/ Nagar Palika)

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SW4j		Linkage with Waste to Energy Boilers / Cement Plants	[Initiated] / [Not Initiated]	Initiated	Not Initiated	Not Initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4k		Linkage with Recyclers	[Initiated] / [Not Initiated]	Initiated	Not Initiated	Not Initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4l		Authorization of waste pickers	[Initiated] / [Not Initiated]	Initiated	Not Initiated	Not Initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4m		Linkage with TSDF / CBMWTF	Not Initiated	Not Initiated	Not Initiated	Not Initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4n		Involvement of NGOs	[Initiated] / [Not Initiated]	Initiated	Not Initiated	Not Initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4o		Linkage with Producers / Brand Owners	Not Initiated	Not Initiated	Not Initiated	Not Initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW4p		Authorization of Waste Pickers					ALL ULB (Nagar Parishad/ Nagar Palika)
SW4q		Issuance of ID Cards	Not Initiated	Not Initiated	Not Initiated	Not Initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
SW5	Adequacy of Infrastructure						ALL ULB (Nagar Parishad/ Nagar Palika)
SW5a		Waste Collection Trolleys	50-Nos. Required / 280-Nos. Available	250 (Available)	30 (Available)	50 (Required)	ALL ULB (Nagar Parishad/ Nagar Palika)

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SW5b		Mini Collection Trucks	10-Nos. Required /26-Nos. Available	21 (Available)	5 (Available)	10 Required	ALL ULB (Nagar Parishad/ Nagar Palika)
SW5c		Segregated Transport	50%	50%	No	No	ALL ULB (Nagar Parishad/ Nagar Palika)
SW5d		Bulk Waste Trucks	2-Nos. Required / 1-Nos. Available	1 (Available)	1 (Required)	1 (Required)	ALL ULB (Nagar Parishad/ Nagar Palika)
SW5e		Waste Transfer points	[Nos. Required] / [Nos. Available] / [Not Available]	30 (Available)	Not Available	Not Available	ALL ULB (Nagar Parishad/ Nagar Palika)
SW5f		Bio-methanation units	3 (Required)		1 (Required)	1 (Required)	ALL ULB (Nagar Parishad/ Nagar Palika)
SW5h		Composting units	3 (Required)	1 (Required Of 10tpd Capacity)	1 (Required)	1 (Required)	ALL ULB (Nagar Parishad/ Nagar Palika)
SW5i		Material Recovery Facilities	[Used Or Installed] / [Not Available]	Installed	Not Available	Not Available	ALL ULB (Nagar Parishad/ Nagar Palika)
SW5k		Waste to Energy (if applicable)	Not Available	Na	Na	Na	ALL ULB (Nagar Parishad/ Nagar Palika)

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SW5l		Waste to RDF	Required	Required	Required	Required	ALL ULB (Nagar Parishad/ Nagar Palika)
SW5m		Sanitary Land fills	[Nos] / [Nos. Available]	1 (Under Process)	Required	Required	ALL ULB (Nagar Parishad/ Nagar Palika)
SW5n		Capacity of sanitary landfills	[Mt] // [Nos. Available]	1.0 MT Per Day	Not Available	Not Available	ALL ULB (Nagar Parishad/ Nagar Palika)
SW5o		Waste Deposit Centers (DHW)	Not Available	Not Available	Not Available	Not Available	ALL ULB (Nagar Parishad/ Nagar Palika)
SW5p		Other facilities	[Give Or Select From List]	--	--	--	ALL ULB (Nagar Parishad/ Nagar Palika)
SW6	Notification and Implementation of By-Laws						ALL ULB (Nagar Parishad/ Nagar Palika)
SW6a		Notification of By-laws	In Progress	In Progress	In Progress	In Progress	ALL ULB (Nagar Parishad/ Nagar Palika)
SW6b		Implementation of by-laws	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)
SW7a		CAPEX Required	395 Lac INR	225 Lac	150 Lac	20 Lac	ALL ULB (Nagar Parishad/ Nagar Palika)

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SW7b		OPEX	194 INR Per Year	144 Lac	50 Lac	0	ALL ULB (Nagar Parishad/ Nagar Palika)
SW7c		Adequacy of OPEX	[Yes] / [No]	Yes	No	No	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

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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	ULB 1	ULB 2	ULB 3	Action to be taken by
	Name of ULB		Banswara	Banswara	Kushalgarh	Garhi Partapur	ALL ULB (Nagar Parishad/ Nagar Palika)
	Population		133608	101017	10666	21925	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	Not Estimated	Not Estimated	Not Estimated	Not Estimated	ALL ULB (Nagar Parishad/ Nagar Palika)
PW2	Implementation of Collection						ALL ULB (Nagar Parishad/ Nagar

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							Palika)
PW2a		Door to Door collection	100%	100%	100%	Not Initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
PW2b		Segregated Waste collection	[100%] / [Partial %]	50%	5%	0%	ALL ULB (Nagar Parishad/ Nagar Palika)
PW2c		Plastic waste collection at Material Recovery Facility	[MRF Used] / [Not Installed]	MRF Used	Not Installed	Not Installed	ALL ULB (Nagar Parishad/ Nagar Palika)
PW2d		Authorization of PW pickers	[Nos] / [Not Initiated]	10	Not Initiated	Not Initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
PW2e		PW collection Centers	Not Established	Not Established	Not Established	Not Established	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	Not Established	Not Established	Not Established	Not Established	ALL ULB (Nagar Parishad/ Nagar Palika)
PW3b		Established	Not	Not	Not	Not	ALL ULB (Nagar

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		linkage with NGOs	Established	Established	Established	Established	Parishad/ Nagar Palika)
PW4	Availability of facilities for Recycling or utilization of PW						ALL ULB (Nagar Parishad/ Nagar Palika)
PW4a		No. of PW recyclers	0	0	0	0	ALL ULB (Nagar Parishad/ Nagar Palika)
PW4b		No Manufacturers	0	0	0	0	ALL ULB (Nagar Parishad/ Nagar Palika)
PW4c		No of pyrolysis oil plants	0	0	0	0	ALL ULB (Nagar Parishad/ Nagar Palika)
PW4d		Plastic pyrolysis	0	0	0	0	ALL ULB (Nagar Parishad/ Nagar Palika)
PW4e		Use in road making	0	0	0	0	ALL ULB (Nagar Parishad/ Nagar Palika)
PW4f		Co-processing in Cement Kiln	1.0 Mt Sent In October-2019	1.0 MT Sent In October-2019	0	0	ALL ULB (Nagar Parishad/ Nagar Palika)
PW5	Implementation of						ALL ULB (Nagar

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	PW Management Rules, 2016						Parishad/ Nagar Palika)
PW5a		Sealing of units producing < 50-micron plastic	Partial	Partial	Partial	Partial	ALL ULB (Nagar Parishad/ Nagar Palika)
PW5b		Prohibiting sale of carry bags < 50 micron	Partial	Partial	Partial	Partial	ALL ULB (Nagar Parishad/ Nagar Palika)
PW5c		Ban on Carry bags and other single use plastics as notified by State Government	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	None	None	None	None	ALL ULB (Nagar Parishad/ Nagar Palika)
PW6b		Financial support by Producers / Brand owners to ULBs	None	None	None	None	ALL ULB (Nagar Parishad/ Nagar Palika)
PW6c		Amount of PRO	None	None	None	None	ALL ULB (Nagar

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		Support					Parishad/ Nagar Palika)
PW6d		Infrastructure support by Producers / Brand owners to ULBs	None	None	None	None	ALL ULB (Nagar Parishad/ Nagar Palika)
PW6e		No of collection centers established by Producers / Brand owners to ULBs	None	None	None	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	ULB 1	ULB 2	ULB 3	Action to be taken by
	Name of ULB		Banswara	Banswara	Kushalgarh	Garhi Partapur	ALL ULB (Nagar Parishad/ Nagar Palika)
	Population		133608	101017	10666	21925	ALL ULB (Nagar Parishad/ Nagar Palika)
CD1	Inventory of C&D waste generation						ALL ULB (Nagar Parishad/ Nagar Palika)
CD1a		Estimated Quantity	Not Estimated	Not Estimated	Not Estimated	Not Estimated	ALL ULB (Nagar Parishad/ Nagar Palika)
CD2	Implement scheme for permitting bulk waste generators						ALL ULB (Nagar Parishad/ Nagar Palika)

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CD2a		Issuance of Permissions by ULBs	Initiated	Initiated	Initiated	Initiated	ALL ULB (Nagar Parishad/ Nagar Palika)
CD3	Establishment of C&D Waste Deposition centers						ALL ULB (Nagar Parishad/ Nagar Palika)
CD3a		Establishment of Deposition Points	No	No	No	No	ALL ULB (Nagar Parishad/ Nagar Palika)
CD3b		C&D Deposition point identified	No	No	No	No	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	Notified	Notified	Notified	ALL ULB (Nagar Parishad/ Nagar Palika)
CD4b		Collection of Deposition / disposal Charges	Not Initiated	Not Initiated	Not Initiated	Not 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	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	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

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 thereto 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	ULB 1	ULB 2	ULB 3	Action to be taken by
	Name of ULB		Banswara	Banswara	Kushalgarh	Garhi Pratapur	ALL ULB (Nagar Parishad/ Nagar Palika)
	Population		133608	101017	10666	21925	ALL ULB (Nagar Parishad/ Nagar Palika)
BMW1	Inventory of Biomedical Waste Generation						
BMW1a		Total no. of Bedded Hospitals	99				CMHO
BMW1b		Total no. of non-bedded HCF	0				CMHO
BMW1c		Total no. Clinics	20				CMHO
BMW1d		No of Veterinary Hospitals	74 VET. HOSPITAL, 138 SUB CENTRES				CMHO

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			AND 6 Dispansry TOTAL- 218				
BMW1e		Pathlabs	14				CMHO
BMW1f		Dental Clinics	3				CMHO
BMW1g		Blood Banks	1				CMHO
BMW1h		Animal Houses	Nil				ALL ULB (Nagar Parishad/ Nagar Palika)
BMW1i		Bio-research Labs	No inventory				CMHO
BMW1j		Others	No inventory				ALL ULB (Nagar Parishad/ Nagar Palika)/CMHO
BMW2	Authorization of HCFs by SPCBs / PCCs						RPCB
BMW2a		Bedded HCFs	95				RPCB
BMW2b		Non-bedded HCFs	6				RPCB
BMW3	Biomedical Waste Treatment and Disposal Facilities (CBMWTFs)						RPCB
BMW3a		No of CBMWTFs	None				RPCB
BMW3b		Linkage with CBMWTFs	Yes				RPCB
BMW3c		Capacity of CBMWTFs	NA				RPCB

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BMW3d		Requirements of CBMWTFs	Not required				RPCB
BMW3e		Captive Disposal Facilities of HCFs	None				RPCB
BMW4	Compliance by CBMWTFs						RPCB
BMW4a		Compliance to standards	NA				RPCB
BMW4b		Barcode tracking by HCFs / CBMWTFs	NA				RPCB
BMW4c		Daily BMW lifting by CBMWTFs	NA				RPCB
BMW5	Status of Compliance by Healthcare Facilities						RPCB
BMW5a		Pre-segregation	86%				RPCB
BMW5b		Linkage with CBMWTFs	92%				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"> • 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.	<ul style="list-style-type: none"> • BMW from HCFs Transported, Treated & disposed of in accordance with Rules. 	Immediate	CBWTFs

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	<ul style="list-style-type: none"> • Establish Bar coding & Global Positioning system for handling of BMW. • Training to all workers. Assist Occupier in Training. • Supply Non Chlorinated coloured Plastic Bags to Occupiers. 		
8.	<ul style="list-style-type: none"> • 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, sludges 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 radioactive.

BASELINE DATA FOR HAZARDOUS WASTE MANAGEMENT

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Action to be taken by
HW1	Inventory of Hazardous Waste			RPCB
HW1a		No of HW Generating Industry	8	RPCB
HW1b		Quantity of HW	2055.025 [MT/Annum]	RPCB
HW1c		Quantity of Incinerable HW	0 [MT/Annum]	RPCB
HW1d		Quantity of land-fillable HW	1843.13[MT/Annum]	RPCB
HW1e		Quantity of Recyclable / utilizable HW	211.895 [MT/Annum]	RPCB

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HW2	Contaminated Sites and illegal industrial hazardous waste dumpsites		1843.13 [MT/Annum]	RPCB
HW2a		No of HW dumpsites	None	RPCB
HW2c		Probable Contaminated Sites	NIL	RPCB
HW3	Authorization by SPCBs/PCCs			RPCB
HW3a		No of industries authorized	8	RPCB
HW3b		Display Board of HW Generation in front of Gate	8	RPCB
HW3	Availability of Common Hazardous Waste TSDF			RPCB
HW3a		Common TSDF	Sent to Other District within State	RPCB
HW3b		Industries linkage with TSDF	5	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	NO	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 bio magnification of heavy metals. Many private firms are involved in collecting, dismantling, separation and exporting e-wastes for recyclers.

BASELINE DATA FOR E- WASTE MANAGEMENT

12	Action Areas	Details of Data Requirement	Measurable Outcome	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	No	ALL ULB (Nagar Parishad/ Nagar Palika)
EW1c		Collection centers established by ULB in District	No	ALL ULB (Nagar Parishad/ Nagar Palika)
EW1d		Collection centers established by Producers	None	ALL ULB (Nagar Parishad/ Nagar Palika)

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		or their PROs in the District		Nagar Palika)
EW1e		Does the district has linkage with authorized E-Waste recyclers / Dismantler	No	ALL ULB (Nagar Parishad/ Nagar Palika)
EW1f		No authorized E-Waste recyclers / Dismantler	None	ALL ULB (Nagar Parishad/ Nagar Palika)
EW2	Status of Collection of E-Waste			
EW2a		Authorizing E-Waste collectors	None	RPCB
EW2b		Involvement of NGOs	No	RPCB
EW2c		Does Producers have approached NGOs/ Informal Sector for setting up Collection Centers?	No	RPCB
EW2d		Does ULBs have linkage with authorized Recyclers / Dismantlers	No	ALL ULB (Nagar Parishad/ Nagar Palika)
EW4	Control E-Waste related pollution			

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EW4a		Does informal trading, dismantling, and recycling of e-waste exists in District	No	ALL ULB (Nagar Parishad/ Nagar Palika)
EW4b		Does the administration closed illegal E-Waste recycling in the District	No	ALL ULB (Nagar Parishad/ Nagar Palika)
EW4c		No of actions taken to close illegal trading or processing of E-Waste	Nil	ALL ULB (Nagar Parishad/ Nagar Palika)
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	No	ALL ULB (Nagar Parishad/ Nagar Palika)
EW5c		Does District Administration conducted any District level Awareness Campaigns	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"> • 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 safeguarding 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	Action to be taken by
WQ1	Inventory of water resources in District			
WQ1a		Rivers	[4 Nos.] and [366.0 in Km]	Water Resources Department
WQ1b		Length of Coastline	[0.0 Km]	Water Resources Department
WQ1c		Nalas/Drains meeting Rivers	[88 Nos.]	Water Resources Department
WQ1d		Lakes / Ponds	[133 Nos.] and [16256.0 Hectares]	Water Resources Department
WQ1e		Total Quantity of sewage and industrial discharge in District	[Automatic] (SW1a+IW1b)	Water Resources Department
	Control of Groundwater Water Quality			

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WQ2a		Estimated number of bore-wells	27 Bore well, 57987 Hand pumps, 282 solar punghat, 10 ROs	Ground water department
WQ2b		No of permissions given for extraction of groundwater	58306	Ground water department
WQ2c		Number of groundwater polluted areas	0	Ground water department
WQ2d		Groundwater Availability	adequate	Ground water department
WQ3	Availability of Water Quality Data			
WQ3a		Creation of monitoring cell	No	Ground water department
WQ3b		Access to Surface water and groundwater quality data at DM office	Not available	Ground water department
WQ4	Control of River side Activities			
WQ4a	Control of River side Activities	River Side open defecation	Fully Controlled	ALL ULB (Nagar Parishad/ Nagar Palika)
WQ4b		Dumping of SW on river banks	Fully Controlled	ALL ULB (Nagar Parishad/ Nagar Palika)
WQ4c		Control measures for idol immersion	Measures taken	ALL ULB (Nagar Parishad/ Nagar Palika)

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WQ5	Control of Water Pollution in Rivers			
WQ5a		Percentage of untreated sewage	[0 %] (automatic SM1g/SM1a)	ALL ULB (Nagar Parishad/ Nagar Palika)
WQ5b		Monitoring of Action Plans for Rejuvenation of Rivers	Not applicable	ALL ULB (Nagar Parishad/ Nagar Palika)
WQ5c		No of directions given to industries for Discharge of Untreated industrial wastewater in last 12 months	NIL	RPCB
WQ6	Awareness Activities			
WQ6a		District level campaigns on protection of water quality	NIL	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	Not Created	ALL ULB (Nagar Parishad/ Nagar Palika)
WQ6b		Preparation District Oil Spill Disaster Contingency Plan	Not Prepared	ALL ULB (Nagar Parishad/ Nagar Palika)
WQ7	Protection of Flood plains			
WQ7a		Encroachment of flood plains is regulated.	No	ALL ULB (Nagar Parishad/ Nagar Palika)

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WQ8	Rainwater Harvesting			
WQ8a		Action plan for Rain water harvesting	Not 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	ULB 1	ULB 2	ULB 3	Action to be taken by
SM1	Inventory of Sewage Management			Banswara	Kushalgarh	Garhi Pratapur	ALL ULB (Nagar Parishad/ Nagar Palika)
SM1a		Total Quantity of Sewage generated in District from Class II cities and above	[MLD]				ALL ULB (Nagar Parishad/ Nagar Palika)
SM1b		No of Class-II towns and above	[Nos]				ALL ULB (Nagar Parishad/ Nagar Palika)
SM1c		No of Class-I towns and above	1 Nos	1	--	--	ALL ULB (Nagar Parishad/ Nagar Palika)

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SM1d		No of Towns needing STPs	2 Nos.	1	1	0	ALL ULB (Nagar Parishad/ Nagar Palika)
SM1e		No of Towns STPs installed	2 Nos	1	1	0	ALL ULB (Nagar Parishad/ Nagar Palika)
SM1f		Quantity of treated sewage flowing into Rivers (directly or indirectly)	4.0 MLD	3.0 MLD	1.0 MLD	0	ALL ULB (Nagar Parishad/ Nagar Palika)
SM1g		Quantity of untreated or partially treated sewage (directly or indirectly)	[Automatic]	[Automatic]	[Automatic]	[Automatic]	ALL ULB (Nagar Parishad/ Nagar Palika)
SM1h		Quantity of sewage flowing into lakes	Nil	Nil	Nil	Nil	ALL ULB (Nagar Parishad/ Nagar Palika)
SM1i		No of industrial townships	5				RPCB
SW2	Adequacy of Available Infrastructure for Sewage Treatment						
SM2a		% sewage treated in STPs	[Automatic]	[Automatic]	[Automatic]	[Automatic]	ALL ULB (Nagar Parishad/ Nagar Palika)

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SM2b		Total available Treatment Capacity	4.0 MLD	3.0 MLD	1.0 MLD	0	ALL ULB (Nagar Parishad/ Nagar Palika)
SM2c		Additional treatment capacity required	11.5 MLD	10.0 MLD	0.5 MLD	1.0 MLD	ALL ULB (Nagar Parishad/ Nagar Palika)
SM3	Adequacy of Sewerage Network						
SM3a		No of ULBs having partial underground sewerage network	2 Nos.	1	1	Nil	ALL ULB (Nagar Parishad/ Nagar Palika)
SM3b		No of towns not having sewerage network	1 Nos.				ALL ULB (Nagar Parishad/ Nagar Palika)
SM3c		% population covered under sewerage network	[Automatic]				ALL ULB (Nagar Parishad/ Nagar Palika)

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

ACTION POINT FOR SEWAGE MANAGEMENT

a. 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 Agencies Govt.
6	Septage Management in the areas where sewerage network does not exist.		ULBs

b. 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 ecosystem 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	Action to be taken by
IWW1	Inventory of industrial wastewater Generation in District			RPCB
IWW1a		No of Industries discharging wastewater	5	RPCB
IWW1b		Total Quantity of industrial wastewater generated	Approx 3176 KLD	RPCB
IWW1c		Quantity of treated IWW discharged into Nalas / Rivers	Nil	RPCB
IWW1d		Quantity of un-treated or partially treated IWW discharged into lakes	Nil	RPCB

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IWW1e		Prominent Type of Industries	Textile	RPCB
IWW1f		Common Effluent Treatment Facilities	No CETPs	RPCB
IWW2	Status of compliance by Industries in treating wastewater			RPCB
IWW2a		No of Industries meeting Standards	5 (recycle/ reuse after ETP)	RPCB
IWW2b		No of Industries not meeting discharge Standards	0	RPCB
IWW2c		No of complaints received or number of recurring complaints against industrial pollution in last 3 months	Nil	RPCB
AWW4	Status of Action taken for not meeting discharge standards			RPCB
IWW4a		No industries closed for exceeding standards in last 3 months	Nil	RPCB
IWW4b		No of industries where Environmental Compensation was imposed By SPCBs	Nil	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 a regulatory authority undertakes 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	Action to be taken by
AQ1	Availability of Air Quality Monitoring Network in District			RPCB
AQ1a		Manual Air Quality monitoring stations of SPCBs /CPCB	None	RPCB
AQ1c		Automatic monitoring stations Operated by SPCBs / CPCB	None	RPCB
AQ2	Inventory of Air Pollution Sources			

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AQ2a		Identification of prominent air polluting sources	17 category industry -03 Textile -05 Stone crusher-15 Mineral grinding – 28	[Large Industry] / [Small Industry]-RPCB/ [Unpaved Roads] -PWD / [Burning of Waste Stubble] - Agriculture Dept/ [Brick Kiln]-RPCB & Tehsildar/ [Industrial Estate]- RPCB/ Other- Vehicular Pollution- Transport Department, Burning of Solid waste- Nagar Parishad/ Nagar Palika
AQ2b		No of Non-Attainment Cities	None	RPCB
AQ2c		Action Plans for non-attainment cities	None	RPCB
AQ3	Availability of Air Quality Monitoring Data at DMs Office			
AQ3a		Access to air quality data from SPCBs & CPCB through Dashboard	Not yet Available	District Administration
AQ4	Control of Industrial Air Pollution			RPCB
AQ4a		No of Industries meeting Standards	Regular monitoring conducted and action taken against Violators	RPCB
AQ4b		No of Industries not	4	RPCB

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		meeting discharge Standards		
AQ5	Control of Non-industrial Air Pollution sources			Agriculture Department
AQ5a		Control open burning of Stubble –during winter	NIL	Agriculture Department
AQ5b		Control Open burning of Waste – Nos of actions Taken	NIL	Agriculture Department
AQ5c		Control of forest fires	SOP available	Forest Department
AQ5d		Vehicle pollution check centers	Nil	ALL ULB (Nagar Parishad/ Nagar Palika)
AQ5e		Dust Suppression Vehicles	Nil	ALL ULB (Nagar Parishad/ Nagar Palika)
AQ6	Development of Air Pollution complaint redressal system			
AQ6a		Mobile App / Online based air pollution complaint redressing system of SPCBs.	[Available]	RPCB

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 roads and improvement of infrastructure for decongestion 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	Timeframe 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 (<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

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

(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 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/
FOREST FIRES**

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 bio mass.		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.		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.		RPCB

4.1.6 MINING ACTIVITY MANAGEMENT PLAN

Mining Activities Management Plan		
Sources	Causes	<u>Efforts</u>
Active or Abandoned surface and underground mines, processing plants	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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 ACTIVITY MANAGEMENT

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Action to be taken by
MI1a	Inventory of Mining in District			
MI1a		Type of Mining Activity	Lime Stone(Cement Grade), Marble, Masonry Stone, Dolomite, Mangansse, Limestone (Minor), Soapstone	Mining Department
			Multiple selection in order of magnitude of operations	Mining Department
MI1b		No of Mining licenses given in the District	129	Mining Department
MI1c		Area covered under mining	4.05 Km	Mining Department
MI1d		Area of District	5037 Km	Mining Department
MI1e		Sand Mining	No	Mining Department
MI1f		Area of sand Mining	No	Mining Department
MI2	Compliance to Environmental Conditions			

District Environmental Plan, Banswara

MI2a		No of Mining areas meeting Environmental Clearance Conditions	129	Mining Department
MI2b		No of Mining areas meeting Consent Conditions of SPCBs / PCCs	125	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.	Establishment of green belt in and around mining lease areas and planting of rows of trees along roadsides to hold the spread of dust over larger areas.	Regular Activities	Mine Consent/Forest Dept.
3.	Adoption of appropriate soil and moisture conservation measures in the mining lease area to hold run-off and increase infiltration.	Regular Activities	Concerned Mines /Mining Dept.
4.	Stabilization and consolidation of inactive dumps through engineering and vegetative measures.		Concerned Mines /Mining Dept.
5.	Strict implementation of reclamation and rehabilitation measures both within and outside the mining lease areas.	Regular Activities	Concerned Mines /Mining Dept.

4.1.7 NOISE POLLUTION MANAGEMENT PLAN

Noise Pollution Management Plan		
Sources	<u>Causes</u>	Efforts
<ul style="list-style-type: none"> • Industrialization • Poor Urban Planning • Transportation • Construction Activity Household Chores. 	<ul style="list-style-type: none"> • Hearing Problems Health Issue • Sleeping • Disorder Cardiovascular Issue • Effect on Wildlife & Environment 	<ul style="list-style-type: none"> • Turn off appliances at home and office. • Go green by planting 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	Action to be taken by
NP1	Availability Monitoring equipment			
NP1a		No. of noise measuring devices with district administration	None	Police
NP1b		No. of noise measuring devices with SPCBs	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	
NP2	Management of Noise related complaints			
NP2a		No of complaints received on noise pollution in last 1 year	49	Police
NP2b		No of complaints redressed	0	Police
NP3	Compliance to ambient noise standards			
NP3a		Implementation of Ambient noise standards in residential and silent zones	Occasional	Police
NP3b		Noise monitoring study in district	Not carried out	RPCB
NP3c		Sign boards in towns and cities in silent zones	Partial	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 loud speaker 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 10.00 p.m. to 6.00 a.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

