



कार्यालय उपायुक्त, भिवानी  
DEPUTY COMMISSIONER OFFICE, BHIWANI

To

The Chairman,  
Haryana State Pollution Control Board,  
Panchkula

Memo No. 4260 /MB

Dated : 22/06/23

**Subject: Approval of Revised District Environment Plan (DEP) of District Bhiwani.**

With reference to subject cited above, it is brought to your kind notice that District Environment Plan for District Bhiwani, which is prepared under the Supervision of Dr. Babu Ram, Technical Expert of the Monitoring Committee, has been approved. The DEP outlines a comprehensive set of strategies, objectives, and action plans to address environment challenges and promote sustainable development in District Bhiwani.

It has been carefully developed to ensure the reservation and conservation of natural resources, as well as the mitigation of pollution through adoption of eco-friendly practices.

This is submitted for kind information and further necessary action please.

D.A. : As above.

R.O. PCB, Bhiwani

ADC, Bhiwani

Deputy Commissioner,  
Bhiwani.

Endst. No.

4261 /MB

Dated : 22/06/23

A copy of above is forwarded to Joint Director, Environment & Climate Change Department, Chandigarh for information and further necessary action please.

D.A. : As above

Deputy Commissioner,  
Bhiwani.

# District Environment Plan for Bhiwani, Haryana State



**Office of District Administration**

**Deputy Commissioner, Bhiwani**  
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## **Background**

Hon'ble National Green Tribunal in order dated 26.09.2019 in O.A. No. 360/2018, M.A. No. 823/2018[SLP (Civil) No. 2959/2014] titled as Shree Nath Sharma Vs Union of India & Ors ordered regarding preparation of District Environment Plan. This Tribunal in O.A. No. 606/2018, while dealing with the compliance of Municipal Solid Waste Management Rules, 2016 also flagged other issues and required monitoring at the level of the Chief Secretaries and the District Magistrates.

The Department of Environment of all States and Union Territories may collect such District Environment Plans of their respective States and finalize the 'State Environment Plan' covering the specific thematic areas referred in Para-7 including information as contained in Para-8 and template of Model/Models District Environment Plan provided by the CPCB. The action for preparation of State's Environment Plan shall be monitored by the respective Chief Secretaries of States and Administration of UTs. Let this action be completed by 15.12.2019 and compliance be reported to the Tribunal by 31.12.2019.

Based on States and UTs Environment Plans, MoEF&CC and CPCB shall prepare country's Environment Plan accordingly. Let the Secretary, MoEF&CC and Chairman, CPCB steer the preparation of country's Environment Plan. Let their action be completed by 31.01.2020 and compliance be reported to the Tribunal by 15.02.2020.'

Hon'ble NGT, New Delhi also referred to order dated 15.07.2019 in O.A. No.710/2017, Shailesh Singh vs. Sheela Hospital & Trauma Centre, Shahjahanpur & Ors. directing as follows:

"We find it necessary to add that in view of Constitutional provisions under Articles 243 G, 243 W, 243 ZD read with Schedules 11 and 12 and Rule 15 of the Solid Waste Management Rules, 2016, it is necessary to have a District Environment Plan to be operated by a District Committee (as a part of District Planning Committee under Article 243 ZD) with representatives from Panchayats, Local Bodies, Regional Officers, State PCB and a suitable officer representing the administration, which may in turn be chaired and monitored by the District Magistrate. Such

District Environment Plans and Constitution of District Committee may be placed on the website of Districts concerned. The monthly report of monitoring by the District Magistrate may be furnished to the Chief Secretary and may be placed on the website of the District and kept on such websites for a period of one year. This may be made operative from 1.08.2019. Compliance of this direction may also be seen by the Chief Secretaries of the States/UTs. This may not only comply with mandate of law but provide an institutional mechanism for effective monitoring of environment norms.”

Hon’ble National Green Tribunal in O.A. No. 360/2018 dated 26.09.2019 ordered regarding preparation of District Environment Plan/State Environment. In the above said order, it is also stated that the action for preparation of state’s Environment Plan shall be monitored by the respective Chief Secretaries of the state and administration of the Union Territories. Based on the state and UTs Environment Plans, MoEF&CC & CPCB shall prepare country’s Environment Plan. In this regard, Director, Environment & Climate Change Department, Haryana directed to all District Magistrates & Regional Officers of HSPCB for preparation of District Environment Plan (DEP) as per the orders of Hon’ble NGT with covering specific thematic areas as referred in para no. 7 of said NGT orders dated 26.09.2019 vide his Memo No. DEH/2020/6021-56 dated 06.01.2020. Plan shall be covering the specific thematic areas as mentioned below:-

The District Environmental plans cover the following environmental issues:

- ❖ Municipal Solid Waste Management
- ❖ Plastic Waste Management
- ❖ Construction and Demolition Waste (C&D)
- ❖ Biomedical Waste Management
- ❖ Hazardous Waste Management
- ❖ E-Waste Management
- ❖ Water Quality Management Plan

- ❖ Domestic Sewage Management Plan including Status of STPs and their performance & Utilization/Re-used of treated effluent
- ❖ Industrial Wastewater Treatment and its Utilization and Management Plan including Status of CETPs/ETPs
- ❖ Air Quality Management Plan
- ❖ Mining Activity Management
- ❖ Noise Pollution Management

### **Objectives of District Environment Plan:-**

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. While taking up developmental activities, the assimilative capacities of the environmental components i.e. air; water and land to various types of pollution are rarely considered. Also, lack of proper land use control is resulting in poor land use compatibility. 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. However, environmental risks are not being controlled completely by such solutions.

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.

Presently, the environmental aspects are not usually considered while preparing master plans or regional plans and the process is skewed towards developmental needs. 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.

The various Objectives of District Environment and Management Plan (DEMP) are described below:-

1. To ensure conservation of environment and natural resources at district level.
2. Restore ecological balance.
3. To achieve the Sustainable Development Goals and district level targets within the prescribed timeline.
4. To ensure sustainability at district level following the principles of resource efficiency.
5. To ensure decentralized micro level planning, execution and monitoring regarding environment conservation.
6. To incorporate all facets of environmental conservation in micro level planning.
7. To harness active participation of all stakeholders in planned environment conservation actions.
8. Assess, Mitigate and monitor adverse impacts of various pollution sources at district level.
9. Capacity building of stakeholder, department, agencies, organizations and individuals at district level to understand and implement micro level environmental conservation actions.
10. To harness inter-departmental coordination for implementation of action plans.
11. To develop local knowledge centers and expertise for developing environmental conservation strategies at district level.
12. To develop and implement micro monitoring system at district level.

**Monitoring Mechanism for implementation of District Environment Plan:-**

The District Environment Committees have been constituted in compliance with the directions of Hon'ble NGT and orders of the Secretary, Environment & Climate Change, Govt. of India in pursuance of the direction thereof. The District Environment Plans have been prepared in each district in the State by involving the stakeholder Departments after conducting workshops and under the supervision of District Environment Committee (DEC) headed by the Deputy Commissioner concerned. District



Environment Plans (DEPs) comprising various issues & timelines for management of Solid Waste, Domestic Waste, Plastic Waste, C&D Waste, Biomedical Waste, Hazardous Waste, Air Pollution, E-Waste, Water Quality, Industrial Waste Water, Mining Activity and Noise Pollution etc.

### **District Profile**

District Bhiwani is situated between 28.19 deg. & 29.05 deg. North latitude and 75.26 deg. and 76.28 deg. East Longitude.. The Bhiwani District is bordered by Hissar District on its north, some area of Jhunjunu and Churu districts of Rajasthan on its west, Mahendergarh and Jhunjunu districts on its south and District Rohtak to the east. District Bhiwani is located 124 km of India capital New Delhi and 295 km of Haryana capital Chandigarh.

Bhiwani is 295 Km far from Chandigarh.

- Longitude: 76.7 , Latitude: 28.78
- Area: 32.83 sq. km | Altitude : 225 m
- Population: 1,96,057 (Census 2011)
- Literacy Rate: 76.70 %

The city of Bhiwani has expanded its trade and commerce aspirations in the recent times by many folds making it a economically successful city. This city is the apple of the eye for many industrialists and commercial giants, due to its fertile land and trade friendly policies, which makes it very easy for the industrial giants and manufacturing companies to set up their base here. The district Bhiwani mainly has stone crusher units, Mining units, Plastic recycle, Gawar GUM, Bio Mass Based Power plants, Textile etc.

Since the Bhiwani district falls under the National capital region ,it has made rapid stride in the sphere of development of industries. The District Bhiwani has achieved a phenomenal growth in the field of small scale industries sector. The total number of small scale industries in existence are 2250. The main industries of wood based, Mineral based and Rubber& Plastic based. The total numbers Mineral based 256 and other manufacturing/servicing and repairing units are 700. These units are providing employment to over 18000 persons. The Textile units in district

District Environment Plan, Bhiwani

Bhiwani in a big way and earned a good name for the State not only in National Market but also in International Market. M/S GBTL of Bhiwani is famous not only in India but also in foreign countries and clothes are exported in many countries.

The Government of Haryana also developed an Industrial Estate in Bhiwani Through Haryana State Industrial Development Corporation . HSIIDC carved out 354 plots in Sector-21 and sector-26 HSIIDC Industrial sector and all the Plots stands allotted.

The district is famous for its mineral resources. Different types of mineral resources such as kankar, saltpeter road metal are available in the district. There are about 02 nos. queries of kankar and building stone in the district. There are about 270 stone crushing units mostly situated in village Khanak and Dadam in Tehsil Tosham. These stone crushers are meeting the building material demand of the major area.

There are 4 Large & Medium scale units in the district. Out of these, Two units are Bio Mass based Power Plant in the District which has capital investment of Rs. 3173 Lakhs and 2982 Lakhs. The total power generation capacity of the plants are approximately 17 MW. The other two units are stone mine units in Tosham which extract rock stone mineral and fulfill the demand of stone crushers.

#### **a. District Administrative Set-up**

Bhiwani District is one of the 22 districts of Haryana state in northern India. District Bhiwani comprises of Four sub-divisions (Bhiwani, Loharu, Tosham, Siwani) and Five Tehsils (Bhiwani, Bawani Khera, Loharu, Tosham, Siwani) and one sub-tehsil (Behal). Haryana State is divided into six administrative Divisions, namely Ambala, Karnal, Faridabad, Rohtak, Hisar and Gurugram, each headed by Divisional Commissioner. District Bhiwani falls under Division Rohtak.

## District Environment Plan, Bhiwani

### Administrative set up.

Assembly Constituencies	Sub-Division	Tehsil	Sub-Tehsil	Blocks	No of Villages Block Wise	Municipalities Panchayats
04	04	05	01	07	Total – 272	Committees- 4 Panchayats- 312

Formation Of District	22 December- 1972
Sub-Division	4 BHIWANI, , LOHARU, SIWANI ,TOSHAM
Tehsil	5 BHIWANI, LOHARU, SIWANI, BAVANI KHERA, TOSHAM
Sub-Tehsil	1 BEHAL
Block	07 BHIWANI, , KAIRU, SIWANI, TOSHAM, BAWANI KHERA, LOHARU, BEHAL
Village	272
Village Panchayat	312
Area	5099 sq. km
Constituency Area	1
UsefulAgriculturalLand	41176 LAC Hec.

# HARYANA

## Bhiwani Location Map



### LEGEND

- National Highway
- Major Roads
- - - Railways
- - - State Boundary
- - - District Boundary

Map not to Scale

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(Updated on 10th October 2013)

**b. Local Institutions:**

	<b>Urban Local bodies/Village Panchayats</b>	<b>No of Wards</b>	<b>No of Households</b>	<b>Population</b>
1	Municipal Council, Bhiwani	31	62570	230000
2	Municipal Committee, Bawani Khera	15	4560	24980
3	Municipal Committee, Siwani	13	5700	25000
4	Municipal Committee, Loharu	13	4200	17500
5	Gram Panchayats (312 Nos.)	3211	190371	914971

**c. Natural Resources**

The District Bhiwani is rich District in terms of natural resources in terms of water and forest. The average rainfall in the District is 766 mm. The driest month is November, with 4 mm | 0.2 inch of rainfall. Most of the precipitation here falls in August, averaging 150 mm | 5.9 inch.. The average temperature in Bhiwani is 25.2 °C. Bhiwani is influenced by the local steppe climate. During the year there is little rainfall

**d. Geography & Demography**

Bhiwani district is one of the 22 districts of the northern Indian state of Haryana. Created on 22 December 1972, the district was the largest district of the state by area, before the creation of Charkhi Dadri as a separate district, as it occupied an area of 4,778 square kilometres and administered 272 villages with a population of 11,32,169.

According to the 2011 census Bhiwani district has a population of 1,96,057. The district has a population density of 341 inhabitants per square kilometre (880/sq mi). Its population growth rate over the decade 2001–2011 was 14.32%. Bhiwani has a sex ratio of 884 females for every 1000 males and a literacy rate of 76.7%. After bifurcation the district has a population of 11,32,169. Scheduled Castes make up 251,736 which is 22.23% of the population. At the time of the 2011 Census of India, 79.98% of the population in the district spoke Haryanvi and 18.12% Hindi as their first language

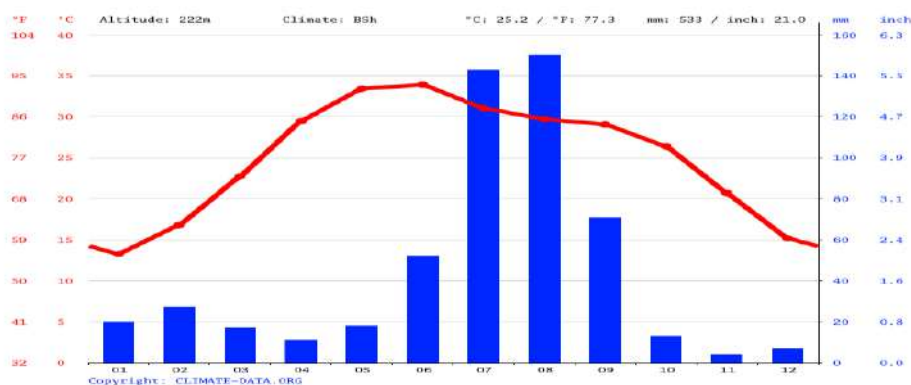
**e. Land-use pattern**

Land Use Pattern of the District	Area (In hectare)
Total Geographical area	343200
Forest Area	6508.03
Land under agriculture use (cultivable land)	-
Land under non-agriculture use	-
Permanent pastures	-
Cultivable waste land	-
Barren and uncultivable land	-

**f. Climate**

Temperature in the Bhiwani District varies from 2 Deg. c to 45 deg. c. Minerals like Building Stone & Gypsum or flexible stones (Villages Khanak & Dadam in Tehsil Tosham) Crops like Bajara & Cotton in Kharif and Wheat & Sarson in Rabi. Rainfall is scanty (Annual Rainfall-483mm) mainly in months of July-August. Vegetation mainly thorny trees like Babool, Jandi

**CLIMATE GRAPH // WEATHER BY MONTH BHIWANI**



The driest month is November, with 4 mm | 0.2 inch of rainfall. Most of the precipitation here falls in August, averaging 150 mm | 5.9 inch.

## 2. Indicative Gap Analysis and Action Plans for complying with Waste Management Rules

### (i) Solid Waste Management

#### a. Current status related to solid Waste management

	Urban Local bodies	No of Wards	No of Households	Population	Solid Waste Generated per day (TPD)
1	Municipal Council, Bhiwani	31	62570	230000(Approx)	70
2	Municipal Committee, Bawani Khera	15	4560	24980	08
3	Municipal Committee, Siwani	13	5700	25000	8
4	Municipal Committee, Loharu	13	4200	17500	8
5	Nagar panchayats (Town area Councils)	3211	190371	914971	179.91

Type of Solid Waste generation	MC Siwani	Gram Panchayats	MC Bhiwani	MC Bawani Khera	MC Loharu
Wet Waste	5	143.92 TPD	45	5	5.3
Dry Waste	3	35.99 TPD	25	3	2.7

**b. Identification of gaps and Action plan:**

**(I) Action Plan for Town Municipalities / City/ Corporations:-**

S. No.	Action points For town municipalities / City corporations	Identification of gap	Action Plan	Responsible agencies	Timeline for completion of action plan
<b>1.</b>	<b>Segregation</b>				
(i)	Segregation of waste at source	<p><b>Compliance</b></p> <p>MC, Bhiwani= 100%</p> <p>MC Bawani Khera= 100%</p> <p>MC, Siwani= 100 %</p> <p>MC, Loharu= 100%</p> <p><b>GAP = NIL by all MCs</b></p>	<p>Segregation of waste at source is performed by MC of Bhiwani, Siwani, Loharu, Bawani Khera.</p> <p>Segregation of waste at source is performed by Municipal Committee Siwani</p> <p>MC Loharu = The work/ tender for collection, segregation, transportation and further processing has been allotted</p>	MC, Bhiwani MC, Bawani Khera MC, Siwani MC, Loharu	Activity completed
<b>2</b>	<b>Sweeping</b>				
(i)	Manual Sweeping	<p><b>Compliance</b></p> <p>MC Bhiwani 100% ( No Gap )</p> <p>MC Bawani Khera = 100%</p> <p>MC Siwani 100% ( No Gap )</p> <p>MC Loharu = 100%</p> <p><b>GAP = NIL by all MCs</b></p>	<p>Sweeping work is done by Sanitation Branch twice in a day in commercial and once in a night and once in a day and night in residential area and once in a night</p> <p>Sweeping Performed by MC Sanitary Branch twice in a day and once in night time</p> <p>Sweeping work is done by Sanitation Branch twice in a day in commercial area and once in a day in residential area</p> <p>-</p>	MC, Bhiwani MC, Bawani Khera MC, Siwani MC, Loharu	It's a regular activity
(ii)	Mechanical Road Sweeping & Collection	<p>MC Bhiwani = Sweeping machine is available &amp; its operation</p> <p>MC Bawani Khera = Manual Sweeping</p> <p>MC Siwani = Manual Sweeping</p> <p>MC, Loharu = Manual Sweeping</p>	<p>mechanical road machine has not available with MC Bhiwani</p> <p>mechanical road machine has not available with MC Siwani,</p> <p>mechanical road machine has not available with MC Loharu, bawnai Khera</p>	MC, Bhiwani MC, Bawani Khera MC, Siwani MC, Loharu	Activity completed



## District Environment Plan, Bhiwani

3	Waste Collection				
(i)	100% collection of solidwaste	<p><b>Compliance</b>                      MC Bhiwnai = 100%                      Collection achieved</p> <p>MC Bawani Khera = 100%                      Collection achieved</p> <p>MC Siwani = 100%                      Collection achieved                      MC Loharu = 100%                      collection achieved</p> <p><b>Gap = NIL by all MCs</b></p>	<p>The work for collection, segregation, transportation of Municipal solid in waste 19 wards done by MC Bhiwani and remain 12 wards work done by Contractor (Shree Shayam Associates &amp; The HansiLov-Kush Society)</p> <p>Waste Collected by Municipal Committee Bawani Khera</p> <p>The work for collection, segregation, transportation of 13 wards work done by MC Siwani Door to Door tender in process</p> <p>The work for collection, segregation, transportation of Municipal solid waste in MC Loharu through M/s Balwan &amp; Company.</p>	<p>MC, Bhiwani                      MC, Bawani Khera                      MC, Siwani MC,                      Loharu</p>	It's a regular activity
(ii)	Arrangement for door todoor collection	<p>MC Bhiwani                      Auto Tipper = 15                      Dumper Places = 02                      Hand carts = 100                      JCB= 02                      Try-cycle rickshaw= 29</p> <p>MC Siwnai                      Tractor = 05                      Try-cycle rickshaw= 13</p> <p>MC Bawani Khera =                      compartmentalize vehicles                      Tipper = 03</p> <p>MC Loharu =                      Tippers = 06                      Tractors= 02</p>	<p>The work for collection, segregation, transportation of 19 wards is being done by MC Bhiwani and remain 12 wards work is being done by Contractor (Shree Shayam Associates &amp; The HansiLov-Kush Society)</p> <p>The work for collection, segregation, transportation of 13 wards is being done by MC Siwani and Door to Door tender in progress. MC Loharu Door to door collection, segregation, transportation done by MC, Loharu through M/s Balwan and company.</p>	<p>MC, Bhiwani                      MC, Bawani Khera                      MC, Siwani MC,                      Loharu</p>	Activity completed
(iii)	Waste Collection trolleyswith separate compartments	<p>MC Bhiwani = 11</p> <p>MC Bawani Khera= 02</p> <p>MC Siwani= 02</p> <p>MC Loharu = 06</p>	<p>MC Bhiwani- The remaining work Of collection, segregation, transportation is being done by MC Bhiwani and further processing have been allotted by MC Bhiwani to M/s Shree Shyam Associate</p> <p>MC Siwani- The work/tender For collection, segregation, transportation and further processing have been allotted by MC Siwani. Work completed in MC Loharu by M/s</p>	<p>MC, Bhiwani                      MC, Bawani Khera                      MC, Siwani MC,                      Loharu</p>	Activity completed

## District Environment Plan, Bhiwani

			Balwan and company.		
iv)	Mini Collection Trucks with separate compartments	Not required by any MCs as tippers are available with all MCs	MC Bhiwani -The work/tender for collection, segregation, Transportation and further processing have been allotted by MC Bhiwani to M/s Shree Shyam Associate Waste Collected by Municipal Committee Bawani Khera MC Siwani and the remaining work The work/tender or collection, segregation, Transportation and further processing have been allotted by The Brahmanand Coop L/C Society Ltd.) -	MC, Bhiwani MC, Bawani Khera MC, Siwani MC, Loharu	Activity completed
v)	Waste Deposition Centers (for domestic hazardous wastes)	MC Bhiwani = There is no domestic hazardous waste deposition centers established (NIL)	The separate facility for collection of hazardous will be created in the existing and upcoming MRF Centers.  The separate facility for collection of hazardous will be created in the existing and upcoming MRF Centres	MC, Bhiwani MC, Bawani Khera MC, Siwani MC, Loharu	31.08.2023
		MC Bawani Kheri= No domestic hazardous waste deposition centre established			
		There is no domestic hazardous waste deposition centres established in MC Siwani.			
		There is no domestic hazardous waste Deposition centers established in MC Loharu.			
<b>4. Waste Transport</b>					
i)	Review existing infrastructure for waste Transport.	At MC Bhiwani there are 16 no. Auto-Tipper, 11 Tractor, 2 loader, 29 Rickshaw, 100 Hand Carts	Waste Transportation of 19 wards is done by MC Bhiwani and remaining 12 wards done by Contractor (Shree Shyam Associate & The Hansi Lov-Kush Society)	MC, Bhiwani MC, Bawani Khera MC, Siwani MC, Loharu	Activity completed
		At Municipal Committee Bawani Khera, 03 Tipper 2 Tractor Trolley	Waste Transportation is done by Municipal Committee Bawani Khera		
		At MC Siwani there are 5 Tractor trolley	Waste Transportation of 13 wards is done by MC Siwani and done		
		At MC, Loharu there are 6 tipper 2 Tractor trolleys and 4 No. of Motorized tipper	The work/ tender for collection, segregation, transportation and further processing has been allotted by MC, Loharu by M/s Balwan and		

## District Environment Plan, Bhiwani

			company.		
(ii)	Bulk Waste Trucks	Not required by any MCs	-	MC, Bhiwani MC, Bawani Khera MC, Siwani MC, Loharu	Not required by any MCs
(iii)	Waste Transfer points	In MCBhiwani 12 no. of waste transfer points	Work is performed by MC Bhiwani and Contractor of 12 wards is done by MC Bhiwani and remaining 12 wards done by Contractor( Shree Shyam Associate & The Hansi Lov-Kush Society)	MC, Bhiwani MC, Bawani Khera MC, Siwani MC, Loharu	Activity completed
		In Municipal Committee Bawani Khera 01 Waste Transfer Points	Work performed by Municipal Committee Bawani Khera		
		In MC Siwani 01 waste transfer point	None		
		In MC Loharu = No Waste transfer point			
<b>5</b>	<b>Waste Treatment and Disposal</b>				
(i)	Wet-waste Management: On-site composting by bulk waste generators (Authority may decide on requirement as per Rules)	MC Bhiwani has identified 25 Bulk waste Generators  Municipal Committee Bawani Khera has identified  MC Siwani = 0 bulk Waste generator MC Loharu = 0 bulk Waste generator	MC Bhiwani has issued notice to BWG for onsite composting and they are practicing on-site composting	MC, Bhiwani MC, Bawani Khera MC, Siwani MC, Loharu	30.09.2023
(ii)	Wet-waste Management: Facility(ies) for central Biomethanation /Composting of wet waste.	MC Bawnai Khera = 56 Compost Pits Wet waste = 43 TPD Processing = 43 TPD	MC Bhiwani is doing composting from wet waste through sanitation workers or MC Bhiwani is doing constructing more compost pits.	MC, Bhiwani MC, Bawani Khera MC, Siwani MC, Loharu	Activity completed
		MC Bawnai Khera = 10 Compost Pits Wet waste = 5 TPD Processing = 20 TPD	Municipal Committee Bawani Khera is performing composting.		31.07.2023
		MC Siwani = 4 Compost Pits Wet waste = 1 TPD Processing = 1 TPD	MC Siwani is doing composting from wet waste through sanitation workers or MC		Activity completed
		MC Loharu = 12 Compost Pits Wet waste = 3 TPD Processing = 2 TPD			31.07.2023

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(iii)	Dry-Waste Management: Material Recovery for dry-waste fraction	MC Bhiwani has 1 MRF Dry waste generation 31 TPD, processed 31 tpd.	MC Bhiwani is trying to contact third party agency for solid waste for the use of RDF for energy recovery but now all work done by MC Bhiwani and Rag pickers	MC, Bhiwani MC, Bawani Khera MC, Siwani MC, Loharu	Activity completed
		MC Bawani Khera=1 MRF Dry waste generation= 3 TPD, Processed = 0.5 TPD.	In MRF Centre, work done by ragpickers and Sanitation Workers		31.07.2023
		MC Siwani has 1 MRF Facility. Dry waste generation 3 tpd, processed 1 tpd.	MC Siwani is trying to contact third party agency for solid waste for the use of RDF for energy recovery but now all work done by MC Siwani and Rag pickers		31.07.2023
		MC Loharu =2 MRF Dry waste generation= 2.7 TPD, Processed = 2.0 TPD.	MC Siwani is trying to contact third party agency for solid waste for the use of RDF for energy recovery but now all work done by MC Siwani and Rag pickers		31.07.2023
(iv)	Disposal of inert and non- recyclable wastes: Sanitary Landfill	No sanitary landfill sites provided by any MCs	-	MC, Bhiwani MC, Bawani Khera MC, Siwani MC, Loharu	31.12.2023
			-		
			MC Siwani requirement sanitary landfill site.		
(v)	Remediation of historic/legacy dumpsite	MC Bhiwani 100 % remedial Gap = Nil	Work has been allotted to M/s BVG	MC, Bhiwani MC, Bawani Khera MC, Siwani MC, Loharu	31.12.2023
		MC Bawani Khera = 8000 MT	Tender Process		
		MC Siwani = 5200 MT	Work has been allotted to M/s DEZY Services		
		MC Loharu = NIL			
(vi)	Involvement of NGOs	MC Bhiwani = 02 NGOs identified and creating awareness	We are trying to contact with NGO.	MC, Bhiwani MC, Bawani Khera MC, Siwani MC, Loharu	Activity Completed
		MC Bawani Khera = No NGOs			
		MC Siwani = 1 NGO & creating awareness			
		MC Loharu = 1 NGO & creating awareness			

### District Environment Plan, Bhiwani

(vii)	EPR of Producers: Linkage with Producers /Brand Owners	All MCs are in the process of identification of Producers/Brand owners	Mc Bhiwani will have a meeting with them soon  Municipal Committee Bawani Khera has issued notice to Brand Owners For facilitator/management  MC Siwani and MC Loharu will have a meeting with them soon	MC, Bhiwani MC, Bawani Khera MC, Siwani MC, Loharu	Activity Completed
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(viii)	Authorization of Waste Pickers	MC Bhiwani = 30	30 No. Rag-pickers list is available in MC Bhiwani	MC, Bhiwani MC, Bawani Khera MC, Siwani MC, Loharu	Activity Completed
		MC Bawani Khera = 08	08 Nos. Rag-pickers list is available in MC Bawani Khera		
		MC Siwani = 08	8 No. Rag-pickers list is available in MC Siwani		
		MC Loharu = 06	06 No. Rag-pickers list is available in MC Loharu.		
(ix)	Preparation of own by-laws to comply with SWM Rules 2016	Yes, MC has notified the Bye- laws	No Gap	MC, Bhiwani MC, Bawani Khera MC, Siwani MC, Loharu	Activity Completed

### (II) Action Plan for Villages/Blocks:-

S. No.	Rural Local Bodies	No of Village panchayats / Blocks	No of Households	Population	Solid Waste Generated per day
1	Block /Taluk / Mandal Tehsils	7	190371	914971	179.91 TPD (945 gram per household per day)
2	Village/Gram Panchayats	(312 Gram Panchayats)			

### (III) Status and action plan for Door to Door Collection:-

Sr. No.	Name of Block	Total no. of villages in the block	Total Population of the Block	Total no. of Households in the Block	Status of door to door collection		
					No. of villages where 100% achieved	No. of villages where 100% not achieved	Target date of completion where 100% not achieved
1.	BAWANI KHERA	33	121385	22705	27	6	31.12.23

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2.	BEHAL	29	69888	13089	11	17	31.12.23
3.	BHIWANI	78	312894	72396	42	36	31.12.23
4.	KAIRU	35	86285	17987	12	23	31.12.23
5.	LOHARU	45	80655	17214	12	27	31.12.23
6.	SIWANI	37	86870	16230	36	0	31.12.23
7.	TOSHAM	55	156994	30750	1	54	31.12.23
	<b>Total</b>	<b>312</b>	<b>914971</b>	<b>190371</b>	<b>141</b>	<b>163</b>	

**IV. Status and action plan for Segregation:-**

Sr. No.	Name of Block	Total no. of villages in the block	Total Population of the Block	Total no. of Households in the Block	Status of Segregation		
					No. of villages where 100% achieved	No. of villages where 100% not achieved	Target date of completion where 100% not achieved
1.	BAWANI KHERA	33	121385	22705	27	6	31.12.23
2.	BEHAL	29	69888	13089	11	17	31.12.23
3.	BHIWANI	78	312894	72396	42	36	31.12.23
4.	KAIRU	35	86285	17987	12	23	31.12.23
5.	LOHARU	45	80655	17214	12	27	31.12.23
6.	SIWANI	37	86870	16230	36	0	31.12.23
7.	TOSHAM	55	156994	30750	1	54	31.12.23
	<b>Total</b>	<b>312</b>	<b>914971</b>	<b>190371</b>	<b>141</b>	<b>163</b>	

**V. Status and action plan for Treatment for wet waste:-**

Sr. No.	Name of Block	Total no. of villages in the block	Total Population of the Block	Total no. of Households in the Block	Status of Treatment for wet waste			
					No. of villages where 100% achieved	No. of villages where 100% not achieved	Target date of completion where 100% not achieved	Action plan for wet waste management
1.	BAWANI KHERA	33	121385	22705	27	6	31.12.23	Composting, Vermi-composting and Bio gas
2.	BEHAL	29	69888	13089	11	17	31.12.23	--do--
3.	BHIWANI	78	312894	72396	42	36	31.12.23	--do--
4.	KAIRU	35	86285	17987	12	23	31.12.23	--do--
5.	LOHARU	45	80655	17214	12	27	31.12.23	--do--
6.	SIWANI	37	86870	16230	36	0	31.12.23	--do--
7.	TOSHAM	55	156994	30750	1	54	31.12.23	--do--
	<b>Total</b>	<b>312</b>	<b>914971</b>	<b>190371</b>	<b>141</b>	<b>163</b>		

**VI. Status and action plan for Treatment for dry waste:-**

Sr. No.	Name of Block	Total no. of villages in the block	Total Population of the Block	Total no. of Households in the Block	Status of Treatment for dry waste			
					No. of villages where 100% achieved	No. of villages where 100% not achieved	Target date of completion where 100% not achieved	Action plan for dry waste management
1.	BAWANI KHERA	33	121385	22705	27	6	31.12.23	MRF facility and further Channelization of saleable material to authorized vendor
2.	BEHAL	29	69888	13089	11	17	31.12.23	--do--
3.	BHIWANI	78	312894	72396	42	36	31.12.23	--do--
4.	KAIRU	35	86285	17987	12	23	31.12.23	--do--
5.	LOHARU	45	80655	17214	12	27	31.12.23	--do--
6.	SIWANI	37	86870	16230	36	0	31.12.23	--do--
7.	TOSHAM	55	156994	30750	1	54	31.12.23	--do--
	<b>Total</b>	<b>312</b>	<b>914971</b>	<b>190371</b>	<b>141</b>	<b>163</b>		

**(ii) Plastic waste Management**

**(a) Current status related to Plastic waste management**

S No.	Urban Local bodies	Estimated quantity of Plastic Waste Generated per day
1	Municipal Council Bhiwani	5TPD
2	Municipal Council Bawani Khera	0.2 TPD
3	Municipal Committee, Loharu	0.02TPD
4	Municipal Committee Siwani	0.02 TPD

	Rural Local bodies	Plastic Waste Generated per day
1	Block /Taluk / Mandal	1.31 TPD(0.57 gram per household per day)
2	Village/Gram Panchayats-	1.31 TPD(0.57 gram per household per day)

**(b) Identification of gaps and Action plan:**

**(I) Action Plan for Town Municipalities / City/ Corporations**

S. No.	Action points For village panchayats/ blocks/ municipalities / corporations	Identification of gap	Action plan	Agencies Responsible	Target time for Compliance
1.	Door to Door collection of dry waste including PW	<b>Compliance</b> 100% collection achieved in MC Bhiwani. <b>GAP= NIL</b>	19 wards work done by MC Bhiwani and remain 12 wards work done by Contractor (Shree Shayam Associates & The Hansi Lov-Kush Society)	MC Bhiwani MC Bawani Khera, MC Siwani, MC Loharu	It's Regular Activity
		<b>Compliance</b> 100% collection achieved in MC Bawani Khera. <b>GAP= NIL</b>	100% Achieved		
		<b>Compliance</b> 100% collection achieved in MC Siwani. <b>GAP= NIL</b>	13 wards work done by MC Siwani and work done by Contractor The Brahmanand Coop L/C Society Ltd.)		
		<b>Compliance</b> 100% collection achieved in MC Loharu <b>GAP= NIL</b>	The work/ tender for collection, segregation, transportation and further processing has been allotted by MC, Loharu		
2.	Facilitate organised collection of PW at Waste transfer point or Material Recovery Facility	MC Bhiwani = 11	All MC have giving contract to private contractor M/s Shri Sham Associates for collection, transportation and processing of PW	MC Bhiwani MC Bawani Khera, MC Siwani, MC Loharu	Activity completed
		MC Bawani Khera = 5			
		MC Siwani = 5			
		MC Loharu = 2			



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3.	PW collection Centers	MC Bhiwani = 01 MRF MC Bawani Khera = 01 MC Siwnai= 01 MC Loharu = 02	No action plan required	MC Bhiwani MC Bawani Khera, MC Siwani, MC Loharu	Activity completed
4.	Awareness and education programs implementation	<p>Regular Awareness programmes in schools, Colleges, BWGs, Public, RWA Societies, MC Bhiwani</p> <p>Municipal Committee Bawani Khera, MC Siwani and Loharu organizes regular awareness programs in among the school colleges, BWG and public</p> <p>Regular Awareness programmes in schools, Colleges, BWGs, Public, RWA Societies</p>	Education through mass media, schools, Producer/brand owner Campaigns and Other channels Will be conducted	MC Bhiwani MC Bawani Khera, MC Siwani, MC Loharu	It's a regular activity

## District Environment Plan, Bhiwani

5.	Access to Plastic Waste Disposal Facilities	All MCs have engaged private agency for collection, transportation and processing of Solid waste, plastic waste collected at MRF sites is solid to recyclers	MC Bhiwani MC Bawani Khera, MC Siwani, MC Loharu	Activity Completed
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### II. Status and action plan for Door to Door Collection:-

Sr. No.	Name of Block	Total no. of villages in the block	Total Population of the Block	Total no. of Households in the Block	Status of door to door collection		
					No. of villages where 100% achieved	No. of villages where 100% not achieved	Target date of completion where 100% not achieved
1.	BAWANI KHERA	33	121385	22705	27	6	31.12.23
2.	BEHAL	29	69888	13089	11	17	31.12.23
3.	BHIWANI	78	312894	72396	42	36	31.12.23
4.	KAIRU	35	86285	17987	12	23	31.12.23
5.	LOHARU	45	80655	17214	12	27	31.12.23
6.	SIWANI	37	86870	16230	36	0	31.12.23
7.	TOSHAM	55	156994	30750	1	54	31.12.23
	<b>Total</b>	<b>312</b>	<b>914971</b>	<b>190371</b>	<b>141</b>	<b>163</b>	

### III. Status and action plan for Segregation and channelization:-

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Sr. No.	Name of Block	Total no. of villages in the block	Total Population of the Block	Total no. of Households in the Block	Status of Segregation			Channelization of collected plastic waste
					No. of villages where 100% achieved	No. of villages where 100% not achieved	Target date of completion where 100% not achieved	
1.	BAWANI KHERA	33	121385	22705	27	6	31.12.23	Through the authorized vendor i.e. M/s Singla Plastic Industries, D-313, Focal Point, Patiala (Punjab)
2.	BEHAL	29	69888	13089	11	17	31.12.23	---do--
3.	BHIWANI	78	312894	72396	42	36	31.12.23	---do--
4.	KAIRU	35	86285	17987	12	23	31.12.23	---do--
5.	LOHARU	45	80655	17214	12	27	31.12.23	---do--
6.	SIWANI	37	86870	16230	36	0	31.12.23	---do--
7.	TOSHAM	55	156994	30750	1	54	31.12.23	---do--
	<b>Total</b>	<b>312</b>	<b>914971</b>	<b>190371</b>	<b>141</b>	<b>163</b>		

**(iii) C & D Waste Management**

**a. Current status related to C & D Waste**

Details of Data Requirement	Present Status			
Total C & D waste generation in MT per day (As per data from Municipal Corporations / Municipalities)	MC, Bhiwani	MC, Bawani Khera	MC, Siwani	MC Loharu
	5 TPD	1	0.6	0.5
Does the District has access to C&D waste recycling facility?	No			

**b. Identification of gaps and Action plan:**

S. No.	Action points for blocks / town municipalities / City corporations	Identification of Gaps	Action Plan	Responsible agency	Timeline for completion of action plan

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1	Arrangement for separate collection of C&D waste to C&D waste deposition point.	MC Bhiwani has one Separate collection site	One Tractor Trolley has been Provided for Collection and Transportation for C&D Waste .No Disposal and Processing facility provided	MC Bhiwani, MC Bawani Khera, MC Siwnai, MC Loharu	It's and regular activity
		Municipal Committee Bawani Khera has 1 separate collection site , No Gap	Tractor has been provided for collection and transportation for C&D Waste. No processing and disposal facility provided.		
		MC Siwani has one Separate collection site	One Tractor Trolley has been Provided for Collection and Transportation for C&DWaste. No Disposal and Processing facility provided		
		MC Loharu has one separate collection site.			
2.	Whether local authority have fixed user fee on C&D waste and introduced permission system for bulk waste generators who generate more than 20 tons or more in one day or 300 tons per project in a month?	User fee @ Rs. 500/- per tractor trolley has been prescribed by all MCs		MC Bhiwani, MC Bawani Khera, MC Siwnai, MC Loharu	Activity completed
3.	C&D recycling Facility	Common C&D Waste recycling facility shall be provided by all MCs at Bhiwani	Presently the C&D waste is being used for filling the low lying areas and there is hardly left over for processing. However, for future the necessary action for setting up of recycling plan will be taken up at the right time.	MC Bhiwani, MC Bawani Khera, MC Siwnai, MC Loharu	31.12.2023
4.	Usage of recycled C&D waste in non-structural concrete, paving blocks, lower layers of road pavements, colony and rural roads	As and when Common C&D Waste recycling facility established & recycler C&D waste shall be used accordingly	-	MC Bhiwani, MC Bawani Khera, MC Siwnai, MC Loharu	
5.	ICE on C & D waste management	Presently No Awareness Activity on C&D Waste.	Periodic educational and awareness programme will be Conducted  Educational and awareness programme will be conducted.	MC Bhiwani, MC Bawani Khera, MC Siwnai, MC Loharu	Monthly

### (iv) Biomedical Waste Management

#### a. Current Status related to biomedical waste

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In District Bhiwani, total 204 nos. Health Care Facilities (HCF's) are operational including bedded and non bedded facilities. From these HCF's total approx. 222 kg/day Bio Medical Waste is being generated. In the State total 11 nos. of Common Bio Medical Waste Treatment Facilities (CBMWTF) are operational to cater out the need of safe transportation, treatment and disposal of bio medical waste generated in the State.

The bio medical waste generated in District Bhiwani is transported, treated and disposed of through the Common facility M/s Maruti Bio Medical Waste Plant, Bhiwani. The said facility have obtained the desired authorization under BMWM Rules and also obtained the desired Consent to Operate as per requirement of Water Act 1974 and Air Act 1981. The common facility is having the updated and required machinery i.e. Incinerator of 100 Kg per hour capacity, Autoclave of 30 Kg per batch and Shredder of 100 Kg per hour capacity for disposal of said bio medical waste generated.

Inventory of BMW in the District	Quantity
Total no. of Bedded Healthcare Facilities	129
Total no. of non-bedded HCF	45
No. of HCFs authorized by SPCBs/PCCs	174
No of Common Biomedical Waste Treatment and Disposal Facilities (CBWTFs)	01 M/s Maruti Bio Medical Waste Planta, Hetampura, Bhiwani
Capacity of CBWTFs	Incinerator of 100 Kg per hour capacity, Autoclave of 30Kg per batch and Shredder of 100 Kg per hour capacity
No. of Deep burials for BMW if any	Nil
Quantity of biomedical waste generated per day	230 kg/day
Quantity of biomedical waste treated per day	230 kg/day

### b. Identification of gaps and Action plan:

S. No.	Action points	Gaps	Action Plan	Responsible agency	Timeline for completion of action plan
1.	Inventory and Identification of Healthcare Facilities BMWM Rules, 2016.	NO GAP & 100% complying	Identification of :- <ul style="list-style-type: none"> <li>• Number of bedded and non-bedded Government and Private Health Care Facilities in the Districts</li> <li>• Number of Blood Banks, Clinical labs in the Districts</li> <li>• Veterinary Institution &amp; Animal Husbandry</li> </ul>	<ul style="list-style-type: none"> <li>• Health Department</li> <li>• HSPCB Animal Husbandry and Dairying, Deptt.</li> </ul>	The Inventorization of HCFs already done and further it is an on Going process/activity

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			<ul style="list-style-type: none"> <li>List of Medical Institution Forensic Labs &amp; RD labs, etc.,</li> </ul>		
2.	Adequacy of facilities to treat biomedical waste	There is no Gap as existing Common facility <b>M/s Maruti Bio Medical Waste Plant, Hetampura, Bhiwani</b> is having adequate infrastructure and capacity for transportation ,treatment and disposal of Approx. 222 kg/day Bio Medical Waste is being generated from existing HCF's of Distt. Bhiwani.	<ul style="list-style-type: none"> <li>Setting up of a new Common Bio Medical Waste Treatment Facility (CBWTF) consisting of Incinerator having residence time of 2 seconds, shredder with autoclaving facility, sanitary landfills, ash pit in the district.</li> <li>Phasing-out the use of chlorinated plastic bags.</li> <li>To avoid deep burial and open littering of BMW.</li> </ul>	<ul style="list-style-type: none"> <li>HSPCB</li> <li>Deptt. Of Environment &amp; Climate Change, Govt . Of Haryana</li> <li>Health Department</li> <li>CBWTF</li> </ul>	The existing facility and infrastructure is adequate enough with having optimum capacity to cater out the need for safe disposal of BMW Generated throughout the district. Rest as per plan approved by State Government and consideration of Central Pollution Control Board guidelines for setting up of CBMWTFs, no fresh CBWTF can be established.
3.	Tracking of BMW	Bar coding system has implemented by <b>216 HCFs out of 255 HCFs &amp;</b> adopted by HCFs and operational throughout the district.	<ul style="list-style-type: none"> <li>Every HCF shall be enforcing to adopt bar-coding system for the purpose of monitoring and tracking of BMW generated and its safe transportation and disposal to CBWTF.</li> <li>Ensuring Bar Coding &amp; Segregation at Source system adopted for Yellow, red, White and Blue containers with quantification of waste.</li> <li>To verify the number of dedicated collection</li> </ul>	<ul style="list-style-type: none"> <li>HSPCB</li> <li>HCF</li> <li>CBWTF</li> </ul>	30.09.2023

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4.	Awareness and education of healthcare staff	Regular training and awareness programs are being and need to be conducted for healthcare staff dealing with Bio- Medical Waste in association with Health Department in existing HCF's.	No gap	<ul style="list-style-type: none"> <li>• Health Department</li> <li>• HSPCB</li> <li>• Animal Husbandry and Dairying, Deptt.</li> </ul>	The training to health care workers is a on- going process and health camps on quarterly basis will be organized for training/sensitization and immunization will be carried out on quarterly basis.
5.	Adequacy of funds	Adequate funds have been allocated to Government health care facilities for bio-medical waste management by State Govt.	No Gap	<ul style="list-style-type: none"> <li>• Health Department</li> <li>• Animal Husbandry and Dairying, Deptt.</li> </ul>	No Gap
6.	Compliance to Rules by HCFs and CBWTFs	<ul style="list-style-type: none"> <li>• To ensure that all the HCF existing and operating in the district should obtained prior Authorization under BMW Rules 2016 and Consent to Establish and Consent to Operate under Water (P &amp;CP) Act, 1974 and under Air (P&amp;CP) Act, 1981 as per the coverage of the HCF in consent</li> </ul>	<ul style="list-style-type: none"> <li>• The random monthly mandatory inspections of the HCFs as allotted centrally by the Head office of HSPCB are being carried out.</li> <li>• The quarterly inspection of the CBWTFs is being carried out regularly.</li> <li>• To verify the operation of GPS in each of the dedicated vehicles and functioning of the tracking system in the</li> </ul>	<ul style="list-style-type: none"> <li>• Health Department</li> <li>• HSPCB</li> </ul>	<ul style="list-style-type: none"> <li>• The authorization for all the HCFs will be reviewed and granted All the HCF requiring CTO will be covered under the ambit of Consent Management within 01 year.</li> <li>• Random monthly monitoring of HCFs as</li> </ul>
7.	District Level Monitoring Committee	The State Level Advisory Committee has already been constituted in the State for implementation of BMWM Rules, 2016.	The District Level Monitoring Committee comprising Chief Medical Officer, RO, HSPCB Bhiwani Region, E.E Public Health, E.E Representative of common bio-medical waste treatment facility under the Chairmanship of Deputy Commissioner, Bhiwani	<ul style="list-style-type: none"> <li>• Health Department</li> <li>• HSPCB</li> <li>• Animal Husbandry and Dairying, Deptt.</li> </ul>	To Conduct meeting of the District Level Monitoring Committee in a fixed interval.

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<p>8.</p>	<p>Wastewater treatment</p>	<p>Channelization and treatment of domestic effluent generating from HCF existing within MC area at terminal treatment facility installed by PHED for achievement of effluent discharge standards laid down Environment Protection Rules, 1986.</p> <ul style="list-style-type: none"> <li>• All the HCFs which are not connected with such common treatment facilities via. Public sewer need to install individual stand alone effluent treatment plant</li> </ul>	<p>Pre-treatment of the laboratory waste, microbiological waste, blood samples and blood bags through disinfection or sterilization on-site in the manner as prescribed by WHO or NACO.</p> <ul style="list-style-type: none"> <li>• All the bedded HCF which are generating waste bio medical effluent shall be enforcing to install Pre-treatment/ Neutralization facility and to obtain valid Public Sewer connection for Channelization and terminal treatment of domestic effluent generating from</li> <li>• HCF.</li> </ul>	<ul style="list-style-type: none"> <li>• HSPCB</li> <li>• PHED</li> <li>• HCF's</li> </ul>	<ul style="list-style-type: none"> <li>• The PHED within the MCs area is treating the domestic effluent along with disinfected bio medical waste effluent generated from various HCFs in their terminal treatment facility installed. The HCFs which are not connected with such common treatment facilities via. Public sewer will install individual stand alone effluent treatment plant</li> </ul> <p>31.12.2023</p>
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**(v) Hazardous Waste Management****a. Current Status related to Hazardous Waste Management**

There are approximate 683 large/medium/small scale industries existing in District Bhiwani and out of which 49 no. of industries are generating hazardous waste

<b>Details of Data Requirement</b>	<b>Present Status</b>
No of Industries generating HW	34
Quantity of HW in the district	61.48 MT/Annum
(i) Quantity of Incinerable HW	0
(ii) Quantity of land-fillable HW	44.62 MT/Annum
(iii) Quantity of Recyclable / utilizable HW	4.31 MT/Annum
No of captive/common TSDF	NIL
Contaminated Sites or probable contaminated sites	NIL

The detail of such Industries of District Bhiwani generating Hazardous waste and having obtained authorization under the provisions of HoWM Rules, 2016 from HSPCB are as follows:-

<b>Categories</b>	<b>Numbers of Industries</b>
Red	01
Orange	33
Green	0
<b>Total</b>	<b>34</b>

**b. Identification of gaps and action plan:**

<b>S. No.</b>	<b>Action points</b>	<b>Identification of Gaps</b>	<b>Action Plan</b>	<b>Responsible agency</b>	<b>Timeline for completion of action plan</b>
1.	Regulation of industries and facilities generating Hazardous Waste	<ul style="list-style-type: none"> <li>All the industries which are generating hazardous waste have made agreement either with the GEPIL or with the authorized recycler/utilization/actual user facilities authorized by HSPCB operating</li> </ul>	<ul style="list-style-type: none"> <li>Identification of Number of units generating hazardous waste in the District</li> <li>Safe storage and handling of hazardous waste generated</li> <li>Channelization and safe transportation of hazardous waste</li> </ul>	<ul style="list-style-type: none"> <li>HSPCB</li> <li>DIC</li> </ul>	<ul style="list-style-type: none"> <li>The Inventorization of hazardous waste generating units already done and the same is ongoing Process/activity</li> <li>The inventory of all waste/used oil generators will be completed within 01 year.</li> <li>The authorization</li> </ul>

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		<p>throughout the State for transportation, treatment and disposal of hazardous and other waste generated.</p> <ul style="list-style-type: none"> <li>• These industries are not filling annual returns regularly as per Form 3 &amp; Form 4 of HoWM Rules, 2016 with HSPCB.</li> <li>• The random monthly mandatory inspections of the hazardous waste generating units as allotted centrally by the Head office of HSPCB need to be conducted.</li> </ul>	<p>to the disposal facility/recycler</p> <ul style="list-style-type: none"> <li>• Inventory of Common Hazardous Waste Treatment and Disposal facility and authorized recycler</li> <li>• Enforcing the industries for filing of annual returns as per Form 3 &amp; Form 4 of HoWM Rules, 2016.</li> </ul> <p>To ensure that all the industries generating hazardous waste existing and operating in the district should obtain prior Authorization under HoWM Rules 2016 and Consent to Establish and Consent to Operate under</p>		<p>for hazardous waste generating units will be reviewed and granted within 06 month time.</p> <ul style="list-style-type: none"> <li>• The status of CTO to hazardous waste generating units requiring CTO will be reviewed and covered under the ambit of Consent Management within 01 year.</li> <li>• The execution of agreement by the various hazardous waste units with GEPIL or a recycler /utilize facility will be</li> </ul>
2.	Establishment of collection centers	No such dedicated collection centre is available and required in the district as Haz. Waste is stored temporarily within the premises of unit generating itself in a separate leachate proof hazardous waste storage room.	No gap, as all the units which are generating hazardous waste and having agreement with common TSDF are in easy and direct approach of dedicated transporting vehicles of service provider and hence linked to Common TSDFs.	<ul style="list-style-type: none"> <li>• HSPCB</li> <li>• ICHWT SDF</li> </ul>	NA
3.	Training of workers involved in handling / recycling / disposal of HW	Training need to be conducted.	<p>Training programmes shall be conducted to train the workers on safety aspects who are working in facilities /Industries engaged in handling/ recycling/pre-processing of hazardous waste in association with Department of Industries as per provisions under HOWM Rules, 2016</p>	<ul style="list-style-type: none"> <li>• HSPCB</li> <li>• DIC</li> </ul>	Training programmes shall be conducted within 06 months.

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4.	Availability / Linkage with common TSDF or disposal facility	No gap, as all the units which are generating hazardous waste and having agreement with common TSDF are in easy and direct access of dedicated transporting vehicles of service provider and hence linked to Common TSDFs.	No Gap	<ul style="list-style-type: none"> <li>• HSPC B</li> <li>• GEPIL</li> </ul>	No Timeline is required to be set.
5.	Contaminated Sites	No Contaminated Site available within the district.	No Gap	<ul style="list-style-type: none"> <li>• HSPC B</li> </ul>	No Timeline is required to be set.

**(vi) E-Waste Management**

**a. Current Status related to E-Waste Management**

In Bhiwani District presently there is no manufacturer and producer of E-waste.

Details of Data Requirement	Present Status
Inventory of E-Waste in MT/year	MT/Year
Collection centers established by ULBs in the District	01 ( collected by MC Bhiwani from households while door to door solid waste )
Collection centers established by Producers or their PROs	0
No. of authorized E-Waste recyclers / Dismantler	0

**b. Identification of gaps and action plan:**

S. No.	Action points	Gaps in implementation	Action Plan	Responsible agency	Timeline for completion of action plan
1	Inventory/Generation of E-Waste/ Bulk-waste generators	Inventorization of bulk waste generators of E-Waste need to be done for implementation of E-Waste Rules, 2016.	<ul style="list-style-type: none"> <li>• Inventorization of bulk waste generators shall be done with the help of local administration and Municipal Corporation, Bhiwani.</li> </ul>	<ul style="list-style-type: none"> <li>• MC, Bhiwani</li> <li>• MC Bawani Khera</li> <li>• MC Siwani</li> <li>• MC Loharu</li> </ul>	<ul style="list-style-type: none"> <li>• Inventorization of bulk waste generators shall be completed 30.09.2023</li> <li>• Channeliz</li> </ul>

District Environment Plan, Bhiwani

			<ul style="list-style-type: none"> <li>Channelization of E-waste to registered recycler/dismantler / re-furbisher</li> </ul>		<p>ation of E-waste to registered recycler/dismantler/refurbisher shall be completed by 31.12.2023</p>
2	E-Waste collection points	<p>01 E-waste collection centre has been established by each MC at MRF site</p> <p>Dedicated E-waste collection centre has been established by each MCs at MRF site.</p>	<p>Installation of E-Waste collection points/centers in villages - Blocks/towns /cities in association with District administration Producers their PROs or Recyclers.</p> <p>Installation of E-Waste collection points/centers in remaining 03 no. of MCs need to be done by respective MCs</p>	MC, Bhiwani	30.09.2023
3	Linkage among Stakeholders to channelize E-Waste	<p>District administration need to collect information on collection centers established by Producers /PROs. Administration need also to identify authorized E- Waste recyclers in the district or in State to channelize E-waste collected in District.</p>	<ul style="list-style-type: none"> <li>To collect information about collection centers with the help of local administration, MC, Bhiwani and Producers/PROs and further linkage with registered E-Waste recycler/dismantler/refurbisher for channelization of E-Waste.</li> </ul>	<ul style="list-style-type: none"> <li>MC, Bhiwani</li> </ul>	-
4	Regulation of Illegal E- Waste recycling / dismantling	<p>There is no such Illegal E- Waste recycling / dismantling facilities existing in district Bhiwani.</p>	<p>No Gap, however regular vigil is being taken for such activities.</p>	<ul style="list-style-type: none"> <li>MC, Bhiwani</li> </ul>	<ul style="list-style-type: none"> <li>Regular checking/ inspection of field in association with stakeholders.</li> </ul>

### District Environment Plan, Bhiwani

5	Integration of informal sector	No informal sector exists in any MCs	-	-	-
6	Awareness and Education	Are there any programs at district level for awareness about E- waste management?	Plan special workshops and awareness campaigns through Producers / PROs		

### 3. Air Quality Management

The major source of air pollution in district Bhiwani is Suspended Particulate Matter. Particulate Matter is a complex mixture that may contain soot, smoke, metals, nitrates, sulfates, dust, water and tire rubber. It can be directly emitted, as in smoke from a fire, or it can form in the atmosphere from reactions of gases such as nitrogen oxides. The size of particles is directly linked to their potential for causing health problems. Small particles (known as PM2.5 or fine particulate matter) pose the greatest problems because they bypass the body's natural defenses and can get deep into your lungs and potentially your bloodstream. Exposure to such particles can affect both your lungs and your heart.

Long-term exposure to particulate pollution can result in significant health problems including:

- Increased respiratory symptoms, such as irritation of the airways, coughing or difficulty breathing
- Decreased lung function
- Aggravated asthma
- Development of chronic respiratory disease in children
- Development of chronic bronchitis or chronic obstructive lung disease
- Irregular heartbeat
- Nonfatal heart attacks
- Premature death in people with heart or lung disease, including death from lung cancer

There are 683 no. of industrial unit are covered under the category of Red/Orange/Green as per categorization prescribed by Central Pollution Control Board. Further, out of these 683 no. of units, 668 no. of industries in the district are Air Polluting by mean of either they have installed Boiler/Furnace/Bhatti/Brick Kilns/Stone Crushers/HMP/Mining etc.

There are the major air pollution in the district Bhiwani is because of the stone crushers in the district which are substantially contributing in the air pollution.. One of the another cause of air pollution in the area is stubble burning in crop harvesting season specially in Paddy and Wheat harvesting season. In the district the paddy is cultivated in the area and wheat is cultivated in the area of \_ Hectare.

In the district 189 no. of industries are air polluting which mainly includes the brick kilns, stone crusher, mining etc. All the units had installed the Air Pollution Control Devices such as Multicyclone/cyclone/Wet Scrubbers/ Separators.

.The detail of such Industries emitting air pollutants, having obtained consent to operate under Air Act 1981 from HSPCB is given as follows:-

Categories	Numbers of Industries
Red	10
Orange	448
Green	59
<b>Total</b>	<b>517</b>

**a. Current Status related to Air Quality Management**

Details of Data Requirement	Present Status		
Number of Automatic Air Quality monitoring stations (CAAQMS)in the district. - Operated by SPCB / State Govt / Central govt./ PSU agency : - Operated by Industry:	One  OneZero		
Number of manual monitoring States operated by SPCBs	NIL		
Name of towns / cities which are failing to comply with national ambient air quality stations	Bhiwani		
No of air pollution industries	517		
Prominent air polluting sources [Large Industry] / [Small Industry] / [Unpaved Roads] / [Burning of Waste Stubble] / [Brick Kiln] / [Industrial Estate] / [Others] (Multiple selection)	In the District there are 01 industrial estates:- I. Industrial Area, Bhiwani  Moreover, the major air polluting sectors in the District are as under:-		
	<table border="1"> <thead> <tr> <th>Sector</th> <th>No. Of Industries</th> </tr> </thead> <tbody> </tbody> </table>	Sector	No. Of Industries
Sector	No. Of Industries		

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Plastic Unit	92
CR Coil	04
Lead	0
Plywood	01
Stone Crusher	182
Mining	01
Brick Kiln	119

**b. Identification of gaps and action plan:**

S. No.	Action points	Indicative Action Plan	Responsible agency	Timeline for completion of action plan
1.	Identification of prominent air polluting sources?	Air polluting industries mainly includes the brick kilns, stone crusher, thermal power plant, sand mining etc. All the units had installed the Air Pollution Control Devices such as Multicyclone/ cyclone/Wet Scrubbers/ Separators.  MC Bhiwani:- Carry out inventory of air pollution sources in District including hot spots or areas of concern pertaining to air pollution in association With SPCBs/PCCs may	HSPCB, MCs	No gap
2.	Ambient Air quality data?	Plan to get access to available air quality monitoring stations in the District operated by both Public and private agencies.	MCs	-
3.	Setting up of Continuous Ambient Air Quality Monitoring Station	01 No. Continuous Ambient Air Quality Monitoring Station has been installed at DC office, Bhiwani	HSPCB	Activity Completed
4.	Awareness on Air Quality	Regularly awareness activity done by MCs and HSPCB regarding improve the Air Quality System	HSPCB MCs	Activity Completed

#### 4. Water Quality Management

##### 4.1 Water Quality Monitoring

##### a. Current Status related to Water Quality Management

Details of Data Requirement	Present Status
Rivers	No river falls under the jurisdiction of Bhiwani Region
Length of Coastline (if any)	NA
Nalas/ Drains/Creeks meeting Rivers	There are 35 Nos. Drain under the jurisdiction of this Circle out of which Bhiwani Ghaggar Drain, Tosham Drain, and Saiman Dhanana Link Drain, Mithathal Ghuskani Link Drain.
Lakes / Ponds	There are total 155 Nos. ponds.
Total Quantity of sewage from towns and cities in District	NA
Quantity of industrial wastewater	NA
Percentage of untreated sewage	NA
Details of bore wells and number of permissions given for extraction of groundwater	NA
Groundwater polluted areas if any	NA
Polluted river stretches if any	NA



**b. Identification of gaps and action plan for water quality monitoring:**

S. No.	Action points	Gaps and Action Plan	Responsible agency	Timeline for completion of action plan
1.	Inventory of water bodies	1 No. water body of wetland of village Talu identified	Irrigation & W/R Deptt, Pond Authority and Public Health Engineering Department	Activity Completed
2.	Quality of water bodies in the district	The District Environment Monitoring Committee(DEMC) has been constituted in the District Bhiwani and monitoring of water body has been started	DEMC	Regular Activity

**4.2 Domestic Sewage**

The sewage management in the district is entrusted to Public Health Engineering Deptt. as on date PHED has installed and operating 09 no. STPs in District Bhiwani having total installed.

Sr. No.	Capacity & Address of STP	Discharge Standards achieved (mg/ltr)	Remarks
1	10 MLD STP Dhana Road , Bhiwani by PHED in 16.6.2013- MBBR Up-gradation under process	pH 6.5-9.0 BOD-30 COD-250 TSS- 100 Total Nitrogen -10	31.12.2023
2	10 MLD STP Dhana Road , Bhiwani by PHED in 24.3.2014 Up-gradation under process	-do-	31.12.2023
3	4.5 MLD STP Bawani Khera by PHED in 31.12.2015 Up-gradation under process	-do-	31.12.2023
4	3 MLD STP Tosham dt. Bhiwani by PHED on 01.07.2014	-do-	Operational and achieving parameters
5	4 MLD STP Siwani Bhiwani by PHED in 9.9.2014 Up-gradation under process	-do-	31.12.2023
6	15 MLD Phase-I, Bhiwani by PHED in 1.10.2013	-do-	Operational and achieving parameters

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7	15 MLD Phase-II, Bhiwani by PHED in 1.6.2014	-do-	Operational and achieving parameters
8	3.5 MLD STP Loharu Bhiwani by PHED in 30.11.2015 Up-gradation under process	-do-	31.12.2023
9	10 MLD Bhiwani by HSVP in 1.1.2015	-do-	Operational and achieving parameters

**a. Identification of gaps and action plan for treatment of domestic sewage:**

**1) Rural/Villages/Block**

Sr No.	Name of Block	Total no. of villages in the block	Total Population of the Block	Total no. of House holds in the Block	Liquid Waste Generation (MLD)	Status of Liquid waste Treatment and target date			Action Plan
						No. of villages where 100% achieved	No. of villages where 100% not-achieved	Target date of completion where 100% not achieved	
1.	BAWANI KHERA	33	121385	22705	8.49	4	29	31.12.23	Seenchew al Model/5 Pond/3 Pond/Wet Land/ Soakpits
2.	BEHAL	29	69888	13089	4.89	1	27	31.12.23	--Do--
3.	BHIWANI	78	312894	72396	21.88	8	70	31.12.23	--Do--
4.	KAIRU	35	86285	17987	6.03	4	31	31.12.23	--Do--
5.	LOHARU	45	80655	17214	5.64	0	39	31.12.23	--Do--
6.	SIWANI	37	86870	16230	6.08	5	31	31.12.23	--Do--
7.	TOSHAM	55	156994	30750	10.98	10	45	31.12.23	
	<b>Total</b>	<b>312</b>	<b>914971</b>	<b>190371</b>	<b>63.99</b>	<b>32</b>	<b>272</b>		

## 5.0 Industrial wastewater management

### a. Current Status related to Industrial Wastewater Management

Number of Red, Orange, Green and White industries in the District	Categories	Numbers of Industries
	Red	02
	Orange	36
	Green	02
	<b>Total</b>	<b>40</b>
No of Industries discharging wastewater	40	
Total Quantity of industrial wastewater generated	0.5707	
Quantity of treated industrial wastewater discharged into Nalas / Rivers	0	
Common Effluent Treatment Facilities	0	
No of Industries meeting Standards	40	
No of Industries not meeting discharge Standards	0	

### b. Identification of gaps and action plan for industrial wastewater:

S. No.	Action points	Gaps and Action Plan	Responsible agency	Timeline for completion of action plan
1.	Compliance to discharge norms by Industries	All the water polluting industries meeting the discharge standards	HSPCB	Regular monitoring action.
2.	Complaint redressal system	CM Grievances Redressal and Monitoring System, Haryana is available for lodging any public complaint. Moreover Social Media Grievance track (SMGT) is also working in the District. District Public Relation and Grievance Redressal Committee is also working on public grievances.	HSPCB	Regular activity.

**6.0 Mining Activity Management plan****a. Detail of Mining unit**

Sr No	Name of Mining Unit/Block	Lease Area (in Hect.)	Total Lease Tern (Years)	Date of LOI	Date of EC	Date of Startof Mining
1	HSI IDC Panchkula Village KHANAK, Tehsil Tosham Distt Bhiwani	258.30	20 years	19.06.2015	06.05.2015	2015
2	Govardhan Mines And Minerals Dadam, Khanak, Bhiwani (Old Name Sunder Marketing Associate)	48.87	10 Years	Lying closed		

**b. Current Status related to Mining Activity Management**

Details of Data Requirement	Existing Mining operations
Type of Mining Activity	Stone Mining
No of licenced Mining operations in the District	02
% Area covered under mining in the District	307.17
Area of Sand Mining	NA
Area of sand Mining	NA

**c. Identification of gaps and action plan:**

S. No.	Action points	Gaps and Action Plan	Responsible agency	Timelinefor completion of action plan
1.	Monitorin g of ining activity	Special Enforcement team. District Level Task Force Committee (DLTFC) Geo fencing around sand mining sites.	Mining Deptt.	-
2.	Inventory of illegal mining if any mining	No illegal mining unit in the Bhiwani District	Mining Deptt.	Regular activity.
3.	Environment compliance by Mining industry	The EC conditions proposed on the mining activities in district are being inspected by MoEF/SEIAA, HSPCB and Mining Deptt. Moreover 06 monthly compliance report of EC conditions is being taken from the mines.	MoEF & CC SEIAA, HSPCB Mining Deptt.	Regular activity.

## 7.0 Noise Pollution Management plan

### a. Current Status related to Noise Pollution Management

Details of Data Requirement	Measurable Outcome
No. of noise measuring devices available with various agencies in district	01 with HSPCB

### b. Identification of gaps and action plan:

S. No.	Action points	Gaps and Action Plan	Responsible agency	Timeline for completion of action plan
1.	Availability of Sound/Noise Level Meters.	There is only 01 noise monitoring kit available in the district with HSPCB. Further no such monitoring kits are available with other agencies such as ULBs, SHOs, Traffic police  MC Bhiwani Need to check whether concerned agencies that is ULBs, SHOs, Traffic police and SPCB/PCC have noise level meters. District administration may ensure through an action plan that concerned agencies and environmental cell under district administration have adequate number of portable Noise level meters.	-	31.12.2023
2.	Ambient Noise Level monitoring.	Possibilities of installation of ambient noise level monitoring stations will be explored. The special drives for ensuring the ambient quality standards will be carried out in the residential, sensitive zones. Moreover, HSPCB also conducting the ambient air noise monitoring during festive seasons.	DSP Traffic, SDM, HSPCB	Regular Activity
3.	Sign boards in Noise zones	MCs, PWD, NHAI should install the proper signages to earmarked the silence zone, no horn zone and noise limits in the city.	MCs	-
4.	Complaint redressing system	CM Grievances Redressal and Monitoring System, Haryana is available for lodging any public complaint. Moreover Social Media Grievance track (SMGT) is also working in the District. District Public Relation and Grievance Redressal Committee is also working on public grievances.	DSP Traffic, SDM, HSPCB	Regular activity.