

**Haryana State Pollution Control Board**  
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No. HSPCB/SR/2023/ 731

Dated: 21/06/2023

To  
The Member Secretary,  
Haryana State Pollution Control Board,  
Panchkula.

**Sub: District Environment Plan in OA No. 360 of 2018.**

In this regard, please find enclosed herewith copy of updated District Environment Plan of Sonipat duly signed by the Dputy Commissioner, Sonipat.

In view of above, it is requested that updated District Environment Plant of Sonipat may be uploaded of website of the Board, please.

DA/ copy of approval alongwith DEP.

Regional Officer  
Sonipat Region

*Ben*

From

Regional Officer,  
Haryana State Pollution Control Board,  
Sonipat Region.

To

The Deputy Commissioner,  
Sonipat.


**Sub. District Environment Plan in OA No. 360 of 2018.**

Please find enclosed herewith the District Environment Plan prepared after obtaining information from stake holders department in the template received from CPCB.

You are requested to approve the same for further submission to higher authority, please.



**Worthy Deputy Commissioner, Sonipat.**

  
Regional Officer,  
Sonipat Region.

# **District Environment Plan**

**District Sonipat  
(Haryana)**

**District Administration**

**&**

**Haryana Pollution Control Board at Sonipat**

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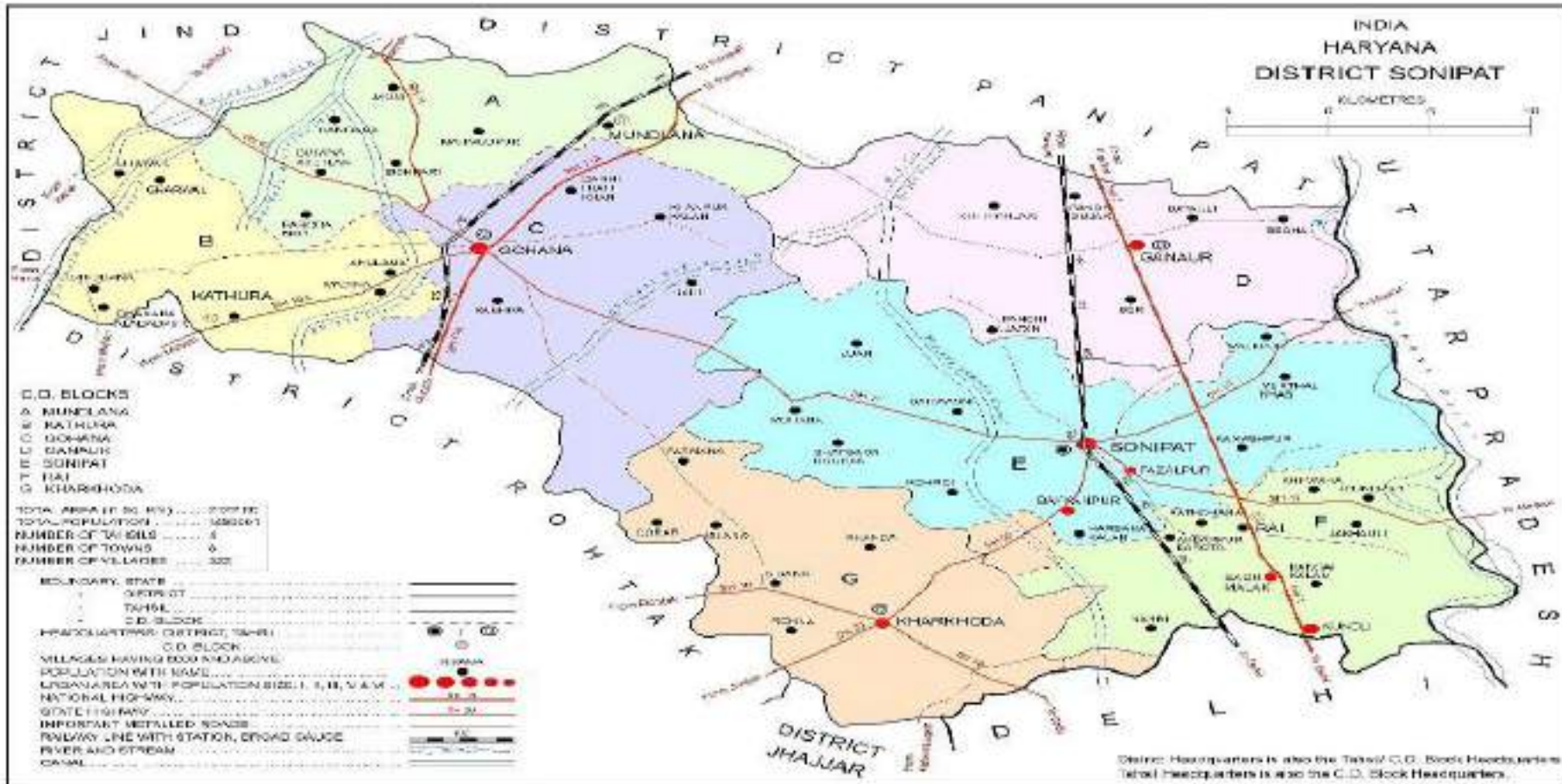
## 1.0 District Profile

- Sonipat name is derived from the word Sonipat which means in Sanskrit language the suvarna prastha (gold place). One popular tradition avers that it is one of the five patas or prasthas (Indraprastha, Panipat, Talpat, Bhaghpat and Sonipat) mentioned in the Mahabharata which Yudhishtira demanded from Duryodhana.
- The area of Sonipat District is about 181 Km<sup>2</sup>.
- Sonipat district lies between 28° 47' 48'' North and 29° 17' 31'' North latitude and 76°28' 36'' East and 77° 13' 40'' East longitude. It is having a geographical area of 2122.00 square kilometres, containing 2039.99 square kilometres of rural area and 82.01 square kilometers of urban area.
- River Yamuna Passes through the District Sonipat.
- Sonipat district is oblong-shaped. It is bounded by Panipat district in the North, Delhi State and Jhajjar district in its South, Rohtak district in the Southwest and Jind district in the Northwest. Eastern boundary is made by the Yamuna River and on the other side lies Meerut district of Uttar Pradesh.
- The fact is last census for Sonipat district was done only in 2011 and next such census would only be in 2021. But as per estimate and projection, population of Sonipat district in 2018 is approximate 16 Lakhs compared to 2011 census figure of 14.50 Lakhs.
- *In District Sonipat the major source of income is agriculture. Around 13039 industries in District Sonipat. Around 59707 no. of daily worker work in small scale industry and around 17031 Nos. Employment in Large & Medium Industries. There are six industrial estates in District Sonipat.*

District Environment Plan [Sonipat]

a. District Administrative Set-up

i.) District Administrative Maps.





## ii) District Administrative Set-Up and Local Institutions

- The district comprises four sub-divisions: Ganaur, Sonipat, Kharkhoda and Gohana.
- They are further divided in four tehsils: Ganaur, Sonipat, Kharkhoda and Gohana. These are further divided into eight blocks: Ganaur, Sonipat, Rai, Kharkhoda, Gohana, Kathura, Mundlana and Murthal.
- The district comprises 347 revenue villages.
- There are six Vidhan Sabha constituencies in this district, namely, Ganaur, Rai, Kharkhauda, Sonipat, Gohana and Baroda. All of these are part of Sonipat Lok Sabha constituency. The other three Vidhan Sabha constituencies which are part of Sonipat Lok Sabha constituency, namely, Julana, Safidon and Jind are in Jind District
- The district comprises a lone municipal corporation Sonipat, 3 municipal committees: Ganaur, Kharkhoda and Kundli and 1 Municipal Council - Gohana.

## c. Natural Resources

### ▪ Water Bodies

The main water system in the district is the Yamuna River and the irrigation canals flowing out of it. The river flows besides the rural belt in the eastern side of district. It also acts as a natural boundary between the states of Haryana and Uttar Pradesh.

Tributaries: Only three tributaries Somb, Thapana and Sahibi join the Yamuna River in a length of about 300 km. Somb River rising from Shivalik hills in Yamuna Nagar is a seasonal stream. Downstream Dadupur barrage Yamuna Nagar the river functions as an escape channel. The entire length of Yamuna River passes through Sonipat is approximately 60 Km.

### ▪ Availability of Water Resources

Sonipat district has poor surface drainage due to which systems of abundant palaeochannels have developed. The Yamuna river makes a common boundary of about 49 kilometres between the district and Uttar Pradesh State. During this course, the river falls in elevation from 218 metres to 209

## District Environment Plan [Sonipat]

metres giving it a very gentle gradient and forms a flood plain on eastern side of its bed. Irrigation in the district is mostly done by canals and tubewells. The general slope of the district is from north to south. The natural drainage is a problem in some parts of Gohana tehsil.

The block wise ground water resource potential in the district has been assessed as per GEC-97 as on March 2009. The stage of ground water development ranges between 78% (block-Kathura) to 196% (block-Rai). The total replenish able ground water resource in the district is 774.26 mcm, of which the total existing ground water draft by all means is 945.35 mcm. The net utilizable ground water resources for future irrigation development are -173.64 MCM.

### GROUND WATER RESOURCES OF SONIPAT DISTRICT, HARYANA STATE

Block	Net annual ground water availability (ham)	Existing gross ground water draft for irrigation (ham)	Existing gross ground water draft for all uses (ham)	Provision for domestic & industrial requirement supply to 2025 (ham)	Net annual ground water availability for future irrigation development (ham)	Stage of ground water development (%)	Category
Ganaur	19778	22384	23711	1327	-3933	120	OVER EXPLOITED
Gohana	7609	10183	10282	99	-2673	135	CRITICAL
Kathura	5344	4187	4193	261	896	78	SAFE
Kharkhoda	8067	11420	11541	121	-3474	143	CRITICAL
Mundlana	15751	12566	12575	9	3176	80	SAFE
Rai	7902	14472	15526	1054	-7624	196	OVER EXPLOITED
Sonepat	12975	15410	16707	1297	-3732	129	OVER EXPLOITED
Total	77426	90622	94535	4168	-17364	122	

- **Forest Coverage**

The district covers Gohana, Rai and Sonipat Forest Ranges which are headed by Range Forest Officers. These ranges come under Sonipat Forest Division headed by the Deputy Conservator of Forests stationed at Sonipat. The district falls in Central Circle with headquarters at Rohtak. Gohana Range covers areas of Mundlana, Gohana and Kathura C.D. Blocks, Rai Range covers areas of Rai and Kharkhoda C.D. Blocks and Sonipat Range covers areas of Sonipat and Ganaur C.D. Blocks. There is no reserved forest under the control of this division. Forests of the district mainly comprise waste strips on both sides of rail tracks, canals, roads, drains and bunds. These strips are maintained by the Forest Department for affore station purposes. The forests have played a very important role in the economy of the district by providing timber and firewood for local requirement. Shisham, kikkar, neem, eucalyptus etc are the important plantation species raised by the Forest Department. Social Forestry Division came into existence in 1982-83. Since then intensive social forestry and farm forestry programme have been implemented in this district also.

**FOREST TYPES IN SONIPAT DISTRICT, 2010-11**

Sr. No.	Type of Forest	Area (Sq. kms.)
1	Reserved Forests	Nil
2	Protected Forests	7836.06 hectare
3	Unclassed Forests	Nil
4	Forests under section 38 of IFA, 1927	141.90 hectare
5	Forests under section 4&5 of LPA, 1900	1867.20 hectare
	Total Forest area	9395.16 hectare

Source: HFD overview Haryana 2020-2021

#### d. Geography and Demography

##### ▪ Demography

In 2011, Sonipat had population of 1,450,001 of which rural population is 996,637 and urban population is 453,364 respectively. The total growth rate of sonipat is 13.35%. Total density of Sonipat is 683 per sq. Km. The total literacy rate of Sonipat district is 79.12. The sex ratio of Sonipat District is 856 per 1000.

Area	2122.00 square kilometres
Total Population	14.50 Lakhs
Rural population	996,637
Urban Population	453,364
Decennial Growth rate	13.35%
Density of population	683
literacy rate	79.12
Sex ratio for both district and state	856 for District Sonipat and 923 for Haryana

##### ▪ Geography

- Sonipat is located at 28.98°N 77.02°E. It has an average elevation of 224.15 meters above sea level (735.4 feet). Sonipat borders Delhi, the national **capital**, to the south, Panipat district to the north, Uttar Pradesh state to the east and Rohtak and Jind district to the west.
- Broadly speaking, the entire district is a part of the Punjab plain, but the area is not level in some parts. Over most of the district, the soil is fine loam of rich colour. However, some areas have sandy soil and others Kallar. The plain has a gradual slope to the south and east. The district may be roughly divided into three regions: The Khadar, the upland plain and the sandy region.
- **The Khadar:** Along the River Yamuna which is a narrow flood plain ranging from 2 to 4 miles in width and is formed by the river along its course. The Khadar plain is 20 to 30 ft. lower adjoining upland plain. The soil is fine clay loam left by the receding floods of the Yamuna. Farmers in the Khadar area cultivate rice and sugar cane. Recently, the farmers have started planting Banana, Pappaya and other fruits trees in this area.

## District Environment Plan [Sonipat]

- **The upland plain:** It consists of Sonipat tehsil lying to the west of the Khadar, and is the most extensive of the three regions: The Upland Plain is covered with old alluvium, which if properly irrigated, is highly productive. There is extensive Farming of crops, oil seeds, horticultural plants, vegetables and flowers in this region. The ridges in Gohana tehsil represent the northernmost extension of the Aravallis.
- **The sandy region:** A much smaller part of the district is covered with soil consisting of sand or sandy loam. Parts of this region have high PH values leading Kallor land.

**e. Land use pattern**

- In the year 2010-11, against a geographical area of 2,122.00\* sq.kms (includes 82.01 sq.kms. of urban area); the area of the district according to village papers supplied by the revenue authorities is 2076.24 sq. kms (rural area only). This shows difference in two sets of areas arrived at by different methods of measurement adopted by two separate agencies.
- However, we will discuss here land use as per village records. Of the total area of 207,624 hectares, 168,332 hectares is net sown area; 3,061 hectares is cultural waste (including gauchar and groves) and 3,843 hectares of area is not available for cultivation to which we may call barren and uncultivable land. Net area sown in the district is 81.08 per cent of total area. Gohana tahsil has a rural area of 790.63 sq.kms. Whereas Sonipat, Ganaur and Kharkhoda tahsils possess 690.41 sq.kms, 304.91 sq.kms and 290.29 sq.kms of rural area respectively.

Geographical Area	2,12,232 (in hectares)
Area Under Forest	509 (in hectares)
Net Area Sown	1,65,948 (in hectares)
Cropped Area	2,89,815 (in hectares)
Area irrigate	1,65,948 (in hectares)
Percentage of Net area irrigated to total area sown	100%

Note:- Information is provided by DDA, Sonipat

**Climate**

- Climate of Sonipat is dry with hot summer and a cold winter. The weather becomes milder during the monsoon (period July to September). The post-monsoon months October and November constitute a transition period, prior to the onset of winter.

District Environment Plan [Sonipat]

- The winter starts in December when day and night temperatures fall rapidly. January is the coldest month when the mean daily minimum temperature is 6 to 7 Degree C. During cold waves, the minimum temperature may go down to the freezing point of water, and frosts can occur. During the summer months of May and June, the maximum temperature sometimes reaches 47 Degree Centigrade. Temperature drops considerably with the advancement of monsoon in June. However, the night temperature during this period continues to be high.
- The annual rainfall varies considerably from year to year. However, the maximum rainfall is experienced during the monsoon season, which reaches its peak in the month of July. In fact, the monsoon period accounts for 75% of the annual rainfall in the district.

District Environment Plan [Sonipat]

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

### (i) solid Waste Management

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

Sr. No.	Urban Local bodies	No of Wards	No of Households	Population	Solid Waste Generated per day
1	Municipal Corporation, Sonipat	20	69509	427270	200
2	Municipal Committee, Kharkhoda	15	8650	32080 (Current Population ) (Aprx)	20
3	Municipal Committee, Gohana	23	20217 (Approx)	65108	32
4	Municipal Committee Ganaur	17	8902	35603 (as per Censes 2011)	18
5	Municipal Committee Kundli	15	8750	36678	17

	Local Bodies	No of Village panchayats	No of Households	Population	Solid Waste Generated per day
1	Ganaur Block	53	43951	196673	28.39
2	Gohana Block	35	29398	109958	29.67
3	Kharkhoda Block	45	24035	157989	27.93
4	Kathura Block	20	18989	94386	22.71
5	Murthal Block	42	25681	105487	27.54
6	Mundlana Block	34	17279	198681	25.20
7	Rai Block	41	30696	102345	34.96
8	Sonipat Block	45	30260	135925	31.16 T

## District Environment Plan [Sonipat]

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

Sr. No.	Action points For villages/ blocks/ municipalities/ City corporations	Identification of gap	Action Plan	Responsible agencies	Time line for completion of action plan					
1	<b>Segregation</b>				<b>DDPO</b>	<b>MC Sonipat</b>	<b>MC Kharkhoda</b>	<b>MC Gohana</b>	<b>MC Ganaur</b>	<b>MC Kundli</b>
(i)	Segregation of waste at source	Whether segregation at source practiced by households and other waste generators	Action plan to achieve segregation at source. Awareness programs, incentives, etc. maybe considered	<b>CEO DDPO BDPO GP ULB</b>	62 gram panchayat have 100 % door to door collection with segregated waste. Rest 243 gram panchayat are in process of segregation of waste at source.	Yes, Currently 85% segregation at source is being done. Time to achieve 100% Source Segregation is 31.12.2023	Yes, Currently 90% segregation at source is being done. Tender for door to door collection is being done for 2 Zone is in progress. Time to achieve 100% Source Segregation is 31.08.2023	Yes, Currently 100% segregation at source is being done. Tender for door to door collection are being done for 2 zone is in progress. Time to achieve 100% Source Segregation is 31.12.2021	100% segregation is being done. Time to achieve 100% Source Segregation 31.12.2021.	100% segregation is being done. The waste is collected by agency in partitioned vehicle.



## District Environment Plan [Sonipat]

2 Sweeping										
S. No.	Action points For villages /blocks/ town municipalities / City corporations	identification of gap	Action Plan	Responsible agencies	Time line for completion of action plan					
					DDPO	MC Sonipat	MC Kharkhoda	MC Gohana	MC Ganaur	MC Kundli
(i)	Manual Sweeping	Example: - % or length of road not covered for regular sweeping - Gaps in manpower- Gap in availability of sweeping tools/ equipment- Availability of suitable PPEs	Action plan for reducing gap	ULB DDPO	Manual sweeping is being done in Gram panchayat.	Yes, 100% Manual sweeping in residential area (Twice a day) & commercial area (twice a day). All Roads of MC Limit are covered by manual sweeping.	Yes, 100 % Manual sweeping is done by private agency i.e. M/s Pooja Consultation Co Manual sweeping in residential area (Twice a day) & commercial area (twice a day).	<b>Yes, 100 %</b> length of road is covered for regular sweeping. Manual sweeping in residential area (Twice a day) & commercial area (twice a day).	100% Sweeping is done in MC area. Manual sweeping in residential area (Twice a day) & commercial area (twice a day).	Yes, 100% on contract for manual sweeping. 100% manual sweeping will be already completed.
(ii)	Mechanical Road Sweeping & Collection	Gaps if any in achieving targeted area or length of road identified for Mechanical Road Sweeping.	Projected growth / intended action plan with timelines	DDPO ULB	Not required being villages.	Currently covering 30 km/day (main roads)	Not Required being small town.	Yes, covering 30 KM/day (main roads)	Not Required being small town	Not Required being small town.

## District Environment Plan [Sonipat]

3 Waste Collection										
S. No.	Action points For villages /blocks/ town municipalities / City corporations	identification of gap	Action Plan	Responsible agencies	Time line for completion of action plan					
					DDPO	MC Sonipat	MC Kharkhoda	MC Gohana	MC Ganaur	MC Kundli
(i)	100% collection of solid waste	Whether 100% Collection achieved?	Action plan to improve existing collection	DDPO ULB	All gram panchayat are covered for door to door collection	Yes, 100% wards have been covered for door to door waste collection by M/s JBM Environment Management Pvt. Ltd.	Yes, 100% wards have been covered for door to door waste collection.	Yes, 100% wards have been covered for door to door waste collection.	100% wards have been covered for door to door Collection is done in MC Area	Yes, 100% wards have been covered for door to door Collection is done in MC Area.
(ii)	<b>Arrangement for door to door collection</b>	Arrangement for door to door provided: 9 of blocks/wards covered	If there is gap, action plan for door to door collection across the district	DDPO ULB	All gram panchayat are covered for door to door collection. 2-3 rickshaw are available for collection and transportation of waste.	100% wards have been covered for door to door waste collection by M/s JBM Environment Management Pvt. Ltd.. Total 67 vehicles are available for collection and transportation of waste.	100% wards covered through agency by 09 nos tractor-trolley in all wards for collection and transportation of waste.	100% wards covered. Total 15 vehicles are available for collection and transportation of waste.	100% wards covered. Total 13 vehicles are available for collection and transportation of waste.	100% wards covered. Total 12 vehicles are available for collection and transportation of waste.
(iii)	<b>Waste Collection trolleys with</b>	Check availability and adequacy	Action plan for procurement if required	DDPO ULB	Richkshaw with compartme	All the primary waste collection	Yes, Total 09 Nos. of compartmental	Yes, Total 15 Nos. of compartmental	Yes, Total 13 Nos. of compartmental	Yes, 12 compartmentalized

## District Environment Plan [Sonipat]

	<b>separate compartments</b>	and if it needs upgradation			nt provided	vehicles have separate compartments for waste collection. Waste is being collected separately by M/s JBM Environment Management Pvt. Ltd. Total 67 No. of compartmentalized vehicles are available.	ized vehicles is available. No further vehicle required	ized vehicles is available. No further vehicle required	ized vehicles is available. No further vehicle required	vehicle is available. No further vehicle required.
(iv)	<b>Mini Collection Trucks with separate compartments</b>	Check if adequate or Needs upgradation or not required	[Action plan for procurement if required]	DDPO ULB	Not required	67 mini Tata ace being used for primary waste collection. Waste is being collected separately by M/s JBM Environment Management Pvt. Ltd.	Not required	Not required	Not required	10 tractor trolley/Tata Ace provided for waste collection
(v)	<b>Waste Deposition centers (for domestic hazardous wastes).</b>	Number of deposition centers required and nos available any alternate arrangement.	Details of existing practice and scope for improvement or implement adequate system	DDPO ULB	No deposition centres available in gram panchayat.	1 deposition Centre is available at dumpsite. Waste is being collected separately and	Waste deposition center will be identified and notified by 31.07.2023.	Waste deposition center will be identified and notified by 31.07.2023.	Waste deposition center will be identified and notified by 31.07.2023.	1 Waste deposition center available at dump site and waste

## District Environment Plan [Sonipat]

						deposited separately by M/s JBM Environment Management Pvt. Ltd.				is being collected separately and disposed by M/s Pooja consulation .co
<b>4</b>	<b>Waste Transport</b>									
(i)	<b>Review existing infrastructure for waste Transport</b>	[Check (i) whether existing fleet is adequate (ii) check whether segregated waste transport possible, etc.]	Action plan for short-comings identified.	DDPO ULB	No requirement as existing infrastructure is sufficient for transportation of waste.	67 Tata ace is being used for primary waste collection & for secondary waste collection 22 vehicles deployed. 15 Mini tractor required for removal of secondary waste points.	No requirement as existing infrastructure is sufficient for transportation of waste.	No requirement as existing infrastructure is sufficient for transportation of waste.	No requirement as existing infrastructure is sufficient for transportation of waste.	05 Nos. more vehicles required for collection of waste. The target date is 31.07.2023.
(ii)	<b>Bulk Waste Trucks</b>	[check adequacy]	[action plan for procurement if required]	DDPO ULB	No requirement	2 Bulk waste trucks available in MC Sonipat	No requirement	No requirement	No requirement	No requirement
(iii)	<b>Waste Transfer points</b>	[check whether available/ adequacy]	faction plan for installation if required)	DDPO ULB	No requirement	4 waste transport points are in Sonipat.	1	1	1	1

## District Environment Plan [Sonipat]

5	Waste Treatment and Disposal									
(i)	<b>Wet-waste Management : On-site composting by bulk waste generators (Authority may decide on requirement as per Rules)</b>	Whether number of bulk waste generators Identified for installation	Action for getting onsite composting plants commissioned	DDPO ULB	No required	23 Bulk Waste generators have been identified onsite composting. Time line for completing onsite composting by bulk waste is 31.07.2023.	None being small town.	04 identified. Notices are being issued. Timeline for completion is 31.12.2023	No bulk waste generators in MC area being small town.	MC kundli was constituted vide notification No. 18/127/218-3CI dated 16.10.2018 Bulk waste generator identification will be completed by 30.09.2023.
(ii)	<b>Wet-waste Management; Facility(ies) for central Biomethanation / Composting of Wets waste.</b>	Whether facility exists/ functional / needs upgradation?	If not <b>action</b> plan for developing/upgradation of bio-methanation or composting facility	DDPO ULB	12 Gram panchayat has constructed composting pit.	Currently 42 pits are there for wet waste composting & Waste to Energy (WTE) Plant is start operating. All the waste is being treated by WTE plant. 2 compost machines has been provided by MC for wet waste.	20 pits constructed at site and adequate.	27 pits constructed at site and adequate.	12 Composting Pits constructed site and adequate.	Work order issue for this work and work will be completed 30-09-2023.
(iii)	<b>Dry-Waste Management</b>	Whether MRF facility exists?		DDPO ULB	38 Villages with MRF	2 MRF facility exists. 01 Waste	1 M.R.F facility and	1 M.R.F facility and	01 MRF facility and	Dry waste processing

## District Environment Plan [Sonipat]

	<b>: Material Recovery for dry-waste fraction</b>	/is there any arrangement to sending the dry- waste to any common MRF or sent to Waste to energy plant or % dry-waste converted as RDF or Need to set-up own Waste to Energy plant?			facility. Sanction for 100 Villages is under process and will be done by 31.03.2022.	to Energy (WTE) Plant has been established in District Sonipat at Murthal of capacity 750 TPD. The plant has start operating and will take dry waste from Tehsil Sonipat and Ganaur as per agreement. All the waste is being treated by WTE plant	adequate.	adequate.	adequate. 01 Waste to Energy (WTE) Plant has been established in District Sonipat at Murthal of capacity 750 TPD. The plant has start operating and will take dry waste from Tehsil Sonipat and Ganaur as per agreement. All the waste is being treated by WTE plant	through processing plant done by agency.
(iv)	<b>Disposal of inert and non-recyclable wastes: Sanitary Landfill</b>	Does the agency still disposing waste in dumpsites? Whether sanitary landfill available ?/Plan for constructing sanitary landfill or arrangement	Action plan (i) to construct sanitary landfill If required (ii) Action plan to minimize land filling	DDPO ULB	Agreement with local purchaser for disposal of recyclable waste.	01 Waste to Energy (WTE) Plant has been established in District Sonipat at Murthal of capacity 750 TPD. The plant has start operating and will take dry waste from Tehsil Sonipat and Ganaur as per agreement.	Sanitary landfills available (MC Kharkhoda connected to Rohtak Cluster but cluster not functional). Presently agreement with recycler for recycle waste.	Sanitary landfills available. Presently agreement with recycler for recycle waste	Waste to Energy (WTE) Plant has started operating. Waste is being taken to Waste to Energy Plant for disposal and energy production.	MC Kundlinot connected to any WTE.

## District Environment Plan [Sonipat]

		with ULBs				All the waste is being treated by WTE plant				
(v)	<b>Remediation of historic/ legacy dumpsite</b>	Whether existing old dumpsite if any required remediation as per rules?	Action plan for remediation of legacy / historic dumpsite.	DDPO ULB	No proposal for Gram panchayat for disposal of legacy dumpsite.	2 Lacs ton to be treated by integrated facility Timeline for completion is 31.12.2023.	Yes, quantity of legacy waste is 24000 MT. Bioremediation is going on at site. Timeline for completion is 31.08.2023.	Yes, quantity of 36747 ton is there as legacy waste. Bioremediation is going on at site. Timeline for completion is 31.12.2023	Yes, Quantity of 23500 MT is there as legacy waste. Bioremediation is going on at site. Timeline for completion is 31.12.2023	Estimate already sent to DULB for admin approval after assessment of legacy waste.
(vi)	<b>Involvement of NGOs</b>	Whether involvement of NGOs envisaged	NGOs can be involved for management of solid waste campaign	DDPO ULB	<b>Yes</b> , more effort will be made for involvement of NGOs.	MCS has involved NGOs & RWAs for management of solid waste campaign. MCS is also planning to involve more NGOs for management of solid waste	Yes, more effort will be made for involvement of NGOs.	Yes, more effort will be made for involvement of NGOs.	Yes, more effort will be made for involvement of NGOs.	Yes, more effort will be made for involvement of NGOs.
(vii)	<b>EPR of Producers: Linkage with Producers/ Brand Owners</b>	As per rules, producers and brand-owners should facilitate in collection of packaging waste	Action plan for linkage of all producers/brand owners or their PROs for collection of plastic waste	DDPO ULB	No EPR for linkage with producer and brand owners existing.	MCS will call the meeting of producers/brand owners or their PROs for necessary action. It will be completed by 31.03.2023.	No EPR for linkage with producer and brand owners existing being small town.	No EPR for linkage with producer and brand owners existing being small town.	No EPR for linkage with producer and brand owners existing being small town.	No EPR for linkage with producer and brand owners existing being small town.
(viii)	<b>Authorization of</b>	Yes/No	List of authorized	DDPO ULB	<b>Nil</b>	Yes, There are 26 rag pickers	Yes, There are 12 rag	Yes, There are 11	Yes, There are 8 rag pickers	Yes, There are 12 rag

District Environment Plan [Sonipat]

	<b>Waste. Pickers</b>		waste pickers should be available			and all are authorized.	pickers and all are authorized.	rag pickers and all are authorized.	and all are authorized.	pickers and all are authorized.
(ix)	<b>Preparation of own by-laws to comply with SWM Rules 2016</b>	Yes/No	If not prepared action plan for preparation of by-laws which maybe applicable in cantonment Board jurisdiction	DDPO ULB	Yes, notified	Yes, Notified	Yes, notified	Yes, notified	Yes, notified	Yes, notified



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## (ii) Plastic waste Management

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

	Urban Local bodies	Estimated quantity of Plastic Waste Generated per day
1	<b>Municipal Corporation, Sonipat</b>	20 TPD
2	<b>Municipal Committee, Kharkhoda</b>	0.5 TPD
3	<b>Municipal Committee, Gohana</b>	0.03 - 0.04 TPD
4	<b>Municipal Committee Ganaur</b>	0.5 TPD
5	<b>Municipal Committee Kundli</b>	0.5 TPD

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

S.No.	Action points For village panchayats/ blocks/ municipalities / corporations	Identification of gap	Action plan	Agencies Responsible	Target time for Compliance					
					DDPO	MC Sonipat	MC Kharkhoda	MC Gohana	MC Ganaur	MC Kundli
1	Door to Door collection of dry waste	[100%]/ {partial %} / [not	If not 100 %, action plan for door to door	<ul style="list-style-type: none"> <li>ULB DDPO</li> </ul>	Plastic waste collected by Gram	Yes, 100%, All the wards have been covered for door to door waste	100% No Gap	100% No Gap	100% No Gap	100%. No Gap

## District Environment Plan [Sonipat]

	including PW	Initiated]	collection of SW		Panchayat and sold to local purchaser.	collection				
2	Facilitate organised collection of PW at Waste transfer point or Material Recovery Facility	This infrastructure is linked to SW management. May check gaps with respect to: <ul style="list-style-type: none"> <li>• Availability of transfer points and material recovery facility</li> <li>• Involvement of informal sector / NGO.</li> <li>• Registering waste pickers</li> <li>• Linkage with PW recyclers</li> <li>Involvement of producers and brand-owners</li> </ul>	Within the district outline specific plans for Each village panchayat/block/ municipality/ Nagar panchayat / Corporations for plastic waste collection	<ul style="list-style-type: none"> <li>• ULB DDPO</li> </ul>	Dry waste sold to local purchaser.	Dry Waste is being collected separately and then transfer to MRF site (Dumpsite) for further segregation. <ul style="list-style-type: none"> <li>• 26 Waste pickers have been identified and provided IDs from MCS.</li> <li>• Involvement of producers and brand-owners will be done by 31.09.2023. <ul style="list-style-type: none"> <li>• Waste to Energy Plant at Murthal has started operating and dry waste is disposed through Waste to Energy Plant for generation of electricity.</li> </ul> </li> </ul>	1 MRF facility exists, 12 Rag pickers registered	1 MRF facility exists, 11 Rag pickers registered	1 MRF facility exists, 8 Rag pickers registered. Waste to Energy Plant at Murthal has started operating and dry waste is disposed through Waste to Energy Plant for generation of electricity.	Work order issue for construction of MRF facility. The target date of achievement is 30.09.2023.
3	PW collection Centres	Local Bodies may set-up own centres and also	Plastic waste collection centre should be established in	<ul style="list-style-type: none"> <li>• ULB DDPO</li> </ul>	38 center	Currently 2 Plastic waste Collection centers are	2 Center	6 Center	1 Center	1 Center

## District Environment Plan [Sonipat]

		involve producers and brand-owners or their PROs to facilitate setting up of collection centres.	adequate numbers Coordination with State Urban Department may be necessary			available in Sonipat. New centers for plastic waste collection will constructed within 6 months				
4	Awareness and education programs implementation	Review existing gaps in creating awareness among public for minimising and recycling PW	Education through mass media, schools, Producer / brand owner campaigns and other channels	<ul style="list-style-type: none"> <li>ULB DDPO</li> </ul>	IEC Activities is being done to inform the ill effects of use of plastic carry bags, burning and littering of solid and plastic waste, home composting, segregation of solid waste is done during the activity.	IEC Activities is being done to inform the ill effects of use of plastic carry bags, burning and littering of solid waste is done during the activity.	IEC Activities is being done to inform the ill effects of use of plastic carry bags, burning and littering of solid and plastic waste, home composting, segregation of solid waste is done during the activity.	IEC Activities is being done to inform the ill effects of use of plastic carry bags, burning and littering of solid and plastic waste, home composting, segregation of solid waste is done during the activity.	IEC Activities is being done to inform the ill effects of use of plastic carry bags, burning and littering of solid and plastic waste, home composting, segregation of solid waste is done during the activity.	IEC Activities is being done to inform the ill effects of use of plastic carry bags, burning and littering of solid and plastic waste, home composting, segregation of solid waste is done during the activity.
5	Access to Plastic Waste Disposal Facilities	Check if District has access to PW recycling/ utilization or	Check if PW recycling facilities available at reasonable distance;	<ul style="list-style-type: none"> <li>ULB DDPO</li> </ul>	Rag pickers deployed	Waste to Energy plant has start operating for disposal of dry waste.	Agreement with recycler	Agreement with recycler	Agreement with recycler	MC Kundli has proposed to make agreement with Waste

## District Environment Plan [Sonipat]

		disposal facilities	Channel for sending PW collected to cement plants for processing; Availability of waste plastic oil producing facilities; Linkage with PWD for usage of PW in road Making. Action plan at district should involve Urban and Rural Local bodies							To Energy Plant for disposal of plastic waste. The target date of completion is 30.09.2023.
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**(iii) C & D Waste Management****a. Current status related to C& D Waste**

Details of Data Requirement	MC Sonipat	MC Kharkhoda	MC Gohana	MC Ganaur	MC Kundli
Total C&D waste generation in MT per day (As per data from Municipal Corporations/ Municipalities)	17 TPD	0.2 TPD	0.010 TPD	0.030 TPD	0.2 TPD
Does the District has access to C&D waste recycling facility?	No	No	No	No	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				
					MC Sonipat	MC Kharkhoda	MC Gohana	MC Ganaur	MC Kundli
1	Arrangement for separate collection of C & D waste to C&D waste deposition point.	Check gaps w.r.t: -Separate collection point of C&D Waste. -Identification of Common C&D waste deposition points	Action plan for every local body in district. District may identify common C&D waste deposition points.	ULB	One site at Village Leharada has been notified for collection of C& D waste	Yes one site at (Rohtak Road dumpsite) has been identified for collection of C & D waste.	Yes one site at (Thaska dumpsite) has been identified for collection of C & D waste.	Yes, one site at (Badshai Road Near ITI Ganaur) has been notified for collection of C & D waste.	Yes one site at Main GT Road Kundli has been identified for collection of C & D waste.
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?	Check gaps with respect to: Local by-laws to pay user fee Implementation of a system to permit bulk generators(>20 tons in one day or 300 tons per project)	Common by-laws may be implemented in District. Local C&D waste management plans can be integrated to develop common collection and recycling facilities	ULB	1 Tractor + Trolley is assign for this work @ Rs 1000/- trolley	1 Tractor + Trolley is assign for this work @ Rs 500/- trolley	1 Tractor + Trolley is assign for this work @ Rs 700/- trolley	1 Tractor + Trolley is assign for this work @ Rs 700/- trolley	1 Tractor + Trolley is assign for this work @ Rs 1000/- trolley
3.	C&D recycling Facility	Check whether district has any C&D waste	Action plan for setting up C&D recycling	ULB	No, C & D recycling facility	Yes, By Brick blast making Machine	Yes, By Brick Blast making	Not required	Not required

## District Environment Plan [Sonipat]

		recycling facility	facility in the District or tie-up with any other district or ULB for setting up common facilities. Plan should ensure viable operation of C&D plant including assured market for C&D products.		available. Crushing machine will be installed for recycling of C & D waste by 30.06.2023.		machine		
4	Usage of recycled C&D waste in non structural concrete, paving blocks, lower layers of road pavements, colony and rural roads	Is there any policy on usage Or promotion on usage of C&D waste?	Local authority may make give appropriate incentives on usage of C&D waste. A % of usage in public works maybe specified / any other scheme.	ULB	Nil, presently no mechanism for C & D waste. After installation of facility the recycled waste will be used in non structural concrete, paving blocks, etc.	Nil, presently no mechanism for C & D waste. After installation of facility the recycled waste will be used in non structural concrete, paving blocks, etc.	Nil, presently no mechanism for C & D waste. After installation of facility the recycled waste will be used in non structural concrete, paving blocks, etc.	Nil, presently no mechanism for C & D waste. After installation of facility the recycled waste will be used in non structural concrete, paving blocks, etc.	Nil, presently no mechanism for C & D waste. After installation of facility the recycled waste will be used in non structural concrete, paving blocks, etc.
5	ICE on C&D waste management	Is there any sustained system of creating	Action plan for awareness and	ULB, DTP	ICE activities will be conducted	ICE activities will be conducted	ICE activities will be conducted	ICE activities will be conducted	ICE activities will be conducted with involvement of

## District Environment Plan [Sonipat]

		awareness created among local communities.	education		with involvement of general public, NGOs, etc. Regular programme will be done in this regard.	with involvement of general public, NGOs, etc. Regular programme will be done in this regard.	with involvement of general public, NGOs, etc. Regular programme will be done in this regard.	with involvement of general public, NGOs, etc. Regular programme will be done in this regard.	general public, NGOs, etc. Regular programme will be done in this regard.
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**(iv) Biomedical Waste Management****a. Current Status related to biomedical waste**

Inventory of BMW in the District	Quantity
Total no. of Bedded Healthcare Facilities	275
Total no. of non-bedded HCF	140
No. of HCFs authorised by SPCBs/PCCs	415
No of Common Biomedical <b>Waste</b> Treatment and Disposal Facilities (CBWTFs)	1 CBWTF operating in District Jind and is authorized by the Board for collection and treatment of Bio Medical Waste in District Sonipat.
Capacity of CBWTFs	5520 Kg/Day
No. of Deep burials for BMW if any	Nil
Quantity of biomedical waste generated per day	831.0 Kg/Day
Quantity of biomedical waste treated per day	831.0 Kg/Day

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

## District Environment Plan [Sonipat]

S. No.	Action points	Gaps	Action Plan	Responsible agency	Timeline for completion of action plan
1	Inventory and Identification of Healthcare Facilities	Check whether all HCFs including, clinics, hospitals, veterinary hospitals, Aayush hospitals, animal houses, etc generating biomedical waste area identified and authorised by SPCBs/PCCs	Regular inspection and awareness program will be conducted to cover all HCFs under Bio-medical waste (Management and Handling Rules, 2016).	HSPCB/CMO	415 HCFs identified and Inventory of all the clinics, hospitals, veterinary hospitals, Aayush hospitals, animal houses, etc will be completed by 30.09.2023.
2	Adequacy of facilities to treat biomedical waste	Check If there is any gap between Quantity of Biomedical Waste generated per day and quantity of Biomedical Waste treated and disposed in the district? In case of no access to CBWTFs, adequacy of existing disposal of BMW	All the HCFs generating Bio-medical waste has been covered by the authorized CBWTF for treatment and disposal of Bio-medical waste. CBWTF have adequate facility for treatment of Bio Medical Waste. CBWTF is accessible to each HCFs.	HSPCB/CMO	Regular activity to check the management and disposal of Bio-medical waste by CBWTF.
3	Tracking of BMW	Check whether bar code system is implemented by all HCFs and CBWTFs?	Awareness program has been conducted for implementation of bar code system by HCFs and CBWTFs. 110 HCFs has adopted bar code facility and rest are in process.	HSPCB/CMO	Effort will be made for implementation of bar coding by all HCFs by 30.12.2023.



## District Environment Plan [Sonipat]

4.	Awareness and Education of healthcare staff	Whether training has been organised for all stakeholders?	Regular Awareness programs need to be conducted for training to healthcare staff and ULB officials	HSPCB and Civil Surgeon.	Regular awareness program will be conducted.
5.	Adequacy of funds	Whether adequate funds is allocated to Government health care facilities for bio medical waste management by State Govt.?	Action plan for Ensuring adequate funds To Government Health care facilities for bio-medical waste management by State Govt.	CMO	Meeting has been held at ACS level for installation of Effluent Treatment Plant at Civil Hospital, Sonipat. Estimation of Rs. 25 Lacs has been sent to Higher Authority for release of funds for installation of ETP. Work will be started after release of fund.
6.	Compliance To Rules by HCFs and CBWTFs	Is there any district level mechanism to monitor compliance by Hospitals / HCFS?	HSPCB conduct inspection of HCFs / CBWTFs time to time to check the compliance of BMW rules, 2016.	HSPCB	Regular inspections are conducted.
7	District Level Monitoring Committee	Check whether District Level Monitoring Committee has been constitute and meetings are being organised?	Action plan w.r.t Periodicity of reviews and follow-up by DLMC. Identify teams in health department to monitor compliance.	District Administration	Regular monitoring will be conducted.
8	Waste Water Treatment	Check if HCFS are required to install ETPs for waste water generated.	Stand alone HCFs is not connected to any sewage facility has been directed to install ETPs for waste water management.	HSPCB	12 stand alone HCFs has provided ETP for waste water management. Target date for installation of ETP in rural area- 31.12.2023.

District Environment Plan [Sonipat]

## (v) Hazardous Waste Management

### a. Current Status related to Hazardous Waste Management

Details of Data Requirement	Present Status
No of Industries generating HW	705
Quantity of HW in the district	71993.246 MTA
(i) Quantity of Incinerable HW	702.105 MTA
(ii) Quantity of land-fillable HW	3599.231 MTA
(iii) Quantity of Recyclable / utilizable HW	67691.910 MTA
No of captive/common TSDF	Nil
Contaminated Sites or probable Contaminated Sites.	0

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

S. No	Action points	Identification of Gaps	Action Plan	Responsible agency	Timeline for completion
1	Regulation of industries and facilities generating Hazardous Waste	Check whether all hazardous waste industries are identified and authorized by SPCBs/PCCs	All the 705 units engaged in generation of Hazardous waste obtained authorization from the Board and made the agreement with authorized service provider for recycle and disposal of hazardous waste.	HSPCB	Regular Monitoring will be carried out for regulation of HOWM Rules, 2016

## District Environment Plan [Sonipat]

2.	Establishment of collection centre	Check district has collection centre for hazardous wastes with linkage to common TSDFs / recyclers	No common facility for storage of hazardous waste is required as each individual unit has its own storage facility in the premises before disposal to TSDFs.	HSPCB and local Authority	Matter for establishment of collection centre for Hazardous waste need to be taken at Government level. Individual Pit storage of Hazardous waste for 90 days has already been provided.
3.	Training of Workers involved in handling / recycling / disposal of HWM	Identify facilities / industries engaged in recycling / pre- processing /disposal of hazardous waste in the district.	Regular awareness program has been carried out by HSPCB with industries for proper handling and disposal of Hazardous waste. Action plan to train the workers on safety aspects through Department of Industries as per provisions under HOWM Rules, 2016. 03 training programme conducted and in the coming calendar year 04 programme will be conducted.	HSPCB and DIC (Health and Safety)	Awareness programme will be conducted once in each quarter.
4.	Availability / Linkage with common TSDF or disposal facility	Check if the generators of HW have access to common TSDF in the State?	All the units generate hazardous waste have access to the common TSDF sites and has made agreement with the TSDF site for treatment and disposal of hazardous waste.	HSPCB	Regular monitoring and awareness program is being done.
5.	Contaminated Sites	Are there any sites where soils /sediments/ groundwater contaminated due to dumping of industrial wastes	Action plan for Identification of Probable contaminated site incidents of HW dumping, responsible parties for contaminated site etc. and to remediate contaminated sites.	HSPCB	Regular monitoring of different sites is being done and no contaminated sites of hazardous waste exists in the District.

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**(vi) E- Waste Management****a. Current Status related to E-Waste Management**

Details of Data Requirement	Present Status
Inventory of E-Waste in MT/year	19255.86 MT/Year
Collection centers established by ULBs in the District	Nil
Collection centers established by Producers or their PROs	Nil
No authorized E-Waste recyclers/ Dismantler	Dismantler-2 Recycler-4

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

S. No.	Action points	Gaps in implementation	Action Plan	Responsible agency	Timeline for completion				
					MC Sonipat	MC Kharkhoda	MC Gohana	MC Ganaur	MC Kundli
1	Inventory/ Generation of E-Waste/ Bulk-waste generators	Check whether SPCB/PCC has Completed inventory of E-Waste in the District. Inventory of bulk waste generators	Inventory of Bulk waste generators of E-waste need to be conducted.	HSPCB/ULB/BDPO	Inventrization of Bulk generator such as Large scale Industries/Institution will be completed upto 31.07.2023. These industries/institution has been directed to disposed off their E-waste through service provider.				
2	E-Waste collection points	Availability of E-Waste collection points/ call centre / kiosks in villages - Blocks / towns / cities	Identification / registering E-Waste collection centre in association with Producers - their PROs or Recyclers. Regular meeting will be done with recycler for association with collection centre.	HSPCB/ULB/BDPO	MC Sonipat	MC Kharkhoda	MC Gohana	MC Ganaur	MC Kundli
					0	0	0	0	0
					Collection point will be identified by 31.07.2023.	Collection point will be identified by 31.07.2023.	Collection point will be identified by 31.07.2023.	Collection point will be identified by 31.07.2023.	Collection point identified.

## District Environment Plan [Sonipat]

3	Linkage among Stakeholders to channelize E-Waste	Check whether District administration has Information on collection centres established by Producers /PROs? Administration should also Identify authorised E-Waste recyclers in the district or in State to channelize E-waste collected in District.	Bulk waste generated e-waste to delivered to authorized recyclers.	HSPCB / ULB / District Administration	After identification of site of each town the list of Authorized dismantler / recycler will be shared with District Administration for collection of E-waste from the collection points identified by the local bodies.
4.	Regulation of Illegal E-Waste recycling/ dismantling	Prevalence of informal trading, dismantling and recycling of E-waste is in District	Routine inspection is being done by HSPCB to check the operation of any illegal E-waste recycling /dismantling.	HSPCB	Routine inspection is being done by HSPCB to check the operation of any illegal E-waste recycling /dismantling. No illegal e-waste recycler / dismantling facility existing in this district.
5	Integration of informal sector	Whether mechanism exists for bringing informal sector into main stream in collection and recycling of E-Waste	Awareness program will be conducted to ensure the integration of informal sector to the collection and recycling of E-waste.	HSPCB/ULB /District Administration	Awareness program in each quarter is being conducted for integration of informal sector generating E-waste and its proper disposal.
6.	Awareness and Education	Are there any programs at district level for awareness about E-waste management?	Special workshops and awareness campaigns through Producers/PROs will be conducted.	HSPCB/ULB	Regular awareness program is being conducted for E-waste management.

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### 3.0 Air Quality Management

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

Details of Data Requirement	Present Status
Number of Automatic Air Quality monitoring stations In the district.	1
- Operated by SPCB / State Govt/ Central govt./ PSU agency :	1
- Operated by Industry:	0
Number of manual monitoring States operated by SPCBs	2
Name of towns/ cities which are failing to comply with national ambient air quality stations	Tehsil Sonipat is failing to achieve the national ambient air quality. As per report the average value of PM10 has been found 110 $\mu\text{g}/\text{m}^3$ .
No of air pollution industries	694
Prominent air polluting sources [Large Industry] / [Small Industry] / [Unpaved Roads] / [Burning of Waste Stubble) / [Brick Kiln]/ [Industrial Estate]/ [Others! (Multiple selection)	[Large Industry: 69] / [Small Industry: 510] / [Unpaved Roads: ..] / [Burning of Waste Stubble: 27] / [Brick Kiln: 244 ] / [Industrial Estate: 4 ]

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

S. No.	Action points	Indicative Action Plan	Action Taken	Responsible agency	Timeline for completion of action plan
1	Identification of prominent air polluting sources?	Action plan has been made to check the burning of illegal fuel, air pollution from industries, operation of illegal industry, check the DG sets standards, prohibition of coal in hotels and restaurants, eliminate use of Kerosene for cooking, enforcement of Air pollution control in concrete batching, ensuring measures to mitigate dust pollution from construction and recycling of construction material, implementation of C&D waste.	Identification of prominent source of air polluting points has been identified as mentioned here. a. Industries located in HSIIDC, Barhi b. Industries located in HSIIDC, Murthal c. Industries located in HSIIDC, Rai d. Industries located in HSIIDC, Kundli e. Industries located in Industrial Area Sonipat f. Industries located outside the industrial area having air	HSPCB/ULB/HSIIDC/BDP O/Traffic/Transport Department/Tehsildar/District Administration /Mining Department/DTP/NHAI	Regular inspection of all the vulnerable points done to check any illegal practice leading to the rise of Air pollution. 04 locations (Civil Hospital, Sec-14, Sonipat, Mini Secretariat, Sonipat, Geeta Bhawan Chowk, Ashok Nagar, Sonipat and Amarik Sukhdev Dhaba, Murthal Sonipat) have been identified for installation of display Board in District Sonipat with connected to main CAQMS.

## District Environment Plan [Sonipat]

			<p>emission from process</p> <p>g. Construction projects</p> <p>h. Hot Mix Plants</p> <p>i. Readymix concrete plants</p> <p>j. Brick Kilns</p> <p>k. Unpaved roads</p> <p>l. Congested point in city</p> <p>m. Use of fuel in Hotel and industry</p> <p>n. To check burning of solid waste in open</p>		
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.	AAQ data is accessible to each on Sameer App. Website <a href="https://app.cpcbcr.com">https://app.cpcbcr.com</a>	HSPCB	The data is available to public domain.
3	Setting up of Continuous Ambient Air Quality Monitoring Station	Like weather station, District may also have ambient air quality monitoring at major urban settlements or populated areas. Action plan may propose setting up at least one CAAQMS in District. Also access data generated by CAAQM Stations installed by other pvt / public agencies. District authority in association with local office of SPCB/PCC should also ensure that at least one manual Air Quality monitoring station is available in each city. (District admin may set-up its own network of CAAQMS or manual stations).	Complied. One CAAQMS has already been installed in District Sonipat.	HSPCB	Completed
4.	District Level Action Plan for Air Pollution	<p>Action plan should be prepare for both improvement of existing air quality as well as for non-attainment days to national ambient air quality standards.</p> <p>[Measures may include multi sectoral approach for air pollution control such as promotion of public transport, use of green fuels, E-mobility, LPG based cooking, carpeting</p>	E-Rickshaw and CNG Vehicle are being promoted to control air pollution from vehicle. Around 10 CNG Station has started operation in District Sonipat. 206 units has connected to CNG fuel. No NOC is being granted to new unit if the unit not adopted CNG as fuel.	HSPCB/ULB/HSIIDC/BDPO/Traffic/Transport Department/Tehsildar/District Administration/Mining Department/DTP/NHAI/Agri culture	Regular inspection of all the vulnerable points done to check any illegal practice leads to the rise of Air pollution. Industries are being advised to shift to PNG wherever PNG is available.

## District Environment Plan [Sonipat]

		open areas/kerbs etc. Action plans envisaged in NCAP project initiated by MoEF&CC may be referred]			
5.	Hotspots of air pollution in District	<p>a. Industries located in HSIIDC, Barhi</p> <p>b. Industries located in HSIIDC, Murthal</p> <p>c. Industries located in HSIIDC, Rai</p> <p>d. Industries located in HSIIDC, Kundli</p> <p>e. Industries located in Industrial Area Sonipat</p> <p>f. Industries located outside the industrial area having air emission from process</p> <p>g. Construction projects</p> <p>h. Hot Mix Plants</p> <p>i. Readymix concrete plants</p> <p>j. Brick Kilns</p>	11 Hotspots of traffic congestion has been identified. Traffic Police has been deployed at these points for smooth operation of traffic. Regular awareness programme is conducted before harvesting season to stop stubble burning. Challan are made wherever stubble burning is notice. HARSAC has been adopted to check in burning of agricultural waste.	HSPCB/ULB/HSIIDC/BDP O/Traffic/Transport Department/Tehsildar/District Administration/Mining Department/DTP/NHAI/Agriculture	Rs. 437500 amount is collected by Agriculture Department in 2020-2022 as environment compensation for burning of agricultural waste. Regular inspection of all the vulnerable points done to check any illegal practice leads to the rise of Air pollution.
6.	Awareness on Air Quality	Plan for dissemination of information on local air quality in towns and cities located in District. May consider developing Mobile App / Online portal for dissemination of air quality as well as to take complaints on local air pollution.	Social media platform are available as well as CM Window, CPGRAM and Sameer App are available to general public for complaint on air pollution. Action is being taken on where any such complaint received.	HSPCB and District Administration	Sameer App is in operation to file the complaint on local air pollution.



District Environment Plan [Sonipat]

## 4.0 Water Quality Management

### 4.1 Water Quality Monitoring

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

Details of Data Requirement	Present Status
Rivers	Yamuna River
length of Coastline (if any)	50 Km
Nalas/ Drains/Creeks meeting Rivers	2 (DD No. 8), (Drain No.6)
Lakes / Ponds	Total no. of Ponds 1155. Polluted and over flowing 135. Polluted but not over flowing 459. Clean Pond 423. Dry Pond 137.
Total Quantity of sewage from towns and cities in District	78.428 MLD
Quantity of industrial wastewater	26.2 MLD
Percentage of untreated sewage	39%
Details of bore wells and number of permissions given for extraction of groundwater	62000 Borewells (Agricultural), 680 Borewells (Industrial) Permission given for extraction of groundwater=110 industrial units have obtained permission for ground water extraction
Groundwater polluted areas if any	No specific ground water polluted area exists in District Sonipat. Drains/Nalls are regularly inspected/ carried out and environmental compensation has already been imposed where discharged of 33 untreated points.
Polluted river stretches if any	0

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

S. No.	Action points	Gap and Action Plan	Action Plan	Responsible agency	Timeline for completion of action plan
1	Inventory of water bodies	An environmental monitoring cell shall maintain data of all water bodies (rivers/ canals/ natural drains / creeks / estuaries/Ground water/ ponds / lakes/ etc.) in district including its water quality  Detail of all ponds, river, drains	HSPCB is maintaining all the water quality data of River, Drain, Canal, Ground water exists in Sonapat.	HSPCB/Panchayat Department/Irrigation/Mining /Hydrologist	Data has been maintained by HSPCB of River, Drain, industrial units, STPs, CETPs, ground water monitoring of the monitoring done by HSPCB.
2	Quality of water bodies in the district	Check availability of data on water bodies. Create a district level monitoring cell for periodic monitoring of water bodies for specific parameters in association with SPCBs. It is also necessary to disseminate information pertaining to water quality in the form of hoardings on river banks; official websites, etc.	Data is maintained by HSPCB of Water bodies. The data is also available on website of HSPCB i.e. <a href="https://hspcb.gov.in/">https://hspcb.gov.in/</a> .	HSPCB/PHED/MC/Hydrologist/Panchayat	Periodic monitoring of water bodies is being done by HSPCB and data is maintained by HSPCB. The data is also available on website of HSPCB i.e. <a href="https://hspcb.gov.in/">https://hspcb.gov.in/</a> .
3	Hotspots of water contamination	Check trends of water quality and identify hotspot of surface water and ground water. Establish a system or separate cell to monitor water quality. Implement action points for restoration of water quality in association With SPCBs and	Hotspot of contaminated site has been identified. The project to connect all the illegal points to STP for treatment of effluent is under process with Municipal corporation.	HSPCB/Irrigation/Panchayat/PHED/HSVP/HSIIDC/Hydrologist/Agriculture/ULB	Regular monitoring of all the such water bodies is being done regularly by HSPCB and proper record of the same is maintained regularly by HSPCB. 33 points as identified by the team of HSPCB and Irrigation department discharging untreated effluent into drain No. 6. Now MCs Sonipat has tapped 24 points and

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		department of environment.			connected to STP Rathdhana. The remaining 9 points will be connected by 15.07.2022. PHED is under process of laying down pipeline for treatment sewerage of Sonipat Town STP Kakroi Road of capacity 25 MLD. The project will be completed by 31.08.2022. Also, a pucca channel has been constructed in the bed of diversion drain no. 8 to carryout the treated effluent of HSIIDC, Kundli. The pucca channel and diversion drain no. 8 has been separated by free Board. During raining season the free board get damaged at some point and result into mixing of effluent thus polluting DD 8 which is meeting River Yamuna at Dahissera. Proposal has been made to provide conduit instead of pucca channel to stop intermixing of effluent. HSIIDC has submitted of Rs. 6 Crore with Irrigation Department and Irrigation Department has invited tender for this project. The target date of completion of the project is 30.06.2023.
4.	Protection of river / lake water front	Action plan should be prepared for control river side open defecation, dumping of Solid waste on river banks, for idol immersion etc.	District Sonipat has been declared open defecation free.	Irrigation and District administration	Action already initiated. Campaigns are being regularly organized regarding Ground water Quality, tube well, Depth, Water level etc. Idol immersion has been strictly prohibited along the bank of River Yamuna.
5	Inventory of water polluted	Check whether inventory of all sewage and wastewater	Inventory of source of water pollution is already	HSPCB/Irrigation/Panchayat/PHED/HSVP/HSIIDC/Hydro	33 points as identified by the team of HSPCB and Irrigation department

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		discharge points into water bodies in the district, Action plan to complete Inventory.	being done by HSPCB and Irrigation Department.	glogist/Agriculture/ULB	discharging untreated effluent into drain No. 6. Now MCs Sonipat has tapped 24 points and connected to STP Rathdhana. The remaining 9 points will be connected by 15.07.2023. PHED is under process of laying down pipeline for treatment sewerage of Sonipat Town STP Kakroi Road of capacity 25 MLD. The project will be completed by 31.08.2023.
6.	Oil spill disaster management (for coastal districts)	Whether district oil spill crisis management group and District Oil Spill Disaster Contingency Plan has been created? If not, create District Oil Spill Crisis Management Group and District Oil Spill Disaster Contingency Plan for the district.	Disaster Management cell exists to overcome any oil spill etc.	PHED/Irrigation/HSVP/ULB /MC/	Action plan will be implemented within six months.
7	Protection of flood plains	Check whether there is regulation for protection of flood plain encroachment? Action plan should be prepared for protection flood plain and prevention of encroachment.	Stud has been created along coastal line of River Yamuna of length 41.574 Kms to avoid any flood during rainy season by Irrigation Department.	Irrigation	Already complied.
8.	Rejuvenation of groundwater	Check availability of groundwater and if required prepare action plan to rejuvenate ground water in selected areas. Action plan should be prepared for Rain water harvesting	Mandatory condition has been imposed by HSVP to provide rain water harvesting system by individual household having area more than 200 square meter All the	Hydrologist/HSVP/PHED/M C	Awareness programme will be conducted. 50 Rain water harvesting pits have been constructed for recharging ground water in Sonipat Town and 25 are under process. Similarly 3 rain water harvesting pit in Gohana, 2 in Kharkhoda and 2 in

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			high rise building are directed to establish proper RW system Water rejuvenation		Kundli have been constructed.
9.	Complaints redressal system	Check whether there is any complaint redressing system based on Mobile App Online. is available? If not, a complaint redressing system based on Mobile App Online should be available at district level	Social media platforms as well as various app are available to general public for complaint.	HSPCB/Irrigation/Panchayat/PHED/HSVP/HSIIDC/Hydroglogist/Agriculture/ULB	SMGT Portal has been developed to file any complaint regarding water pollution.

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## 4.2 Domestic Sewage

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

Details of Data Requirement	Present Status
No of Class-II towns and above	5
No of Class-I towns and above	0
No of Towns STPs installed	7
No of Towns needing STPs	9
No of ULBs having partial underground sewerage network	1
No of towns not having sewerage network	1
Total Quantity of Sewage generated In District from Class II cities and above	79 MLD
Quantity of treated sewage flowing into Rivers (directly or indirectly)	38 MLD
Quantity of untreated or partially treated sewage (directly or indirectly)	41 MLD
Quantity of sewage flowing Into lakes	0
Total available Treatment Capacity	84.3 MLD

### b. Identification of gaps and action plan for treatment of domestic sewage:

S. No.	Action points	Gap and Action Plan	Action Plan	Responsible agency	Timeline for completion of action plan				
					MC Sonipat	MC Kharkhoda	MC Gohana	MC Ganaur	MC Kundli
1	Sewage Treatment Plants (STPs)	Check whether existing capacity of STPs is adequate for treatment of sewage? If no, action plan for additional treatment capacity Required should be prepared in association with ULBs/ department of UD.	The existing STP provided by PHED/MC/HSVP/ are adequate to handle the Domestic effluent.	PHED/ULB/ MC/HSVP	MC Sonipat	MC Kharkhoda	MC Gohana	MC Ganaur	MC Kundli
					Installed	Installed	Installed	Installed	Identification of land is under process. Target date for completion of project is 2025.

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					Adequate capacity of STP has been installed in District Sonipat for treatment of domestic effluent. 33 points as identified by the team of HSPCB and Irrigation department discharging untreated effluent into drain No. 6. Now MCs Sonipat has tapped 24 points and connected to STP Rathdhana. The remaining 9 points will be connected by 15.07.2022. PHED is under process of laying down pipeline for treatment sewerage of Sonipat Town STP Kakroi Road of capacity 25 MLD. The project will be completed by 31.08.2023.
2.	Underground sewerage network	Check available sewerage network and prepare Action plan for laying of sewerage network in town and cities. The project may be executed through ULBs and Department of UD.	Action plan to cover all the domestic effluent through sewage treatment to STP has already been proposed and in under process with Municipal Corporation.	PHED/ULB/MC/HSVP	PHED is under process of laying down pipeline for treatment sewerage of Sonipat Town STP Kakroi Road of capacity 25 MLD. The project will be completed by 31.08.2022. Municipal Corporation, Sonipat is in process of tapping points discharging into drain for connection to STPs installed by MC Sonipat for treatment of domestic effluent. The target date for completion of project is 15.07.2022. MC Kundli has been notified in Aug 2018 and therefore it is under process of identification of land for Construction of STP for treatment of domestic effluent of MC Kundli. It has also proposed of laying sewerage network in MC Kundli for which target date for completion of project has been given year 2025.

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## 5.0 Industrial wastewater management

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

Number of Red, Orange, Green and White industries in the District	[Nos of Red industries=290], [Nos of Orange industries=260], [Nos of Green industries=40], [Nos of White industries=0]
No of Industries discharging wastewater	666
Total Quantity of industrial wastewater generated	33.5 MLD
Quantity of treated industrial wastewater discharged into Nalas / Rivers	28.7 MLD
Common Effluent Treatment Facilities	4
No of Industries meeting Standards	590
No of Industries not meeting discharge Standards	76

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

S. No.	Action points	Gap and Action Plan	Action Plan	Responsible agency	Timeline for completion of action plan
1	Compliance to discharge norms by Industries	Identify gaps w.r.t Industries not meeting the standards. Necessary action be initiated through SPCBs against the Industries not meeting the standards.	No Water Polluting industry is being allowed to operate without installation of Effluent Treatment Plant by individual units to comply with standard norms.	HSPCB	Regular monitoring and inspection of industrial units is being done by HSPCB and action is taken against the unit found exceeding discharge in excess of standard prescribed under EP Act, 1986. Presently action against 76 No. Of water polluting units taken by the Board found discharging into drain.
2	Complaint redressal system	Check if there Is any complaint redressing system based on Mobile App/ Online, is available? If not, a complaint redressing system based on Mobile App / Online portal may be prepared at district level .	SMGT & other social media platform are available to general public for complaint.	HSPCB	SMGT Portal has been developed to file any complaint regarding water pollution.



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## 6.0 Mining Activity Management plan

### a. Current Status related to Mining Activity Management

Details of Data Requirement	Existing Mining operations
Type of Mining Activity	[Sand Mining]
No of licensed Mining operations in the District	Licensed- 15 In operation- 06
% Area covered under mining in the District	0.32 %
Area of Sand Mining	681.87
Area of sand Mining	River bed Yamuna

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

S. No.	Action points	Gap and Action Plan	Action Plan	Responsible agency	Timeline for completion of action plan
1	Monitoring of Mining activity	A district level task force (DLTF) has already been constituted.	--	Mining Department	Regular monitoring will be continue done by the Department more rigorously.
2	Inventory of illegal mining if any mining	No illegal mining activity in Sonipat area.	--	Mining Department	Regular monitoring will be done by the Department.
3	Environment compliance by Mining industry	Action plan for periodic verification of compliance to environmental conditions stipulated by SPCBs/CC, MoEF & CC department of mines etc. SPCBs/PCC may be involved in this activity .	DLTF is inspecting the mining to check Environment norms.	HSPCB	Regular monitoring will be done to check the compliance of environmental conditions.

## 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	HSPCB

1 No.

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

S. No.	Action points	Gap and Action Plan	Action Plan	Responsible agency	Timeline for completion of action plan
1	Availability of Sound/Noise Level Meters.	Need to check whether concerned agencies that are 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.	There is only 01 noise monitoring kit available in District Sonipat with HSPCB. No such monitoring kit available with other agencies i.e. ULB, SHO, Traffic Police.	HSPCB/SHO/Traffic Police/ULB	HSPCB has its own portable noise level meter. The authority ULB, SHO, Traffic Police the procurement of monitoring kits will be done within 03 months i.e. 31.12.2023.
2	Ambient Noise Level monitoring.	ULBs shall ensure that ambient sound levels comply with notified standards for residential, sensitive zones. An action. Apart from portable analyzers, fixed ambient noise level monitoring stations may be installed in major cities and towns, such stations may be installed a by ULBs and SPCB/PCC,	Possibilities of installation of Ambient noise level monitoring station will be explored. Portable analyser will be provided with the enforcement agencies. Special drives for ensuring the ambient noise quality standard will be carried out in residential and sensitive zones. Moreover HSPCB also conduct Ambient Noise level monitoring during festive season.	HSPCB/SHO/Traffic Police/ULB	31.12.2023.
3.	Signboards in Noise zones	District administration may ensure that adequate number of sign boards installed at sensitive zones in towns / cities in towns and cities. An action plan may be prepared by district authority.	MC / PWD / NHAI will install the proper sign board to earmark the silence zone, no horn zone and noise limiting the city.	HSPCB/SHO/Traffic Police/ULB	Signboards at sensitive zones in towns/cities will be installed by concerned authority by 30.09.2023.
4.	Complaint redressing system	Action plan may envisage implementing a public complaint redressal system for noise pollution. Such application may be used by SHOs, Traffic police ULBs and SPCBs In the district.	SMGT portal and CM window portal has been established for addressing any complaint of noise pollution.	HSPCB/SHO/Traffic Police/ULB	Regular activity.

**C) Utilization of treated sewage of all the towns of the district for irrigation**

The Monitoring Committee recommends that the Department of Irrigation shall prepare irrigation schemes for utilization of treated sewage of all the towns of District Sonipat for irrigation and these irrigation schemes may be implemented in a time bound manner and accordingly, action plan, responsible department/ agency and timelines w.r.t. to said activity may be added in the District Environment Plan.

- Bio-sludge from STPs is being used by Farmers as manure. The project for use of treated effluent from STP is to be taken care by Irrigation Department in coordination with PHED and MCs.

**D) Other Environmental Issues**

The Monitoring Committee again recommends that under activities a) management of solid waste and liquid waste generated by the unauthorized colonies/ residential complexes/ commercial complexes developed by private builders, b) management of carcasses in rural area and c) management of solid waste and liquid waste generated by the poultry farms of the Districts, action plan, activities to be carried out and timelines may be mentioned so that the environment pollution caused due to above activities may be controlled in a time bound manner.

**a) Management of solid waste and liquid waste generated by the unauthorized colonies/ residential complexes/ commercial complexes developed by private builders,:**

Management of Solid waste in unauthorized colonies falling in the jurisdiction of Municipal Corporation, Municipal Committee and Municipal Council is done by the respective colonies and Municipal Committees have submitted timelines to manage the solid waste from these area. Private builders are in process of providing compost pit for Wet waste and will make agreement with authorized agencies for disposal of solid waste.

**b) Management of Carcasses in the rural area :**

Presently Deep Burial Method is being adopted in the Village Panchayats and in MC Area for disposal of the dead animals in district Sonipat and 02 slaughter house exists in the jurisdiction of District Sonipat.

**c) Management of solid and liquid waste generated by the poultry farms of the district:**

Presently 01 no of poultry farms existing in the District Sonipat.

- 1 no of poultry farm is having bird capacity more than 1 lac birds and obtained CTO from the Board.
- Inventorization of the data w.r.t capacity of poultry farm, quantity of solid waste and waste water generated by these poultry farm will be completed by 30.09.2023 and action plan for the scientific disposal of the solid waste and waste water generated by these poultry farm will be prepared and implemented by 30.09.2023.