

From

Deputy Commissioner,
Kurukshetra.

To

The Director General,
Environmental & Climate Change Department Haryana,
Bays no. 55-58, Second Floor, Sector-12, Panchkula,

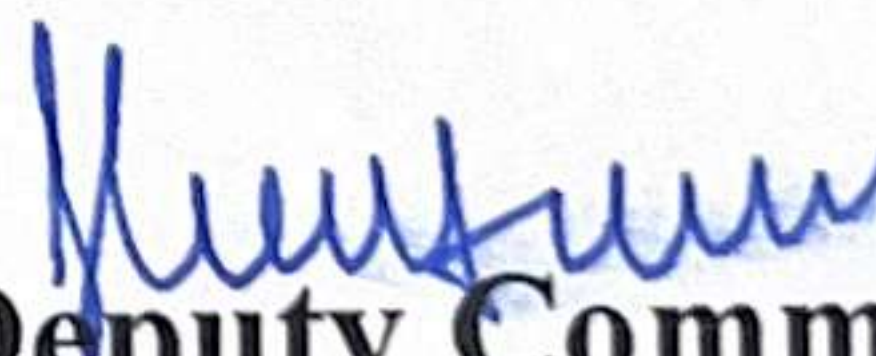
Memo No. 3965

Dt. 23.06.2023

Sub: - Uploading of Revised District Environment Plan for District Kurukshetra in compliance to NGT order dated 08.02.2022 in O.A No. 360/2018 (SLP Civil No. 2959/2014) in the matter of Shree Nath Sharma V/s Union of India & Ors.

In this connection the revised District Environment Plan after amendment is submitted for further uploading on the site of Environment Department Haryana please.

DA:- Revised DEP


Deputy Commissioner,
Kurukshetra.



HARYANA STATE POLLUTION CONTROL BOARD

SCO No.13 P, SECTOR-17, URBAN ESTATE, KURUKSHETRA

E-mail: hspcbrokr@gmail.com

No.HSPCB/KKR/2023/ 366

Dated 23/06/2023

To

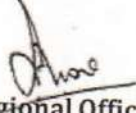
The Deputy Commissioner,
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In this connection, please find enclosed herewith Revised District Environment Plan for District Kurukshetra.

You are requested to forward this District Environment Plan to The Director General, Environmental & Climate Change Department Haryana, Bays no. 55-58, Second Floor, Sector-12, Panchkula for further uploading on the site of Environment Department Haryana please.

DA: Revised DEP


Regional Officer
Kurukshetra Region

District Environment Plan for Kurukshetra, Haryana



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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.

In the above said order dated 26.09.2019, it is stated that among others

12. 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.

13. 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:-

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. The implementation of the DEP requires coordinated efforts of multiple stakeholders and focus on priorities.

1.0 District Profile

Physiographic & Demography

Kurukshetra is a city in the Indian state of Haryana. It is also known as Dharmakshetra ("Holy Place") and as the "Land of the Bhagavad Gita". According to the Puranas, Kurukshetra is a region named after King Kuru, the ancestor of Kauravas and Pandavas in the Kuru kingdom, as depicted in epic Mahabharata. The Kurukshetra War of the Mahabharata is believed to have taken place here. Thanesar whose urban area is merged with Kurukshetra is a pilgrimage site with many locations attributed to Mahabharata.

According to the Vamana Purana, King Kuru chose land at the banks of the Sarasvati River for embedding spirituality with eight virtues: austerity (Tapas), truth (Satya), forgiveness (Kshama), kindness (Daya), purity (Shuddha), charity (Daana), devotion (Yajna), and conduct (Brahmacharya). Lord Vishnu was impressed with the acts of King Kuru and blessed him with two boons—first, that this land forever will be known as a Holy Land after his name as Kurukshetra (the land of Kuru); second that anyone dying on this land will go to heaven.

District Environment Plan, Kurukshetra

Kurukshetra a holy city and the sale, possession, and consumption of meat are banned within the limits of the Municipal Corporation due to its religious significance.

The climate of the district varies as the temperature in summer reaches as high as 47 °C, and as low 1 °C in winter, with rains in July and August.

Hindu Religious Sites

Brahma Sarovar: Every year lakhs (hundreds of thousands) of people come to take a holy bath at Brahma Sarovar on the occasion of "Somavati Amavasya" (Sacred No-Moon Day that happens on a Monday) and on solar eclipses. They believe that a bath in the holy Sarovar frees all sins and cycle of birth-death. The Sarovar is one of Asia's largest man-made ponds.

Sannihit Sarovar: The pond is believed to be the meeting point of seven sacred Saraswatis. The Sarovar, according to popular belief, contains sacred water. Bathing in the waters of the tank on the day of Amavasya (night of complete darkness) or on the day of an eclipse bestows blessings equivalent to performing the Ashvamedh Yajna.

Jyotisar: It is at this place where lord Krishna delivered the Bhagavad Gita to Arjuna to remove his confusion and dilemma and prepared him to face stronger and greater warriors like Bhishma Dronacharya and Karna in the Mahabharata War. The banyan tree under which the Bhagavad Gita was delivered still stands.

Kurukshetra Panorama and Science Centre:

Kurukshetra Panorama and Science Centre is a unique Centre that combines science with religion. The main attraction of the Centre is a life-like panorama of the epic battle of Kurukshetra that showcases Mahabharata war with scientific explanations justifying every episode in the war. The magnificent two-storied building of the Centre has cylindrical walls. The Centre has an interesting exhibition called 'India: A Heritage in Science, Technology and Culture', consisting of working and interactive exhibits on ancient Indian concept of properties of matter, structure of atom, geometry, arithmetical rules, astronomy, medicine and surgery. The tall and cylindrical building has elegant architecture and ambience. On the centre of the cylindrical hall, there are paintings 34-feet in height depicting various episodes of Mahabharata from confrontation between the Pandavas and the Kauravas to the diorama of the battleground that epitomises the carnage realistically. The chanting of Gita and distant war cries blended with lighting illusions end a perfect ambience. A Science Park has also been set up outside the Centre's building. It is a refreshing concept of science learning for children

District Environment Plan, Kurukshetra

through fun and enjoyment. Not only children but also adults get attracted to these aesthetically placed exhibits in the greenery of the park.

Dharohar Museum: Dharohar, a museum to showcase the unique archeological, cultural and architectural heritage of Haryana. It also has an open-air theatre for cultural performances. A museum about the tradition and cultural depiction of Haryana located in Kurukshetra University.

Sthaneshwar Mahadev Temple:- The temple called Sthaneshwar is dedicated to Lord Shiva, the presiding deity of the ancient city of Sthaneshwar presently known as Thanesar city or Kurukshetra city. The legends place its antiquity to Mahabharata period. It is said that Krishna worshiped Lord Shiva Done Abhishekam here along with the Pandavas and got the blessing for the victory in the forthcoming battle of Mahabharata. Krishna specially prayed O God “Maheshwara”, I will protect pandavas(Dharma) in any situation, but there are some powerful Astras which I can't "it is also believed that Kauravas consist of deadliest astra which can't be controlled by any one except lord Shiva who is Mahakaal pilgrimage to Kurukshetra without visiting this tirtha is supposed to be incomplete and fruitless. Pushpabhuti, the founder of the Vardhana Empire of Thanesar named the capital of his kingdom after Sthaneshwar Shiva. The present temple is said to be constructed by Sadashivrao Bhau, the Commander-in-Chief of Maratha forces, to commemorate his victory over Ahmed Shah Abdali at Kunjpura before the third battle of Panipat.

Shaktipeeth Shri Devikoop Bhadrakali Mandir:- is also known as “Savitri Peeth”, “Devi Peeth”, “Kalika Peeth” or “Aadi Peeth”. Our Scriptures say that unable to stand slander and calumny let loose on her husband, Lord Shiva, Devi Bhagwati laid down her life and became a ‘Sati’. Clasp her holy dead body to his heart, the distraught Shiva started pacing all over the universe. Watching all this, Lord Vishnu cut her dead body with his ‘Sudarshan chakra’ into 52 parts. In this way, the places where these parts fell, emerged as sacred “Shaktipeeth”. All this was done for general good of one and all. Naina Devi, Jwala ji, Kamkhya ji etc are among the 52 holy Shaktipeethas. It is believed that right ankle of Maa Sati fell down at Shaktipeeth Shri Devikoop Bhadrakali Mandir in Kurukshetra. The legend has it that before marching out for the battle of Mahabharta, the Pandvas along with Lord Krishna offered worship here praying for their victory and donated the horses of their Chariots which made it an age-old tradition of offering horses made of silver, mud etc, depending upon one’s means, once the desire have been met. The Tonsure (head shaving) ceremony of Shri Krishna & Balram was also performed at this Shaktipeeth Shri Devikoop Bhadrakali Mandir.

Economy:

Agriculture

The economy of the district is primarily agrarian, An overwhelming work force is engaged as cultivators and agriculture labourers. The district enjoys an ideal location benefits being situated adjacent to NH 1. It is coming up as an industrial belt and has started throbbing with the wide spectrum of developmental activities and unfolds immense potential of industrial opportunities. Farming is the main occupation of the people as a sizeable percentage i.e. over 90% of people are engaged in various agricultural pursuits. Wheat and Rice are the main crops of the district. Among the commercial crops sugarcane is an important crop of this district. It covers approximately an area of 12 thousand hectares in the district Kurukshetra. Cultivation of vegetables especially of potato is very popular in Kurukshetra district. The approximate production of potato crop in Kurukshetra district is about 5645 tonns.

Dairy Farming

To supplement the income, dairy farming and cattle rearing is another occupation adopted by the people which is strengthening economy of the district. Most of the agriculturists are engaged in either dairy farming, poultry farming, pig farming etc.as a side business. To support this occupation there is wide network of veterinary facilities which includes Civil Veterinary Hospital, Dispensaries and Stockmen Centres, as well as Artificial Insemination Centres, Poultry-cum-Piggery Centre. There are Milk plants in private sector in Kurukshetra itself, whereas another one is situated just near Kurukshetra i.e. in Karnal. A wide net work of Milk Cooperative Societies is adding to the economic condition of poor rural people.

Industry

Being agriculture based economy, industrial set up in the district is also agro based, as there are number of small and big Rice Shellers and Wheat Processing Units. A conscious attempt has been made by the District Industries Centre, Kurukshetra to identify the small-large scale industry having scope in the district. For promotion of industrialization, a special Sector i.e. Sector-3 has been developed as Industrial Area where number of small scale units have been established.

Banking

The District also boosts of wide network of Commercial Bank branches. The Punjab National Bank is the Lead Bank of the district. Commercial banks, Regional Rural Bank (Ambala Kurukshetra Gramin Bank) and Co-operative banks look after the financial needs of the growing economy of the district.

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

(i) Solid Waste Management

Kurukshetra District has 4 No Committees and 1 Council in District Kurukshetra. The Solid Waste Management details of each ULB is as under :-

Sr. No.	Urban Local Bodies	No. of Ward	No. of Households	Solid Waste Generated per day (TPD)	Total Population.
1	Municipal Council, Thanesar.	31	55,000	140.00	2,50,000
2	Municipal Committee, Pehowa.	17	11322	22	38855
3	Municipal Committee, Shahabad,	19	18373	25	45676
4	Municipal Committee, Ladwa.	15	8316	18	31775
5	Municipal Committee, Ismailabad.	13	2768	10	16133

a. Current Status related to Solid Waste Management.**Performa for the Compliance of District Environment Plan in respect of District, Kurukshetra.**

Sr. No	Details to be Filled	Status				
	Name of the ULB:	Municipal Council, Thanesar	Municipal Committee, Pehowa	Municipal Committee Shahabad (M.)	Municipal Committee, Ladwa	Municipal Committee, Ismailabad
	Name of the Nodal Officer: DMC, Kurukshetra	Surender Singh, (E.E)	Pritpal Singh, Municipal Engineer	Bharat Bhushan, Municipal Engineer	Parvesh Kaushish, Municipal Engineer.	Pritpal Singh, Municipal Engineer (Addl. Charge)

District Environment Plan, Kurukshetra

		8708374707	9817064816	94166-30078	9729449000	9817064816
	Contact No.		6			
1	Total No. of Wards	31	17	19	15	13
2	Total NO. of Households	55000	11322	18573	8316	2768
3	Total Waste Generated (in TPD)	140.00	22	25	18	10
4	Door to Door Collection of solid waste	-	-	-	-	-
4.1	Total No. of household covered under Door to Door Collection of solid waste	55,000	11322	18573	8316	2768
4.2	Total No. of wards covered under Door to Door Collection of solid waste	31	17	19	15	13
4.3	% age of door to door collection of solid waste achieved	100%	100%	100%	100%	100%
4.4	Gap to achieve 100% Door to Door collection	0%	0%	0%	0%	0%
4.5	If there is gap, then Timeline to achieve 100% Door to Door collection	Already Achieved	Already Achieved	Already Achieved	Already Achieved	Already Achieved
5	Source Segregation of solid waste					
5.1	Total No. of household covered under source segregation of solid waste	55000	11322	18573	8316	2768
5.2	Total No. of wards covered under source segregation of solid waste	31	17	19	15	13
5.3	% age of source segregation of solid waste achieved	100% source segregation is being done by Sugam Swatch Pvt. Ltd	100% source segregation is being done by Sugam Swatch Pvt. Ltd	100% source segregation is being done by Sugam Swatch Pvt. Ltd	100% source segregation is being done by Sugam Swatch Pvt. Ltd	100% source segregation is being done by Sugam Swatch Pvt. Ltd
5.4	Gap to achieve 100% Segregation	Already Achieved	Already Achieved	Already Achieved	Already Achieved	Already Achieved
5.5	If there is gap, then Timeline to achieve 100% Segregation	Nil	Nil	Nil	Nil	Nil
6	Litter Bins					
6.1	Tick the Correct and Provide the Details as required: -					
6.1.1	• Bin free	Yes	Yes	Yes	Yes	Yes

District Environment Plan, Kurukshetra

	Residential area					
6.1.2	• Whether Litter Bins still exist in residential area	No	No	No	No	No
6.2	No. of Litter Bins required in Commercial places and public places (as per SWM Guidelines)	87	100	150	50	15
6.3	No. of Litter Bins installed in Commercial areas and public places	87	22	150	50	07
	Mechanism adopted to ensure segregation of solid waste at litter Bins sites in commercial areas and public places and its further transportation in the segregated form	Two garbage bins. Installed for dry & wet waste in litter bins. Further disposed off separately	Two garbage bins. Installed for dry & wet waste in litter bins. Further disposed off separately	Two garbage bins. Installed for dry & wet waste in litter bins. Further disposed off separately	Two garbage bins. Installed for dry & wet waste in litter bins. Further disposed off separately	Two garbage bins. Installed for dry & wet waste in litter bins. Further disposed off separately
7	Separate Transportation					
7.1	No. of vehicles required for the collection and transportation of solid waste.	94	17	15 Motorized 10 non-Motorized	15 Motorized	11
7.2	No. of vehicles available with the ULB for collection and transportation of solid waste along with percentage.	81Tata Ace, 7Tractor Trally,1 sweeping machine,3 JCB, 2Truck	08 Tata Ace, 2 Tractor Trolley 02 Try cycle	23	15Tata Ace, 1 Tractor Trolley, 1 Road sweeping machine, 01 Dumper placer	04 Tata Ace, 1Tractor Trolley 04 Try cycle
7.3	Gap, if any	Nil	05	02	Nil	02
7.4	If there is gap, then Timeline to achieve the gap.	Achieved	30.09.2023	30.09.2023	Achieved	30.09.2023
7.5	No. of compartmentalized vehicles along with percentage.	81	10 (100%)	17	15 Tata Ace (100%)	5(100%)
7.6	Gap to achieve 100% compartmentalized vehicles.	Nil	Nil	Nil	Nil	Nil
7.7	If there is gap, then Timeline to achieve 100% compartmentalized vehicles.	Achieved	Achieved	Achieved	Achieved	Achieved
7.8	No. of vehicles with GPS for the collection and	80	08	10	15	4

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	transportation of solid waste along with percentage.					
7.9	Gaps to achieve 100% vehicles with GPS for the collection and transportation of solid waste.	Achieved	Achieved	Achieved	Achieved	Achieved
7.10	If there is gap, then Timeline to achieve 100% vehicles with GPS for the collection and transportation of solid waste.	Achieved	Achieved	Achieved	Achieved	Achieved
8	Solid Waste Processing					
8.1	Total amount of solid waste generated within the ULB	140.00 TPD	22 TPD	25 TPD	18 TPD	8 TPD
8.2	Quantity of wet waste generated (in TPD)	100.0 TPD Approx	14 TPD	16 TPD	12.6 TPD	6 TPD
8.3	Quantity of dry waste generated (in TPD)	40 TPD Approx.	8 TPD	09 TPD	5.4 TPD	02 TPD
8.4	Whether Processing of dry waste is done or not. (If Yes, mechanism adopted for the same)	Processing of dry waste report can be submitted after establishment of processing center by the agency.				
8.4.1	Quantity of dry Waste processed (in TPD) along with percentage	Quantity of dry waste report can be submitted after processing center by the agency.				
8.4.2	Gap in processing of Dry Waste.	Processing of dry waste report can be submitted after establishment of processing center by the agency.				
8.4.3	If there is a Gap, then Timelines to achieve 100% Processing of dry waste	31.12.2023	31.12.2023	31.12.2023	31.12.2023	31.12.2023
8.5	Construction of MRFs					
8.5.1	Number of MRFs required in MC.	1 No	1 No	1 No	1 No	1 No
8.5.2	How many MRFs are available within the ULB	MRF Center report can be established of MRF center by the agency.				
8.5.3	Gap , if any	01	01	01	01	01
8.5.4	If there a Gap, then timelines to achieve the Gap	31.12.2023	31.12.2023	31.12.2023	31.12.2023	31.12.2023
8.5.5	Capacity of available MRFs	Nil	Nil	Nil	Nil	Nil

District Environment Plan, Kurukshetra

8.6	Quantity of wet Waste processed (in TPD) along with percentage	Nil	Nil	Nil	Nil	Nil
8.6.1	Gap in processing of Wet waste.	100%	100%	100%	100%	100%
8.6.2	If there is a Gap, then Timeline to achieve 100% Processing of wet waste	31.12.2023	31.12.2023	31.12.2023	31.12.2023	31.12.2023
8.6.3	Number of compost pits required for processing of total wet waste of ULB	Cluster based tender has been done, Door to Door collection is being done by Concessioner for processing of waste land yet to be allotted.				
	Number of compost pits provided for processing of wet waste	Cluster based tender has been done, Door to Door collection is being done by Concessioner for processing of waste land yet to be allotted.				
	<ul style="list-style-type: none"> Timelines for construction of remaining compost pits 	31.12.2023	31.12.2023	31.12.2023	31.12.2023	31.12.2023
8.6.4	Kindly mention any other mode for treatment of wet waste	Encourage citizens to start home composting	Encourage citizens to start home composting	Encourage citizens to start home composting	Encourage citizens to start home composting	Encourage citizens to start home composting
8.7	Whether there is proposal to setup Integrated Scientific Solid Waste Management facility.	Cluster based tender has been done, Door to Door collection is being done by Concessioner for processing of waste land yet to be allotted.				
8.7.1	If yes mention timelines.	31.12.2023	31.12.2023	31.12.2023	31.12.2023	31.12.2023
8.7.2	Month wise progress.	Monthly progress report can be submitted after finalizing the land for setup Integrated Scientific Solid Waste Management facility				
8.7.3	Status of issuance of authorization under SWM Rules-2016.	Land yet to be finalized				
8.8	Quantity of total solid waste processed (dry waste processing + wet waste processing) (in TPD) along with percentage.	Quantity of total solid waste report can be submitted after finalizing the land and processing Solid Waste.				
9.	Plastic Waste Management					
9.1	Quantity of Plastic Waste (TPD)	Quantity of plastic waste report can be submitted after finalizing the land and processing plastic waste.				
9.2	No. of collection Centre required for Plastic Waste	1	1	1	1	1
9.3	No. of collection Centre provided for	0	0	0	0	0

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	Plastic Waste					
9.4	Gap , if any	1	1	1	1	1
9.5	If there a Gap, then timelines to achieve the Gap	Collection Centre report can be submitted after finalizing the land and processing plastic waste.				
9.6	Mechanism for collection for Plastic Waste	Collected by Concessioner	Collected by Concessioner	Collected by Concessioner	Collected by Concessioner	Collected by Concessioner
9.7	Mechanism for segregation for Plastic Waste	Segregated by Concessioner after establishment of MRF Centre	Segregated by Concessioner after establishment of MRF Centre	Segregated by Concessioner after establishment of MRF Centre	Segregated by Concessioner after establishment of MRF Centre	Segregated by Concessioner after establishment of MRF Centre
9.8	No. of rag pickers integrated	00	00	00	00	00
9.9	Mechanism of scientific disposal of Plastic Waste	Mechanism of scientific disposal of Plastic Waste can be submitted after establishment of Processing facility				
9.10	Quantity of Plastic Waste being disposal scientifically (TPD)	Quantity of Plastic Waste can be submitted after establishment of Processing facility				
9.11	Quantity of Plastic Waste recycled (TPD)	Nil	Nil	Nil	Nil	Nil
9.12	Quantity of Plastic Waste used for road construction (MT)	Nil				
9.13	Quantity of Plastic Waste used for incineration in cement plants (MT)	Nil				
9.14	No. of Producers, Importers, Brand-owners (PUBOs) engaged under extended Producer Responsibility (EPR)	Nil				
9.15	No. of awareness activities conducted	Awareness is being done through jingles in the MC Area through jingles bells on vehicles				
10	C&D Waste					
10.1	Quantity of C&D waste generated (in TPD)	0.75	0.045	1.6	0.066	0.00001
10.2	Mechanism for proper collection, transportation, processing, and disposal of C&D Waste.	One trolley provide by the ULB fir C&D Waste. MC has passed resolution of processing and disposal of C&D Waste	One trolley provide by the ULB fir C&D Waste. MC has passed resolution of processing and disposal of C&D Waste	One trolley provide by the ULB fir C&D Waste. MC has passed resolution of processing and disposal of C&D Waste	One trolley provide by the ULB fir C&D Waste. MC has passed resolution of processing and disposal of C&D Waste	One trolley provide by the ULB fir C&D Waste. MC has passed resolution of processing and disposal of C&D Waste

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10.3	Whether separate site for storage of C&D waste has been identified or not. (If Yes, Kindly Mention the details of the site)	Yes Site is identified. This Site is situated on Village Bahari	Yes Site is identified. This Site situated on KKR Road.	Yes Site is identified. This Site situated at back side of MC office	Yes, babain road	Yes, (Kathgarh Road near Govt. Model Sr.Sec. School Ismailabad)
10.4	If the storage site is identified, please confirm if it is notified	Yes Site is identified. This Site is situated on Village Bahari	Yes Site is identified. This Site situated on KKR Road.	Yes Site is identified. This Site situated at back side of MC office	Yes, babain road	Yes, (Kathgarh Road near Govt. Model Sr.Sec. School Ismailabad)
10.5	Whether processing of C&D waste is done or not (If Yes, mechanism adopted for the same)	C&D waste is being used low lying area .	- C&D waste used for refilling of low lying area	- C&D waste used for refilling of low lying area	C&D waste used for refilling of low lying area	C&D waste used for refilling of low lying
10.6	Details of machinery installed for Processing of C & D waste	One machinery installed	Processing is done manually	Processing is done manually	Processing is done manually	Processing is done manually
10.7	Kindly explain end use of recycled products generated from C & D processing plant	C&D waste is being used low lying area and used as base course for unpaved streets	C&D waste is being used low lying area and used as base course for unpaved streets	C&D waste is being used low lying area and used as base course for unpaved streets	C&D waste is being used low lying area and used as base course for unpaved streets	C&D waste is being used low lying area and used as base course for unpaved streets
10.8	Status of clearance of old dumping sites along the road side and water bodies	There is no dumping site along the roadside and water bodies	There is no dumping site along the roadside and water bodies	There is no dumping site along the roadside and water bodies	There is no dumping site along the roadside and water bodies	There is no dumping site along the roadside and water bodies
10.9	No. of approvals granted of waste management plans submitted by waste generators before construction starts.	No approval granted of waste management plant				
11	Plastic waste and other solid waste Challans					
11.1	No. of recyclers registered	1	0	01	0	0
11.2	No. of Challans issued (during the last three months)	5	9	14	3	03
11.2.1	No. of Challans issued for selling/use of Plastic carry bags or single use plastic items by the shops/ individuals	5	9	14	3	03
11.2.1.1	Amount of fine (in Rs.) imposed on the violators	2500	4500	7000	1500	1500
11.2.1.2	Amount of fine (in Rs.) collected from the violators	2500	4500	7000	1500	1500

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11.2.2	No. of Challans issued for littering of plastic waste	2	1	0	0	1
11.2.2.1	Amount of fine (in Rs.) imposed on the violators	1000	500	0	0	500
11.2.2.2	Amount of fine (in Rs.) collected from the violators	1000	500	0	0	500
11.2.3	No. of Challans issued for burning of plastic waste	1	0	0	0	0
11.2.3.1	Amount of fine (in Rs.) imposed on the violators	500	0	0	0	0
11.2.3.2	Amount of fine (in Rs.) collected from the violators	500	0	0	0	0
11.2.4	No. of Challans issued for littering of other solid waste	1	0	0	0	0
11.2.4.1	Amount of fine (in Rs.) imposed on the violators	500	0	0	0	0
11.2.4.2	Amount of fine (in Rs.) collected from the violators	500	0	0	0	0
11.2.5	No. of Challans issued for burning of other solid waste	1	0	0	0	0
11.2.5.1	Amount of fine (in Rs.) imposed on the violators	500	0	0	0	0
11.2.5.2	Amount of fine (in Rs.) collected from the violators	500	0	0	0	0
11.2.6	Total Amount of fine collected (in Rs.) for	5000	5000	7000	1500	2000

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	selling/use of plastic carry bags or single use plastic items by the shops/individuals, burning of plastic waste, littering of plastic waste, burning of other solid waste and littering of other solid waste(during the last three months)					
12	Bulk Waste Generators (BWGs) identification and processing of solid waste					
12.1	Total No. of BWGs Identified a. With 100 Kg and above solid waste/day. b. with 50 Kg to 100 kg solid waste/day.	11	00	00	00	00
		10	12	08	06	05
12.2	Quantity of solid waste generated by the identified BWGs (in TPD)	1.5	0.8	0.8	0.7	0.125
12.3	Total No. of BWGs processing waste within their premises along with percentage.	4 (80%)	8 (60%)	05 (70%)	3 (40%)	4 (60%)
12.4	Total No. of BWGs processing waste outside their premises along with percentage	7 (80%)	4 60%	3 (70%)	3 (40%)	1 (60%)
12.4.2	Gap in 100% processing of waste by BWGs within or outside their premises	20%	40%	30%	60%	40%
12.4.3	If there is a Gap, then timeline to achieve 100% processing done by BWGs within or outside their premises	30.09.2023	30.09.2023	30.09.2023	30.09.2023	30.09.2023
12.5	Recovery and fine/penalty mechanisms on those BWGs who are not processing the waste either within their premises or outside their premises	By Laws has been notified and published in Newspaper and team of sanitation staff is constitutes for monitoring the bulk waste generator activity	By laws has been notified and publish in newspaper and team of sanitation staff is constitutes for monitoring the bulk	Notice have been issued to all BWGs to start composting within their premises otherwise fine will be imposed against violators	By Laws has been notified and published in Newspaper and team of sanitation staff is constitutes for monitoring the bulk waste generator activity	By Laws has been notified and published in Newspaper and team of sanitation staff is constitutes for monitoring the bulk waste generator activity

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			waste generator activities			
12.6	Amount of fine/penalty recovered (in Rs.)	0	0	0	0	0
12.7	Kindly confirm whether BWGs have signed an agreement with ULB (MC) for delivering of dry waste to MC with suitable user charges	No. But MC collecting Dry waste from BWG & getting user charges.	No. But MC collecting Dry waste from BWG & getting user charges.	No. But MC collecting Dry waste from BWG & getting user charges.	No, because they were issued notice that not use the thermocol and plastic items single use and these items are banned.	No. But MC collecting Dry waste from BWG & getting user charges.
13	Preventing solid waste from entering into water bodies					
13.1	Detailed Information of Mechanism Adopted (wire-mesh, etc.)	Screening has been done on all the main nallahs of the city so that solid waste does not enter the sewer line or any major drain. Swing mesh installed where required	Screening has been done on all the main nallahs of the city so that solid waste does not enter the sewer line or any major drain.	Screening has been done on all the main nallahs of the city so that solid waste does not enter the sewer line or any major drain.	Screening has been done on all the main nallahs of the city so that solid waste does not enter the sewer line or any major drain.	Screening has been done on all the main nallahs of the city so that solid waste does not enter the sewer line or any major drain.
13.2	Drains/ nallahs within Municipal limits (Responsibility of Municipality/ MC)	15	12	10	11	12
13.2.1	Name of drains/nallahs where steps have been completed to prevent entering of solid waste	<u>(Gandhi Nagar, Kirti Nagar, Kailash Nagar, Amin Nagar, Gamri Nagar, Narakatari Nagar, 50 Foota Road, Old bustand rotary chowk, Jhansa Road, Saswati Pull tak, Malik Medical Hall To Bhadarkali Mandir Chowk, Railway Station To</u>	(Kaithal road Kurukshetra a road Ambala road)*2 Guga madi road Fathe singh road Main bazar Shamshan road Shorgir Mohalla Gurudwara road entering of solid waste	Barara Road to public health disposal, near janta school, hayer hospital to Ram Parsad school, Pujani provisional store to sabji mandi gate, mahindru hospital to rajdhani furniture, Devi mandir road, ladwa chownk devi mandir chownk (both sides) , chakwalia	Babain road, S.K. road, red road, hinori road	Main Bazar, Roshanpur Road, Thaska Road, Kathgarh Road

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		<u>gurudwara 6th Pathshai Gurudwara, Birla Mandir Chowk RamChandar Colony Fauji Colony.</u>					dhaba to lucky colony, omi dairy to barara road		
13.2.2	Name of drains/nallahs where steps have not been completed to prevent entering of solid waste	Through STP and Nallas/ drain connected with PHED and HSVP		Through STP and Nallas/ drain connected with PHED		Through STP and Nallas/ drain connected with PHED		Through STP and Nallas/ drain connected with PHED	
Sr. No.	Name of the Block	Ba bai n	Ismaila bad	Ladw a	Pehow a	Pipli	Shahabad	Thanesar	
13.3	Drains/nallahs outside Municipal limits (Responsibility of Rural development & Panchayat department)	Block Bb ain	Block Ismaila bad	Block Ladw a	Block Pehow a	Block Pipli	Block Shahabad	Block Thanesar	
13.3.1	Name of drains/nallahs where steps have been completed to prevent entering of solid waste	Sar as wat i	Markan da	Rakhi	Sarwa ti	Sarswati & chotang nalla	Markanda River & Rakhi nalla	Saraswat i	
13.3.2	Name of drains/nallahs where steps have not been completed to prevent entering of solid waste	0	0	0	0	0	0	0	
14	User Fees								
14.1	Whether User Fee has been notified or not. (If Yes, kindly provide the Notification)	Yes		Yes		Yes		Yes	
14.2	No. of households where User Fee has been prescribed	35587		11322		18573		8316 2768	
14.3	No. of Wards where User Fee has been prescribed	31		17		19		15 13	
14.4	How much recovery is done and what are the adopted mechanisms	Total recovery of Rs.11,24,530 /- (approx.)has been done for		Total recovery of Rs. 7,26,600/-		Total recovery of Rs. 6,58,405/- has been done for the period of		Total recovery of Rs. 9,28,097/- has been done for the period of	
		Total recovery of Rs. 64,860/- has been done for the period							

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		the period of Month April and May 2023. The mechanism for collecting user charges is done along with the property tax in form of G8 software Developed by ULB Haryana	has been done for the period of Month April to June 2023. The mechanism for collecting user charges is done along with the property tax in form of G8 software Developed by ULB Haryana	Month April to June 2023.. The mechanism for collecting user charges is done along with the property tax in form of G8 software Developed by ULB Haryana	Month April to June 2023.. The mechanism for collecting user charges is done along with the property tax in form of G8 software Developed by ULB Haryana	of Month April to June 2023. The mechanism for collecting user charges is done along with the property tax in form of G8 software Developed by ULB Haryana
15	Garbage Vulnerable Points (GVPs)					
15.1	No. of GVPs Identified	31	7	02	4	2
15.2	No. of GVPs removed <ul style="list-style-type: none"> Steps taken to convert the vacated places after removing GVPs into sitting places, playgrounds, parks, gardens or any other useful usages 	31 IPB pavor blocks & Benches installed further beautification also done.	7 Nil.	02 Both GVP are transformed into chowks	4 After removing GVP Beautify the place through placing flowerpot.	2
15.3	Timelines to remove the pending GVPs	Achieved	Achieved	--	Achieved	Already achieved
16	Citizen Grievance Redressal					
16.1	No. of complaints registered (in one month)	18	9	04	05	7
16.2	No. of complaints redressed	18	9	04	05	7
16.3	Action taken, if complaints are not redressed	Help Desk established by MC and monitoring on daily basis.	Monitored on daily basis	All Complaints are resolved within timeline.	Monitored on daily basis	Resolved in timeline
17	Legacy waste treatment					
17.1	<ul style="list-style-type: none"> Location and area under legacy waste dump site Quantity of legacy waste dumped at the dumpsite (MT) Status of boundary wall and green belt around the legacy waste 	Pipli Near Zoo Village Bazidpur,. Site. But there is no legacy waste at dumpsite. Not submitted latest status along with photographs	KKR road, Pehowa. 10660 MT Yes, Boundary wall has been built up around the dump site	Village Kalyana • 12795 MT • Yes, Boundary wall and green belt both available.	Babain road 9000MT	there is no legacy waste at dumpsite.

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	dump site					
17.2	Treatment of legacy waste	Legacy waste treatment will be done by the agency i.e., M/s Sugam Swatcchta pvt. Ltd.	Legacy waste treatment will be done by the agency i.e., M/s Sugam Swatcchta pvt. Ltd.	Legacy waste treatment will be done by the agency i.e., M/s Sugam Swatcchta pvt. Ltd.	Legacy waste treatment will be done by the agency i.e., M/s Sugam Swatcchta pvt. Ltd.	Legacy waste treatment will be done by the agency i.e., M/s Sugam Swatcchta pvt. Ltd.
	•Steps taken for treatment of legacy waste and completion date of the project	Legacy waste treatment will be done by the agency i.e., M/s Sugam Swatcchta pvt. Ltd.	Legacy waste treatment will be done by the agency i.e., M/s Sugam Swatcchta pvt. Ltd.	Legacy waste treatment will be done by the agency i.e., M/s Sugam Swatcchta pvt. Ltd.	Legacy waste treatment will be done by the agency i.e., M/s Sugam Swatcchta pvt. Ltd.	Legacy waste treatment will be done by the agency i.e., M/s Sugam Swatcchta pvt. Ltd.
	• Steps taken for treatment of leachate and final disposal of treated leachate	Will be completed within 4 month after award of contract.	Will be completed within 4 month after award of contract.	Will be completed within 4 month after award of contract.	Will be completed within 4 month after award of contract.	Will be completed within 4 month after award of contract.
17.3	Quantity of by-products recovered during treatment of legacy waste (MT).	N/A	--	--	N/A	0
	a) Soil enriched material	N/A	--	--	N/A	0
	b) RDF recovered	N/A	--	--	N/A	0
	c) C&D material recovered	N/A	--	--	N/A	0

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	d) Inert material produced	N/A	--	--	N/A	0
18	Information Education & Communication activities (IEC) for awareness of the public					
18.1	No. of awareness activities for segregation of solid waste and storage of segregated solid waste at source in different bins, home composting, biogas generation, hand over segregated waste to waste pickers, payment of user fee etc. and number of participants participated in these awareness activities and workshops/trainings. Kindly provide details of such activities conducted during the last three months.	Awareness activities has been done by announcements made by jingles on tippers, munadi and pamphlets. Message has also been flashed on MC Social Media Handle.	Awareness activities has been done by announcements made by jingles on tippers, munadi and pamphlets. Message has also been flashed on MC Social Media Handle.	Awareness activities has been done by announcements made by jingles on tippers, munadi and pamphlets. Message has also been flashed on MC Social Media Handle.	Awareness activities has been done by announcements made by jingles on tippers, munadi and pamphlets. Message has also been flashed on MC Social Media Handle.	Awareness activities has been done by announcements made by jingles on tippers, munadi and pamphlets. Message has also been flashed on MC Social Media Handle.
19	On-site composting of horticulture waste in Parks & Institutions					
19.1	No. of parks within Municipal limits	102	5	15	2	1
19.1.1	No. of compost pits required in Parks.	35	6	15	3	1
19.1.2	No. of compost pits provided in the parks	24	6	15	3 (Jindal park, park at Kheda Road)	1 (MC park near community center near NH 152 D)
19.1.3	Gap, if any	11	0	0	0	0
19.1.4	Timelines to complete 100% parks with compost pits or any other mode of treatment of wet waste.	Achieved	Achieved	Achieved	Achieved	Achieved
19.2	No. of Institutes in the city	38	20	22	12	6
19.2.1	No. of institutes doing on site composting	12	4	9	2	2

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19.2.2	Timelines to complete 100% institutes with compost pits or any other mode of treatment of wet waste	30.09.2023	30.09.2023	30.09.2023	30.09.2023	30.09.2023
20.	E-Waste					
20.1	No. of E-Waste generators	E- Waste Generators report can be submitted after establishment of E- collection center by the Agency i.e M/s Sugam Swatcchta.				
20.2	Quantity of E-Waste (TPD)	Quantity of E- Waste Generators report can be submitted after establishment of E- collection center by the Agency i.e., M/s Sugam Swatcchta.				
20.3	No. of collection Centre required for E-Waste	1	1	1	1	1
20.4	No. of collection Centre provided for E-Waste	Report of No. of collection Centre provided for E-Waste can be submitted after establishment of E-Waste by the Agency.				
20.5	Gap , if any	1	1	1	1	1
20.6	If there a Gap, then timelines to achieve the Gap	31.12.2023	31.12.2023	31.12.2023	31.12.2023	31.12.2023
20.7	Mechanism for segregation for E-Waste	Manually	Manually	Manually	Manually	Manually
20.8	Mechanism of scientific disposal of E-Waste	Handled by agency after establishment of scientific disposal of E-waste				
20.8.1	Quantity of E-Waste being disposed scientifically (TPD)	Quantity of E-Waste can be submitted after E-waste center by the agency.				
20.9	No. of dismantles, refurbishes, recyclers identified.	Handled by the agency				
20.10	Quantity of E-Waste managed by them	Quantity of E-Waste can be submitted after E-waste center by the agency.				
20.11	IEC activities conducted	Handled by the agency				

a. 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
1.	Segregation				
(i)	Segregation of waste at source	100% achieved	Regular activity	Municipal Council, Thanesar, Pehowa, Ladwa, Shahabad &	

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					Ismailabad	
2	Sweeping					
(i)	Manual Sweeping	100% achieved	Regular activity	Municipal Council, Thanesar, Pehowa, Ladwa, Shahabad & Ismailabad	Regular	
(ii)	Mechanical Road Sweeping & Collection	Mechanical Road Sweeping Machine provided by MC Thanesar and Ladwa. No Mechanical Machine required for MC Pehowa, Shahbad & Ismailabad	No gap.	Municipal Council, Thanesar, Pehowa, Ladwa, Shahabad & Ismailabad	It's a regular activity.	
3	Waste Collection					
(i)	100% collection of solidwaste	100% collection achieved in all 04 ULBs	1. ULB to maintain 100 % waste collection in the district.	Municipal Council, Thanesar, Pehowa, Ladwa, Shahabad & Ismailabad	It's a regular activity.	
(ii)	Arrangement for door-to-door collection	MC	No. of Waste Picker	No. of Vehicle	Municipal Council, Thanesar, Pehowa, Ladwa, Shahabad & Ismailabad	Activity completed
(iii)	Waste Collection trolleys with separate compartments	Thanesar	0			
		Ladwa	0			
		Pehowa	0	10		
(iv)	Mini Collection Trucks with separate compartments	Shahabad	0			
		Ismailabad	0			
(v)	Waste Deposition Centers (for domestic hazardous wastes)	No waste deposition centre for domestic hazardous waste provided by any MC.	The separate facility for collection of domestic hazardous will be created in the existing and upcoming MRF centers and agreement will be executed with Sugam Sawchhta Pvt ltd, Delhi.	Municipal Council, Thanesar, Pehowa, Ladwa, Shahabad & Ismailabad	Timeline for completion 30/09/2023	
4.	Waste Transport					

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(i)	Review existing infrastructure for wasteTransport.	MC	No. of Waste Transportation Vehicle	Municipal Council, Thanesar, Pehowa, Ladwa, Shahabad & Ismailabad	Not Required	
		Thanesar	2 Truck and 07 Tractor Trolley and 81 mini Tipper.			
		Ladwa	1 trolley, 01 Tractor Dumper Placer, 15 mini tipper.			
		Pehowa	2 Tractor Trolly, 08 Mini tipper			
		Shahbad	2 Tractor Trolly, 10 mini Tipper			
		Ismailabad	1 Tractor Trolly, 04 mini tipper.			
(ii)	Bulk Waste Trucks	MC	No. of Bulk Waste Trucks	Municipal Council, Thanesar, Pehowa, Ladwa, Shahabad & Ismailabad	Not Required	
		Thanesar	2 Truck			
		Ladwa	1 Tractor trolley, 1 tractor dumper placer			
		Pehowa	02 tractor trolley.			
		Shahbad	02 tractor trolley.			
		Ismailabad	01 tractor trolley.			
(iii)	Waste Transfer points	MC	No. of Waste Transfer Point	Municipal Council, Thanesar, Pehowa, Ladwa, Shahabad & Ismailabad	Not Required	
		Thanesar	1			
		Ladwa	0			
		Pehowa	0			
		Shahbad	0			
		Ismailabad	0			
From Waste handover plant, Solid Waste is transferred to Solid Waste Management Site.						
5	Waste Treatment and Disposal					
(i)	Wet-waste Management: On-site composting by bulk waste generators (Authority may decide on requirement as per Rules)	MC	No. of Bulk Waste Generator	The agreement with the BWG's shall be executed by the respective MCs/ Pvt. Agencies hired byMCs for further processing.	Municipal Council, Thanesar, Pehowa, Ladwa, Shahabad & Ismailabad	Timeline for completion 31/07/2023.
		Thanesar	07			
		Ladwa	03			
		Pehowa	04			
		Shahbad	03			
		Ismailabad	01			
(ii)	Wet-waste Management: Facility(ies) for central Bio methanation /Composting of wetwaste.	<ul style="list-style-type: none"> The agency for processing of Wet Waste shall be finalized by 31/07/2023 and thereafter, composting process shall be stand. 		Regularly Activity	Municipal Council, Thanesar, Pehowa, Ladwa, Shahabad & Ismailabad	Timeline for completion 31/07/2023.

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(iii)	Dry-Waste Management: Material Recovery for dry-waste fraction	MC	No. of MRF	Regularly Activity	Municipal Council, Thanesar, Pehowa, Ladwa, Shahabad & Ismailabad	Timeline for completion 31/07/2023.
		Thanesar	0			
		Ladwa	0			
		Pehowa	0			
		Shahbad	0			
		Ismailabad	0			
All MRFs are adequate, No gap.						
(iv)	Disposal of inert and non- recyclable wastes: Sanitary Landfill	The agency for construction of sanitary landfill shall be finalized.		Will be established	Municipal Council, Thanesar, Pehowa, Ladwa, Shahabad & Ismailabad	Timeline for completion 31/07/2023
(v)	Remediation of historic/legacy dumpsite	MC	Quantity of legacy waste	During the processing of legacy waste, the leachate received from the dumping site need to be collected and treated scientifically.	Municipal Council, Thanesar, Pehowa, Ladwa, Shahabad & Ismailabad	Timeline for completion 31/07/2023
		Thanesar	80,000 mt approx.			
		Ladwa	16100 mt approx.			
		Pehowa	10660 mt approx.			
		Shahbad	12795 mt approx.			
		Ismailabad	00			
(vi)	Involvement of NGOs	• Involvement of NGOs is made in MCs for awareness regarding segregation & disposal of Municipal Solid Waste.		No gap as NGOs are involved for management of solid waste including conducting of Workshop/ Seminar/Webinar with having active participation of general public of society at MCs.	Municipal Council, Thanesar, Pehowa, Ladwa, Shahabad & Ismailabad	It's a regular activity . Detail of NGOs not provided

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(vii)	EPR of Producers: Linkage with Producers /Brand Owners	No brand owner/industries exist in the district.	Identification and linkage of PRO will be done with waste generators and collection centers.	Municipal Council, Thanesar, Pehowa, Ladwa, Shahabad & Ismailabad	Not required												
(viii)	Authorization of Waste Pickers	<table border="1"> <tr> <td>MC</td> <td>No. of Pickers</td> </tr> <tr> <td>Thanesar</td> <td>0</td> </tr> <tr> <td>Ladwa</td> <td>0</td> </tr> <tr> <td>Pehowa</td> <td>0</td> </tr> <tr> <td>Shahabad</td> <td>0</td> </tr> <tr> <td>Ismailabad</td> <td>0</td> </tr> </table>	MC	No. of Pickers	Thanesar	0	Ladwa	0	Pehowa	0	Shahabad	0	Ismailabad	0	The List of authorized waste pickers/Rag pickers is available with all the 04 MC's.	Municipal Council, Thanesar, Pehowa, Ladwa, Shahabad & Ismailabad	It's a regular activity. List of authorized waste pickers / Rag Pickers not provided
MC	No. of Pickers																
Thanesar	0																
Ladwa	0																
Pehowa	0																
Shahabad	0																
Ismailabad	0																
(ix)	Preparation of own by-laws to comply with SWM Rules 2016	All of 04 MC's have notified the by- laws.	No Gap	Municipal Council, Thanesar, Pehowa, Ladwa, Shahabad & Ismailabad	Activity completed												

(i) Plastic waste Management

(a) Current status related to Plastic waste management

Urban Local bodies	Estimated quantity of Plastic Waste Generated per day	
Municipal Council, Thanesar	0.75 TPD	Not provide the correct and latest status
Municipal Committee, Ismailabad	0.01 TPD	
Municipal Committee, Shahabad	0.04 TPD	
Municipal Committee, Ladwa	0.03 TPD	
Municipal Committee, Pehowa	0.04 TPD	

(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	100% collection	Regular Activity	Municipal Council, Thanesar, Pehowa, Ladwa, Shahabad & Ismailabad	It's a regular activity.

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2.	Facilitate organized collection of PW at Waste transfer point or Material Recovery Facility	MC	No. of Vehicle	No. of waste pickers	<ul style="list-style-type: none"> Linkage of MRFs with PW recyclers will be facilitated. Identification and Involvement of producers and brand-owners will be done. 	Municipal Council, Thanesar, Pehowa, Ladwa, Shahabad & Ismailabad	Action completed
		Thanesar	Nil	Nil			
		Ladwa					
		Pehowa					
		Shahabad					
		Ismailabad					
3.	PW collection Centers	MC	No. of PW Collection Centers	<ul style="list-style-type: none"> Linkage of MRFs with PW recyclers will be facilitated and will be done by Agency. Identification and Involvement of producers and brand-owners will be done. 	Municipal Council, Thanesar, Pehowa, Ladwa, Shahabad & Ismailabad	Action completed	
		Thanesar	1				
		Ladwa	0				
		Pehowa	0				
		Shahabad	0				
		Ismailabad	0				
4.	Awareness and education programs implementation	Regular awareness programs among the public, schools, colleges, industries, bulk waste generators need to be conducted.		Education through mass media, schools, Producer / brand owner campaigns and other channels will be conducted. Regular awareness programs among the public, schools, colleges, industries, bulk waste generators will be conducted	Municipal Council, Thanesar, Pehowa, Ladwa, Shahabad & Ismailabad	Regular activity	

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5.	Access to Plastic Waste Disposal Facilities	<ul style="list-style-type: none"> In the District there is no plastic waste recycling facility. 04 no. MCs in the District have hired the private agencies for disposal of their solid waste and plastic waste. RDFs made from plastic and other waste are disposed of through waste to energy plant at M/s Chanderpur Renewal Power Co. Pvt. Ltd. Agreement made with private agency. 	Identification of Plastic waste processing facility in the State or in the neighboring States and Linkage. Also PWD Deptt. will be asked to start using the plastic waste in the construction of roads on the pattern of technology or model already implemented in the different part of the country.	Municipal Council, Thanesar, Pehowa, Ladwa, Shahabad & Ismailabad	Not required
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(ii) 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, Kurukshetra Thanesar	MC, Shahabad Kurukshetra	MC, Pehowa	MC, Ismailabad	MC, Ladwa
	0.8 TPD	1.3 TPD	0.08 TPD	0.00081 TPD	0.65 TPD
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
1.	Arrangement for separate collection of C&D waste to C&D waste deposition point.	All MCs have identified sites for storage of C&D Waste	Not required	Municipal corporation, Kurukshetra City, Municipal Committee, Kurukshetra Sadar,	Not required

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2.	Whether local authority have fixed user fee on C&D waste and Introduce 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?	No user fee fixed waste have been introduced. No provision introduced for bulk waste generators.	Necessary amendments will be done in the bye laws	Municipal Council, Thanesar, Pehowa, Ladwa, Shahabad & Ismailabad	Timeline for completion 31/07/2023
3.	C&D recycling Facility	No recycling facility available for C&D waste in the District.	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.	Municipal Council, Thanesar, Pehowa, Ladwa, Shahabad & Ismailabad	Timeline for completion 31/07/2023
4.	Usage of recycled C&D waste in non- structural concrete, paving blocks, lower layers of road pavements, colony and rural roads	Not applicable as there is no processing facility and C&D waste being used for filling the low lying areas.	----	Municipal Council, Thanesar, Pehowa, Ladwa, Shahabad & Ismailabad	Not applicable
5.	IEC on C & D waste management	Presently no awareness activity on C&D waste Not conduct awareness activity and register C * & D site on dust control portal.	Periodic educational and awareness programme shall be conducted.	Municipal Council, Thanesar, Pehowa, Ladwa, Shahabad & Ismailabad	ATR not submitted

(iii) Biomedical Waste Management

a. Current Status related to biomedical waste

In District Kurukshetra, total 246 nos. Health Care Facilities (HCF's) are operational including bedded and non-bedded facilities. Out of which 146 no of HCF have obtained authorization under BMW Rules and notices have been issued to 100 nos of non applicant HCF for obtaining authorization under BMW Rules. From the authorized HCF total approx. 730 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 Kurukshetra is transported, treated and disposed off through the Common facility M/s Rudraksh Enviro Care Pvt. Ltd., Village Bharog, Tehsil Naraingarh, District Ambala. The said facility have obtained the desired authorization under BMW Rules and also obtained the desired Consent to Operate as per requirement of Water Act 1974 and Air Act 1981, RO Ambala. The common facility is having the updated and required machinery i.e. Incinerator of 150 Kg per hour capacity, Autoclave of 200 Kg per hour and Shredder of 250 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	104
Total no. of non-bedded HCF	42
No. of HCFs authorized by SPCBs/PCCs	146
No of Common Biomedical Waste Treatment and Disposal Facilities (CBWTFs)	01
Capacity of CBWTFs	Incinerator of 150 Kg per hour capacity, Autoclave of 200 Kg per hour and Shredder of 250 Kg per hour capacity
No. of Deep burials for BMW if any	Nil
Quantity of biomedical waste generated per day	730 kg/day
Quantity of biomedical waste treated per day	730 kg/day

21	Biomedical Waste	
21.1	No. of biomedical waste generators	246
21.2	No. of biomedical waste generators authorized under Biomedical Waste Rules-2016, Water (P&CP) Act, 1974 and Air (P&CP) Act, 1981.	146
21.3	Quantity of biomedical waste (TPD)	0.730
21.4	No. of vehicles required for collection of biomedical waste	03
21.5	No. of vehicles available for collection of biomedical waste	03
21.6	No. of vehicles with GPS	03
21.7	Status of bar coding system	146
21.8	No. of collection Centre required for biomedical waste	01
21.9	No. of collection Centre provided for biomedical waste	01
21.10	Gap , if any	Nil
21.11	If there a Gap, then timelines to achieve the Gap	NA
21.12	Mechanism of scientific disposal of biomedical waste	Incineration, Autoclave, shredder
21.13	Quantity of biomedical waste being disposed scientifically (TPD)	0.730
21.14	No. of trainings arranged for health care workers.	04

b. Identification of gaps and Action plan:

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S. No.	Action points	Gaps	Action Plan	Responsible agency	Timeline for completion of action Plan
1.	Inventory and Identification of Healthcare Facilities	<p>Inventorisation & Identification of HCF has already been done in District Kurukshetra with having total 124 nos. HCF's are operational including bedded and non bedded facilities. The Veterinary hospitals/dispensaries have obtained necessary authorization under the provisions of BMWM Rules, 2016.</p>	<p>Identification of :-</p> <ul style="list-style-type: none"> • Number of bedded and non-bedded Government and Private Health Care Facilities in the Districts • Number of Blood Banks, Clinical labs in the Districts • Veterinary Institution & Animal Husbandry • List of Medical Institution Forensic Labs & RD labs, etc., • All Veterinary hospitals/dispensaries shall be enforced to obtain necessary authorization under the provisions of BMWM Rules, 2016. 	<ul style="list-style-type: none"> • Health Department • HSPCB • Animal Husbandry and Dairying, Deptt. 	<p>The Inventorisation of HCFs already done and further it is an on going process/activity. Total 246 nos. Health Care Facilities (HCF's) are operational including bedded and non-bedded facilities. Out of which 146 no of HCF have obtained authorization under BMW Rules and SCN has been issued to 100 nos of non applicant HCF for obtaining authorization under BMW Rules</p>

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2.	Adequacy of facilities to treat biomedical waste	There is no Gap as existing Common facility M/s Rudraksh Enviro Pvt. Ltd., Village Bharog, Ambala is having adequate infrastructure and capacity for transportation ,treatment and disposal of Approx. 730 kg/day Bio Medical Waste is being generated from existing HCF's of Distt. Kurukshetra.	There is already Common facility M/s Rudraksh Enviro Pvt. Ltd., Village Bharog, Ambala exiting having adequate infrastructure and capacity for transportation ,treatment and disposal of Approx. 730 kg/day Bio Medical Waste is being generated from existing HCF's of Distt. Kurukshetra	<ul style="list-style-type: none"> • HSPCB • Deptt. Of Environmen t& Climate Change, Govt. Of Haryana • Health Department • CBWTF 	The existing facility and infrastructure is adequate enough with having optimumcapacity to caterout 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 is implemented & adopted by HCFs. Total 246 HCFs existing and operational throughout the district. Authorization is not being granted to the HCFs without adoption of barcode system.	<ul style="list-style-type: none"> • 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. • Ensuring Bar Coding & Segregation at Source system adopted for Yellow, red, White and Blue containers with quantification of waste. • To verify the number of dedicated collection vehicles matching with the quantity of Bio Medical Waste quantity generation and duration oftravel. 	<ul style="list-style-type: none"> • HSPCB • HCF • CBWTF 	Authorization is issued to the HCF which are having bar code agreement

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4.	Awareness and education of healthcare staff	Regular training and awareness programs are being conducted for healthcare staff dealing with Bio- Medical Waste in association with Health Department in existing HCF's. Meeting with IMA is also connected on regular basis	No gap	<ul style="list-style-type: none"> • Health Department • HSPCB • Animal Husbandry and Dairying, Deptt. 	The training to health care workers is a on- going process and training also provided during inspection. Health camps/activit y are also being organized by the health care facility on regular 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"> • Health Department • Animal Husbandry and Dairying, Deptt. 	No Gap
6.	Compliance to Rules by HCFs and CBWTFs	To ensure that all the HCF existing and operating in the district should obtain prior Authorization under BMW Rules 2016 and Consent to Establish and Consent to Operate under Water (Prevention & Control of Pollution) Act, 1974 and under Air (Prevention & Control of Pollution) Act, 1981 as per the coverage	<ul style="list-style-type: none"> • The random monthly mandatory inspections of the HCFs as allotted centrally by the Head office of HSPCB are being carried out. • The quarterly inspection of the CBWTFs is being carried out regularly. To verify the operation of GPS in each of the dedicated vehicles and functioning of the tracking system in the respective CBWTFs portal • All the Veterinary hospitals/dispensaries shall be 	<ul style="list-style-type: none"> • Health Department • HSPCB 	<ul style="list-style-type: none"> • The Authorization has been granted to the HCFs which are in complaining with BMW Rules. CTO is granted to HCFs which are in compliance with BMW Rules, Water Act, , Air Act • Random monthly monitoring of HCFs as allotted by the Central Software of HSPCB.

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		<p>of the HCF in consent management policy of HSPCB.</p> <ul style="list-style-type: none"> • The service provider is using the dedicated collection vehicles equipped with GPS • All the HCFs except Veterinary hospitals/dispensaries have obtained authorization under BMWM • Rules. 	<p>enforcing to obtain necessary authorization under the provisions of BMWM Rules, 2016</p>		
7.	District Level Monitoring Committee	<p>The State Level Advisory Committee has already been constituted in the State for implementation of BMWM Rules, 2016.</p>	<p>The District Level task force formed by Deputy Commissioner, Kurukshetra to check the compliances of HCFs under the BMWM Waste Rules, 2016.</p>	<ul style="list-style-type: none"> • Deputy Commissioner • Health Department • HSPCB • Animal Husbandry and Dairying, Deptt. 	<p>Meeting conducted by District Level task force on 10.11.2022 regarding BMW Rules 2016.</p>
8.	Wastewater treatment	<ul style="list-style-type: none"> • Channelization and treatment of domestic effluent generating from HCF existing within MC area at terminal treatment facility installed by PHED for achievement of effluent 	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • HSPCB • PHED • HCF's • HSVP 	<p>The PHED within the Municipal Corporation area is treating the domestic effluent along with disinfection of bio medical waste effluent generated from various HCFs. by terminal treatment facility</p>

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		<p>discharge standards laid down Environment Protection Rules, 1986.</p> <ul style="list-style-type: none"> All the HCFs which are not connected with such common treatment facilities via. Public sewer need to install individual stand alone effluent treatment plant 	<p>WHO or NACO.</p> <ul style="list-style-type: none"> 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 HCF. 		<p>The HCFs which are not connected with such common treatment facilities via. Public sewer have instilled individual stand alone effluent treatment plant HSVP is treating the domestic effluent alongwith disinfected bio medical waste effluent generated form various HCFs in there terminal treatment facility installed. List of inspection conducted in last year of more than 50 HCFs bedded alongwith analyses report is attached</p>
<p>Monitoring Committee directed that HCFs which have provided chemical treatment to the liquid waste generated from the various sections in the containers containing sodium hypochlorite solution with 1% strength, may provide stirring mechanism to homogenize and scientific treatment of liquid waste by 31.12.2022</p> <p>Direction issued to the HCFs</p>					

(iv) Hazardous Waste Management

a. Current Status related to Hazardous Waste Management

There are approximate 373 large/medium/small scale industries existing in District Kurukshetra and out of which 69 no. of industries have obtained authorization under HOWTM Rules 2016.

The ETP chemical sludge generated from the units has been sent to GEPIL Faridabad and the waste oil/spent oil has been sent to the authorized recycler of the board.. Further there is approximate 290.5 MT/Annum generation of hazardous waste in the District including the used oil is being generated from the various diesel generator sets (DGs) operating in various industries and other facilities such as hotels/hospitals/banquet hall/commercial buildings etc as alternate source of power. The used oil is categorized as hazardous waste as per Schedule-I of the Rules.

Details of Data Requirement	Present Status
No of Industries generating HW	69
Quantity of HW in the district	290.5 MT/Annum (approximate)
(i) Quantity of Incinerable HW	27 MT/Annum (approximate)
(ii) Quantity of land-fillable HW	112 MT/Annum (approximate)
(iii) Quantity of Recyclable / utilizableHW	151.5 MT/Annum (approximate)
No of captive/common TSDF	01

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Contaminated Sites or probable contaminated sites	NIL
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22	Hazardous Waste	
22.1	No. of units generating Hazardous Waste	69
22.2	No. of Hazardous Waste generators authorized under Hazardous Waste and other wastes (Management and Trans boundary Movement) Rules-2016, Water (P&CP) Act, 1974 and Air (P&CP) Act, 1981.	69
22.3	Quantity of Hazardous Waste	290.5 MT/Annum (approximate)
22.4	Mechanism for collection of Hazardous Waste	Collected by GEPIL
22.5	No. of vehicles required for collection of Hazardous Waste	01
22.6	No. of vehicles available for collection of Hazardous Waste	01
22.7	No. of vehicles with GPS	01
22.8	No. of collection Centre required for Hazardous Waste	01
22.9	No. of collection Centre provided for Hazardous Waste	01
22.10	Gap, if any	Nil
22.11	If there a Gap, then timelines to achieve the Gap	NA
22.12	Mechanism of scientific disposal of Hazardous Waste	Incineration, Land fill, recycle
22.13	Quantity of Hazardous Waste being disposed scientifically (TPD)	290.5 MT/Annum (approximate)

The State of Haryana is having an Integrated Common Hazardous Waste Treatment Storage and Disposal Facility (ICHWTSDF) located at Village Pali, District Faridabad. The facility includes the process of Solidification and Stabilization, secured landfill, Incineration, disposal and provide the scientific transport facility to all the industries in the State. The Haryana Environment Management Society (HEMS) is facilitating ICHWTSDF to aid its members with effective-management of industrial hazardous waste. This ICHWTSDF facility is operated by Gujarat Environment Protection & Infrastructure Ltd. (GEPIL), Haryana. The hazardous waste generated in the District is scientifically treated and disposed as per the provisions of Hazardous and Other Wastes (M&TBM) Rule 2016 at ICHWTSDF. The ICHWTSDF facility was operationalized in the year 2008 in the State and having capacity to serve the State for 35 years.

The hazardous and other waste generated as per Schedule-III & Schedule-IV of HOWTM Rules, 2016, is being disposed of through recycler/utilization/actual user facilities authorized by HSPCB operating throughout the State having environmentally sound technology duly approved by CPCB.

As per provisions of HOWTM Rules, 2016 all such industries which are generating, handling, transporting, utilizing, recycling the hazardous and other waste required prior authorization from HSPCB.

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

Categories	Numbers of Industries
Red	10
Orange	55
Green	3
Trader	1
Total	69

All these 69 no. of units have made agreement either with the ICHWTSDF facility or with the authorized recycler/utilization/actual user facilities authorized by

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HSPCB operating throughout the State for transportation, treatment and disposal of hazardous and other waste generated. These industries are filling annual returns as per Form 3 & Form 4 of HOWTM Rules, 2016 with HSPCB.

b. Identification of gaps and action plan:

S. No.	Action points	Identification of Gaps	Action Plan	Responsible agency	Timeline for completion of action plan
1.	Regulation of industries and facilities generating Hazardous Waste	<ul style="list-style-type: none"> • All the 69 no. of industries which are generating hazardous waste have made agreement either with the ICHWTSDF facility or with the authorized recycler/utilization/actual user facilities authorized by HSPCB operating throughout the State for transportation, treatment and disposal of hazardous and other waste generated. • These industries are not filling annual returns regularly as per Form 3 & Form 4 of HoWM Rules, 2016 with HSPCB. • The random monthly mandatory inspections of the hazardous waste generating units as allotted centrally by the Head office of HSPCB need to be conducted. • The hazardous waste generated in the District 	<ul style="list-style-type: none"> • Identification of Number of units generating hazardous waste in the District • Safe storage and handling of hazardous waste generated • Channelization and safe transportation of hazardous waste to the disposal facility/recycler • Inventory of Common Hazardous Waste Treatment and Disposal facility and authorized recycler • Enforcing the industries for filing of annual returns as per Form 3 & Form 4 of HoWM Rules, 2016. <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 Water (P &CP)Act,</p>	<ul style="list-style-type: none"> • HSPCB • DIC 	<ul style="list-style-type: none"> • The Inventorization of hazardous waste generating units already done and the same is ongoing. • The inventory of all waste/used oil generators is being regularly identified. • The authorization to hazardous waste generating units is being granted which are in compliance with HOWTM rules 2016. • At present 60 Nos of units have obtained authorization under HOWTM rules 2016 from the Board. • CTO is being granted to the unit with the specific condition i.e unit shall obtain authorization under HOWTM Rules 2016 from the board. • Manifest is being generated online of the hazardous waste units on HROCMMS portal of the board. <p>Annual return in form III & IV has been submitted by the Hazardous waste generating units. On non submission of annual return SCN has been issued to</p>

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		is need to be scientifically treated and disposed as per the provisions of Hazardous and Other Wastes (M&TBM) Rule 2016 at ICHWTSDF.	1974 and under Air (P&CP) Act, 1981 as per the coverage of the industry in consent management policy of HSPCB. <ul style="list-style-type: none"> • Execution of valid agreement with service provider for safe disposal of hazardous waste generated. • Periodic Inspection of Units generating • Hazardous waste. 		defaulting units reviewed and compliance will be ensured within 01 year time. <ul style="list-style-type: none"> • Insurance of the Submission of annual returns in Form 3 & Form 4 by industries generating Haz. Waste within 06 months time. • Verification of manifest supplied by ICHWTSDF facility and authorized recycler within 01 year.
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"> • HSPCB • ICHWTSDF 	Not required
3.	Training of workers involved in handling / recycling / disposal of HW	Training need to be conducted.	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	<ul style="list-style-type: none"> • HSPCB • DIC 	Regular activity

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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"> • HSPCB • ICHWT SDF 	Not required
5.	Contaminated Sites	No Contaminated Site available within the district.	No Gap	<ul style="list-style-type: none"> • HSPCB 	No Timeline is required to be set.

Monitoring committee directed that remaining industries may be pursued to get authorization under Hazardous Waste Management Rules 2016 by 30.11.2022. Notice has been issued to the concerned industry.

(v) E-Waste Management

a. Current Status related to E-Waste Management

In Kurukshetra District presently there is no manufacturer and producer of E-waste. The District is having bulk consumers of E-waste in terms of Govt. offices, banks, educational institutes and industries. The E-waste generated from households in the District is presently not channelized and may be disposed of through unauthorized and unknown sources. The historical E-waste as on the date of issuance of the E-waste Rules not available. Presently in the District there are 01 no. dismantler of the E-waste. Moreover, inventorization of bulk consumers and dealers of electronic/electric instruments need to be done for implementation of E-waste Rules.

Details of Data Requirement	Present Status
Inventory of E-Waste in MT/year	445.207 MT
Collection centers established by ULBs in the District	Nil
Collection centers established by Producers or their PROs	00
No. of authorized E-Waste recyclers / Dismantler	01

b. Identification of gaps and action plan:

S. No.	Action points	Gaps in implementation	Action Plan	Responsible agency	Timeline for completion of action plan
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1	Inventory/ Generation of E-Waste/Bulk-waste generators	Inventorization of bulk waste generators of E-Waste need is being done.	<ul style="list-style-type: none"> • Inventorization of bulk waste generators shall be done with the help of local administration and MC Kurukshetra. • Channelization of E-waste to registered recycler/dismantler/refurbisher available throughout the state for safe disposal and recovery of material after recycling. 	<ul style="list-style-type: none"> • HSPCB • MCs 	Timeline for completion 31/07/2023
2	E-Waste collection points	One authorized point within MC area shall be provided by each MC.		<ul style="list-style-type: none"> • HSPCB • MCs, BDPOs and DDPO, 	Timeline for completion 30/06/2023
3	Linkage among Stakeholders to channelize E-Waste	Linkage among Stakeholders to channelize E-Waste shall be made after providing collection point.	<ul style="list-style-type: none"> • To collect information about collection centers with the help of local administration, Municipal Councils and Producers/PROs and further linkage with registered E-Waste recycler/dismantler/refurbisher for channelization of E-Waste. 	<ul style="list-style-type: none"> • MCs, • HSPCB 	<ul style="list-style-type: none"> • 31.05.2023
4	Regulation of Illegal E-Waste recycling / dismantling	There is no such Illegal E- Waste recycling / dismantling facilities existing in district Kurukshetra.	No Gap, however regular vigil is being taken for such activities.	<ul style="list-style-type: none"> • HSPCB • MCs 	<ul style="list-style-type: none"> • Not Required

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5	Integration of informal sector	No informal sector exist in the exists	<ul style="list-style-type: none"> • Not Required 	<ul style="list-style-type: none"> • HSPCB • MCs 	<ul style="list-style-type: none"> • Not required
6	Awareness and Education	Awareness programmes for stakeholders and informal sectors involved in E-Waste collection needs to done.	<ul style="list-style-type: none"> • Conducting of special workshops and awareness campaigns through Producers/ PROs • Dissemination of information about collection centers established in the District website. 	<ul style="list-style-type: none"> • HSPCB • MCs • DIO 	<ul style="list-style-type: none"> • Awareness programmes conducted at the intervals of 06 Months period.

3.0 Air Quality Management

The major source of air pollution in district Kurukshetra 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

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- Irregular heartbeat
- Nonfatal heart attacks
- Premature death in people with heart or lung disease, including death from lung cancer

There are approximate 339 of industrial establishments in district Kurukshetra. Further, out of these 326 no. of industries have obtained consent under air act by mean of either they have installed Boiler/Furnace/ Bhatti / Brick Kilns/Stone Crushers/HMP/DG set etc.

In the district 326 no. of industries have obtained consent under air act which mainly includes the brick kilns, sugar mill, milk based processing unit, Rice Mill, foundry, Card Board Mill, Ply board, Paper Mill unit, etc. All the units had installed the Air Pollution Control Devices such as Multicyclone/cyclone/Wet Scrubbers/ Separators. Some of the major industries in the district i.e. 1no. Sugar Mill have provided Electrostatic Precipitators (ESPs) which is effective device to control the air pollution from major sources of air pollution. 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	26
Orange	254
Green	46
Total	326

As one of the major contributor of air pollution in the district is stubble burning in crop harvesting season in the nearby areas specially in Paddy and Wheat harvesting season. Stubble burning is a common practice done by farmer during Kharif & Rabi season after harvesting paddy, wheat & other crops. In the district during the year 2021 special emphasis on making farmer aware about harmful effects of stubble on crops, soil health, human beings in long & short term by organizing awareness camps, gram sabha at village, block & district level was given. For the last two year Govt. has promoted special implements on subsidy for preventing stubble burning through customer hiring centers. Farmers can purchase bailer, ray hake, DSR machine, super seeder, zero drill machine, mulcher, laser land leveler etc. through department on subsidy.

The road dust, road sweeping, open garbage burning, vehicular emissions specially Auto Ricksha and transport vehicles, diesel generator sets (DGs) are other contributors of air pollution in the district.

01no. Continuous Ambient Air Quality Monitoring System (CAAQMS) has been installed in the district at office of Agriculture Department Kurukshetra which gives the Real Time data of the Air Quality of the district. The general air quality of the district is remain in the category of "Average" except the winters during Crop Harvesting season when the air quality of the district drops to "Poor" and "Very Poor" category.

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	Kurukshetra																												
No of air pollution industries	326																												
Prominent air polluting sources [Large Industry] / [Small Industry] / [Unpaved Roads] / [Burning of Waste Stubble] / [Brick Kiln] / [Industrial Estate] / [Others] (Multiple selection)	<p>The major air polluting sectors in the District are as under:-</p> <table border="1"> <thead> <tr> <th>Sector</th> <th>No. of Industries</th> </tr> </thead> <tbody> <tr> <td>Sugar Mill</td> <td>01</td> </tr> <tr> <td>Ethanol Plant</td> <td>01</td> </tr> <tr> <td>Thermal Plant</td> <td>01</td> </tr> <tr> <td>Paper Mill</td> <td>02</td> </tr> <tr> <td>Brick Kiln</td> <td>63</td> </tr> <tr> <td>Card Board Mill</td> <td>10</td> </tr> <tr> <td>Milk processes and dairy products</td> <td>04</td> </tr> <tr> <td>Rice Mills</td> <td>58</td> </tr> <tr> <td>Solvent extraction</td> <td>04</td> </tr> <tr> <td>E-waste Dismantler</td> <td>01</td> </tr> <tr> <td>Ply Wood</td> <td>02</td> </tr> <tr> <td>Lead unit</td> <td>06</td> </tr> <tr> <td>Any other</td> <td>173</td> </tr> </tbody> </table> <p>As one of the major contributor of air pollution in the district is stubble burning in crop harvesting season especially in Paddy and Wheat harvesting season. As per HSPCB order dated 29.09.2020 Agriculture Department is the responsible agency to impose challan/ file FIR in such cases Stubble burning is a common practice done by farmer during Kharif & Rabi season after harvesting paddy, wheat & other crops. In the district during the year 2021 special emphasis on making farmer aware about harmful effects of stubble on crops, soil health, human beings in long & short term by organizing awareness camps,</p>	Sector	No. of Industries	Sugar Mill	01	Ethanol Plant	01	Thermal Plant	01	Paper Mill	02	Brick Kiln	63	Card Board Mill	10	Milk processes and dairy products	04	Rice Mills	58	Solvent extraction	04	E-waste Dismantler	01	Ply Wood	02	Lead unit	06	Any other	173
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26	Air Quality Management																	
26.1	No. of Air quality Monitoring System required	01																
26.2	No. of Air quality Monitoring System available	01																
26.3	Gap , if any	NIL																
26.4	If there a Gap, then timelines to achieve the Gap	NA																
26.5	No. of Air polluting Industries	326																
26.6	No. of Industries meeting with the standards fixed by CPCB/HSPCB	326																
26.7	Measures taken to control the stubble burning	<p>1. Crop diversification programme – two scheme namely DSR (Direct Seeded Rice) and MPMV (Mera Pani Meri Virasat) scheme has been launched. In year 2022-23 DSR Paddy has been sown in 2800 acre area and under MPMV schme 2290 acre Paddy area has been replaced with other crops.</p> <p>2. IEC activities – Under Crop Residue management scheme the following IEC activities are being done</p> <table border="1"> <thead> <tr> <th>Name of activity</th> <th>No. of activity</th> </tr> </thead> <tbody> <tr> <td>Village Level Camps</td> <td>200</td> </tr> <tr> <td>Block Level Camps</td> <td>10</td> </tr> <tr> <td>District Level Camps</td> <td>1</td> </tr> <tr> <td>Wall Painting</td> <td>In each village</td> </tr> <tr> <td>Flex board installation</td> <td>In each village</td> </tr> <tr> <td>Demonstration van</td> <td>5</td> </tr> <tr> <td>Prabhat pheri by schools</td> <td>110</td> </tr> </tbody> </table> <p>3. In- situ & Ex- Situ management – Rs. 1000/- per acre will be paid for the management of stubbles through In situ & Ex- situ methods.</p> <p>4. Machinery on subsidy – stubble management machinery has been provided to all 442 applicants on 50 % subsidy.</p>	Name of activity	No. of activity	Village Level Camps	200	Block Level Camps	10	District Level Camps	1	Wall Painting	In each village	Flex board installation	In each village	Demonstration van	5	Prabhat pheri by schools	110
Name of activity	No. of activity																	
Village Level Camps	200																	
Block Level Camps	10																	
District Level Camps	1																	
Wall Painting	In each village																	
Flex board installation	In each village																	
Demonstration van	5																	
Prabhat pheri by schools	110																	
26.8	Measures taken to control the burning of waste	<p>1. Awareness activity among the public.</p> <p>2. Banner display at various prominent site by board</p> <p>3. Restriction on open burning of municipal solid waste biomass plastic horticulture waste garbage etc.</p> <p>4. Curbing of Stubble burning.</p> <p>5. Curbing of forest fires.</p>																
26.9	Measures taken for smooth movement of traffic	<p>1. Construction of Paved shoulders along the roads and improvement of existing quality of roads for dust containment.</p> <p>2. Challaning of over loaded transport vehicles.</p> <p>3. Ensuring the transport of construction material with proper covering.</p> <p>4. Ensuring the PUC certificates with the vehicles and Challaning for the same.</p> <p>5. Find the way out for CNG station setup in the District.</p>																

District Environment Plan, Kurukshetra

		6. Ensuring the non playing of vehicles where in registration is expired and non renewable. 7. Exploring the possibility of supplying cleaner fuel to the air polluting industrial cluster.
26.10	Have institution mechanism established for checking the burning of plastic, solid waste, stubble burning, C&D sites etc.	MC's/ Agriculture Department/ Fire Department have Not provide status.

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	In the district 326 no. of industries have obtained consent under air act which mainly includes the brick kilns, sugar mill, milk based processing unit, Rice Mill, foundry, Card Board Mill, Ply board, Paper Mill unit, etc. All the units had installed the Air Pollution Control Devices such as Multicyclone/ cyclone/ Wet Scrubbers/ Separators. Some of the major industries in the district i.e. 1no. Sugar Mill have provided Electrostatic Precipitators (ESPs) which is effective device to control the air pollution from major sources of air pollution.	HSPCB	No gap
2.	Ambient Air quality data?	01 no. of CAAQMS installed in District Kurukshetra and the real time data is being pushed to CPCB Central Server and hence the calculated AQI is available in Public Domain at central control room for AQM for air pollution level available at cpcb.nic.in	HSPCB	No gap
3.	Setting up of Continuous Ambient Air Quality Monitoring Station	CAAQMS has already been installed at office of Agriculture Department Kurukshetra.	HSPCB	No gap

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<p>4.</p>	<p>District Level Action Plan for Air Pollution</p>	<p>All the air polluting industries in the district have provided the air pollution control measures however the ambient air quality is consistently non confirming with the National Ambient Air Quality Standards. The other factors identified and need eradication and improvement areas under;-</p> <ol style="list-style-type: none"> 1. Stubble burning is one of the major factor and for this the crop diversification is being adopted. Mera Pani Meri Virasat Scheme under Crop Diversification is a ongoing scheme of 2020-21 and 2021-22. 2. Awareness among Farmers for In-Situ& Ex-Situ Management of stubble burning with use of CRM machinery. 3. Construction of Paved shoulders along the roads and improvement of existing quality of roads for dust containment. 4. Challaning of overloaded transport vehicles. 5. Ensuring the Transport of construction material with proper covering. 6. Ensuring the PUC certificate with the vehicles and challaning for the same. 7. Find the way out for CNG station setup in the District. 8. Ensuring the non plying of vehicles where in Registration is expired and nonrenewable. 9. Exploring the Possibility of supplying cleaner fuel to the air polluting industrial cluster. 10. Periodic Up-gradation of Air Pollution 	<p>HSPCB, DSP, TrafficDDA Agricultur el, RTA MC, KURUKSH ETRA DFO, KURUKSH ETRA, PWD, KURUKSH ETRA</p>	<p>Point for the action plan is as under</p> <ol style="list-style-type: none"> i) Traffic light ii) Paving of road iii) Sprinkling iv) Tree plantation v) to provide wet waste, Driy waste bin vi) collection point for garbage vii) MC's/ HSVP garbage point in each sector shall be complied by 30.06.2023.
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District Environment Plan, Kurukshetra

		<p>Control Devices (APCDs) installed in air polluting industries.</p> <p>11. Afforestation drives for industries / Institutions / parks/ industrial estates/ road sides and river bank.</p> <p>12. Awareness activity among the public.</p> <p>13. Monitoring on vehicle fitness.</p> <p>14. Periodic calibration test of vehicular emission monitoring instrument.</p> <p>15. Plantation under various components have been carried out in Kurukshetra District to combat air pollution.</p> <ul style="list-style-type: none"> • Institutional plantation: 10000 plants • Green Belt in urban Area: 2500 Plants • Plantation along roads: 25000 plants • Plantation on Panchayat Land : 25000 Plants 		
5.	Hotspots of air pollution in District	<p>The hotspots of air pollution in the area and measures to curb the same.</p> <p>1. Restriction on open burning of municipal solid waste, Biomass, plastic, horticulture waste, garbage etc.</p> <p>2. Curbing of stubble burning.</p> <p>3. Curbing of forestfires.</p>	DFO, Kurukshetra DDA Agricultural, MC, Kurukshetra, HSVP	There are two hotspots sites given by MC's to convert in to green spot as CM Announcement Latest status not provided by DMC Kurukshetra and E.O. H.S.V.P. Kurukshetra.
6.	Awareness on Air Quality	<p>The real time data generated by 01 no. of CAAQMS installed in District Kurukshetra is being pushed to CPCB Central Server and hence the calculated AQI is available in Public Domain through CPCB Sameer App and HSPCB/CPCB Website at the link given below: https://app.cpcbccr.com/AQI India/</p>	HSPCB	No gap.

4.0 Water Quality Management

There is 02 drains namely Saraswati Drain & Rakshi Drain are in the District Kurukshetra. The discharge of Saraswati drain meets in river Ghaggar and discharge of Rakshi Drain mix into river Yamuna.

List of Drains are as under:-

Sr. No.	Drains	Discharge in MLD
1.	Saraswati Drain	489.31
2.	Rakshi Drain	482.80

The water quality monitoring of Saraswati drain/ Rakshi Drain are being carried out by HSPCB on monthly basis and report regularly submitted to Central Pollution Control Board. The water quality at these points during year 2022-23 is as under:-

Attached at Annexure-‘A’

The water quality monitoring of Ground Water of District Kurukshetra is being carried out by HSPCB at 03 points on Quarterly basis and report regularly submitted to Central Pollution Control Board. The water quality at these points during year 2021-22 is as under:-

Attached at Annexure-‘B’

4.1 Water Quality Monitoring

a. Current Status related to Water Quality Management

Details of Data Requirement	Present Status
Rivers	River Saraswati River Markanda
Length of Coastline (if any)	NA
Nalas/ Drains/Creeks meeting Rivers	Saraswati Drain & Rakshi Drain
Lakes / Ponds	Braham Sarover and Sanhit Sarover
Total Quantity of sewage from towns and cities in District	66.5 MLD
Quantity of industrial wastewater	5.191 MLD
Percentage of untreated sewage	0 %
Details of bore wells and number of permissions given for extraction of groundwater	---
Groundwater polluted areas if any	No such incident occurred.
Polluted river stretches if any	Zero

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	Identification and inventorization of water bodies already done in district Kurukshetra. Further Water Quality of such bodies is being monitored on monthly basis by respective agencies.	HSPCB, Irrigation, Pond Authority, CEO Zila Parishad, MC, Kurukshetra, PHED, Kurukshetra,	Water Quality of such bodies is being monitored on monthly basis by HSPCB
2.	Quality of water bodies in the district	The District Environment Monitoring Committee (DEMC) has been constituted in the district Kurukshetra and District Level task force (DSTF/SESTF) has also been constituted by government to check quality of water on monthly basis, Further Water Quality of such bodies is being monitored on monthly basis by HSPCB & quality results displayed on website of the board in public domain at hspcb.gov.in.	DSTF/ SESTF DEMC DIO, Kurukshetra Panchayat Deptt. HSVP MDC ULB	Regular monitoring for the quality of water bodies on monthly basis has been conducted by HSPCB and quality of water report uploaded in public domain on HSPCB.GOV.IN. Further sources of pollution in drain have already been identified & action plan has not been received from the concerned department.
3.	Hotspots of water contamination	The District Environment Monitoring Committee (DEMC) has been constituted in the district Kurukshetra and District Level task force (DSTF/SESTF) has also been constituted by government to check quality of water on monthly basis, Further Water Quality of such	DSTF/SESTF DEMC DIO, KURUKSHETRA Panchayat Deptt. HSVP MDC ULB	Regular monitoring for the quality of water bodies on monthly basis has been conducted by HSPCB and quality of water report uploaded in public domain on HSPCB.GOV.IN. Further sources of pollution in drain

District Environment Plan, Kurukshetra

		bodies is being monitored on monthly basis by HSPCB & quality results displayed on website of the board in public domain at hspcb.gov.in.		have already been identified and all the disposal points entering into sewer have been tapped.
4.	<p>Protection of river/ lake water front</p> <p>a. Drains/ nallahs within Municipal limits (Responsibility of Municipality/ MC)</p> <p>b. Drains/nallahs outside Municipal limits (Responsibility of Rural development & Panchayat department)</p>	<p>District Kurukshetra has already been declared free from opendefecation. Further dumping of Solid waste on river banks shall be prohibited and ensured so that no such dumping happen and also existing dumping if any will be cleared. Also idol immersion in water bodies shall be monitored and Prohibited during various festive seasons throughout the year. Irrigation shall clear the dumping of solid waste along with river banks. Further Prevention of entering of solid waste into water bodies shall be ensured throughout the District.</p>	<p>MC, KURUKSH ETRA, Irrigation, KURUKSH ETRA, HSPCB, Police Deptt,</p>	<p>Regular activity is being done.</p>
5.	Inventory of sources of water pollution	<p>Sources of water pollution has already been identified as per the list provided by the irrigation department to HSPCB and the necessary letter has issued to the concerned department to submit the action plan</p>	<p>Panchayat Deptt. HSVP PHED ULB</p>	<p>31/07/2023</p>

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6.	Oil spill disaster management (for coastal districts)	Not applicable		
7.	Protection of flood plains	All the flood protection works completed in the district. If there will any other area effected after Flood Season 2021, the same will be protected accordingly.	Irrigation Deptt.	Regular activity.
8.	Rejuvenation of groundwater	Inventorization for the Rain water harvesting will be carried out. Action plan for possible rain water harvesting system will be executed.	Irrigation Deptt. MC, KURUKS HETRA, PHED, HSVP Deptt, HSIIDC, XEN, Panchayati Raj PWD Deptt.	31/07/2023
9.	Complaints 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.	DEMC	Regular activity

4.2 Domestic Sewage

The sewage management in the district is entrusted to Public Health Engineering Department. As on date, PHED has installed and operating 04 no. STPs in district Kurukshetra having total installed capacity of 51.5 MLD and 01 no. STP of 15 MLD capacity installed by HSVP. These STP's are installed and maintained by Public Health Engineering Department (PHED) and HSVP and details of these STP's are submitted as under:-

Sr. No.	Name and Address of STP	Discharge achieved	Standards	Remarks
1.	25 MLD STP, PHED, Narkartari Road, Kurukshetra	pH 5.5-9.0 BOD 10 COD 50 TSS 20 Total Nitrogen 10 Feecal Coliform less than 100		Operational and achieving the discharge standard

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2.	11.5 MLD STP, PHED, Shahbad Markanda, Kurukshetra	pH 5.5-9.0 BOD 10 COD 50 TSS 20 Total Nitrogen 10 Feacal Coliform less than 100	Operational and achieving the discharge standard
3.	07 MLD STP, PHED, Ladwa, Kurukshetra	pH 5.5-9.0 BOD 10 COD 50 TSS 20 Total Nitrogen 10 Feacal Coliform less than 100	Operational and achieving the discharge standard
4.	08 MLD STP, PHED, Pehowa, Kurukshetra	pH 5.5-9.0 BOD 30 COD 250 TSS 100	Operational but not upgraded to achieve revised discharge standards dated 02.07.2020
5.	15 MLD STP, HSVP, Kurukshetra	pH 5.5-9.0 BOD 10 COD 50 TSS 20 Total Nitrogen 10 Feacal Coliform less than 100	Operational and achieving the discharge standard

PUBLIC HEALTH ENGINEERING DIVISION KURUKSHETRA

Sr. No.		Thanesar	Ladwa	Shahbad	Pehowa	Urban Estate Kurukshetra
23	Domestic Sewage Management --					
23.1	Total population -- Present 2022	197818	36767	54324	49538	122000
23.2	No. of household --	31689	5825	9222	7831	11932
23.3	Sewage generation (MLD) --	18.00 MLD	4 MLD	7.00 MLD	8.00 MLD	14.50
23.4	% of area covered with sewer line --	100%	100%	100%	100%	All Urban Estate covered with sewer line.
23.5	Gap, if any --	NIL	NIL	NIL	NIL	NIL
23.6	If there a Gap, then time lines to achieve the Gap	NIL	NIL	NIL	NIL	--
23.7	No. of house hold having sewage connection	3156	3849	3128	6903	11361

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23.8	Gap, if any	28533	1976	6094	928	--
23.9	If there a Gap, then time lines to achieve the Gap	Jun-24	Jun-24	Jun-24	Jun-24	--
23.10	No. of Existing STPs	1	1	1	1	1 No.
23.11	Capacity of existing STPs (MLD)	25.00	7.00	11.50	8.00	15.00 MLD
23.12	Gap, if any	NIL	NIL	NIL	NIL	--
23.13	If there a Gap, then time lines to achieve the Gap	N/A	N/A	N/A	N/A	--
23.14	Quantity of sewage reaching to the STP (MLD)	18.00 MLD	5.5 MLD	7.00 MLD	4.00 MLD	14.50 MLD
23.15	Quantity of sewage being treated at STP (MLD)	18.00 MLD	5.5 MLD	7.00 MLD	4.00 MLD	14.50 MLD
23.16	Quantity of sewage not reaching to the STP (MLD) and reasons	NIL	NIL	NIL	NIL	--
23.17	Proposal for diversion of sewage to the STP	N/A	N/A	N/A	N/A	--
23.18	Parameters achieved after treatment of sewage					
	• pH --	7.8	7.10	7.12	6.9	6.50 - 8.50
	• BOD --	7.4	7.8	6.8	13.28	≤2
	• COD --	48	36	44	59.84	≤50
	• TSS --	13	6	15	30.19	≤10
	• Total Nitrogen --	N.D	0.46	N.D	20.2	≤10
	• Feecal coliform	70	70	40	400	--
23.19	Online Monitoring Devices installed at STPs	Yes	Yes	Yes	Yes	Yes
23.20	Gap, if any	NIL	NIL	NIL	NIL	--
23.21	If there a Gap, then time lines to achieve the Gap	N/A	N/A	N/A	N/A	--
23.22	Proposal for utilization of treated waste water	Relates to CADA Deptt.	Irrigation Purpose	Irrigation Purpose	Irrigation Purpose	Treated water will be disposed

District Environment Plan, Kurukshetra

						off in park, green belt and irrigation purpose. The estimate is under preparation. Not provided latest status
23.23	Quantity of treated waste water being utilized (MLD	NIL	1 MLD	2.5 MLD	2.0 MLD	--
23.24	Please also mention where the treated waste Water is being utilized	N/A	Near by farmers for Irrigation Purpose	Disposed to Irrigation tank	Disposed to Irrigation tank	--
23.25	Gap, if any	Relates to CADA Deptt.	NIL	NIL	NIL	--
23.26	If there a Gap, then time lines to achieve the Gap	Relates to CADA Deptt.	NIL	NIL	NIL	--

In Ismailabad town, sewerage network is under progress and Monitoring committee directed that sewerage network of MC Ismailabad shall be complete by 31.3.2023. Not submitted latest status.

05 nos. operational STP's are being inspected on monthly basis by HSPCB. All these STP's have installed the online monitoring devices linked with the website of CPCB and HSPCB from where continuous monitoring of discharge standards of these STP's is being done. 66.5 MLD treated discharge from these STP's reaching to various drains for which the plan for utilization of this discharge need to be formulated by the Irrigation/Public Health Authorities.

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	04
No of Class-I towns and above	Nil
No of Towns STPs installed	05
No of Towns needing STPs	NIL
No of ULBs having partial underground sewerage network	04
No of towns not having sewerage network	NIL
Total Quantity of Sewage generated in District from Class II cities and above	66.5 MLD

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Quantity of treated sewage flowing into Rivers (directly or indirectly)	66.5 MLD
Quantity of untreated or partially treated sewage (directly or indirectly)	66.5 MLD
Quantity of sewage flowing into lakes	Zero
Total available Treatment Capacity	66.5 MLD

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

1) Urban/City

S. No.	Action points	Gaps and ActionPlan			Responsible agency	Timeline for completion of action plan
1.	Sewage Treatment Plants (STPs)	MCS	Treated effluent	Utilization of treated effluent	MCS PHED, Irrigation HSVP	Timeline
		HSVP				
		Than esar	15 MLD	Treated Effluent is being disposed off in Saraswati creek drain		
		PHED				
		Than esar	19.00	Nil		
		Ladwa	6.00	1.25 MLD (Irrigation Purpose)		
		Pehowa	6.50	3.00 MLD (Irrigation Purpose)		
Shahbad	4.50	1.00 MLD (Irrigation Purpose)				
2.	Underground sewerage network	MCS	Treated effluent	Utilization of treated effluent	MCS PHED, Irrigation HSVP	Timeline
		HSVP				
		Than esar	100 % sewerage line has been laid in the area of HSVP Sectors U/E KKR.	Treated Effluent is being disposed off in Saraswati creek drain		
		Pehowa	100 %			

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		wa	sewera ge line has been laid in the area of HSVP Sector- 1s U/E Pehowa .			
		Shah bad	100 % sewera ge line has been laid in the area of HSVP Sectors U/E Shahab ad.	Treated Effluent is being disposed off in Saraswat i creek drain		
		PHED				
		Than esar	19.00	Nil		
		Ladw a	6.00	1.25 MLD (Irrigation Purpose)		
		Peho wa	6.50	3.00 MLD (Irrigation Purpose)		
		Shah bad	4.50	1.00 MLD (Irrigation Purpose)		

5.0 Industrial wastewater management

In the district total approximate 5.191 MLD of industrial effluent is being generated from various industrial activities. The most of the industries in district are operating out of the industrial area with the change of land use from the local bodies. There are total approximate 274 no. of industries in District Kurukshetra. The waste water generated is scientifically treated through standalone Effluent Treatment Plants (ETPs) installed by the individual industry. There is no major industrial area in District Kurushetra.

Current Status related to Industrial Wastewater Management

Number of Red, Orange, Green and White industries in the District	Categories	Numbers of Industries
	Red	31
	Orange	197
	Green	46
	Total	274

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No of Industries discharging wastewater	84
Total Quantity of industrial wastewater generated	5.191 MLD
Quantity of treated industrial wastewater discharged into Nalas / Rivers	5.191 MLD
Common Effluent Treatment Facilities	NIL
No of Industries meeting Standards	84
No of Industries not meeting discharge Standards	2
Industrial Waste Water Management	
No. of industries	274
Industrial Waste Water generation (MLD)	5.191
No. of Industries having ETPs	84
Gap , if any	Nil
If there a Gap, then timelines to achieve the Gap	NA
No. of ETPs have Online Monitoring Devices	5
Gap , if any	Nil
If there a Gap, then timelines to achieve the Gap	NA
No. of ETPs having Online Monitoring Devices connected with server of HSPCB	5
Gap , if any	Nil
If there a Gap, then timelines to achieve the Gap	NA
No. of Existing CETPs	Nil
Capacity of existing CETPs (MLD)	NA
Gap , if any	NA
If there a Gap, then timelines to achieve the Gap	NA
Quantity of Industrial Waste Water reaching to the CETPs (MLD)	NA

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Quantity of Industrial Waste Water being treated at CETPs (MLD)	NA
Quantity of Industrial Waste Water not reaching to the CETPs (MLD) and reasons	NA
Proposal for diversion of Industrial Waste Water to the CETPs	NA
Parameters achieved after treatment of sewage	As No CETP in Kurukshetra District, So the given point is not applicable
• pH	NA
• BOD	NA
• Oil & Grease	NA
• Temperature	NA
• Suspended Solids	NA
• Dissolved Solids (inorganic)	NA
• Total residue chlorine	NA
• Ammonical nitrogen(As N)	NA
• Total Kjeldahl nitrogen(as N)	NA
• Chemical Oxygen Demand	NA
Online Monitoring Devices installed at CETPs	NA
Gap , if any	NA
If there a Gap, then timelines to achieve the Gap	NA

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	The action has been taken against the Industries, who have not meeting the discharge standards.	HSPCB	Regular inspection and sampling is being conducted as per inspection module

District Environment Plan, Kurukshetra

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.
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6.0 Mining Activity Management plan

There is no mining activity in District Kurukshetra.

a. Current Status related to Mining Activity Management

Details of Data Requirement	Existing Mining operations
Type of Mining Activity	Nil
No of licenced Mining operations in the District	Nil
% Area covered under mining in the District	Zero
Area of Sand Mining	Zero

b. Identification of gaps and action plan:

S. No.	Action points	Gaps and Action Plan	Responsible agency	Timeline for completion of action plan
1.	Monitoring of Mining activity	<ul style="list-style-type: none"> Not required as there is no Mining Activity in Kurukshetra District 	Mining Deptt.	NA
2.	Inventory of illegal mining if any mining	No legal as well as illegal mining in Kurukshetra District	Mining Deptt.	NA
3.	Environment compliance by Mining industry	No mining activity in the District.	MoEF & CC SEIAA, HSPCB Mining Deptt.	NA

7.0 Noise Pollution Management plan

The district Kurukshetra have four major towns i.e. Ladwa, Pehowa, Shahabad & Kurukshetra. which are densely populated. There are many hotels and banquet halls in the town which are organizing regular marriage ceremonies/ parties/other functions, which are one of the major source of noise pollution. Additionally the small scale industries and other industries setup have many industrial activities which are source of noise pollution and all these industries have also backup source of power as generator set which is another source of air pollution. The noise pollution due to blowing of horns/pressure horns by the vehicles is also substantial source of noise pollution in the district.

The HSPCB is receiving complaints of noise pollution due to industrial activity in the residential area and action as per the Noise Rules, 2000 is being taken against the defaulting units. Moreover, the Sub Divisional Magistrate in the district is entrusted to take action against the Religious and other domestic activities causing noise pollution under CRPC-133 & as per Noise Rules, 2000. The police department is entrusted to maintain the time lines fixed as per the rules for marriage functions/parties and DJ operation. The Police Deptt. also entrusted to maintain the compliance in the silence zone.

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	Noise monitoring being conducted as per inspection module by 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.	Monitoring kits /Noise level meters available with HSPCB and DSP Traffic	DSP Traffic, SDM, HSPCB	Completed
2.	Ambient Noise, Level monitoring.	Possibilities of installation of ambient noise level monitoring stations will be explored. Portable analyzers will be provided with the enforcement agencies. HSPCB also conducting the ambient air noise monitoring during festive seasons.	DSP Traffic, SDM, HSPCB	Status not received from SDM, DSP

District Environment Plan, Kurukshetra

3.	Signboards in Noise zones	Signboard to be setup	MC, PWD, NHAI,	30/06/2023
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.

Management of solid and liquid waste generated by the poultry farm of the district

As per latest order of Environment department dated 27.01.2022 the department of Animal Husbandry and dairy department shall be the executive agency for implementation of the environment guidelines for poultry farms .

Item No. 06

Court No. 1

**BEFORE THE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI**

(BY HYBRID MODE)

Original Application No. 360/2018
(SLP (Civil) No. 2959/2014)

Shree Nath Sharma

Applicant

Versus

Union of India &Ors

Respondent(s)

Date of hearing: 17.01.2023

**CORAM: HON'BLE MR. JUSTICE ADARSH KUMAR GOEL, CHAIRPERSON
HON'BLE MR. JUSTICE SUDHIR AGARWAL, JUDICIAL MEMBER
HON'BLE PROF. A. SENTHIL VEL, EXPERT MEMBER**

Respondent: Mr. Mr. Mukesh Kumar, Advocate for CPCB
Ms. Richa Kapoor, Advocate for the State of Punjab & Punjab PCB
Mr. Rahul Khurana, Advocate for the State of Haryana & HSPCB
Mr. Pradeep Misra & Mr. Daleep Dhyani, Advocates for UPPCB

ORDER

1. This order is being passed in continuation of earlier order dated 08.02.2022 on the subject of updating and enforcing District Environment Plans in terms of Articles 243 G, 243 W, 243 ZD, read with 11th and 12th Schedules to the Constitution of India.

2. Direction for preparing such plan was first issued by this Tribunal vide order dated 15.07.2019 in O.A. No. 710/2017 as follows:-

*“6. 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 Chief Secretaries of all the States/UTs have appeared before this Tribunal, including the Chief Secretary of State of Rajasthan and directions have been issued for continuous monitoring and filing of further reports.***

7. *Vide order dated 12.09.2019, while fixing a schedule for further appearance of the Chief Secretaries of all the States/UTs, direction has been issued to compile information with reference to the following specific thematic areas viz.:*

- *Compliance to Solid Waste Rules including Legacy Waste.*
- *Compliance to Bio-medical Waste Rules.*
- *Compliance to Construction & Demolition Waste. Compliance to Hazardous Waste Rules.*
- *Compliance to E-waste Rules.*
- *351 Polluter Stretches in the country.*
- *122 Non-attainment cities.*
- *100 industrial clusters.*
- *Status of STPs and re-use of treated water.*
- *Status of CETPs/ETPs including performance.*
- *Ground water extraction/contamination and re-charge.*
- *Air pollution including noise pollution.*
- *Illegal sand mining.*
- *Rejuvenation of water bodies.*

8. *Such information is to be furnished to the CPCB by the Chief Secretaries of all the States/UTs indicating:*

- *Current status*
- *Desirable level of compliance in terms of statutes.*
- *Gap between current status and desired levels.*
- *Proposal of attending the gap with time lines.*
- *Name and designation of designated officer for ensuring Compliance to provisions under statute.*

9. *Since CPCB is to file updated report by 15.11.2019, the Chief Secretaries of all the States/UTs may furnish such information by 31.10.2019.*

10. *We may also refer 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.”

11. **To facilitate preparation of such District Environment Plan, it will be appropriate that CPCB prepares a Model/Models and places the same on its website which may be adopted with suitable changes as per local requirements for all Districts in the country and monitored by the Chief Secretaries with reports to the Tribunal in O.A. No. 606/2018.**

12. **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.**

13. **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.”**

3. Thereafter, the matter was taken up in the present application by passing orders dated 19.03.2020, 29.01.2021 and 05.07.2021 in the light of reports about compliance status filed by CPCB dated 14.02.2020, 28.01.2021 and 02.07.2021. The matter was last reviewed vide order dated 08.02.2022. Relevant extracts from earlier orders are reproduced below:-

19.03.2020

“5. While we note the steps taken, **completion of environmental plans in terms of order of this Tribunal cannot be unduly delayed having regard to implications of such steps for protection of environment and public health. Some of the handicaps pointed out can be overcome by pro-active role of CPCB in ensuring preparation of at least one model District Environment Plan in every State in the first instance which can thereafter be replicated for all the Districts in the States/UTs**

and so on. For this purpose, State PCB and concerned District Magistrate may assist the CPCB. This step may be completed by simultaneous initiative in all the States within three months. In the last nine months, some work may have already been done in the States/UTs. Thus, it should be possible to finalize a model action plan at least for one District each in all States/UTs in the next three months. Thereafter, the exercise may be replicated with regard to all the Districts followed by State Environmental Plan and then a National Environmental Plan in further three months. CPCB is at liberty to utilize compensation funds and involve any individuals/organizations in the process. This exercise will be without prejudice to monitoring mechanism in terms of earlier directions. Wherever exercise has been completed and found to be satisfactory, further steps for execution may be taken accordingly. Status report of progress in this regard may be furnished before the next date by email at judicial-ngt@gov.in.”

20.09.2021

“5. xxx.....xxx.....xxx”

(iii.) As per the assessment made by CPCB, it is observed that District / UT Environment Plan prepared by Chandigarh, UT Environment Department is satisfactory, as it covers all thematic areas including action plan along with timelines for respective implementing agencies. Further, the State Environmental Plan (SEP) prepared by West Bengal State is also satisfactory, wherein the district level plans and action points are comprehensively addressed.

5. Proposed Follow-up Action

- (i) Since State have already prepared 220 DEPs, it is submitted that, these plans may be implemented by respective States after verification to ensure all the thematic points are adequately covered as per data templates and time-bound action plans are identified with respective agencies at District and State level. These Plans also need to be integrated with State Environment Plans. State may also take help of any expert agency or institution to streamline all DEPs. Adequate budgetary provision may be made by States for preparation of DEPs and SEPs.**
- (ii) 5 selected DEPs for 5 Districts namely Baharaich, UP; Bokaro, Jharkhand; Pune, Maharashtra; Chamrajnagar, Karnataka; and Panchkula, Haryana to be verified and improved by CPCB in 03 months and the same may be shared with every State and UT as model DEPs for information and reference of other Districts.**
- (iii) States namely Andaman and Nicobar Islands, Telangana, Uttarakhand, Arunachal, Mizoram and Sikkim, including the other States who have not yet**

completed DEPs all Districts may complete the same in time bound manner.”

6. We have perused the report filed by the Oversight Committee for the State of UP, giving the compliance status in UP, which is on same lines as the report of the CPCB.

7. From the above, it is seen that out of 739 Districts, DEPs have been prepared in 220 Districts, out of which CPCB has data for 115 Districts. CPCB has selected five representative models having regard to social and geographical considerations.

8. In view of above, having regard to the significance of the issue and inadequate progress, **we direct the Chief Secretaries of all the States/UTs to oversee and monitor compliance by the concerned District Magistrates for preparing the requisite plans and execute the plans already prepared. Further steps for preparation and execution of State and National plans may also be taken in the interest of scientific and effective protection of environment and public health.**

9. **Vide orders dated 22.01.2021 in OA 916/2018, Sobha Singh & Ors. vs. State of Punjab & Ors. and OA 496/2016, Tribunal on its own motion vs. Govt. of NCT of Delhi & Ors., we have requested the Monitoring Committees, constituted by this Tribunal for certain environmental issues in Punjab and Delhi, to oversee compliance of preparation and execution of DEPs in Punjab and Delhi and furnish compliance status as on 31.3.2021.**

10. **We make similar request to the Monitoring Committee in UP, headed by Justice SVS Rathore, a former Judge of Allahabad High Court, the Oversight Committee for compliance of directions of this Tribunal for rejuvenation of river Ghaggar, headed by Justice Pritam Pal, former Judge of the Punjab and Haryana High Court to oversee compliance on this aspect for Haryana, the Committee headed by Justice Prakash Tatia, former Chief Justice of Jharkhand High Court, for compliance in Rajasthan, Justice B.C. Patel, former Chief Justice, Delhi High Court for compliance in Gujarat, Justice V.M. Kanade, former Judge, Bombay High Court, who has earlier monitored compliance of certain directions of this Tribunal relating to environmental issues, for compliance in Maharashtra. They may send status report as on 31.3.2021 by 15.4.2021. For all other States/UTs, the Chief Secretaries concerned may conduct such oversight and furnish the status of compliance as on 31.03.2021 to CPCB. CPCB may file a consolidated report before this Tribunal on or before 30.04.2021 by e-mail at judicial-ngt@gov.in preferably in the form of searchable PDF/OCR Support PDF (and not in the form of Image PDF). State PCBs may also provide necessary assistance in coordination.”**

05.07.2021

“1to12...xxx.....xxx.....xxx

13. As already noted, it is the Constitutional obligation of the States/UTs to ensure compliance of the mandate under Articles 243 G, 243 W and 243 ZD read with 11th and 12th Schedules. Clean environment is part of right to life under Article 21 of the Constitution and also fundamental in governance under Articles 37 read with 47 and 48A. Environment is also a subject covered by the definition of disaster under Section 2(b) of the Disaster Management Act, 2005. Thus, effective administrative machinery equipped to deal with the matter is required at all levels. The existing machinery should be able to meet the challenge and should be revamped from time to time. **As repeatedly observed by this Tribunal, degradation of air, water and soil cause large number of deaths and diseases, apart from loss of livelihood. Environment find prominent mention in the “Sustainable Development Goals” (SDGs) which are planned and coordinated at international levels also. Appreciable initiatives taken include Swachh Bharat Mission, Clean water, restoration of water bodies - ponds, rivers, lakes, protection of eco-sensitive zones but success depends on vibrant monitoring. The reports discussed above are not re-assuring. There seems to be huge gap in responsibility entrusted to the authorities and action on the ground, as shown by the reports quoted earlier. Damage to the environment is a criminal offence under various statutes. Deaths and diseases attributable to non-compliance of environmental norms cannot be disputed but adequate remedial action remains to be seen. Effect of deaths and diseases due to pollution is no less than homicides or hurts to human beings. Major failure of State authorities in compliance of waste management norms, which management is vested in the State authorities but no accountability is fixed for such failures. Such unsatisfactory state of affairs needs to be checked by involvement of senior functionaries in the Government, committed to the welfare of citizens, the Constitution and the Rule of law. We hope the concerned authorities will not fail the citizens. Remedies need to be provided at grassroot level with as high priority as opening of primary health centres or police stations for protection of basic right to clean environment, health and hygiene. This requires identification of challenges at every level, starting from Panchayat level upto the national level. The identified issues need to be compiled and placed in public domain which may help in public participation which is a recognized strategy for protection of the environment.**

14. **The 73rd and 74th amendments to the Constitution covering the requirement of having a plan for protection of environment upto Panchayat level, coming in force in the year 1993 which, consistent with the international conventions, including the Stockholm and Rio conferences, to which India is a party, seek to promote protection of environment at the grass root level. It is a matter of regret that the mandate of law remains practically dead letter when even after 28 years, such plans are not in place at many places and where plans have been prepared, the same are incomplete. As found by the Oversight Committees in the reports quoted above, such plans must clearly identify the challenges in terms of gaps in current status of environment and desirable situation and compliance status to be achieved. Making of plans is only a first step which**

will not by itself be complete unless there are budgetary provisions, timelines and effective monitoring mechanism. There has to be flow of information from the lowest level upto the national level to enable making of appropriate policies and also flow of directions/guidelines from the national level upto the Panchayat level based to help tackling the complex issues and suitable -holding. It is only based on grass root level information and plans that an effective and meaningful State level plan and thereafter national level plan can be prepared. This is not merely a wish but the Constitutional mandate and situational imperative as shown by factual situation depicted in orders of this Tribunal dealing with the situation.

15. There is dire need for compiling information on vital environmental issues and planning to address the gaps in compliances. Current monitoring is inadequate. In OA No. 95/2018, *Aryavart Foundation v. M/s Vapi Green Enviro Ltd. & Ors.*, vide order dated 05.02.2021, this Tribunal considered the status of performance of statutory regulators – State PCBs, based on consolidated report of the CPCB and found the situation far from satisfactory. The Tribunal also noted challenges posed by pollution due to violation of environmental norms. The Tribunal concluded:

“10. We have given due consideration to the report, which shows startling state of affairs tested on the touchstone of ‘Sustainable Development’ principle, accepted in Stockholm conference and which has been held to be part of right to life under article 21 of the Constitution in *Vellore Citizens’ Welfare Forum v. Union of India*, (1996) 5 SCC 647.

11. Some of the significant observations include failure to fill up key positions, to acquire necessary equipment, to arrange continuous training, to prepare State Environment policy, to specify industries-siting criteria, making inventory of grossly polluting industries, not specifying standards of inlet to the CETPs and hazardous waste, inaction against identified polluters, taking steps for bridging gaps in law and enforcement with regard to liquid and solid waste (of different kinds), including non-functional and noncompliant ETSPs, STPs and CETPs, inadequate monitoring of environmental compliance in Class II towns and coastal areas, failure to compile and analyse data and filing annual reports, inefficiency shown by inaction against serious violations of environmental norms. Needless to say that such sorry state of affairs is reflection of poor governance, making environmental rule of law far from reality.

12. The environmental law principles, which this Tribunal is mandated to apply under sections 20 and 15 of the NGT Act, 2010, are – ‘sustainable development’, ‘precautionary’ and ‘polluter pays’. In *Hanuman Laxman*, (2019) 15 SCC 401, (paras 142-156), significance of environmental rule of law has been highlighted to achieve sustainable development goals for prosperity, health and well being. **This requires filling of gap between law and enforcement.** In *T.N. Godavarman*

Thirumulpad v. Union of India, (2002) 10 SCC 606, at page 621, it was observed that the State has to

*“forge in its policy to maintain ecological balance and hygienic environment. Article 21 protects right to life as a fundamental right. Enjoyment of life and its attainment including the right to life with human dignity encompasses within its ambit, the protection and preservation of environment, ecological balance free from pollution of air and water, sanitation without which life cannot be enjoyed. Any contra acts or actions would cause environmental pollution. Therefore, **hygienic environment is an integral facet of right to healthy life and it would be impossible to live with human dignity without a humane and healthy environment.** Environmental protection, therefore, has now become a matter of grave concern for human existence. Promoting environmental protection implies maintenance of the environment as a whole comprising the man-made and the natural environment. Therefore, there is constitutional imperative on the Central Government, State Governments and bodies like municipalities, not only to ensure and safeguard proper environment but also an imperative duty to take adequate measures to promote, protect and improve the man-made environment and natural environment.”*

13. *In A.P. Pollution Control Board v. Prof. M.V. Nayudu, (1999) 2 SCC 718, at page 732, it was observed “..**Good governance is an accepted principle of international and domestic laws.It includes the need for the State to take the necessary “legislative, administrative and other actions” to implement the duty of prevention of environmental harm...**”. In Techii Taga Tara, supra, the Hon’ble Supreme Court referred to several Committees on **need for revamping the regulatory bodies by appointing persons of outstanding ability and high reputation to the State PCBs and equipping them with laboratories and other equipment for performing statutory functions.** Apart from the Tribunal being approached under sections 14 and 15 by aggrieved parties, pointing out degradation of environment and inaction of the statutory regulators, the Hon’ble Supreme Court has required this Tribunal to monitor compliance of such statutory obligations for protecting environment. This is not possible unless the statutory regulators are effective. Significant issues so referred by the Hon’ble Supreme Court include a) liquid waste management, (2017) 5 SCC 326, *Paryavaran Suraksha vs. Union of India & Ors.* wherein it was directed that requisite STPs, ETPs, CETPs must be set up by 31.3.2018, failing which coercive measures may be taken against concerned authorities, to enforce statutory mandate of the Water (Prevention and Control of Pollution) Act enacted in 1974, prohibiting any water pollution, making it a criminal offence. b) compliance of solid waste management rules. Vide order dated 2.9.2014 in WP 888/1996, *Almitra H. Patel Vs. Union of India & Ors.* on the file of the Supreme Court, the issue has been*

referred to this Tribunal for monitoring compliance of Solid Waste Management Rules. c) In (2015) 12 SCC 764, MC Mehta v. UOI, issue of rejuvenation of Ganga stands referred to this Tribunal. d) Vide order dated 24.7.2017 in WP 725/1994, 'And quite flows Yamuna', rejuvenation of Yamuna stands referred to this Tribunal. It is not necessary to refer to several other orders. Finding that statutory regulators were not effective and serious damage was continuing, the Tribunal has appointed independent monitoring Committees¹ on several issues.

In substance, monitoring of the enacted environmental laws including the Water Act, Air (Prevention and Control of Pollution) Act, 1981 and the Environment (Protection) Act, 1986 and Rules framed thereunder needs to be reviewed and made effective in the interest of protection of environment and public health. This is not possible unless the regulatory bodies are duly manned and equipped and function efficiently. The report shows that it is not happening and there are huge gaps. With such gaps, it is only a dream to expect clean environment – fresh water or fresh air. Irreversible degradation of environment is bound to result in avoidable deaths and diseases and loss of scarce and good quality water, air and soil and biodiversity.

14. The findings in the report showing gaps resulting in large scale non-compliances in enforcement of environmental laws are supported by observations of this Tribunal, which include the following:

(I) OA 593/2017, Paryavaran Suraksha Samiti & Anr. vs. Union of India & Ors.², involves monitoring of liquid waste management in terms of orders of the Hon'ble Supreme Court in (2017) 5 SCC 326. We have found that as a result of continuing failure of the statutory authorities to ensure compliance, industrial as well as municipal liquid waste is being discharged **resulting in pollution of groundwater as well as surface water, including water bodies, drains, streams, rivers and coastal areas. The Tribunal has noted that as per data compiled by the CPCB, 351 river stretches are declared polluted. Comprehensive Environment Pollution Index (CEPI) prepared by the CPCB shows that 100 industrial clusters are polluted.** The Tribunal is also dealing with the remedial action for restoration of the 351 stretches in OA

¹To monitor compliances with regard to:

- (i) River Ghaggar in OA No. 138/2016 (TNHRC), Stench Grips Mansa's Sacred Ghaggar River
- (ii) River Sutlej in OA 916/2018, Sobha Singh v. State of Punjab & Ors.
- (iii) River Yamuna in OA 06/2012, Manoj Mishra v. UOI & Ors.
- (iv) River Musi in OA 426/2018, Mohammed Nayeem Pasha & Anr. v. State of Telangana & Ors.
- (v) River Ganga in OA 200/2014, M.C. Mehta v. Union of India & Ors.
- (vi) River Jojari in OA 329/2015, Gram Panchayat Araba v. State of Rajasthan & Ors.
- (vii) CETP in Taloja District in OA 125/2018, Arvind Pundalik Mhatre v. Ministry of Environment, Forest and Climate Change & Ors.
- (viii) District Environment Plan in OA 360/2018 Shree Nath Sharma v. Union of India & Ors.
- (ix) 'Rat Hole' coal mining in OA 110(THC)/2012, Threat to Life Arising Out of Coal Mining in South Garo Hills District v. State of Meghalaya & Ors.
- (x) Solid waste management rules in OA 606/2018, Compliance of Municipal Solid Waste Management Rules, 2016 and other environmental issues.

²Vide order dated 21.09.2020

673/2018³, In Re: News item published in “The Hindu” authored by Shri Jacob Koshy, titled “More river stretches are now critically polluted: CPCB” for which the Tribunal has directed **preparation and execution of action plans for each of such stretches by constituting River Rejuvenation Committees (RRCs) for all States/UTs headed by Environment Secretaries which action needs to be overseen by the Chief Secretaries at the State level and by a Central Monitoring Committee (CMC) headed by Secretary, Jal Shakti alongwith NMCG and CPCB at the national level.** OA 829/2019⁴, Lt. Col. Sarvadaman Singh Oberoi v. Union of India & Ors. deals with the remedying of **coastal pollution for which directions have been issued on the same pattern for preparation and execution of action plans by the RRCs to be overseen by the Chief Secretaries at the State level and by the CMC at the national level.** The same order also deals with utilisation of treated water, being OA 148/2016, Mahesh Chandra Saxena vs South Delhi Municipal Corporation & Ors. and OA 325/2015⁵, Lt. Col. Sarvadaman Singh Oberoi v. Union of India & Ors., dealing with the issue of restoration of water bodies by removing encroachments and preventing pollution has been dealt with by this Tribunal. OA 176/2015, Shailesh Singh v. Hotel Holiday Regency, Moradabad & Ors.⁶, the Tribunal has directed monitoring of groundwater extraction to give effect to the mandate in Hon’ble Supreme Court judgment in M.C. Mehta v. Union of India & Ors. (1997) 11 SCC 312.

- (II) Apart from water pollution, air pollution the issue air pollution has been dealt with by this Tribunal by separate order in OA 681/2018⁷, News item published in “The Times of India” Authored by Shri Vishwa Mohan titled “**NCAP with multiple timelines to clean air in 102 cities to be released around August 15**” requiring constituted **Air Quality Monitoring Committees in all States/UTs to prepare and execute action plans for control of air pollution in 122 non-attainment cities (where air quality is normally beyond the prescribed norms).**
- (III) The issue of solid waste management has been dealt with by this Tribunal in OA 606/2018 in pursuance of directions of the Hon’ble Supreme Court in Writ Petition No. 888/1996, Almitra H. Patel & Anr. v. Union of India & Ors. In the said matter, the Chief Secretaries of all States/UTs were required to remain present before this Tribunal⁸ and after interaction with them, separate orders for all States/UTs referring to the individual issues in such States/UTs,⁹ particularly **issue of legacy waste dump sites and remediation of current**

³ Vide order dated 21.09.2020

⁴ Vide order dated 21.09.2020

⁵ Vide order dated 18.11.2020

⁶ Vide order dated 20.07.2020

⁷ Vide order dated 21.08.2020

⁸ Vide order dated 16.01.2019

⁹ Vide order dated 18.07.2019 (last such order is in respect of Jammu & Kashmir)

waste on scientific basis were dealt with and the Chief Secretaries were directed to monitor compliance every month by creating a monitoring cell, directly under them, in terms of directions of the Hon'ble Supreme Court and the District Magistrates monitoring such compliances every fortnight. It has been found that there are more than 3000 dump sites where legacy waste has accumulated over the years but the remedial action has not been taken except at very few places. This is resulting in water and air pollution and soil degradation on continuous basis, to the detriment of the environment and the public health. The statutory timelines have come to an end. Reference is made in this regard also to order dated 29.01.2021 in OA No. 519/2019, In re: News item published in "The Times of India" Authored by Jasjeev Gandhiok & Paras Singh Titled "Below mountains of trash lie poison lakes" and order dated 28.02.2020 in OA No. 606/2018, Compliance of Municipal Solid Waste Management Rules, 2016. It was directed, vide order dated 10.01.2020, that compensation will be payable for failure to comply with the requirement of taking steps mentioned in Rule 22 of the SWM Rules, 2016 at scales mentioned therein, depending on the size of local bodies, from 01.04.2020 till compliance. Compensation was also directed to be recovered at the laid down scale for delay in commencing and completing the legacy waste remediation measures.

- (IV) With regard to **bio-medical waste**, the matter has been dealt with in OA 710/2017, Shailesh Singh, v. Sheela Hospital & Trauma Centre, Shahjahanpur & Ors.¹⁰, with regard to **hazardous waste**, matter has been dealt with in OA 804/2017, Rajiv Narayan v. Union of India & Ors.¹¹, with regard to **e-waste**, matter has been dealt with in OA 512/2017, Shailesh Singh v. State of UP¹², with regard to **plastic waste**, matter has been dealt with in EA 13/2019 in OA 247/2017, Central Pollution Control Board v. State of Andaman & Nicobar & Ors.¹³ for laying down liability to pay compensation for non-compliance.

15. The failure of monitoring has been found to have direct nexus to atleast 10 industrial accidents ¹⁴ which have taken place in the recent past which have been dealt with by this Tribunal.

16. Vide order dated 03.02.2021 in OA No. 85/2020, **Yashyashvi Rasayan Pvt. Ltd.**, the Expert Committee, appointed to suggest means to prevent disasters, recommended strengthening the monitoring mechanism by making appointments against all vacant posts to ensure that onsite and offsite emergency plans are in place and mock drills take place,

¹⁰ Vide order dated 18.01.2021

¹¹ Vide order dated 29.01.2021

¹² Vide order dated 15.01.2021

¹³ Vide order dated 08.01.2021

¹⁴

to prevent any such incidents and medical facilities are available at the nearest point in case such incident takes place to save lives of the victims. This aspect has also been dealt with vide order dated 01.02.2021 in OA No. 837/2018, Sandeep Mittal v. Ministry of Environment, Forests & Climate Change & Ors. on the subject of monitoring the EC conditions.

17. As earlier observed, damage to environment is directly linked to the public health and neglecting compliance of environmental norms results in deaths and injuries. Violation of environmental norms needs to be taken as seriously as preventing crimes of homicides and assaults. It is more serious as the victims may be wide spread and unidentified. The consequences may even affect future generations. **The compliance status is directly linked to effectiveness of monitoring which requires that the key office bearers of statutory regulators and oversight bodies are qualified, competent and reputed and exclusively dedicated to such work, instead of devoting part time, while simultaneously holding other positions.Adequate and well-equipped laboratories and effective machinery for implementation of "Polluter Pays" principle for assessment and collection of compensation is another important aspect of environmental governance.**

18. It is seen that several State PCBs do not even have constraint of funds. Still, the requisite manpower and the equipment are not being arranged. **Moreover, due application of "Polluter Pays" principle, in exercise of regulatory powers under the Air, Water and EP Acts to compensate the environment, enables them to have requisite funds for hiring experts, installing monitoring equipment and taking other remediation and restoration measures, including restoration of contaminated sites.** The quality and quantity of key manpower cannot be compromised, if environmental governance is to improve to achieve the sustainable development goals. It is well known that most of the key environmental laws have been enacted in the wake of Stockholm Conference (1972) under Entry 13 of List-I read with Article 253 of the Constitution, with a view to achieve 'sustainable development' of which the 'Precautionary' principle, "Polluter Pays" principle, Intergenerational Equity and Public Trust Doctrine principles are integral part. **Sad part is that even after 47 years of Water Act and 40 years of Air Act, water and air pollution is rampant, without serious adverse action. Though there are criminal offences with minimum prescribed sentence, hardly any punishment is handed down. Hardly any compensation is recovered from the violators. Victims continue to suffer and so does the environment. This requires attention of all concerned at higher levels in governance.**

19. In view of above, the recommendations in the CPCB report need to be urgently implemented by all concerned for revamping and upgrading the regulatory bodies and their equipment which needs to be a continuous exercise. **The Chief Secretaries of all States/UTs, in coordination with the Secretary**

Environment and Chairman State PCB/PCCs in their respective jurisdiction, need to forthwith study and address the issues emerging from the report, prepare and execute their respective action plans. This will include filling up all vacant posts by competent persons and procuring the requisite equipment. The CPCB may assist and monitor all the States for compliance of these directions. It will be open to the CPCB to prepare a format which may contain qualifications, minimum eligibility criteria, required experience for the key positions and the specifications of equipment. It is suggested that if some of the State PCBs find it difficult to select/recruit suitable candidates, a designated Committee of the MoEF&CC and CPCB, in consultation with such State PCBs, may explore possibility of the central selection mechanism so that the talent pool so selected can be made available for posting at appropriate locations, where recruitment is found to be otherwise difficult. We have noted the observations in the report that at some places administrative manpower is more than technical manpower which may not be a desirable situation. Such situation may be reviewed and remedied by the concerned States. The observations that the work of regulators should be exclusive for the incumbents appointed applies to all key positions, including Chairman/Member Secretary, Regional Officers, Engineers and Scientists of PCBs/PCCs.

20. Further, **for improving monitoring and planning, authentic data needs to be compiled at all levels. Initiative will have to be taken consistent with Digital India initiatives by the MoEF/MoJS/MoUD/CPCB and based on such policy decisions, the Environment departments of all States/UTs will have to compile data in their respective jurisdiction, preferably Districtwise. On that basis District Environment Data Grid (DEDG), State Environment Data Grid (SEDG) and National Environment Data Grid (NEDG) can be set up and continuously updated. The Grid can be connected to online monitoring systems. Comprehensive Environment Pollution Index (CEPI) is being prepared limited to the Industrial Area but the Grid can cover larger areas and aspects and can be source of research and planning. It can also facilitate monitoring of and be in sync with other government initiatives such as National Mission for Clean Ganga, Swachh Bharat and Jalshakti Abhiyan etc. Based on such data, it may also be easier to study 'carrying capacity' of different areas to plan siting policy for various activities.**

21. Further, there is need to study the extent of environmental loss and the contributors to the same. Though environment is priceless, normative parameters are now available to determine the compensation for the loss caused for failure to observe laid down rules and regulations such as not clearing legacy waste as per Solid Waste Management Rules, causing air/water pollution. Environment is wealth which needs protection from being plundered by law violators, for their monetary interests, by adequate monitoring and stringent vigilance. Its scientific management, including enforcement of polluter pays principle, requires study of level of pollution and

contributors thereto and cost of restoration to be recovered by an efficient machinery. Such steps will advance the environmental rule of law and lead to sustainable development.

22. The directions on the subject are summed up as follows:

- i. The Chief Secretaries of all States/UTs, in coordination with their respective Secretary Environment and Chairman State PCB/PCCs, need to forthwith study and address the issues emerging from the CPCB report, prepare and execute their respective action plans which will include filling up all vacant posts by competent persons and procuring the requisite equipment, including commissioning and upgradation of all laboratories and recognition under the EP Act, 1986. The CPCB may assist and monitor all the States for compliance of these directions. The steps in this regard be initiated and completed as far as possible within six months. In view of Section 33 of the NGT Act, 2010, whereunder the NGT Act has overriding powers over other statutes, any restriction placed by any administrative order will not stand in the way of carrying out this direction.**
- ii. We direct the CPCB to prepare a format which may contain qualifications, minimum eligibility criteria, required experience for the key positions and the specifications of equipment. All States/UTs may act accordingly.
- iii. MoEF&CC and CPCB may design a mechanism for annual performance audit of all the State PCBs/PCCs.
- iv. It is suggested that if some of the State PCBs find it difficult to select/recruit suitable candidates, a designated Committee of the MoEF&CC and CPCB, in consultation with such State PCBs, may explore possibility of the central selection mechanism so that the talent pool so selected can be made available for posting at appropriate locations, where requirement is found to be otherwise difficult. A plan be prepared for continuous training of the incumbents at regional levels periodically.
- v. In view of the findings in the report that at some places administrative manpower is more than technical manpower, such situation may be reviewed and remedied by the concerned States.
- vi. The observations that the work of regulators should be fulltime for the incumbents appointed applies to all key positions, including Chairman/Member Secretary and Regional Officers, Engineers, Scientists of PCBs/PCCs. Such incumbents may not be given any other additional charge. Only exception can be in States where there are no significant environmental issues so as to provide the incumbents fulltime work. Such States may seek

exemption in respect of this direction from CPCB, giving relevant information justifying such exemption.

- vii. CPCB and State PCBs/PCCs, as directed earlier, may utilise EC funds on laboratory set up/upgradation, and on the mentioned areas in the report as well as on approved District Environment Plans. No approval of Central/ State Government will be necessary in this regard in view of section 33 of the NGT Act, supra.*
- viii. Consistent with Digital India initiatives, MoEF&CC/MoJS/CPCB may consider setting up and periodically updating National Environment Data Grid (NEDG) linked to the State Environment Data Grids (SEDGs) DEDGs and further linked to available portals like online air/water quality, Sameer and other monitoring stations to facilitate analysis, research and planning on the subject. It may be further interlinked to initiatives like NMCG/Swachh Bharat/Jal Jeevan Mission.*
- ix. To assess the extent of monetary loss caused to the environment on account of violation of environmental norms by failure to scientifically manage waste, violating Water/Air/EP/Forest (Conservation) Acts and other specified Acts for fixing accountability, for improving efficiency and better enforcement of 'Polluter Pays' principle.*
- x. To monitor the extent of carrying capacity for particular activities at different locations for planning suitability of siting of particular activities for giving effect to 'Precautionary' and 'Sustainable Development' principles"*

16. On various thematic areas mentioned above, which are expected to be the components of District Environment Plans such as waste management, air pollution, water pollution, protection of eco sensitive areas, protection of rivers, water bodies, conservation of groundwater, use of treated water, rainwater harvesting, preventing dust pollution, noise pollution etc, this Tribunal has dealt with the issues and finding huge gaps in compliances, issued directions, which include following:

I. Waste Management:

- **Bio-medical waste:** O.A. No. 710/2017, Shailesh Singh v. Sheela Hospital & Trauma Centre, Shahjahanpur & Ors., Order dated 18.01.2021.
- **Legacy waste:** O. A. No. 519/2019, News item published in "The Times of India" Authored by Jasjeev Gandhiok & Paras Singh Titled "Below mountains of trash lie poison lakes", Order dated 29.01.2021.
- **Hazardous waste:** O.A. No. 804/2017, Rajiv Narayan & Anr. v. UOI & Ors., Order dated 29.01.2021.
- **Solid Waste Management:** O.A. No. 606/2018, Compliance of Municipal Solid Waste Management Rules, 2016 and other environmental issues, Orders dated 22.07.2019, 28.02.2020 and 14.12.2020.

- **E-waste:** O.A. No. 512/2018, Shailesh Singh v. State of UP & Ors., Order dated 15.01.2021.
 - **Plastic waste:** EA No. 13/2019, Central Pollution Control Board v. State of Andaman & Nicobar & Ors., Order dated 08.01.2021.
- II. **Rainwater harvesting:** O.A. No. 496/2016, Tribunal on its own motion v. GNCD & Ors., Order dated 22.01.2021.
 - III. **Water bodies restoration:** O.A. No. 325/2015, Lt. Col. Sarvadaman Singh Oberoi v. UOI & Ors., Order dated 18.11.2020.
 - IV. **Management of Carcasses:** O.A. No. 465/2019, Kulwinder Singh Sandhu & Ors. v. Ram Murti & Ors., Order dated 15.04.2021.
 - V. **Management of Dairies:** Original Application No. 46/2018, Nugehalli Jayasimha v. Government of NCT of Delhi, Order dated 08.10.2020.
 - VI. **Environmental compliance - Brick kilns:** Original Application No. 1016/2019, Utkarsh Panwar v. Central Pollution Control Board & Ors., Order dated 17.02.2021.
 - VII. **Sustainable Mining:** O.A. No. 360/2015, National Green Tribunal Bar Association v. Virender Singh (State of Gujarat), Order dated 26.02.2021.
 - VIII. **Management of Railway siding:** O.A. No. 141/2014, Saloni Singh & Anr. v. UOI & Ors., Order dated 16.03.2021.
 - IX. **Categorisation for effective monitoring - Red, Orange, Green:** OA 639/2018, Shailesh Singh v. State of Haryana & Ors., Order dated 23.03.2021.
 - X. **Air pollution control in Non-Attainment Cities:** OA 681/2018, In Re: News item published in "The Times of India" Authored by Shri Vishwa Mohan Titled "NCAP with multiple timelines to clean air in 102 cities to be released around August 15", Order dated 08.04.2021.
 - XI. **Water Pollution control by preventing discharge of untreated sewage/effluents:** OA 593/2017, Paryavaran Suraksha Samiti & Anr. v. Union of India & Ors. and OA 148/2016, Mahesh Chandra Saxena v. South Delhi Municipal Corporation & Ors., Orders dated 21.09.2020 and 22.02.2021.
 - XII. **Ground Water Regulation:** OA No. 176/2015, Shailesh Singh v. Hotel Holiday Regency, Moradabad & Ors., Order dated 20.07.2020.
 - XIII. **Remedying Polluted Industrial Clusters:** OA No. 1038/2018, News item published in "The Asian Age" Authored by Sanjay Kaw Titled "CPCB to rank industrial units on pollution levels", Order dated 14.11.2019.
 - XIV. **Restoring Pollution of River Stretches:** OA No. 673/2018, In Re: News item published in "The Hindu" authored by Shri Jacob Koshy, titled "More river stretches are now critically polluted: CPCB", Orders dated 21.09.2020 and 22.02.2021.
 - XV. **Controlling Coastal Pollution:** OA No. 829/2019, Lt. Col. Sarvadaman Singh Oberoi v. Union of India & Ors., Orders dated 21.09.2020 and 22.02.2021.
 - XVI. **Regulating Pollution by restaurants/hotels/motels/banquets:** OA No. 400/2017, Westend Green Farms Society v. Union of India & Ors., Order dated 04.02.2021.
 - XVII. **Preventing Industrial Accidents by safety norms and providing relief to victims:** (i) OA No. 85/2020, Aryavart Foundation through its President vs. Yashyashvi Rasayan Pvt.

Ltd. & Anr., Order dated 03.02.2021 (ii) OA No. 60/2021, In re: News item published in The Hindu dated 23.02.2021 titled "Two dead, 5 missing in fire at UPL Plant", Order dated 11.06.2021 (iii) OA No. 134/2021, In re: News item published in The Hindustan Times dated 17.06.2021, titled "Blast in firecracker unit in Maharashtra's Palghar, at least 10 injured", Order dated 25.06.2021.

17. We may mention that several issues have been directed to be monitored by this Tribunal by the Hon'ble Supreme Court such as ensuring installation of requisite treatment equipments – STPs, ETPs, CETPs, to prevent discharge of untreated sewage/trade effluents in water bodies¹⁵, solid waste management¹⁶, remedying the pollution of river Yamuna¹⁷ and river Ganga¹⁸. There are also various other issues which are being dealt with by this Tribunal to give effect to the directions of the Hon'ble Supreme Court. Tackling of challenges presented by these issues requires action plans and monitoring of execution at every level. DEPs, taking cognizance of all such issues, should result in holistic steps to address the problem in the interest of health of citizens. We may mention by way of illustration particulars of some of the orders relevant for the purpose (can be accessed on the NGT website):

Sl. No.	Date of Order	OA/EA/Appeal No. and Party Name	Issue dealt
1.	18.01.2021	O.A. No. 710/2017, Shailesh Singh v. Sheela Hospital & Trauma Centre, Shahjahanpur & Ors.	Bio-medical waste
2.	29.01.2021	O.A. No. 804/2017, Rajiv Narayan & Anr. v. UOI & Ors.	Hazardous waste
3.	22.07.2019, 28.02.2020 and 14.12.2020	O.A. No. 606/2018, Compliance of Municipal Solid Waste Management Rules, 2016 and other environmental issues,	Solid Waste Management
4.	15.01.2021	O.A. No. 512/2018, Shailesh Singh v. State of UP & Ors.	E-waste
5.	08.01.2021	EA No. 13/2019, Central Pollution Control Board v. State of Andaman & Nicobar & Ors.	Plastic waste
6.	18.11.2020	O.A. No. 325/2015, Lt. Col. Sarvadaman Singh Oberoi v. UOI & Ors.	Water bodies restoration
7.	26.02.2021	O.A. No. 360/2015, National Green Tribunal Bar Association v. Virender Singh (State of Gujarat)	Sustainable Mining
8.	08.04.2021	OA 681/2018, In Re: News item published in "The Times of India" Authored by Shri Vishwa Mohan Titled "NCAP with multiple timelines to clean air in 102 cities to be released around August 15"	Air pollution control in Non-Attainment Cities
9.	21.09.2020 and 22.02.2021	OA 593/2017, Paryavaran Suraksha Samiti & Anr. v. Union of India & Ors. and OA 148/2016, Mahesh Chandra Saxena	Water Pollution control by preventing discharge of

¹⁵ Paryavaran Suraksha Samiti & Anr. v. Union of India & Ors. - (2017) 5 SCC 326

¹⁶ Order dated 02.09.2014, in W.P. No. 888/1996, Almitra H. Patel vs. Union of India & Ors.

¹⁷ O.A. No. 06/2012, Manoj Mishra v. UOI & Ors.

¹⁸ O.A. No. 200/2014, M.C. Mehta v. UOI & Ors.

		<i>v. South Delhi Municipal Corporation & Ors.</i>	untreated sewage /effluents
10	20.07.2020	<i>OA No. 176/2015, Shailesh Singh v. Hotel Holiday Regency, Moradabad & Ors.</i>	Ground Water Regulation
11	21.09.2020 and 22.02.2021	<i>OA No. 673/2018, In Re: News item published in "The Hindu" authored by Shri Jacob Koshy, titled "More river stretches are now critically polluted: CPCB"</i>	Restoration of the Polluted River Stretches
12	11.06.2021	<i>OA No. 60/2021, In re: News item published in The Hindu dated 23.02.2021 titled "Two dead, 5 missing in fire at UPL Plant"</i>	Preventing Industrial Accidents by safety norms and providing relief to victims
13	25.06.2021	<i>OA No. 134/2021, In re: News item published in The Hindustan Times dated 17.06.2021, titled "Blast in firecracker unit in Maharashtra's Palghar, at least 10 injured"</i>	

18. **We may also note that this Tribunal discussed the above aspects with 35 Chief Secretaries of all States/UTs, in their personal presence and issued directions to handle serious violations of law and failure of the administrative authorities, requiring continuous monitoring by District Magistrates at District level and by Chief Secretaries at State level, with the assistance of fulltime environment cells, to assist in coordination with different departments and to provide technical inputs to address the gaps and governance deficits on the subject. It is not necessary to repeat the directions already issued except to say that satisfactory steps remain to be taken. Wherever DEPs have not been prepared, the same need to be expedited and wherever they have been prepared the same need to be continuously updated and compliance monitored.**

19. **Since the above is a continuous process, it is for the concerned Governments to take initiatives. However, having regard to the significance of the subject, we are of the opinion that further monitoring will be necessary by this Tribunal in the light of compliance status which may be provided on the next date.**

20. **We are unhappy to note that all the States/UTs have not taken the matter as seriously as the subject requires. We hope that the Chief Secretaries of all the States/UTs will provide due attention to the subject in the larger public interest and in the interest of health, safety of the citizens and rule of law to effectuate basis fundamental rights of the citizens.**

21. **Accordingly, in view of long-time failure to comply the mandate of the Constitution adversely affecting the public health and the environment and repeated failures to comply with the earlier directions on the subject, we direct**

a. Chief Secretaries of all the States/UTs may ensure completion of District Environment Plans (DEPs) for all the Districts, in the light of orders of this Tribunal dated 26.9.2019, 19.3.2020. 29.1.2021 and the observations in

the present order and upload the same on their respective websites positively by 31.10.2021.

b. The DEPs may contain data on each environmental issue covering each city, town and village. Data may show the extent of gap in compliance of laid down norms for

i. Waste Management - Municipal Solid, Plastic, Bio-Medical, Electric and Electronic, Hazardous and Construction and Demolition waste

ii. Sewage treatment and utilisation

iii. Water quality – Rivers, Water bodies, Ground Water, Coastal waters and Rain water harvesting,

iv. Industries Pollution Control including industrial clusters

v. Air Quality management includes pollution due to dust

vi. Regulating mining/ Sand mining

vii. Noise pollution

viii. Any other issues significant in the area

ix. The DEP must give timelines for accomplishment of tasks backed up with budgetary support and the officers entrusted with the job, with contact details of the nodal officer at various levels in the District

x. Scope for public participation on remedial measures like plantations

c. DEPs may also contain mechanism for review at different levels.

d. The District Magistrates may accordingly execute the action plans by reviewing the progress on various targets at least once in a month.

e. All the States may accordingly consolidate the DEPs and prepare their respective State Environment Plans and upload the same on their respective websites.

f. CPCB may consolidate the information and file a tabular statement by 30.11.2021 by e-mail at judicial-ngt@gov.in preferably in the form of searchable PDF/OCR Support PDF (and not in the form of Image PDF)."

4. Vide last order dated 08.02.2022, the Tribunal considered following reports:-

1. Report dated 12.01.2022 filed by the CPCB with additional information filed on 07.02.2022.
 2. Report dated 26.11.2021 filed by the Monitoring Committee headed by Justice Jasbir Singh in the State of Punjab, constituted by this Tribunal to oversee compliance of certain directions by this Tribunal.
 3. Report dated 23.11.2021 filed by the Monitoring Committee headed by Justice Pritam Pal in the State of Haryana, constituted by this Tribunal to oversee compliance of certain directions by this Tribunal.
 4. Report dated 03.12.2021 filed by the Oversight Committee headed by Justice S.V.S. Rathore constituted by this Tribunal to oversee compliance of certain directions by this Tribunal.
 5. Report dated 01.02.2022 filed by the Oversight Committee headed by Justice S.P. Garg constituted by this Tribunal to oversee compliance of certain directions by this Tribunal.
5. It is not necessary to reproduce the above reports which stand extensively reproduced in order dated 08.02.2022. The Tribunal noted the templates of and objectives of the plans as follows:-

“

8. *The templates of the plans shows the issues incorporated are as follows:-*

“1.0 District Profile

- a. *District Administrative Set-up*
- b. *Local institutions*
- c. *Natural Resources*
 - *Water bodies*
 - *Availability of water resources*
 - *Forest coverage*
- d. *Geography & Demography*
- e. *Land-use patter*
- f. *Climate*

2.0 Indicative Gap Analysis and Action Plans for complying with Waste Management Rules 16

- (i) *Solid Waste Management*
 - a. *Current status related to solid Waste management*
 - b. *Identification of gaps and Action plan*
 - (ii) *Plastic waste Management*
 - a. *Current status related to Plastic waste management*
 - b. *Identification of gaps and Action plan*
 - (iii) *C & D Waste Management*
 - a. *Current status related to C & D Waste*
 - b. *Identification of gaps and Action plan*
 - (iv) *Biomedical Waste Management*
 - a. *Current Status related to biomedical waste*
 - b. *Identification of gaps and Action plan*
 - (v) *Hazardous Waste Management*
 - a. *Current Status related to Hazardous Waste Management*
 - b. *Identification of gaps and action plan*
 - (vi) *E-Waste Management*
 - a. *Current Status related to E-Waste Management*
 - b. *Identification of gaps and action plan*
- 3.0 *Air Quality Management*
Current Status related to Air Quality Management
Identification of gaps and action plan
- 4.0 *Water Quality Management*
- 4.1 *Water Quality Monitoring*
 - a. *Current Status related to Water Quality Management*
 - b. *Identification of gaps and action plan for water quality monitoring*
- 4.2 *Domestic Sewage*
 - a. *Identification of gaps and action plan for treatment of domestic sewage*
 - b. *Identification of gaps and action plan for treatment of domestic sewage*
- 5.0 *Industrial wastewater management*
 - a. *Current Status related to Industrial Wastewater Management*
 - b. *Identification of gaps and action plan for industrial wastewater:*
- 6.0 *Mining Activity Management plan*
 - a. *Current Status related to Mining Activity Management*
 - b. *Identification of gaps and action plan*
- 7.0 *Noise Pollution Management plan*
 - a. *Current Status related to Noise Pollution Management*
 - b. *Identification of gaps and action plan*
- 8.0 *Plantation Management Plan”*

9. Objectives in the plan are:-

- “1. To ensure conservation of environment and natural resources at district level.
2. Restore ecological balance.
3. To achieve Sustainable Development Goals and District Level Targets within 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 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 stakeholders, department, agencies, organizations and individuals at district level to understand and implement micro level environmental conservation.
10. To harness inter departmental coordination for implementation of action plans.
11. To develop local knowledge centres and expertise for developing environmental conservation strategies at district level.
12. To develop and implement micro monitoring system at district level.”

6. After considering the reports of monitoring Committee of some of the States, where such committees have been setup- Punjab, Haryana, Delhi and U.P, including, interacting with learned counsel for CPCB, the Tribunal observed as follows:-

“Consideration and further Directions

18. We have interacted with the representatives of CPCB and other learned counsel present during the hearing. We are of the view that recommendations made by the Monitoring/Oversight Committees headed by Hon’ble former Judges and the representative of deficiencies in respect of other DEPs which needs to be acted upon by all the States/UTs subject to any grievance being raised before the Tribunal, in case of any difficulty. Data needs to be updated as per ground situation. In respect of Districts/States plans have not yet been prepared, the same needs to be done forthwith so that based on such plans, National plan can be prepared which may go a long way in protection and management of environment for achieving goals of Sustainable Development. The plans so prepared need to be periodically revised and updated preferably as on 31st March for every year and executed in respect of all concerned thematic areas. Compliance needs to be monitored at District Level, State Level and National Level in the light of

gaps identified. To give impetus to compliance, in addition of having regular monthly meetings of the District Level Committees, it may be necessary to hold an annual conference to be presided over by the District Magistrates with the involvement of Educational Institutions, Welfare Associations, Local Bodies including Panchayats, Eco-clubs, other concerned Departments and activist identified by the District Administration and nominees of District Legal Services Authorities. The State PCBs/Environment Departments needs to coordinate the same. MoEF&CC/CPCB also needs to oversee and guide such exercise through their respective Regional Offices. Targets achieved and set need to be published and best practices experimented and adopted need to be mentioned. Apart from the thematic areas already specified any other thematic area relating to the goals of environmentally sustainable development can also be added. Contribution of any individual/organization can be appropriately acknowledged. To begin with, such annual conferences may be held atleast in one District in every State, to be identified by the Environment Department of States/UTs, with intimation to the CPCB before 30.06.2022. CPCB may compile relevant data of further progress in the matter in light of above observations and file a consolidated progress report as on 31.08.2022 by 15.09.2022 by e-mail at judicial-ngt@gov.in preferably in the form of searchable PDF/OCR Support PDF and not in the form of Image PDF.

19. *We request the Oversight/Monitoring Committees whose term may be expiring or may have expired to continue till submission of final report as on 31.08.2022 so that compliance of such plans can be ascertained for some time. The Oversight Committees may in their progress reports also mention the compliance status and further recommendations for effective execution of such plans so as to bridge the gap in compliance of environmental norms in respect of various thematic areas.”*

7. In pursuance of above, we have received reports from the monitoring Committees constituted by the Tribunal for Punjab, Haryana and U.P., apart from report of CPCB dated 10.10.2022 to which reference may be briefly made.

Report of Punjab Monitoring Committee dated 21.12.2022

8. The Committee has mentioned its deliberations on the subject and interaction with the authorities about contents of the report and challenges in compliance of norms in the Districts dealt with. The Committee has reached its conclusions and made recommendations as follows:-

“9.0 Overall conclusions and recommendations

Based on the discussion held with District Level Officers of various districts of the State of Punjab by the Monitoring Committee, visit of various sites by officers of Punjab Pollution Control Board and seen online through Whatsapp by the Chairman of the Monitoring Committee and physical verification made by the Monitoring Committee, the following conclusions and recommendations are made:

9.1 Solid Waste Management

- 1) *As per the data prepared by the Department, 84% source segregation of solid waste has been achieved by all the Municipal Councils of the State, whereas, as per discussion held with the District Level Officers of various districts of the State by the Monitoring Committee, it has been observed that almost all Municipal Councils/ corporations of various districts have achieved 55-100% source segregation of solid waste. **Also, as per the reports submitted by the officers of the Punjab Pollution Control Board, who were deputed to visit various sites of the solid waste management, there was poor source segregation of solid waste or negligible source segregation of solid waste. Source segregation of solid waste is a prime activity for managing solid waste through various other activities. The situation was too alarming and miserable. On the request of the officers of the Municipal Corporations/ Councils of various Local Bodies of districts of the State, the timeline to achieve 100% source segregation by MCs was extended to 31.12.2022 and it was asked to mention the said timelines in the revised District Environment Plans.***

Therefore, the Monitoring Committee recommends that all Municipal Corporations/Councils of various districts of the State may achieve 100% source segregation of solid waste by 31.12.2022.

- 2) *The data submitted by the Department indicate that 99% door to door collection of solid waste has been achieved by MCs, whereas, during the meetings held with the District Level Officers of various districts of State of Punjab, it was observed by the Monitoring Committee that for door to door collection and transportation of solid waste to the solid waste management sites, some of the Municipal Corporations/ Councils have inadequate compartmentalized vehicles for door to door collection of solid waste and GPS enabled vehicles deployed for transportation of solid waste were also inadequate. On the request made by the officers*

of various Municipal Corporations/ Councils, the timelines for the same have been extended and it was requested to mention the revised timeline in the revised District Environment Plans.

The data further indicate that most of the Municipal Corporations/ Councils have not provided additional compartment with each door to door solid waste collecting vehicle for collection of domestic hazardous waste and no additional compartment has been provided at MRF site of each MC for temporary storage of domestic hazardous waste.

The Monitoring Committee recommends as under:

- a) All the Municipal Corporations/Councils/GLADA /GMADA/JDA/BDA/ PDA or any other development/ authority may provide adequate number of compartmentalized vehicles for door to door collection of solid waste and GPS enabled compartmentalized vehicles for transportation of solid waste to the solid waste management sites by 31.8.2022/30.9.2022/31.12.2022.**
- b) All MCs may provide additional compartment with each door to door solid waste collecting vehicle for separate collection of domestic hazardous waste by 30.09.2022 / 31.12.2022 and separate compartment at MRF site of each MC may be provided for separate collection of domestic hazardous waste by 30.09.2022 / 31.12.2022. All MCs may make agreement with common hazardous waste treatment disposal facility or common bio medical waste management facility by 30.09.2022 / 31.12.2022.**
- 3) *In the report/data submitted by the department, it has been mentioned that 8233 aerobic compost pits have been provided against the requirement of 8386 compost pits, which is 98% of the total compost pits to be provided by the various MCs. Further, the data mentioned in the District Environment Plans indicates that most of the MCs/ corporations have provided adequate number of compost pits for treatment of wet waste but during the monitoring carried out by PPCB and seen online through Whatsapp by the Chairman of the Monitoring Committee and also physically verified by the Monitoring Committee, it was observed that either most of the compost pits provided by MCs were empty or some were filled with mixed waste or dry waste. In some compost pits, wild grass was found grown and some compost pits were found broken. Therefore, overall condition of the compost pits was miserable.*

On the request of the Municipal Corporations/ Councils, the timeline for providing adequate number of compost pits for treatment of wet waste was extended to 30.9.2022/31.12.2022 and it was asked to mention the said timeline in the revised District Environment Plans.

The Monitoring Committee recommends as under:

- i) All Municipal Corporations/ Councils and other departments may provide adequate number of compost pits for treatment of wet waste by 30.9.2022/31.12.2022.**
 - ii) The wild grass grown in the compost pits may be removed immediately by all the MCs, wherever, such irregularities have been observed and these compost pits may be utilized in scientific manner and it shall be ensured by all MCs and other departments that these compost pits may be utilized entirely for treatment of wet waste and no other waste may be disposed of into these compost pits.**
 - iii) Compost pits provided by MCs, which have been broken, may be repaired immediately.**
 - iv) All Municipal Corporations / Councils may issue necessary directions to the Bulk Waste Generators of Solid Waste existing in their area to provide compost pits of adequate capacity of manage wet waste on their own by 31.03.2023. For management of dry waste, these bulk waste generators may be directed to make agreement with concerned MC with suitable user charges to be paid to MC by Bulk Waste Generators by 31.12.2022.**
- 4) *In the report of the Department, it has been mentioned that 266 MRFs (87.2% MRFs) have been provided against the requirement of 305 MRFs. In the District Environment Plans of various Districts of the State, it has been mentioned that most of MCs and other departments have provided adequate number of Material Recovery Facilities but during the visit made by the officers of Punjab Pollution Control Board and seen online through Whatsapp by the Chairman of the Monitoring Committee and physically verified by the Monitoring Committee on random basis, it was observed that some of the Material Recovery Facilities were either lying empty or containing mixed waste. During the meeting with the District Level Officers of various districts of the State, on the request of the Municipal Corporations/ Councils and other Departments, timeline for providing adequate number of MRFs has been extended to 30.09.2022/ 31.12.2022 and*

it was requested to mention the said timeline in the revised District Environment Plans.

Therefore, the Monitoring Committee recommends that all Municipal Corporations/ Councils and other departments may provide adequate number of Material Recovery Facilities (MRFs) for treatment of dry waste by 30.09.2022/31.12.2022 and these MRFs may be utilized for management of dry waste and no mixed solid waste may be disposed of into these MRFs. Segregated dry waste like waste paper, card board, waste plastic, wooden pieces, iron pieces, glass or any other useful material may be sold/disposed off to the authorized recycler/processor in a time bound manner.

- 5) Out of total 135 Sanitary Landfill sites to be provided by various MCs for disposal of inert and non-recyclable solid waste, 35 sanitary landfill sites have been provided by some of the MCs. During the meeting held with the District Level officers of various Districts of the State, it was observed that some of the Municipal Corporations/ Councils have identified land for development of sanitary landfill sites and some have developed said sites and some of the MCs even haven't identified suitable sites for development of sanitary landfill site. On the request of the Municipal Corporations/ Councils and Officers of the other departments concerning to the matter, the timeline for constructing sanitary landfill sites scientifically was extended to 30.09.2022/ 31.12.2022 and it was requested to mention the said timeline in the revised District Environment Plans.

The Monitoring Committee recommends that all Municipal Corporations/ Councils and other departments of various districts of State, may identify suitable site for sanitary landfill and same may be developed/ constructed scientifically by 30.09.2022/31.12.2022/31.1.2023.

- 6) Regarding remediation of legacy waste, it was observed that during the visit by officers of the PPCB and seen online through Whatsapp by the Chairman of the Monitoring Committee, there was no or negligible remediation of legacy waste and some of the legacy waste dump sites are located on the bank of water bodies. At some legacy waste dump sites, animals were found eating solid waste and at some places of legacy waste dump sites, fire incidents were observed. At same places, solid waste was found dumped underground and concerned MCs (Ludhiana, Batala, Jagraon, Haryana and Ferozepur) were directed to extract the said solid waste and may be remediated in a time bound manner. Further, the data submitted by the Department indicate that out of total 152 legacy waste dump sites,

remediation of legacy waste has been completed in 32 ULBs and process of remediation of said waste has been initiated in 120 ULBs.

On the request of the Municipal Corporations/ Councils of various districts and other officers present in the district level meetings held with the District Level Officers of various districts of the State, the timeline for remediation of legacy waste was extended to 30.9.2022/31.12.2022 and it was directed to mention the said timeline in the revised District Environment Plans.

The Monitoring Committee recommends as under:

- i) All the Municipal Corporations/ Councils of various districts of the State, may remediate 100% legacy waste by 30.9.2022/31.12.2022/ 31.3.2023. MCs Jalandhar and Ludhiana may remediate 100% legacy waste by 31.3.2023 and 30.4.2024, respectively.**

- ii) All MCs may maintain proper record mentioning the quantity of legacy waste remediated and quantity of fractions like bio-soil, RDF, C&D waste & inert waste produced after remediation of legacy waste and scientific disposal of each of fraction may be maintained.**

- iii) PPCB may submit its report regarding remediation of solid waste found dumped underground by MCs Ludhiana, Batala, Jagraon, Haryana and Ferozpur within 15 days.**

9.2 Plastic Waste Management

- 1) During the discussion held with the District Level Officers of various districts of State, it was submitted that 100% door to door collection of dry waste including plastic waste has been achieved by all MCs except MC Ludhiana and Jalandhar. The site visits made by the officers of the Punjab Pollution Control Board indicate that wet waste, dry waste including plastic waste is collected from door to door in 100% of the area of the Municipal Corporations/ Councils except MC Ludhiana and Jalandhar.

The Monitoring Committee recommends as under:

- i) All the Municipal Corporations/ Councils may continue to collect dry waste including plastic waste from door to door in 100% of their area.**
- ii) MCs Ludhiana and Jalandhar may achieve 100% door to door collection of dry waste including plastic waste by 30.9.2022/31.12.2022.**

- 2) *For collection of plastic waste at plastic waste collection centers, it has been mentioned that material recovery facilities have been provided by each MC. It was directed as under.*

All the Municipal Councils/ Corporations may provide dedicated plastic waste collection centers at Material Recovery Facility sites entirely for the collection of plastic waste by 30.6.2022/30.9.2022.

- 3) **All the Municipal Councils/ Corporations and other departments of various districts of the State may ensure that adequate number of waste pickers/workers and GPS enabled compartmentalized vehicles are deployed for collection and transportation of dry waste including plastic waste to the material recovery facility sites.**
- 4) *For scientific disposal of plastic waste, there is need to identify plastic waste recycling/ processing facilities existing within or outside State and Municipal Councils of various districts of the State may make agreement with the authorized plastic waste recycling/processing facilities and thereafter, the plastic waste collected at plastic waste collection centers may be sent to the said facilities.*

The Monitoring Committee has already recommended that all Municipal Corporations/ Councils and other departments may identify authorized plastic waste recycling/ processing facilities within or outside State by 30.09.2022 and agreement with these authorized agencies may be made by all MCs by 31.10.2022 and plastic waste collected at plastic waste collection centers may be started sending to the authorized plastic waste recycling/ processing facilities by 30.11.2022. Further, these MCs may also adopt some other mechanism for useful usage of plastic waste like construction of roads, waste to energy plant etc. in a time bound manner.

9.3 C&D Waste Management

For setting up of processing facility for management of C&D waste, it has been mentioned in the report of the department that out of 163 ULBs, C&D waste processing facilities are required to be provided in case of 142 ULBs, out of which, such facilities have been provided in 140 ULBs. In 139 ULBs micro units have been provided. In Jalandhar 60 TPD C&D waste processing plant has been commissioned and 100 TPD capacity processing plants for C&D waste have been proposed each in MC Ludhiana and Amritsar. It is mentioned here that during the meetings held with District Level officers

of various Districts of the State, the Monitoring Committee observed that some of the Municipal Councils/ Corporations of various districts of the State have identified suitable sites for collection/ deposition of C&D waste, whereas, other MCs are yet to identify suitable sites for collection/ deposition of C&D waste for management of said waste.

Therefore, the Monitoring Committee recommends as under:

- i. All the Municipal Corporations/Councils, which have not identified suitable sites for collection/ deposition of C&D waste for its management, may identify the same at the earliest. Municipal Corporations of the State may provide C&D waste processing plants to make C&D waste usable for useful usage like paving blocks, tiles, use in lower layer of roads, other rural roads etc. by 31.12.2022/31.3.2023.***
- ii. Municipal Councils of various districts of the State may provide appropriate machinery for making C&D waste usable for various usage as per requirement in the area by 31.12.2022.***
- iii. Municipal Councils/ Corporations may fix user fee for collection and transportation of C&D waste from residential houses and commercial complexes to the C&D waste deposition sites at the earliest.***
- iv. Municipal Corporations Ludhiana and Amritsar have proposed to install C&D waste recycling facilities each of capacity 100 TPD and these recycling/processing facilities may be set up by 31.10.2023.***

9.4 Bio Medical Waste Management

The Monitoring Committee recommends as under.

- 1) Punjab Pollution Control Board shall ensure that all the health care facilities existing in each district are identified and their inventory may be made ready for monitoring of each HCFs by PPCB in a time bound manner.*
- 2) Punjab Pollution Control Board shall ensure that all the Health Care Facilities (HCFs) have valid authorization under the Bio-medical Waste Management Rules, 2016 and these have made proper agreement with the Common Bio Medical Waste Treatment Facilities for management of bio medical waste.*
- 3) In order to ensure the effective disposal of bio medical waste, bar code system may be adopted by all the Health Care Facilities of all the districts by 31.12.2022. Punjab Pollution Control Board may check routes of the vehicles, deployed by Common Bio Medical Waste Treatment Facilities for collection of biomedical waste*

from various HCFs and its transportation to common biomedical waste treatment facilities.

- 4) *All the Health Care Facilities of various districts of the State may provide wastewater treatment plant to treat chemical based liquid effluent and sewage generated by the Health Care Facilities by 31.12.2022.*

9.5 Hazardous Waste Management

The following recommendations are made by the Monitoring Committee:

- 1) *Punjab Pollution Control Board shall ensure that all the hazardous waste generating industries are identified and all such industries may have valid authorization under the Hazardous Waste Management Rules, 2016 by 31.12.2022 and shall ensure that all these industries have made proper agreement with the Hazardous Waste Disposal Facilities set up in the State for collection and treatment of hazardous waste generated by the industries.*
- 2) *Regarding training to the workers involved in handling/ recycling/ disposal of hazardous waste, Punjab Pollution Control Board may mention the information with regard to number of workers to whom training was imparted in the last 3 months for scientific disposal of hazardous waste by the industries and TSDF. Further planning and its frequency to provide trainings to the workers on the said issue by the common hazardous waste management facility operator and the industries may also be mentioned in the revised District Environment Plans. Also, the trainings w.r.t safety of workers during handling, recycling and disposal of hazardous waste may be imparted on quarterly basis and PPEs may be provided to the workers by the common hazardous waste disposal facility and the industries from time to time and the same may also be mentioned in the revised District Environment Plans.*

9.6 E-Waste Management

The recommendations made by the Monitoring Committee are as under:

- 1) ***Punjab Pollution Control Board and Municipal Councils/ Corporations of the districts may complete inventory of e-waste generators/ bulk waste generators for e-waste at the earliest.***
- 2) ***E-waste collection centers within MC area may be provided by all the Municipal Councils/ Corporations in consultation with PPCB by 31.12.2022. MCs may evolve mechanism to incentivize the public to encourage them to deposit e-waste at e-waste collection centers.***

- 3) **All the stakeholders/ Municipal Councils/ Corporations may identify authorized recycler/ dismantler/ processor of e-waste existing within the State or outside at the earliest and agreement may be made by stakeholders/ MCs with the authorized agency (recycler/ dismantler/ processor of e-waste) accordingly and stakeholders/ Municipal Councils/ Corporations may start sending e-waste collected at e-waste collection points to the authorized agency by 31.12.2022.**
- 4) **Punjab Pollution Control Board and Municipal Councils may jointly identify illegal e-waste recycling/ dismantling facilities and informal sectors dealing with e-waste at the earliest and these illegal e-waste recyclers/ informal sectors may be regulated to bring them into main stream with regard to management of e-waste by 31.12.2022.**

9.7 Air Quality Management

During the meeting held with the District Level Officers of various districts of the State, the Monitoring Committee was informed that all the air pollution sources existing in the district have been identified and necessary pollution control measures have been taken to control air pollution from various sources of air pollution. Manual Ambient Air Quality Monitoring Stations have been installed in 20 districts including 01 continuous ambient air quality monitoring station each in four districts. In the remaining 3 districts namely Kapurthala, Moga and Tarn Taran, no ambient air quality monitoring stations have been set up. Air quality monitoring data is available on Punjab Pollution Control Board & CPCB websites. In major industrial towns like Ludhiana, Jalandhar, Amritsar, SAS Nagar, Ropar, Dera Bassi and Mandi Gobindgarh there is need to provide/ increase the number of Continuous Ambient Air Quality Monitoring Stations (CAAQMS). In non-attainment cities, district level action plans need to be prepared. Therefore, the Monitoring Committee recommends as under:

- 1) **Punjab Pollution Control Board shall ensure that all the air polluting industries/ sources of air pollution may have provided with adequate air pollution control systems to control air pollution from these sources.**
- 2) **The ambient air quality data ascertained from manual as well as continuous ambient air quality monitoring stations may be made available in public domain and may also be displayed at prominent places of the towns of the districts to make the public aware about the ambient air quality and AQI of the town.**

- 3) ***Punjab Pollution Control Board may install new/additional Continuous Ambient Air Quality Monitoring Stations (CAAQMS) in the major industrial towns of the State to get the real time data of the town by 30.06.2023.***
- 4) ***District level action plan may be prepared for all the non-attainment cities/ towns at the earliest and the same may be monitored at District as well as State level.***
- 5) ***Crop residue burning is one of the major source of air pollution in the State. Punjab Pollution Control Board may enhance the monitoring mechanism and take legal remedy to control burning of crop residue during harvesting season. Department of Agriculture may encourage the farmers to provide agriculture machinery of modern technology for in-situ remediation to stop burning of crop residue. For ex-situ management, biomass based power plants, ethanol manufacturing plants, other crop residue using industrial plant and other technologies under the guidance of CPCB may be set up in a time bound manner to ensure zero burning of crop residue in the harvesting season in the State.***
- 6) ***All the concerned departments like PWD (B&R), MCs, DDPOs, Forest Department and PSIEC may provide plantation of suitable variety along highways, within MC areas/drains/Nallahs, industrial zones, ponds, legacy waste dump sites and vacant places in the upcoming season.***
- 7) ***All berms of the roads and deep holes in the roads may be made pucca/repared by PWD (B&R) and MCs by 31.12.2022.***

9.8 Water Quality Management

The directions/recommendations w.r.t Water Quality Management are mentioned as under:

- i. ***The Monitoring Committee during the meeting held with the District Level Officers of various districts has observed that in some districts, inventory of water bodies is yet to be prepared and on the request of the Department of Irrigation and Rural Development & Panchayats, the timeline for the same was extended to 30.9.2022. The Monitoring Committee recommends that inventory of water bodies may be completed at the earliest.***
- ii. ***Regarding rejuvenation of ground water, all the MCs and departments in various districts of the State have been directed to comply with order dated 1.6.2022 in OA no. 325 of 2015 in the matter of Lt. Col. Sarvadaman Singh Oberoi Vs Union of India, wherein, it has been directed that harvesting of surplus water during excessive rains***

from any area of catchment may be optimized by enhancing the capacity of existing ponds/water bodies and setting up of additional water bodies/water harvesting structures wherever viable and creation of at least one pond/water bodies in every village to recharge ground water.

- iii. All MCs shall ensure the compliance of the condition mentioned in the approval letter while approving the building plans of houses having an area more than 250 Sq. Yard and commercial projects regarding providing the rainwater harvesting systems in all houses/commercial projects in a time bound manner.***
- iv. MCs/ District Administration of all districts shall start providing rain water harvesting system by utilizing the large roof area of the Govt. buildings/institutions by 31.12.2022 and rain water harvesting structures may be provided to inject roof rain water underground to recharge ground water.***
- v. Regarding installation of Sewage Treatment Plants in various towns/cities of the State, 133 STPs of capacity 1836 MLD have been installed, 52 STPs of capacity 567.45 MLD are under construction and the same shall be completed by 31.12.2022. 32 STPs of capacity 69.9 MLD are at tendering stage and 26 STPs of capacity 97.5 MLD are at DPR stage. These STPs shall be completed by 31.12.2023.***

The Monitoring Committee recommends that all the STPs, which are under construction, shall be completed by 31.12.2022 and the STPs which are at tendering stage as well as at DRP stage, shall be completed by 31.12.2023.

- vi. 14 in-situ bio remediation technology systems are in operation and 11 such systems are under construction.***

The Monitoring Committee recommends that in-situ bio remediation technology systems may be completed by 31.3.2023.

- vii. The status of CETPs installed for treatment of industrial effluent is mentioned as under:***

Sr. No.	Name of CETPs	Compliance status
1	0.5 MLD for electro-plating units, Ludhiana	compliant
2	0.5 MLD for leather complex, Jalandhar	compliant
3	0.035 MLD for vegetable tanning, Malerkotla	compliant
4	15 MLD for Bahadur-ke-road dyeing industries, Ludhiana	Non-compliant
5	40 MLD for Textile dyeing of Focal Point, Ludhiana	Non-compliant
6	50 MLD for Textile dyeing of Tajpur road, Ludhiana	Non-compliant

The Monitoring Committee recommends that Punjab Pollution Control Board shall monitor the performance of all the CETPs as mentioned above on quarterly basis and necessary directions may be issued to the CETP operators to make all the CETPs compliant at all the times.

- viii. For treatment of animal dung generated by dairy complex at Tajpur road, Ludhiana, there is proposal to install bio CBG plant of capacity 6.4 TPD at Tajpur road to handle 300 TPD animal dung. The project is likely to be completed by 30.11.2024.**
- ix. For management of animal dung generated by Dairy Complex, Haibowal, Ludhiana, a biogas power plant of capacity 1 MW utilizing 180 TPD animal dung is in operation and the said plant is operating at 85 % of its capacity.**
- x. For installation of ETPs for treatment of wastewater generated by dairy complex, Tajpur road, Ludhiana and Haibowal Dairy Complex, Haibowal, Ludhiana, 02 STPs of capacity 2.25 MLD (Tajpur road, Dairy Complex) and 3.75 MLD (Haibowal Dairy Complex) are under construction and the same shall be completed by 30.6.2023.**
- xi. For setting up of biogas plant and effluent treatment plant for Jamsheer Dairy Complex, Jalandhar, Municipal Corporation, Jalandhar has mentioned that PEDDA has retendered the project for setting up of CBG plant of capacity of 12000 m³ on BoO basis. The work has been allotted in October, 2020 and the plant is likely to be completed by 30.6.2024. Further, for setting up of 2.25 MLD ETP, work has been started and Effluent Treatment Plant may be completed by 30.6.2023.**

xii. Out of total 15466 rural ponds, 540 ponds have been rejuvenated and 568 ponds are under progress. Similarly, out of 249 urban ponds, 51 ponds have been rejuvenated and work is in progress in case of 46 urban ponds.

The Monitoring Committee recommends that all the rural ponds may be rejuvenated by 31.3.2025 in phased manner and urban ponds may be rejuvenated by 31.12.2023.

xiii. In the data submitted by the Department of Soil & Water Conservation w.r.t laying of irrigation network to utilize treated sewage for irrigation, it has been mentioned as under:

- For utilization of treated sewage of 57 STPs of capacity 305 MLD in command area of 8327 hectares, irrigation network has been completed.**
- The work of laying of irrigation network for utilization of treated sewage of 7 STPs of capacity 114 MLD in command area of 4015 hectares is under progress and the same shall be completed by 31.3.2023.**
- For utilization of 378.5 MLD treated sewage of 30 STPs in command area of 13397 hectares, irrigation projects have been sanctioned and these shall be completed by 30.9.2023.**
- In case of 12 STPs of capacity 1013 MLD mainly of Ludhiana, Jalandhar and Amritsar, irrigation schemes are not feasible due to thick populated area or non-availability of command area for utilization of treated sewage of the said towns for irrigation.**
- The Department of Soil and Water Conservation shall prepare irrigation schemes for utilization of treated sewage of the towns, whose STPs are under progress or at DPR stage may be prepared by 31.3.2023 and these may be implemented simultaneously with the commissioning of the STPs.**

The Monitoring Committee recommends as under:

- i) Treated sewage of 57 STPs of capacity 305 MLD may be continued to utilize for irrigation in a command area of 8327 hectares.**
- ii) The work of laying of irrigation network for utilization of treated sewage of 7 STPs of capacity 114 MLD in command area of 4015 hectares, may be completed by 31.3.2023.**

- iii) **For utilization of 378.5 MLD treated sewage of 30 STPs in command area of 13397 hectares, irrigation network may be completed by 30.9.2023.**
- iv) **For utilization of treated wastewater of STPs of Ludhiana, Jalandhar and Amritsar with total capacity 1013 MLD, irrigation schemes for each town may be prepared by 28.02.2023 and irrigation network for utilization of treated sewage of these towns may be completed by 30.09.2023.**
- v) **The Department of Soil and Water Conservation may prepare irrigation schemes for utilization of treated sewage of the towns, whose STPs are under progress or at DPR stage by 31.3.2023 and these may be implemented simultaneously with the commissioning of the STPs.**

9.9 Industrial Wastewater Management

The Monitoring Committee recommends as under:

- i. **Punjab Pollution Control Board shall monitor the compliance of provisions of Water Act, 1974 by all the water polluting industries twice in a year and action against the violating industries may be taken under the provisions of said Act.**
- ii. **OCEMS in all the industries falling under 17 categories of industries and other industries as per CPCB guidelines may be installed by 31.12.2022.**
- iii. **Regarding installation of Electromagnetic Flow Meter (EMF) at inlet and outlet of ETPs of the industries, the Monitoring Committee has observed that most of the industries have installed Electromagnetic Flow Meters at outlet of ETPs and the industries are yet to install EMFs at inlet of ETPs. Therefore, the Monitoring Committee recommends that PPCB may issue necessary directions to all the water polluting industries to install EMFs at inlet and outlet of ETPs by 31.12.2022.**

9.10 Mining Activity Management

The Monitoring Committee observed that out of total 23 districts of the State, mining activities exist in 12 districts and the Department of Irrigation has informed that surprise inspections of mining sites are carried out by the department to check the compliance of the conditions as mentioned in Mining Plan, Environment Management Plans and Environmental Clearance granted by SEIAA, Punjab/MoEF.

The Monitoring Committee recommends that Department of Irrigation may monitor the compliance of the directions issued by the Hon'ble National Green Tribunal in its order dated 26.2.2021 in OA no. 360 of 2015 in the matter of National Green Tribunal Bar Association Vs Virender Singh

(State of Gujarat), conditions imposed in Mining Plan, Environment Management Plans and Environmental Clearance granted by SEIAA, Punjab/MoEF and action against the defaulting mining lease holders may be taken as per the directions given by Hon'ble National Green Tribunal in the said order in a time bound manner.

9.11 Noise pollution management

Punjab Pollution Control Board informed that 01 noise level meter is available with each of its Regional Office and presently, noise level meters are available in all the 17 Regional Offices of the Board. The department of Police informed that no noise level meters are available with any of its office.

The Monitoring Committee recommends as under.

- 1. Punjab Pollution Control Board may procure at least 01 noise level meter for each district of the State by 31.12.2022. These noise level meters may be made available with each Regional Office of the Board for monitoring the ambient noise level in noise zones and salience/sensitive zones or for addressing any complaint w.r.t noise pollution in any area.***
- 2. The Department of Police may procure adequate number of noise level meters in each district of the State by 31.12.2022 to monitor the noise level of the area, where the complaints are received regarding creation of noise by any activity in the area.***

9.12 Management of waste in rural areas of the State: Compliance of order dated 8.2.2022 in OA no. 360 of 2018 in the matter of Shree Nath Sharma Vs Union of India & Ors.

The Monitoring Committee has observed that in most of the districts of the State, no progress report and action plan has been prepared for waste management (Solid Waste Management, Plastic Waste Management, C&D Waste Management, E-Waste Management), Water Quality Management, Sewage Management and Noise Pollution Management of villages of various districts by the District Development and Panchayat Officers.

Therefore, the Monitoring Committee recommends that District Development and Panchayat Officer of each district may mention the progress made and prepare scheme/proposal for management of all the activities covering all the major activities like solid waste management, plastic waste management, C&D waste management, e-waste management, water quality

management, sewage management and noise pollution management by 31.10.2022/31.12.2022 and the same may be mentioned in the revised District Environment Plans of the various districts of the State. These schemes may also be implemented in phased manner.

9.13 Other Environmental issues in the districts and compliance thereof

9.13.1 EPR of producers: Linkage with producers/ brand owners for management of plastic waste.

As per District Environment Plans and discussion held with the District Level Officers of various districts of the State of Punjab, the Monitoring Committee has observed that most of the Municipal Councils/ Corporations have not identified the producers/ brand owners and extended producer responsibility of these brand owners has not been fixed.

Monitoring Committee recommends that all MCs may identify producers/ brand owners, plastic waste processing facilities existing within or outside state by the earliest. These brand owners/ producers may be pursued to make agreement with plastic waste processing facilities for processing of plastic waste and plastic waste may be started sending by MCs/brand owners to the authorized plastic waste processing facilities by 31.12.2022.

9.13.2 Provision of green belt and boundary wall around the legacy waste dump sites.

The Monitoring Committee has observed that most of the MCs have not provided boundary wall and green belt around the legacy waste dump sites. Some MCs have provided green belt and boundary wall in some part of the dump sites.

The Monitoring Committee recommends that all MCs may provide green belt and boundary wall around the legacy waste dump sites before 31.12.2022.

9.13.3 Treatment of leachate generated from legacy waste dump site.

Legacy waste dump sites exist in MCs area from the last many years, which have resulted into generation of leachate from the dumping of solid waste permanently at one place. The leachate collected at solid waste dumping site may become the source of groundwater contamination. Therefore, the treatment of leachate generated from legacy waste dump site is quite imperative due to presence of high organic load (BOD and COD) and toxic pollutants

in the leachate. It may seep underground and contaminate the ground water.

Therefore, the Monitoring Committee recommends that all MCs may install Effluent Treatment Plants for treatment of leachate generated at legacy waste dump site of each MC by 31.12.2022.

9.13.4 Carcass should be utilized by adopting rendering process or incineration and priority may be given to carcass utilization plants.

It has been observed by the Monitoring Committee that in all the District Environment Plans, short term measures for management of carcass disposal sites like boundary wall, green belt/ plantation/ hedges have been proposed to be provided within the certain time frame but most of the MCs/ village Panchayats have not taken short term measures for management of carcass disposal sites. For installation of rendering plant or incinerator at Municipal Corporation level or district level, proposals need to be prepared by the Department of Local Government/ District Administration.

Therefore, the Monitoring Committee recommends as under:

- i. For management of carcass disposal sites, short term measures like boundary wall and green belt/ plantation/ hedges may be provided by all MCs/ Village Panchayats before 31.12.2022.***
- ii. To take care of all the animal carcass of all the towns and villages of various districts, the Deputy Commissioner of the concerned district may hold meeting with Executive Officers of all MCs, Punjab Pollution Control Board, DDPO and other concerned departments at the earliest and a proposal for installation of rendering plant or incinerator at district level may be prepared and modern carcass utilization plant may be setup at district level by 30.06.2023/ 31.12.2023.***

9.13.5 Management of Wastewater and Solid Waste by the unauthorized colonies/ residential complexes/ commercial complexes developed by private colonizers.

It has been observed that number of illegal/ unauthorized colonies/ residential complexes/ commercial complexes have been developed by private colonizers and these unauthorized colonies have been left by the colonizers without providing sewerage network, Sewage Treatment Plants for treatment of

domestic effluent and solid waste management plants (compost pits and Material Recovery Facilities). Therefore, these unauthorized complexes have become the source of contamination of ground water/ soil/ unhealthy environment in the area due to discharge of untreated sewage and solid waste in the area.

Therefore, the Monitoring Committee recommends as under:

- i. MCs and DDPO of the district may get install individual STPs and sewerage network for treatment of wastewater discharged by the unauthorized colonies/commercial complexes located within MC area and outside MC area, respectively by 31.03.2023.**
- ii. For management of wet waste and dry waste generated by these unauthorized colonies/ residential complexes/ commercial complexes existing within MC area, MCs may direct these unauthorized complexes to make agreement with suitable user charges to be paid to the concerned MC by unauthorized colonies/commercial complexes for collection, transportation and treatment of wet waste and dry waste by 31.12.2022.**
- iii. For management of wet waste generated by these unauthorized colonies/ residential complexes/ commercial complexes existing outside MCs area, DDPO may direct these unauthorized complexes to provide adequate number of compost pits to manage wet waste in their premises by 31.12.2022.**
- iv. For management of dry waste, unauthorized colonies/ commercial complexes existing outside MC area, may make agreement with suitable user charges with concerned MC/Village Panchayats for collection, transportation and treatment of dry waste by 31.12.2022.**

9.13.6 Removal of Garbage Vulnerable Points

The Monitoring Committee has observed that though Municipal Councils/ Corporations have made efforts to remove garbage vulnerable points existing within MC area but number of garbage vulnerable points are still existing in the area.

Therefore, the Monitoring Committee recommends that all the Municipal Councils/ Corporations of various districts of the State may identify Garbage Vulnerable Points existing within MC area and these Garbage Vulnerable Points may be removed and the vacated places after removal of Garbage Vulnerable Points may be converted into useful usage like sitting places, parks, green areas, play grounds etc. by 31.12.2022.

9.13.7 Framing policy for management of highly contaminated faecal sludge generated from the rural area

The Monitoring Committee has observed that number of toilets have been constructed in the villages for the facilitation of the villagers to ensure the villages free from open defecation. There may be a problem of disposal of faecal sludge to be generated from the said facilities. Therefore, there is need to evolve technology/ frame policy for management of highly contaminated faecal sludge generated from rural area.

The Monitoring Committee recommends that the State Government may evolve technology/ frame policy for management of highly contaminated faecal sludge generated from rural area by 31.12.2022.

9.13.8 Waste transfer points/ secondary points

It has been observed that most of the Municipal Councils/ Corporations are maintaining waste transfer points/ secondary points to store the solid waste temporary at these points after collecting solid waste from door to door in congested areas till its final disposal to wet waste and dry waste management facilities. These waste transfer points/ secondary points create public nuisance and give ugly view to the public/ passerby. There is need to provide boundary wall and green belt/plantation around these waste transfer points/ secondary points or alternatively compartmentalized tractor trolleys on rotation basis may be stationed at these points to transfer the segregated wet and dry waste to the solid waste management sites.

The Monitoring Committee recommends that Municipal Councils/ Corporations may station compartmentalized tractor trolleys on rotation basis at waste transfer points/secondary points and wet and dry waste collected in these compartmentalized tractor trolleys may be transferred to compost pits and material recovery facilities, respectively, on rotation basis.

9.13.9 Stopping the entry of solid waste/ garbage into drains/ nallahs/ rivers

Solid waste/garbage flow into rivers through drains/ nallahs, may contaminate the water quality of the rivers. There is need to remove the solid waste lying dumped on the bank of drains/ nallahs or into these drains/ nallahs.

The Monitoring Committee recommends as under:

- i. All the MCs may remove solid waste lying dumped along drains/ nallahs passing within MC area on quarterly basis and the solid waste so collected may be sent to the solid waste management sites.**
- ii. Department of Rural Development and Panchayat and Department of Irrigation may remove solid waste lying dumped along drains/ nallahs existing outside MC area on quarterly basis and the solid waste so collected may be sent to the solid waste management sites.**
- iii. Screens/wire mesh may be installed by Municipal Councils/ DDPO at the inlet of the drains/ nallahs to retain the solid waste so as to restrict the entry of solid waste into rivers/ water bodies by 31.12.2022.**

9.13.10 Information, Education and Communication (IEC) activities and involvement of NGOs/ RWAs/ public participation

The Monitoring Committee has observed that the involvement of NGOs/RWAs to conduct IEC activities and bring awareness among the public about various activities to manage solid waste is quite imperative. The representatives of all the MCs assured in the meetings that NGO's existing in their area shall be identified and services of NGOs/RWAs shall be utilized to bring awareness among the public about management of solid waste.

The Monitoring Committee recommends that all MCs may identify NGOs/RWAs/SHGs existing in their area and these NGOs/RWAs/SHGs may be involved in various activities of solid waste management.

9.13.11 Setting up of real time water quality monitoring stations in drains/nallahs

Presently, treated/untreated sewage of most of the towns is discharged into drains/ nallahs and ultimately into river system and contaminating its water quality.

The Monitoring Committee recommends that Punjab Pollution Control Board may set up adequate number of real time water quality monitoring stations in all the drains/nallahs carrying treated/untreated sewage into river system by 30.6.2023.

9.13.12 Reduction in water utilization by the inhabitants of the towns/cities.

The Monitoring Committee observed that all the STPs are designed and installed on the basis of discharge of wastewater

generated on the consumption of water @ 135 lpcd. However, in most of the towns of the State, the water about 200-250 lpcd is supplied. The excess use of water by the inhabitants has made the STPs inadequate and most of the districts have become over exploited. Therefore, there is dire need to reduce the consumption of water by the inhabitants of the towns/cities. For this purpose, flow meters are required to be installed at the various locations on water supply network to ensure the restricted supply of water to the public or policy need to be framed for supplying restricted quantity of water to the inhabitants of the area.

The Monitoring Committee recommends that all MCs may install flow meters at the appropriate locations on water supply network to ensure the restricted supply of water @ 135 lpcd to the public by 31.12.2024 in phased manner. Also, the State Government may frame policy for supplying restricted quantity of water to the inhabitants of the various area. Metering system to measure the quantity of groundwater withdrawal may be set up by the individuals to ensure the restricted withdrawal of groundwater @ 135 lpcd.

In the case of industries, minimum withdrawal of groundwater as per requirement may be made. For excess use of groundwater by the industries, heavy water cess may be imposed on the concerned industry.

9.13.13 Usage of treated wastewater of STPs of the State for landscaping, flushing, firefighting, construction activities, gardening, Industrial Estates, Automobile establishments, washing of vehicles, railway yards and sprinkling purposes during sweeping of roads.

It has been observed that there is lot of scope for use of treated wastewater of STPs for various activities such as landscaping, flushing, firefighting, construction activities, gardening, Industrial Estates, Automobile establishments, washing of vehicles, railway yards and sprinkling purposes during sweeping of roads.

The Monitoring Committee recommends that the treated wastewater of STPs, conforming to the prescribed standards, may be utilized for landscaping, flushing, firefighting, construction activities, gardening, Industrial Estates, automobile establishments, washing of vehicles, railway yards and sprinkling purposes during sweeping of roads and no fresh water may be allowed to use for the said activities.

9.14 Other conclusions and recommendations

- i) **Most of the Municipal Councils/Corporations and other concerned departments could not complete the various activities w.r.t. each thematic area within the timelines as mentioned in the District Environment Plans. Therefore, based on the requests made by the Municipal Councils/Corporations/ other concerned departments, timeline to complete the various activities in the case of some of the MCs was extended up to 30.6.2022/31.8.2022, whereas, in case of other MCs, the timeline was extended upto 30.9.2022/31.12.2022 and in two Municipal Councils/ Corporations (MC Ludhiana and Jalandhar), the timeline was extended upto 31.3.2023. As such, in the overall conclusions and recommendations part of the final report, as mentioned in para no. 9.0 and its subsequent sub-paras 9.1 to 9.13, the recommendations for completing the various activities have been mentioned as 30.6.2022/31.8.2022/30.9.2022/ 31.12.2022 /31.3.2023/ 30.6.2023.**
- ii) **The State Government may fix the accountability of officers, who have failed to deliver results despite the availability of physical and financial resources.**
- iii) **The Monitoring Committee is submitting its final report based on the discussion held with District Level Officers of various districts of the State of Punjab w.r.t. various activities as mentioned in the District Environment Plans of various districts, data/information collected from various departments and site visits made by the Monitoring Committee. It is mentioned here that after the order dated 8.2.2022 in OA no. 360 of 2018 in the matter of Shree Nath Sharma Vs Union of India & Ors, the Monitoring Committee started the monitoring of execution of District Environment Plan of each district through online process, site visits and physical meetings with District Level Officers of each district and observed that the concerned authorities were lacking in completing the activities under various thematic areas well in time as mentioned in each District Environment Plan.”**

Report of Haryana Monitoring Committee dated 20.12.2022

9. The report is almost on the same pattern which mentions the deliberations it had with the authorities of the State and challenges and shortcomings in compliance of norms with reference to different thematic

areas. The conclusions and recommendations of the Committee are as follows:-

“9.0 CONCLUSIONS AND RECOMMENDATIONS

9.1. Overall progress w.r.t. management of solid waste and sewage in the State of Haryana

9.1.1 De-centralized approach - Door to door collection, source segregation and treatment of solid waste

State of Haryana has 89 ULBs and 1639 wards. The data submitted by Local Bodies Department, Haryana indicate that 98.8% door to door collection and 70.2% source segregation of solid waste have been achieved in all the wards of the State. The total quantity of solid waste generated by 89 ULBs is 5540 TPD, out of which 3570 TPD is collected and 64.4% is processed through various solid waste management systems. For door to door collection of solid waste, 4005 vehicles have been provided, out of which 3300 vehicles have compartments and 3120 vehicles have GPS system. 851 GVPs have been identified. Also, 1103 BWGs have been identified, out of which 117 BWGs are processing their wet waste on their own. For management of 1877 TPD wet waste, 1674 compost pits have been provided by 59 MCs. For management of 1693 TPD dry waste, 88 MRFs have been provided by 60 Municipal Councils. Mechanized solid waste management projects have been set up in MCs namely Karnal, Sirsa and Rohtak of capacity 150 TPD (waste to compost + RDF plant), 50 TPD (waste to compost + RDF plant), and 175 TPD (waste to compost + RDF plant), respectively.

9.1.2 Centralized or cluster approach for solid waste management

*As centralized approach for management of solid waste, 13 clusters (**Annexure-3**) have been formed with open technology (waste to compost, waste to energy, RDF, Bio-methanation and any other suitable technology). Cluster-wise implementation of the projects involves single agency for door to door collection, storage, transportation, processing, treatment and scientific disposal for 22 years of concession period. Presently, out of these 13 clusters, 01 waste to energy plant of capacity 700 TPD with generation of 08 KW electricity has been established in Sonipat since 16.8.2021. Gurugram-Faridabad cluster, based on waste to energy plant of capacity 2100 TPD with generation of 15 MW electricity, is likely to be started on ground by 31.12.2022. The remaining 11 clusters (Bhiwani, Sirsa, Karnal-Kaithal-Thanesar, Ambala-Yamunanagar, Panchkula, Rohtak-Bahadurgarh-Jhajjar, Jind, Rewari, Hisar-Fatehabad, Punhana, Faruknagar) are under tendering stage.*

9.1.3 Status of remediation of legacy waste lying at 76 sites in 89 ULBs

The data submitted by the Department indicate that out of total 101 lakh MT legacy waste lying dumped at 76 sites of 89 ULBs, about 39 lakh MT (38.6%) has been remediated and 62 lakh MT (61.4%) of legacy waste is yet to be remediated. 10 ULBs (Loharu, Siwani, Farukhnagar, Pataudi, Gharaunda, Indri, Nilokheri, Nissing, Taraori and Palwal) have remediated 100% legacy waste, which has been quantified as 1.08 lakh MT. Out of 89 ULBs, most of quantity of legacy waste is lying dumped in 38 ULBs, which has been quantified as 89.5 lakh MT, out of which about 39 lakh MT legacy waste has been remediated and the land recovered after the remediation of legacy waste has been measured as 53.25 acres.

The Monitoring Committee recommends as under.

- i) 10 MCs have remediated 100% legacy waste.**
- ii) 78 MCs may remediate 100% legacy waste lying dumped at 65 sites by 31.12.2022.**
- iii) 01 MC Gurugram shall remediate 100% legacy waste, which is 30 Lakh MT, in a time bound manner.**
- iv) Fractions (byproducts) namely bio-soil, inert waste, C&D waste and RDF produced after remediation of legacy waste may be disposed of in an environmentally sound manner.**

9.1.4 Status of remediation of legacy waste, leachate management and waste to energy plant at Bandhwari site (Gurugram)

9.1.4.1 Legacy waste remediation

Total quantity of legacy waste lying dumped at legacy waste dump site at Bandhwari site of MC Gurugram (MCG) and Municipal Corporation Faridabad (MCF) is 33 lakh MT, out of which 10.5 lakh MT has been remediated up to 31.10.2022 and 7.5 lakh MT fresh waste has been dumped by Municipal Corporation Gurugram and Faridabad. As such, presently, 30 lakh MT of legacy waste is lying dumped at Bandhwari site. MCG and MCF are generating fresh waste as 1200 TPD and 1000 TPD solid waste, respectively.

Presently, works have been allotted to process legacy waste of 13 lakh MT at Bandhwari site to M/s PATHYA and Bhoomi Green and these are in progress. 04 tenders of each of capacity 02 lakh MT to process the legacy waste in each work have been received and are under technical evaluation. These works are likely to be allotted by 31.12.2022. However, 02 trommel machines of capacity 4000 TPD each are in-operation but these are working with capacity of 3000 TPD and 1500 TPD due to space constraint. MCG has also hired machinery to process 02 lakh MT legacy waste departmentally. The

major challenge in speedy processing of waste is non-availability of sufficient space at Bandhwari site.

In the meeting held under Chairmanship of Chairman Haryana State Pollution Control Board in OA No. 172 of 2021 in the matter of Poonam Yadav Vs M/s Eco Green on 1.12.2022, it has been directed as under:

- i) Work to process atleast 20 lakh MT legacy waste should be allotted by MCG by 31.12.2022.
- ii) Commissioner, MCG will explore the possibility of storage of RDF and other fractions at alternative sites for which process to obtain requisite permissions for 92 acres land at Gothra Mohabatabad should be expedited.
- iii) MCG shall re-claim sufficient space to erect 02 more processing plants by 31.1.2023
- iv) Efforts should be made to achieve 9000-10000 TPD legacy waste processing by 31.12.2022 and up to 12000 TPD by 31.1.2023.

Presently, out of 30 lakh MT of legacy waste lying dumped at Bandhwari site, Gurugram, 02 lakh MT legacy waste has been remediated up to 15.12.2022. Further, in order to process fresh waste, land measuring 05 acres in village Basai has been taken by MC Gurugram on lease from GMDA.

The Monitoring Committee recommends that the decisions taken by the Chairman, Haryana State Pollution Control Board in OA No. 172 of 2021 in the matter of Poonam Yadav Vs Eco Green may be implemented within the timeframe as mentioned above.

9.1.4.2 Leachate management

At Bandhwari legacy waste dump site, 400 KLD leachate is treated by 02 Disc tube reverse osmosis (DTRO) plants each of capacity 200 KLD. The present treatment capacity of leachate is just sufficient for daily generation of leachate but additional capacity is required to deal with the leachate in rainy season and to treat legacy leachate. In the meeting under the Chairmanship of Chairman, Haryana State Pollution Control Board held on 1.12.2022 in OA No. 172 of 2021, it has been decided that 02 DTROs each of capacity 200 KLD may be procured and made operational from environment compensation funds by 31.3.2023 and leachate generated from the legacy waste shall be treated/dispose off by 28.2.2023.

The Monitoring Committee recommends as under:

- i) The leachate generated from legacy waste dump site at Bandhwari site may be treated scientifically by 28.2.2023 as decided by Chairman, Haryana State Pollution Control Board in the meeting held on 1.12.2022 in OA No. 172 of 2021.**
- ii) The residue generated after treatment of leachate through DTROs may be disposed of at common hazardous waste**

disposal site, Pali by 28.2.2023. Till then, it may be stored in impervious tank to avoid any leakage/seepage.

9.1.4.3 Status of waste to energy plant of capacity 15 MW at Gurugram

Waste to energy plant of capacity 15 MW has been proposed to be set up by utilizing RDF as fuel, which is based on grate technology with natural circulation drum type water tube. The incineration system consists of feeding system, grate system, incinerator system, flue gas cleaning, ash handling system and safety equipment. Each incineration line is equipped with an independent hydraulic system.

For the installation of waste to energy plant of capacity 15 MW at legacy waste dump site, Gurugram, 10 acres of land has been handed over to M/s Eco Green for construction of said plant. Environment clearance under EIA notification dated 14.9.2006 has been granted by MoEF on 1.11.2019 and CTE has been granted by Haryana State Pollution Control Board on 4.12.2019. Engineering, procurement and construction contractor (EPCC) has been finalized and construction work of waste to energy plant shall be started at ground by 31.12.2022.

The Monitoring Committee recommends that waste to energy plant of capacity 15 MW may be completed in a time bound manner.

9.1.5 Waste to energy plant of capacity 8 MW at Sonipat

Solid waste generated by MCs Panipat, Sonipat, Ganaur and Samalkha is collected and transported by M/s JBM Environment Pvt. Ltd. As per the record maintained by the agency, 1045136 MT of solid waste has been collected from said MCs for the period February, 2018 to Nov, 2022 and in the month of May, 2022 alone, 12909 MT of solid waste has been collected from said MCs. The solid waste in the dry form is utilized for generation of superheated steam from a boiler of capacity 50 TPH. The said agency is generating about 8 MW electricity. For disposal of inert and non-recyclable waste, sanitary land fill site has been constructed.

The Monitoring Committee recommends that JBM Environment Pvt. Ltd. may continue to remediate 100% solid waste of MCs Panipat, Sonipat, Ganaur and Samalkha. MCs may also ensure that no solid waste is dumped at any place and no garbage vulnerable point exists within their area.

9.1.6 About solid waste generated by MC Manesar (Gurugram)

The data submitted by the department indicate as under.

- i) About 156000 MT legacy waste was lifted from MC Manesar area and the same was processed at Bawal solid waste dumping site under the supervision of MC Rewari.
- ii) For remediation of legacy waste lying at HSIIDC areas, MC Manesar has floated tender and the selected bidder will be given 02 months time for processing of legacy waste.
- iii) For door to door collection of solid waste, the work has been started in July, 2022.
- iv) For processing of fresh waste, MC Manesar has installed 300 TPD trommel machine and 50 TPD Material Recovery Facilities with components as compost pits, shredder, mini trommel, inert pits, dry waste storage facility. In sector-8, IMT Manesar, Maruti has handed over about 10 TPD automatic material recovery facilities with composting machine.
- v) Bulk waste generators (BWGs) have been identified in MC Manesar area and awareness activities are being carried out by MC for processing of wet and dry waste by these BWGs.
- vi) MC Manesar has identified 22 rag pickers and is planning to integrate them in solid waste management chain.

The Monitoring Committee recommends that in compliance to order dated 20.7.2022 in OA no. 303 of 2022 in the matter of News item published in the Times of India dated 26.4.2022, MC Manesar may take immediate action regarding remedial action including action for treatment and processing of waste and preparation of crisis management plan, firefighting plan and other mitigation plan under the supervision of Deputy Commissioner, Gurugram and State PCB and report in this regard may be submitted to Haryana State Pollution Control Board.

9.1.7 Management of Construction & Demolition waste

The rapid growth of urbanization and development in Haryana has anticipated a proportionate rise in C&D waste and its un-scientific disposal may result in the C&D waste getting mixed with organic waste and other municipal solid waste. Therefore, for management of C&D waste, Government of Haryana has framed a policy on 23.11.2020 with a obligation on Urban Local Bodies to ensure collection, transportation, processing and disposal of C&D waste with a provision that Urban Local Bodies shall levy a user charge for the collection and transportation of C&D waste from all waste generators. Under the said policy, the Town and Country Planning

Department is bound to incorporate the site for such facilities in the approved land used plan.

As a part of implementation of the policy, Municipal Corporations, Gurugram and Faridabad have established C&D waste management plant, the details of which are mentioned as under.

9.1.7.1 Construction & Demolition waste management at Gurugram

The data submitted by the MC Gurugram indicate that about 800 TPD C&D waste is generated by MC Gurugram. The components of C&D waste are cement concrete, broken bricks, broken cement plaster, rubble, broken stone, soil/sand etc. For management of C&D waste by MC Gurugram, work was allotted to M/s ILFS Environmental Infrastructure and Service Ltd, in the year 2015 with a project cost of Rs. 12.5 crore. C&D waste management plant of capacity 1000 TPD has been set up at village Basai, Gurugram in an area of 04 acres. The plant is in-operation and end products are bricks, curbstone, paver blocks etc. As per record, C&D waste intake at plant is 7,58,741 TPA and 7,28,846 TPA C&D waste is processed. The sale of the recycled products is 5,87,936 TPA.

The photographs showing the machinery installed for processing of C&D waste and end products after processing of C&D waste are mentioned as per **Plates 33 to 36**.

9.1.7.2 Construction & Demolition waste management at Faridabad

Total C&D waste generated by MC Faridabad is 150-200 TPD and work order for setting up of C&D waste management plant of capacity 300 TPD was awarded to M/s Raw 2 Road on PPP mode and plant has been set up at village Riwazpur over an area of 8 acres and the same is in-operation. The end products from the said plant are bricks, curbstone, paver blocks etc.

9.1.8 Decentralized approach for management of solid waste and other activities as mentioned under 07 thematic areas in the District Environment Plans of various districts of State of Haryana

The Monitoring Committee has held its detailed discussion w.r.t. District Environment Plans of various districts of the State of Haryana with District Level Officers of various districts and has also made field visits to the solid waste management sites in various MC areas and activity-wise conclusions and recommendations are made as under:

9.1.8.1 Solid Waste Management

a) Source segregation of solid waste

As per the information provided by the Urban Local Bodies department, 70% source segregation of solid waste has been achieved by MCs of the State. The Monitoring Committee during its meetings with the District Level officers of various Districts of the State, has observed that out of total 22 districts, about 100% source segregation of solid waste has been achieved in 08 districts, 80-90% source segregation of solid waste in 04 districts and in the remaining 10 districts source segregation is less than 80%. On the request of the Officers of the Municipal Corporations/ Councils of various Local Bodies of districts of the State, timeline to achieve 100% source segregation of solid waste by MCs has been extended to 30.6.2022/ 30.9.2022/ 31.12.2022 and it was directed to mention the said timeline in the revised District Environment Plans.

The Monitoring Committee recommends that all Municipal Corporations/ Councils/HSIIDC of various districts of the State may achieve 100% source segregation of Solid Waste by 30.9.2022/ 31.12.2022.

b) Collection and transportation of solid waste to the solid waste management sites

For door to door collection and transportation of solid waste to the solid waste management sites, some of the Municipal Corporations/ Councils have inadequate compartmentalized vehicles for door to door collection of solid waste and GPS enabled compartmentalized vehicles deployed by some of the MCs for transportation of solid waste are also inadequate.

MCs of various districts of the State requested the Monitoring Committee to extend the timelines for providing adequate number of compartmentalized vehicles for door to door collection and GPS enabled compartmentalized vehicles for transportation of solid waste to the solid waste management sites by 30.9.2022/ 31.12.2022. On the request made by the officers of Municipal Corporations/ Councils, the timelines for the same have been extended to 30.9.2022/31.12.2022 and it was requested to mention said timelines in the revised District Environment Plans of various districts of the State.

The Monitoring Committee recommends that all the Municipal Corporations/ Councils/HSIIDC or any other development may provide adequate number of compartmentalized vehicles for door to door collection of solid waste and GPS enabled compartmentalized vehicles for transportation of solid waste to the solid waste management sites by

30.9.2022/ 31.12.2022 and said timelines be mentioned in the revised District Environment Plans of various districts of the State.

c) Identification of bulk waste generators and processing of wet and dry waste generated by them

The data mentioned in the District Environment Plans indicates that Municipal Councils/Municipal Corporations/HSIIDC have identified 1103 bulk waste generators, out of which 117 bulk waste generators have provided onsite compost pits for management of wet waste. For management of dry waste, no agreement has been made by the Bulk Waste Generators with MCs.

All the Municipal Councils/Corporations/other departments/ HSIIDC requested the Monitoring Committee that timeline for identification of more bulk waste generators, getting provide compost pits of adequate capacity by the identified bulk waste generators and making agreement by bulk waste generators with the concerned MC for management of dry waste may be extended to 30.6.2022/30.9.2022/31.12.2022.

The Monitoring Committee recommends that all MCs/HSIIDC/other departments may identify more bulk waste generators existing within MC area and other areas and get provide compost pits of adequate capacity for treatment of wet waste by 30.6.2022/30.9.2022/ 31.12.2022. These bulk waste generators may make agreement with concerned MC for management of dry waste by 30.6.2022/30.9.2022/31.12.2022 and said timeline may be mentioned in the revised District Environment Plans.

d) Processing of wet waste by ULBs

The data provided by the department Local Government indicated that for processing 1877 TPD wet waste generated by MCs, 1674 compost pits have been provided by 59 ULBs. However, during the discussion held with District Level officers of various districts of the State and perusal of the activity w.r.t. management of wet waste, it was observed that adequate number of compost pits have been provided by MCs only in 08 Districts and in the remaining 14 districts, inadequate compost pits are available for management of wet waste and mixed waste is disposed of on legacy waste dump sites. MCs requested that timeline for providing adequate

number of compost pits for management of wet waste may be extended to 30.6.2022/30.9.22/31.12.2022.

The Monitoring Committee recommends that all MCs/HSIIDC which have not provided adequate number of compost pits for management of wet waste, may provide the same by 30.6.2022/30.9.22/31.12.2022 and said timeline may be mentioned in the revised District Environment Plans.

e) **Management of dry waste**

In the data submitted by department of Local government, it has been mentioned that 88 MRFs have been provided by 60 ULBs, whereas, during the meeting held with District Level officers of various Districts of the State, the Monitoring Committee observed that adequate number of material recovery facilities (MRFs) for management of dry waste have been provided by MCs only in 9 districts. In the remaining 13 districts, inadequate MRFs have been provided for management of dry waste. MCs/departments requested the Monitoring Committee to extend the timeline for providing adequate number of material recovery facilities to manage dry waste by 30.6.2022/30.9.2022/31.12.2022.

The Monitoring Committee recommends that all MCs/other departments may provide adequate number of material recovery facilities for management of dry waste by 30.6.2022/30.9.2022/31.12.2022 and said timeline may be mentioned in the revised District Environment Plans.

f) **Disposal of inert and non recyclable solid waste**

For scientific disposal of inert and non-recyclable waste, 01 sanitary landfill site is available at Bandhwari site and 01 sanitary landfill site has been proposed to be constructed by MC Faridabad. No sanitary landfill sites have been identified by 20 districts. It was requested that timeline for identification of suitable site for development of sanitary land fill site may be extended to 30.6.2022/30.9.2022 and for construction/development of said site scientifically, timeline may be extended to 30.9.2022/31.12.2022/31.3.2023.

The Monitoring Committee recommends that all MCs/other departments of 21 districts may identify suitable sites for sanitary land fill sites by 30.6.2022/30.9.2022 and site may be developed / constructed scientifically for disposal of inert and

non-recyclable waste by 30.9.2022/ 31.12.2022/ 31.3.2023. It was further directed that said timelines may be mentioned in the revised District Environment Plans. Further, the sanitary landfill existing at Bandhwari site may be redeveloped/restructured scientifically by MC, Gurugram by 31.12.2022.

g) Treatment of legacy waste by MCs

Out of total 89 Urban Local Bodies of 22 districts of State of Haryana, legacy waste dump sites exist in 76 Urban Local Bodies and 101 lakh MT legacy waste is lying dumped at various dumping sites of Municipal Councils/Corporations. 100% legacy waste lying dumped at dumping sites of 10 MCs, has been remediated. About 39 lakh MT of legacy waste has been remediated by 38 MCs in which major quantity of legacy waste (89.5 Lakh MT) is lying dumped. About 62 lakh MT of legacy waste is yet to be remediated by MCs.

The Monitoring Committee recommends as under:

- i) All MCs may ensure that 100% legacy waste may be remediated by 31.12.2022.**
- ii) Legacy waste of MC Gurugram and Faridabad, which is about 30 lakh MT is lying dumped at Bandhwari site, may be remediated in a time bound manner.**
- iii) All MCs may maintain proper record regarding quantity of legacy waste remediated, quantity of byproducts namely Bio soil, inert waste, C&D waste and RDF produced during remediation of legacy waste and these byproducts may be disposed of scientifically in a time bound manner.**

9.1.8.2 Plastic Waste Management

a) Door to door collection of dry waste including plastic waste

In the District Environment Plans, it has been mentioned that 100% door to door collection of dry waste including plastic waste has been achieved by all MCs. During the meetings held with District Level officers of various districts of the State, the Monitoring Committee has observed that all MCs of various districts except MC Faridabad have achieved 100% door to door collection of dry waste including plastic waste. MC Faridabad has been directed to achieve 100% door to door collection of dry waste including plastic waste by 31.10.2022. Urban Local Bodies Department has mentioned that 100% door to door collection of solid waste has been achieved in 98.78% wards.

The Monitoring Committee recommends that all Municipal Corporations/ Councils may collect dry waste including plastic waste from door to door in 100% of wards of MCs by 31.12.2022. MC Faridabad may achieve 100% door to door collection of dry waste including plastic waste by 31.10.2022.

b) Material Recovery Facilities and plastic waste collection centers

The Monitoring Committee has observed that MCs in 13 districts are yet to provide adequate number of material recovery facilities for management of dry waste. Plastic waste collection centers for collection of plastic waste are also to be provided at these material recovery facilities.

The Monitoring Committee recommends that MCs in remaining 13 districts may provide adequate number of material recovery facilities by 30.6.2022/30.9.2022/ 31.12.2022. Plastic waste collection centers may also be earmarked/provided dedicatedly at material recovery facility sites of each MC and timelines for the same may be kept as 30.6.2022/30.9.22/ 31.12.2022.

c) Disposal of plastic waste in scientific manner

It has been observed that plastic waste has been collected by various MCs at material recovery facility sites. There is need to dispose of plastic waste in scientific manner. Some of the MCs have made agreement with cement plants/other agencies engaged in the processing of plastic waste.

The Monitoring Committee recommends that MCs of all the districts of the State may identify authorized plastic waste recycling/processing facilities within or outside State by 30.6.2022 and agreement may be made with these plastic waste processing facilities by 31.8.2022/ 30.9.2022 and plastic waste may be started sending to the authorized agencies by 31.10.2022/30.11.2022/31.12.2022.

The Monitoring Committee further recommends that all MCs of the State may deploy adequate number of waste pickers/workers and GPS enabled compartmentalized vehicles for collection and transportation of plastic waste to the plastic waste collection centers and the same may be mentioned in the revised District Environment Plans.

9.1.8.3 C&D Waste Management

For management of C&D waste, there is need to identify suitable sites for deposition of C&D waste and it may be further processed to make it recyclable to use it for useful usage. The data mentioned in the District Environment Plans and as per the discussion held with the District Level officers of various districts of the State, it has been observed that presently, most of the MCs have not developed C&D waste deposition sites and no machinery/plant has been set up for recycling of C&D waste except 01 C&D waste processing plant of capacity 1000 TPD is functional in Gurugram and 01 C&D waste processing plant at Faridabad. Some of the MCs have also not fixed user fee for collection and transportation of C&D waste generated by the individual houses/ residential complexes/ commercial projects.

The Monitoring Committee recommends as under:

- 1) All MCs in the remaining 20 districts may identify suitable sites for deposition of C&D waste by 30.6.2022/30.9.2022 and the sites may be developed scientifically for scientific disposal of C&D waste and appropriate machinery/C&D waste processing plants may be set up at C&D waste deposition sites by 31.12.2022 and recyclable C&D waste may started utilizing for useful usage by 31.1.2023.**
- 2) Municipal Councils/ Corporations may fix user fee for collection and transportation of C&D waste from residential houses and commercial complexes to the C&D waste deposition sites by 30.6.2022/30.9.2022.**

9.1.8.4 Bio Medical Waste Management

The Monitoring Committee recommends as under:

- 1. Haryana State Pollution Control Board may identify all health care facilities existing in each district by 31.08.2022 and inventory of the same may be completed by 30.09.2022.**
- 2. Haryana State Pollution Control Board shall ensure that all the health care facilities have valid authorization under the Bio-medical Waste Management, 2016 and these have made proper agreement with the Common Bio Medical Waste Treatment Facility for management of bio medical waste.**
- 3. In order to ensure effective disposal of bio medical waste, bar code system may be adopted by all the health care facilities of the districts by 31.12.2022.**
- 4. Haryana State Pollution Control Board may make surprise inspection of vehicles carrying bio-medical waste in different colour coded bins and co-relate the data w.r.t. quantity of bio-medical waste received and treated scientifically at common bio-medical waste treatment facilities and quantity of**

bio-medical waste collected from the health care facilities.

5. *All health care facilities of various districts of the State may provide wastewater treatment plants to treat chemical based liquid effluent and sewage generated by the Health Care Facilities by 31.12.2022.*

9.1.8.5 Hazardous Waste Management

The Monitoring Committee recommends as under:

- 1) *Punjab Pollution Control Board may identify all the hazardous waste generating industries by 31.08.2022 and inventory may be prepared by 30.9.2022 and HSPCB may issue necessary directions to such industries to get authorization under the Hazardous Waste Management Rules, 2016 by 31.10.2022 and shall ensure that all these industries have made proper agreement with the Hazardous Waste Disposal Facilities set up in the State for collection and treatment of hazardous waste generated by the industries.*
- 2) *Regarding training to the workers involved in handling/recycling/disposal of hazardous waste, HSPCB may mention the information with regard to number of workers to whom training was imparted in the last 3 months for scientific disposal of hazardous waste and further planning and its frequency to provide trainings to the workers on the said issue by the common hazardous waste management facility operator and the industries in the revised District Environment Plans. Also, the trainings w.r.t safety of workers during handling, recycling and disposal of hazardous waste may be imparted on quarterly basis and PPEs may be provided to the workers by the common hazardous waste disposal facility and the industries from time to time and the same may also be mentioned in the revised District Environment Plans.*

9.1.8.6 E-Waste Management

The recommendations made by the Monitoring Committee are as under.

- 1) *Haryana State Pollution Control Board and Municipal Councils/ Corporations of the districts may complete inventory of e-waste generators/ bulk waste generators of e-waste by 31.8.2022/30.09.2022.*
- 2) *E-waste collection points within MC area may be provided by all the Municipal Councils/ Corporations in consultation with HSPCB by 30.9.2022/31.12.2022. MCs may evolve mechanism to incentivize the public to encourage them to deposit e-waste at appropriate locations.*
- 3) *All the stakeholders/Municipal Councils/Corporations may identify authorized recycler/ dismantler/ processor of e-waste existing within the State or*

outside by 31.8.2022 and agreement may be made by stakeholders/ MCs with authorized agencies (recycler/ dismantler/ processor of e-waste) by 30.9.2022 and stakeholders/ Municipal Councils/ Corporations may start sending e-waste collected at e-waste collection points to the authorized agencies for its scientific disposal and usage by 31.10.2022.

- 4) Haryana State Pollution Control Board and Municipal Councils may jointly identify illegal e-waste recycling/ dismantling facilities and informal sectors dealing with e-waste by 31.10.2022 and these illegal e-waste recyclers/ informal sectors may be regulated to bring them into main stream with regard to management of e-waste by 30.11.2022.**

9.1.8.7 Air Quality Management

During the meetings held with the District Level Officers of various districts of the State and in the data as mentioned in the District Environment Plans, it was mentioned that all the air polluting industries in the districts have provided air pollution control measures. Stubble burning is one of the major factors and for this purpose, crop diversification is being made. Awareness among farmers for in-situ management of stubble burning with use of CRM machinery is created from time to time. There is need to make shoulders around the roads pucca so as to improve the existing quality of roads for control of dust emissions. It has also been mentioned that CNG stations are being set up to ensure the supply of cleaner fuel to control air pollution in the area. Besides, HSPCB has installed continuous ambient quality mentoring stations in all the 22 districts of the State and it has been observed that ambient air quality is non-conforming with National Ambient Air Quality Standards (NAAQS). District Level Action Plans to control air pollution in 06 districts have been prepared and in the remaining districts, these plans are under preparation.

The Monitoring Committee recommends as under:

- 1) HSPCB and other concerned departments shall ensure that all the air polluting industries/ sources of air pollution may have provided with adequate air pollution control system to control air pollution from these sources by 30.9.2022.**
- 2) The ambient air quality data obtained from manual as well as continuous ambient air quality monitoring stations may be made available in public domain and may also be displayed at prominent places of the towns of the districts to make the public aware about the ambient air quality and AQI of the towns.**
- 3) HSPCB may install more Continuous Ambient Air Quality Monitoring Stations (CAAQMS) in the major**

industrial towns of the State to get the real time data of the towns by 30.06.2023.

- 4) District level action plan for control of air pollution may be prepared for all the Districts of State of Haryana by 30.09.2022 and the activities mentioned in the said Plan may be monitored at District as well as State level.**
- 5) Crop residue burning is one of major source of air pollution in the State. The Dept. of Agriculture may encourage the farmers to provide adequate agriculture machinery with modern technology for in-situ management of paddy straw/wheat straw. For ex-situ management, biomass based power plants, ethanol manufacturing plants and other crop residue using industrial plants may be set up in a time bound manner to ensure zero stubble burning in the State in the harvesting seasons.**
- 6) All the concerned departments like PWD (B&R), MCs, DDPO, Forest department, HSIIDC and HSVP may provide plantation of suitable variety along highways, rural roads, MC areas, drains, nallahs, industrial zones, ponds, legacy waste dump sites and other vacant places to attenuate air pollution by 30.9.2022.**
- 7) PWD (B&R) and Municipal Corporations/Councils may provide stabilized/ pucca roads on the berms of the roads and deep holes in the roads may be repaired by 31.12.2022.**

9.1.8.8 Water Quality Management

The directions/recommendations made by the Monitoring Committee w.r.t water quality management are mentioned as under.

- i. Out of 22 districts, inventory of water bodies in 09 districts has been prepared. During the meetings with District Level officers of various districts of the State, the departments requested that inventory of water bodies mentioning the details of the drains, nallahs, rivers, canals, ponds, lakes etc. shall be completed by 31.8.2022/30.9.2022*

The Monitoring Committee recommends that inventory of water bodies in the remaining 13 districts of the State may be prepared by 30.9.2022 and said timeline may be mentioned in the revised District Environment Plan.

- ii. Regarding rejuvenation of ground water, all MCs and departments in various Districts of the State have been directed to comply with the order dated 1.6.2022 of Hon'ble National Green Tribunal in OA no. 325 of 2015 in the matter of Lt. Col. Sarvadaman Singh Oberoi Vs Union*

of India, wherein, it has been directed that harvesting surplus water during excessive rains from any area of catchment may be optimized by enhancing the capacity of existing ponds/water bodies and setting up of additional water bodies/water harvesting structures wherever viable and creation of atleast one pond/water body in every village to recharge the ground water.

The Monitoring Committee recommends that District Magistrate of concerned districts may ensure the compliance of the directions of the Hon'ble National Green Tribunal and concerned departments may be directed by the District Magistrates to enhance the capacity of existing ponds/water bodies and setting up of additional water bodies/water harvesting structures wherever viable and creation of atleast one pond/water bodies in every village to recharge the ground water by 30.9.2022.

- iii. It has been observed that while approving building plans of the houses having an area more than 250 Sq. yard and commercial projects, the conditions regarding providing the rainwater harvesting system in all houses/commercial projects are imposed. However, these conditions are not got complied by the concerned Municipal Councils/Corporations.

The Monitoring Committee recommends that all the houses having an area more than 250 Sq. Yard and commercial projects, whose building plans were approved up to 31.8.2022, may provide rain water harvesting structures within their premises by 31.3.2023 and said practice may be continued for the upcoming residential houses / commercial projects. For residential/commercial projects upcoming outside MC areas, the concerned development/authority may get adhere the condition of providing rain water harvesting structure in a time bound manner.

- iv. **MCs/District Administration may direct the concerned department to provide rain water harvesting system utilizing the large roof area of the Govt. buildings/institutions to recharge ground water by 31.12.2022.**

9.1.8.9 Status of sewage treatment plants

a)Sewage treatment plants in Gurugram area

Canal based water supply about 550 MLD and 70 MLD ground water is supplied to Gurugram area. For treatment of sewage

generated by MC Gurugram, 05 STP at two locations i.e Behrampur and Dhanwapur having total capacity as 338 MLD have been installed, out of which 03 STPs of capacity 50 MLD, 68 MLD and 50 MLD are achieving the stringent standards prescribed by Haryana State Pollution Control Board. The remaining 02 STPs of 100 MLD at Dhanwapur and 120 MLD at Behrampur are not achieving the stringent standards. Therefore, tertiary treatment plant of capacity 90 MLD at Behrampur and 75 MLD at Dhanwapur is under allotment with target date of completion as 31.12.2023. Presently, 117 MLD treated wastewater of STPs is utilized for horticulture purposes, textile industries, construction purposes, forestry purposes and irrigation purposes.

b) Sewage treatment plants for treatment of sewage of remaining towns of the State

Regarding treatment of sewage generated by the various towns of the State, 170 STPs of capacity 1985 MLD have been installed. 26 new STPs of capacity 467 MLD will be added in the treatment capacity and these will be completed by 31.3.2024. 10 STPs of capacity 369 MLD have been proposed and these shall be completed by 31.3.2024. 02 CETPs of capacity 13 MLD in Ghaggar catchment area and 02 CETPs of capacity 3 MLD in Yamuna catchment area are under construction and these shall be completed by 31.3.2023. 43 STPs of capacity 275 MLD are under upgradation and shall be completed by 31.1.2024.

The data submitted by the Department indicate that 182 MLD untreated wastewater from 166 locations is discharged into drains, out of which 131 MLD wastewater from 107 locations is discharged into sewerage system and 51 MLD untreated wastewater from 59 locations is yet to be diverted.

c) Micro sewage treatment plants and utilization of treated sewage

20 micro sewage treatment plants of capacity of 875 KLD have been installed in parks and green areas. The treated wastewater of these STPs is recycled for watering the plants in parks and horticulture nursery. There is saving of 875 KLD groundwater. Further, micro STPs of capacity 50 KLD at 12 sites, 25 KLD STPs at 06 sites and 100 KLD capacity STPs at 03 sites have been installed, out of which 50 KLD capacity STPs at 09 sites, 25 KLD capacity STPs at 03 sites and 100 KLD capacity STPs at 03 sites are in-operation and from all these 15 operational sites, 825 KLD treated wastewater is recycled. Thus, there is saving of groundwater of 825 KLD.

The Monitoring Committee recommends as under:

- a) HSPCB may monitor the performance of existing STPs twice in a year and it may be ensured that all the STPs may meet with the prescribed standards at all the times.**
- b) 26 New STPs of capacity 467 MLD, may be commissioned by 31.3.2024 and 10 STPs of capacity 369 MLD may be completed by 31.3.2024.**
- c) 2 CETPs of capacity 13 MLD in Ghaggar catchment area and 02 CETPs of capacity 3 MLD in Yamuna catchment area may be completed by 31.3.2023.**
- d) 43 STPs of capacity 276 MLD which are under upgradation may be completed by 31.1.2024.**
- e) The concerned departments may divert 51 MLD untreated wastewater from 59 locations to sewerage system leading to STPs by 31.12.2023.**
- f) Department of Panchayats and other concerned departments may install micro sewage treatment plants for other small localities/residential complex at the outskirts areas and treated wastewater of the STPs may be utilized for watering of gardens/ parks or washing of vehicles etc.**

9.1.8.10 Insitu remediation technology in the drains/nallahs carrying untreated wastewater

The Monitoring Committee has observed that in some of the towns, STPs of adequate capacity have not installed and untreated sewage is being discharged into drains/nallahs leading to river system and contaminating its water quality. MCs/PHED/HSVP have prepared proposal for installation of new STPs, enhancement of capacity of existing STPs and upgradation of existing STPs but these activities may take at least 1¹/₂ years for their completion and till then, untreated discharges of sewage may continue to pollute river system.

Therefore, the Monitoring Committee recommends that MCs/PHED/HSVP may provide in-situ bio remediation technology in the drains, carrying untreated wastewater not leading to STPs, by 31.3.2023.

9.1.8.11 Industrial Wastewater Management

The Monitoring Committee recommends as under:

- i. Haryana State Pollution Control Board may monitor the compliance of provisions of Water Act, 1974 of all the water polluting industries twice in a year and action against the defaulting industries may be taken under the provisions of said Act.**

- ii. All the industries falling under 17 category of industries and other industries as per the guidelines of the CPCB may install OCEMS to get real time data w.r.t quality of treated effluent by 31.12.2022.**
- iii. The Monitoring Committee has observed that almost all the industries have installed electromagnetic flow meters (EMFs) at outlet of effluent treatment plants (ETPs) and industries are yet to install EMFs at inlet of ETPs.**

The Monitoring Committee recommends that HSPCB may issue necessary directions to all the water polluting industries to install EMFs at inlet of ETPs of these industries by 31.12.2022 and incase any industry, which has not installed EMF even at the outlet of ETP, the same may also be provided by 31.12.2022.

9.1.8.12 Mining Activity Management

The Monitoring Committee has observed that out of total 22 Districts of the State, mining activity exists in 10 Districts. The department of Mining has informed that special enforcement teams and District Level Task Force, have been constituted and these teams are monitoring the mining activities to check the compliance of conditions mentioned in Mining Plan, Environment Management Plan, Environmental Clearance granted by MoEF/SEIAA, Haryana and consent to establish/ consent to operate granted under Water Act, 1974 and Air Act, 1981 by HSPCB on surprise basis.

The Monitoring Committee recommends that department of Mining, special enforcement teams and District Level Task Force may monitor the compliance of the various directions issued by the Hon'ble National Green Tribunal in its order dated 26.2.2021 in OA no. 360 of 2015 in the matter of National Green Tribunal Bar Association Vs Virender Singh (State of Gujarat), conditions imposed in Mining Plan, Environment Management Plan and Environmental Clearance granted by SEIAA Haryana/MoEF atleast twice in year.

9.1.8.13 Noise Pollution Management

Out of total 22 districts of State of Haryana, noise level meters have been provided in 17 districts by Haryana State Pollution Control Board, whereas, Dept. of Police has not procured noise level meters for monitoring the noise level in the area of their jurisdiction. Haryana State Pollution Control Board is also required to carry out ambient noise level in silence/sensitive zones and noise zones atleast twice in a year.

The Monitoring Committee recommends as under:

- 1. The department of Police may procure adequate number of noise level meters in each District of the State by 31.12.2022 to monitor the noise level of the area, where the complaints are received regarding creation of noise by any activity in the area.**
- 2. Haryana State Pollution Control Board may procure atleast 03 noise level meter for each District of the State by 31.12.2022 and these noise level meters may be made available with each Regional Offices of the Board for monitoring the ambient noise level in noise zones and salience/sensitive zones atleast twice in a year and addressing any complaint w.r.t noise pollution in any area.**

9.1.8.14 Management of waste by MC Manesar

The Monitoring Committee has observed that no progress report/data w.r.t almost all the activities namely Solid Waste Management, Plastic Waste Management, C&D Waste Management, Biomedical waste management, Hazardous waste management, E-waste Management, air quality management, Water quality management, sewage management, Industrial waste water management, mining activity management and Noise pollution management by MC Manesar has been mentioned in the District Environment Plan.

The Monitoring Committee directed that Nodal Officer in the matter may add all the data w.r.t all the activities as mentioned above regarding MC Manesar in the revised District Environment Plan of District Gurugram.

9.1.8.15 (a) Management of waste in rural areas: compliance of order dated 8.2.2022 in OA no. 360 of 2018 in the matter of Shree Nath Sharma Vs Union of India & Ors

It has been observed by the Monitoring Committee that out of 22 districts of State of Haryana, the progress w.r.t activities such as door to door collection, source segregation of solid waste, treatment of wet waste and management of dry waste and collection of plastic waste have been mentioned in 11 districts namely Sirsa, Fatehabad, Rewari, Mahendragarh, Sonipat, Bhiwani, Charkhi Dadri, Jind, Yamuna Nagar, Hisar and Faridabad. For the remaining 11 districts, no progress report/scheme/proposal w.r.t management of solid waste, plastic waste, C&D waste, e-waste and noise pollution pertaining to rural areas has been submitted.

The Monitoring Committee recommends that District Development and Panchayat officer of each district of State of Haryana may mention the achievement of progress made and prepare scheme/proposal for management of all the activities covering all the major activities like solid waste management, plastic waste management, C&D waste management, E-waste management, water quality management, sewage management and noise pollution management by 30.09.2022 and the same may be mentioned in the revised District Environment Plan to be submitted by all the Deputy Commissioners of the various districts of the State. These schemes may also be implemented in phased manner.

**9.1.8.15 (b) Management of liquid waste in rural areas
(Village Panchayats)**

The Haryana Ponds and Waste Water Management Authority (HPWWMA) was established vide notification dated 23.10.2018 with an objective to promote/monitor, development, protection, rejuvenation, conservation, construction and management of ponds and utilization of treated waste of ponds for irrigation to reduce stress of over exploitation of ground water. The data prepared by Pond Authority indicate that there are 19319 ponds in rural (18456) and urban (863) areas of the State. Pond Authority has prepared annual plan of 5454 ponds (rural:5050 and urban:404) for their rejuvenation/restoration. For restoration/ rejuvenation of village ponds, constructed wet land technology has been selected. Data further indicate that out of 5454 ponds, 1660 ponds of 22 districts have been taken for their rejuvenation under Amrit Sarovar scheme. Out of these 1660 ponds, work has been completed in 187 ponds, work has been allotted in case of 484 ponds and 248 ponds are at tendering stage. 3794 ponds have been covered under non Amrit Sarovar scheme. Out of these 3794 ponds, work of 4 ponds has been completed, work allotted in case 5 ponds and 94 ponds are at tendering stage.

The Monitoring Committee recommends as under.

- i) The work of all the 5454 ponds covered under Amrit Sarovar scheme and 3794 ponds covered under non Amrit Sarovar scheme for their restoration/rejuvenation may be completed by 31.12.2023 and 31.3.2024, respectively.***
- ii) Annual plans for restoration/ rejuvenation of remaining 10071 ponds of the State may be prepared by Pond Authority by 31.3.2023 and these ponds may be rejuvenated/ restored by 31.3.2026 in a phased manner.***

iii) Treated wastewater of 5454 ponds under Amrit Sarovar scheme and 3794 ponds under non Amrit Sarovar scheme may be utilized for irrigation by 31.3.2023 and 31.3.2024, respectively.

9.1.8.16 Other Environmental issues in the Districts and compliance thereof

a) EPR of producers: Linkage with producers/ brand owners for management of plastic waste.

The Monitoring Committee has observed that most of the Municipal Councils/ Corporations have not identified the producers/ brand owners and extended producer responsibility of these brand owners/producers has not been assessed.

Monitoring Committee recommends that all MCs may identify producers/ brand owners by 30.09.2022 and the plastic waste processing facilities existing within or outside State may be identified by 31.10.2022 and these brand owners/ producers may be pursued to make agreement with the plastic waste processing facility for processing of plastic waste by 30.11.2022 and plastic waste may be started sending by MCs to the authorized plastic waste processing facility by 31.12.2022.

b) Provision of green belt and boundary wall around the legacy waste dump site.

The Monitoring Committee has observed that most of the MCs have not provided boundary wall and green belt around the legacy waste dump site. Some MCs have provided green belt and boundary wall in some part of the dump site.

The Monitoring Committee recommends that all MCs may provide green belt and boundary wall around the legacy waste dump site by 31.12.2022.

c) Treatment of leachate generated from legacy waste dump site.

The Monitoring Committee has observed that legacy waste dump sites exist in MC area from the last many years and these have resulted into generation of leachate from the dumping of solid waste permanently at one place. Therefore, treatment of leachate generated from legacy waste dump site becomes essential due to presence of high organic load (BOD and COD) and toxic pollutants in the

leachate. It may seep underground and contaminate the ground water, in case it is not treated adequately.

In order to treat leachate generated from legacy waste dump site at Bandhwari, effluent treatment plant has been set up by MC Gurugram at Bandhwari site.

The Monitoring Committee recommends that all MCs may install ETPs for treatment of leachate generated from legacy waste dump sites by 31.3.2023.

d) Management of carcasses of animals.

The Monitoring Committee has observed that in almost all the village Panchayats and urban areas of the districts, animal carcasses disposal sites exist. However, few steps have been taken to secure these carcasses disposal sites and stray animals normally enter into these sites. Therefore, it becomes imperative that as short term measures, these sites may be provided with boundary wall and green belt/plantation/hedges. For utilization of animal carcasses scientifically, there is need to provide carcasses utilization plant through rendering process or incineration at district level.

The Monitoring Committee recommends as under:

- i. For management of carcass disposal sites, short term measures like boundary wall and green belt/plantation/ hedges may be provided by all MCs/ Village Panchayats all around the around animal carcasses disposal sites by 30.09.2022.**
 - ii. For installation of carcasses utilization plant at district level, the Deputy Commissioners of the concerned districts may hold meeting with Executive Officers of all MCs, Haryana State Pollution Control Board, DDPOs and other concerned departments by 30.09.2022 and a proposal for installation of rendering plant or incinerator at district level may be prepared by 31.10.2022 and modern carcass utilization plant may be setup at district level by 30.06.2023/31.12.2023.**
- e) Management of wastewater and solid waste generated by the unauthorized colonies/ residential complexes/ commercial complexes developed by Private Colonizers.**

During the meetings held with the District Level officers of various districts of State of Haryana, MCs/DDPOs informed that all the unauthorized colonies/residential

complexes/commercial complexes developed by private colonizers have been identified.

The Monitoring Committee has observed that there is need to provide sewerage system and sewage treatment plant for treatment of wastewater and solid waste management system for treatment of solid waste by the MCs for the unauthorized colonies/residential complexes/commercial complexes existing within MC limits and by DDPO/Zila Parishad (Department of Panchayats) for the unauthorized colonies/residential complexes/commercial complexes existing outside MC limits.

The Monitoring Committee recommends as under:

- i) MCs may direct the unauthorized colonies/commercial complexes located within MC areas to install STP of adequate capacity by 31.03.2023 and said timelines may be mentioned revised District Environment Plan.***
- ii) For the management of solid waste generated by these unauthorized colonies/commercial projects existing within MC areas, MCs may make agreement with these unauthorized colonies for management of solid waste with suitable user charges to be paid by unauthorized colonies to MCs by 31.12.2022.***
- iii) DDPO/Zila Parishad (Department of Panchayats) may pursue the unauthorized colonies/commercial complexes existing outside MC areas to either lay sewerage network and install individual STPs for treatment of wastewater or provide any other mechanism for treatment and disposal of untreated sewage of these colonies/ commercial complexes by 31.03.2023.***
- iv) For management of solid waste, generated by unauthorized colonies/commercial complexes existing outside MCs areas, the necessary agreement may be got made with MCs/Village Panchayats for scientific disposal of solid waste (wet and dry waste) with suitable user charges to be paid to MCs/Village Panchayats by the unauthorized colonies/commercial complexes by 31.12.2022.***

f) Removal of garbage vulnerable points

The Monitoring Committee has observed that though Municipal Councils/ Corporations/ HSIIDC have made efforts to remove garbage vulnerable points existing within their jurisdiction but numbers of garbage vulnerable points still exist in the area.

Therefore, the Monitoring Committee recommends that all the Municipal Councils/ Corporations of various Districts of the State and HSIIDC may identify garbage vulnerable points existing within their jurisdiction by 31.08.2022 and these

garbage vulnerable points may be removed by 30.09.2022 and the vacated places after removal of garbage vulnerable points may be converted into useful usage like sitting place, park, green area, play ground etc. by 30.11.2022.

g) Preparation of irrigation schemes and laying of irrigation network to utilize treated sewage of the towns for irrigation of agricultural fields

As per the data submitted by the departments, out of total 170 existing STPs, 61 STPs have been installed on SBR technology and 81 STPs are based on MBBR technology. The qualitative treated wastewater of new technology based STPs is discharged into drains/nallahs leading to river system of the State. There is need to utilize treated wastewater of STPs for irrigation so as to save the energy and ground water. For conservation of groundwater and save energy, the State of Haryana has taken steps which are mentioned as under:

g-1) Micro irrigation project for utilization of treated wastewater of Karnal area for irrigation of agricultural fields

Government of Haryana has proposal to use 25% capacity of all STPs for local needs for watering of Parks & Horticulture. 35 STPs of capacity 338.85 MLD in 21 districts have been selected for installing Micro Irrigation projects. STP of capacity 50 MLD of Karnal area has been selected one of the 35 STPs for micro irrigation project. 25% of treated wastewater (TWW) of 50 MLD STP will be used by Municipal Corporation, Karnal as per the policy of Haryana Government for use of treated wastewater. Remaining 75% TWW i.e 37.5 MLD (15.326 Cs) will be used for Karnal TWW MI Project. This project will be beneficial for micro irrigation, ground water recharge and wastewater management. Gharaunda area has not been provided with regular canal water supply for irrigation and it entirely depends on tube well water for irrigation. Total command area under the said irrigation project shall be 6384 acres which shall be divided into 25 blocks. Under the said project, provisions of 75 motor pumping sets and 14 storage diggy pits of different size have been made. Provision for electric panel/solar system including pumping arrangement has been made for supply water from diggy pits to main line for hydrant. Provision of 1 hydrant at every 4 acres land has also been made.

g-2) Irrigation schemes for utilization of treated wastewater of 170 sewage treatment plants (STPs) of capacity 1985 MLD having targeted command area of 2.5 lakh acres in phased manner

The Government of Haryana has formulated a policy vide notification dated 30.10.2019 on reuse of treated wastewater of

sewage treatment plants keeping in view the limited availability of water resources in the State. It has been mentioned that there is need to consider the fast increasing municipal treated wastewater as a potential water resource which can suitably be put to effective use particularly for non-potable purposes. The implementation timelines for achieving the envisaged goals in the policy are mentioned as under:

Sr. No.	Existing status of development in the town/village	Target	Maximum duration for implementation of reuse of treated wastewater
1.	Sewerage system and STP exist	Minimum of 25% of treated wastewater	2 years
2.	Sewerage system but STP is not available	Minimum of 25% of treated wastewater	3 years
3.	No Sewerage system and no STP	Minimum of 25% of treated wastewater	4 years

In order to prevent the contamination of other sources of water, it has been mentioned that treated wastewater shall meet with all the statutory quality standards so that it does not contaminate the other sources of water surfaces as well as groundwater. Industrial establishment shall treat domestic wastewater generated within their premises and reuse it for appropriate non-potable applications.

In order to utilize treated wastewater of STPs for irrigation, there is need to prepare irrigation schemes to utilize treated wastewater of STPs for irrigation. In the data submitted by Urban Local Bodies Department, it has been mentioned as under.

- Government of Haryana has approved scheme for utilization of treated wastewater of 170 STPs of capacity 1985 MLD having Command area of 2.5 lakh acres in a phased manner and further, it has been stated as under.
 - ✓ In phase-1, 35 STPs were approved out of which 27 STPs of capacity 339.5 MLD were found feasible. Estimated cost of the project is Rs. 500 crore. Irrigation scheme for these STPs shall be completed by 31.3.2024.
 - ✓ In phase-2, treated sewage of 57 STPs of capacity 528 MLD shall be utilized in a command area of 67560 acres. The cost of the project is Rs. 500 crore and it will be started by 1.5.2023 and shall be completed by 31.12.2025.
 - ✓ The treated sewage of 78 STPs of capacity 1118 MLD for its utilization for irrigation in command area of 143059 acres has been taken in phase-3. The cost of the project shall be Rs. 1000 crore and it will be started by 1.3.2024 and shall be completed by 31.12.2026.

The Monitoring Committee recommends as under.

- i. **The Department of Irrigation may start the work of laying of irrigation network for utilization of treated sewage of 27 STPs of 339.5 MLD in command area of 43380 acres by 1.1.2023 and the project may be completed by 31.3.2024.**
 - ii. **For utilization of treated sewage of 57 STPs of capacity 528 MLD in command area of 67560 acres, work of installation/laying of irrigation network may be started by 1.5.2023 and the same may be completed by 31.12.2025.**
 - iii. **Phase-3, project covering 78 STPs of capacity 1118 MLD for utilization of their treated wastewater for irrigation in command area of 143059 acres may be started by 1.3.2024 and may be completed by 31.12.2026.**
- h) Usages of treated wastewater of STPs for construction activities, gardening, washing of vehicles, firefighting, railway yards and sprinkling purposes during sweeping of roads.**

The Monitoring Committee recommends as under.

In order to save ground water and energy, all MCs may start utilizing treated wastewater of STPs, conforming to the prescribed standards, for construction activities, gardening, washing of vehicles, firefighting, dual plumbing system, railway yards and sprinkling purposes to suppress dust emissions generated during sweeping of roads and it shall be ensured that no fresh water may be allowed to use for the said activities.

- i) Framing policy for management of highly contaminated faecal sludge generated from the rural area**

In order to ensure the villages free from open defecation, toilets have been constructed in individual houses of the villages for the facilitation of the villages. There may be a problem of disposal of faecal sludge to be generated from the said facilities. Therefore, there is need to evolve technology/ frame policy for management of highly contaminated faecal sludge generated from rural area.

The Monitoring Committee recommends that the State Government may evolve technology/ frame policy for management of highly contaminated faecal sludge generated from rural area by 31.12.2022.

- j) Waste transfer points/ secondary points**

It has been observed that most of the Municipal Councils/ Corporations and HSIIDC are maintaining waste transfer points/ secondary points to store the solid waste temporary at these points after collecting solid waste from congested areas till its final disposal to wet waste and dry

waste management sites. There is need to provide boundary wall and green belt/plantation around these waste transfer points/secondary points to give aesthetic view to the public.

The Monitoring Committee recommends that all the Municipal Councils/ Corporations and HSIIDC may provide boundary wall and green belt around waste transfer points/secondary points for their aesthetic view to the public by 30.9.2022.

k) Stopping the entry of solid waste/garbage into drains/ nallahs/ river

Solid waste/garbage through drains/nallahs enters into rivers and contaminates its water quality. Therefore, it is utmost essential that solid waste lying dumped on the bank of drains/ nallahs or into these drains/ nallahs may be removed periodically to keep these drains/nallahs clean.

The Monitoring Committee recommends as under:

- i. All MCs may remove solid waste lying dumped along drains/ nallahs passing within MC area on quarterly basis and solid waste so collected may be sent to the solid waste management sites.**
- ii. Department of Panchayats and Department of Irrigation may remove solid waste lying dumped along drains/ nallahs existing outside MC area on quarterly basis and solid waste so collected may be sent to the solid waste management sites.**
- iii. Department of Irrigation may remove solid waste lying dumped into drains/nallahs existing inside or outside MC areas twice in a year and solid waste extracted from drains/nallahs may be disposed off in an environmentally sound manner.**
- iv. Screens /wire mesh may be installed by Municipal Councils/ DDPOs at the inlet of the drains/ nallahs to retain the solid waste so as to avoid the entry of solid waste into river/ water bodies by 31.12.2022.**

9.1.8.17 Solid waste generated by industrial sectors.

The Monitoring Committee has observed that lot of solid waste mostly in dry form is generated by various industrial estates existing in industrial towns of the State. The management of solid waste generated by industrial sectors may be made by HSIIDC. Unorganized collection of solid waste by the unorganized sectors especially in dry form may become the source of serious incidents.

Therefore the Monitoring Committee recommends as under:

HSIIDC may prepare proposal/scheme for collection, transportation and scientific management of solid waste in the form of dry waste generated by various industrial

estates/sectors of the State by 30.9.2022 and these may be started implementing by 31.10.2022.

9.1.8.18 Plantation of trees along highways/drains/ponds/vacant sites.

Development of plantation has major role to attenuate air pollution in the area. Therefore, it necessary to plant trees in forest land, Panchayat land, highways, rural roads, around ponds, legacy waste dump sites, industrial zones and other vacant places.

The Monitoring Committee recommends that Department of Forest may prepare proper plan for plantation of suitable varieties of trees and PWD (B&R), Department of Panchayats, HSIIDC, HSVP and MCs may plant trees of suitable varieties on forest land, Panchayat land, along highways, rural roads, industrial zones, around ponds, legacy waste dump sites and other vacant places by 30.09.2022 and department of forest may provide saplings for the same to the departments at the earliest.

9.1.8.19 Providing necessary treatment facility for treatment of wastewater of village ponds.

Presently, almost all the ponds of the villages have been contaminated due to discharge of sullage of the villages. Therefore, for the treatment of wastewater of ponds, schemes/ proposals need to be prepared by Department of Panchayats.

The Monitoring Committee recommends that the Department of Panchayats may prepare scheme/ proposals for treatment of wastewater of village ponds by 30.9.2022 and these schemes/proposals may be completed by 31.12.2023 in a phased manner.

9.1.8.20 Reduction in water utilization by the inhabitants of the towns/cities.

The Monitoring Committee has observed that all the STPs are designed and installed on the basis of discharge of wastewater generated on the consumption of water @ 135 lpcd. However, in most of the towns of the State, water about 200-250 lpcd is supplied. The excess use of water by the inhabitants has made the STPs inadequate. Therefore, there is dire need to reduce the consumption of water by the inhabitants of the towns/cities. For this purpose, flow meters are required to be installed at the various locations on water supply network to ensure the restricted supply of water to the public. Further, there is need to frame a policy for supplying restricted quantity of groundwater/canal water to the inhabitants.

The Monitoring Committee recommends that all MCs may install flow meters at the appropriate locations on water supply network to ensure the restricted supply of water to the public by 31.12.2024 in phased manner. Further, State of Haryana may frame a policy for supplying restricted quantity of water to the inhabitants by 31.3.2023.

9.1.8.21 HIGHLIGHTS

The Monitoring Committee has observed that besides the action taken on the various activities as mentioned in the District Environment Plans of various districts of the State, some initiatives for protection of environment have also been taken by the Urban Local Bodies Department and other departments, which are mentioned as under:

a) Cow Dung Management

Municipal Council Ambala Sadar has established plant for production of logs from cow dung by mechanized means. These cow dung logs are used for cremation purpose which helps to decrease the use of wood for the said activity. Ambala cow dung logs project has been awarded by Hon'ble CM, Haryana on Good Governance Day-2022.

b) Waste to energy plant at Karnal

An integrated project to convert slaughter house solid waste/ biodegradable Solid waste/ paddy stubble, cow dung and horticulture waste into cleaner fuel and bio fertilizer has been installed at Karnal by MC Karnal. The capacity of plant is 15 TPD. The main advantage of plant is reduction of waste and generation of power through CNG.

c) Bio Gas Plant at MIT Radaur

JMIT, Radaur is one of the bulk waste generators of solid waste. For management of wet waste, organization has set up 01 bio-gas plant to produce fuel (gas) for their internal use. Bio-gas is used as fuel for operation of mess in the campus. The project is compact and portable.

d) Plastic Waste Management

The following activities have been conducted for management of plastic waste.

- i) Plastic pet bottles/utensils collection centers have been set up in various towns and collected plastic waste is sent to recyclers. Presently, 28 plastic waste recyclers are operating in the State.*

- ii) *Municipal Corporation, Ambala has set up 04 plastic waste collection centers and the collected plastic waste is sent to Mulana Thermal Power Plant for generation of electricity.*
- iii) *MC Gurugram has started the use of plastic waste in construction roads and road measuring 1.5 km has been laid in Gurugram.*

9.1.9 Other conclusions and recommendations

- i) ***State of Haryana has taken number of steps for management of solid waste, liquid waste and management of other wastes in the recent years but still there are gaps in achievement of the targets in various activities. For the effective monitoring of activities w.r.t. management of wastes as mentioned under 07 thematic areas, the Monitoring Committee recommends that a State Level Environment Surveillance Team may be constituted so as to have regular check on the compliance made by various Municipal Councils/Corporations and other departments. District Level Environment Monitoring Committees already constituted at District level may continue to implement and monitor the achievement of goals in various activities as mentioned in the District Environment Plans of various Districts of the State.***
- ii) ***Most of the Municipal Councils/Corporations and other concerned departments could not complete the various activities w.r.t. each thematic area within the timelines as mentioned in the District Environment Plans, therefore, considering the requests made by the Municipal Councils/Corporations/other concerned departments, timelines to complete the various activities by the MCs/departments were extended to 30.6.2022/31.8.2022/30.9.2022/31.12.2022/31.3.2023/30.6.2023. As such, in the overall conclusions and recommendations part of the Final report, as mentioned in para no. 9.0 and its subsequent sub-paras 9.1.1 to 9.1.8, the recommendations for completing the various activities have been mentioned as 30.6.2022/31.8.2022/30.9.2022/31.12.2022/31.3.2023/ 30.6.2023.***
- iii) ***Monitoring Committee is submitting its final report based on the discussion held with District Level officers of various districts of the State of Haryana w.r.t. various activities as mentioned in the District Environment Plans of various districts, data/information collected from various departments and visit of solid waste management sites and other environment management sites of various districts by the Monitoring Committee. It is further mentioned here that after the order dated 8.2.2022 in OA no. 360 of 2018 in the matter of Shree Nath Sharma Vs Union of India & Ors, the Monitoring Committee started the***

monitoring of execution of District Environment Plan of each district through video conferencing, physical meetings with District Level officers of each District and visits of solid waste management sites and other environment sites and reviewing the action taken on various activities as mentioned in District Environment Plans of various Districts by Municipal Corporations/Councils (MCs)/concerned departments at district level. The concerned MCs and departments were found lacking in completing the activities under various thematic areas well in time as mentioned in each District Environment Plan.

- iv) District Environment Plans of various Districts of the State may be revised/amended/modified in view of the observations made/ directions given by the Monitoring Committee on the various points as discussed in the meetings and timelines for completion of the said activities and other activities in compliance to order dated 8.2.2022 of Hon'ble National Green Tribunal as mentioned in para no.18 of said order in OA No. 360 of 2018 in the matter of Shree Nath Sharma Vs Union of Indian and Ors and the same may be uploaded by 31.12.2022 on the website of HSPCB as well as department of Environment, State of Haryana.**

The Monitoring Committee expresses its sincere thanks to Govt. of Haryana, its officers, Deputy Commissioners of all the Districts of the State and all other District Level officers of various Districts of the State for extending full cooperation which has facilitated the Monitoring Committee in its smooth functioning during its tenure for the period more than three years.”

Report of U.P Monitoring Committee dated 12.01.2023

10. The report mentions status of compliance of preparation of DEPs in different districts of U.P and gaps in compliance as follows:-

“3. Status of compliance

(i) District Environment Management Plans (DEMPs)

The Oversight Committee on 12.11.2021 had conducted a review meeting to monitor the progress in the finalization of the DEMPs in all the 75 districts and the State Environment Plan for UP. In the meeting, it was informed that on 27.09.2021 the ACS, Department of EF&CC, UP Government had sent letters to all the DFOs/DMs in regard to the preparation of District Environment Plans and they were also planning to schedule a meeting of the DFOs/DMs under the chairmanship of the ACS to expedite this issue. In response to regular and close follow-up,

the UPPCB had submitted the DEMPs of all the 75 districts to the Oversight Committee. The Committee on review of these DEMPs finds that all the DEMPs suffer from a plethora of material and serious shortcomings. It appears that the persons preparing the DEMPs have not understood the purpose of preparing these plans and also the indicative template made available by the CPCB for this purpose. Instead of giving relevant information, only the indicative template has been copied as such in large number of cells in the table. Without rectifying these shortcomings, these plans would not be of any help in achieving the objectives behind this exercise. With a view to highlight the nature of shortcomings, the Committee has randomly selected 2 districts i.e. Bareilly and Kanpur Nagar. The details of the shortcomings identified in these DEMPs are mentioned hereunder:

S. No.	District	Shortcomings identified
1.	Bareilly	<p>1. For Solid Waste Management under the title 'identification of gaps and action plan' budget requirements have been indicated under various activities in the relevant column, but the availability of budget is shown as 'Not available (NA)' for most of the activities. In oral discussion, it was explained that the budget may be made available after the approval of the plan. But, in some of the activities, the budget requirements have been mentioned and the action plan has been shown as 'achieved' without availability of any fund which is incomprehensible.</p> <p>2. For 'manual sweeping' neither the gap has been identified in terms of either manpower or equipment nor it has been mentioned that there is no gap. Against the budgetary requirement of Rs. 6 crores, no fund has been made available so far, yet the 'action plan' has been shown as 'achieved'. Almost half of the year is over and no budget has been made available till now. Non availability of required budget should be a matter of concern for everyone, if this activity is to be carried out on a regular basis. Needless to mention that this is an essential municipal service to be provided on a daily basis.</p> <p>3. The timeline for compliance in 'mechanical road sweeping' is mentioned as 'achieved' in the plan, while its tender is still in process.</p> <p>4. The timeline for compliance in 'collection of solid waste and arrangement for door-to-door collection' (in both SWM and PWM) is mentioned as 'achieved' where as the gap of 10% in both the activities is mentioned in the previous column.</p> <p>5. Regarding identification of gap in 'waste collection' the number of trolleys and trucks with separate compartments and availability of 'waste deposition centres' have been indicated, but it is not mentioned that whether there is a gap in the availability of these facilities or not.</p> <p>6. The information furnished under the 'waste treatment and disposal' section, pertains to Nagar Nigam, Bareilly only whereas the waste generated in other municipalities, Nagar Panchayats and rural areas is almost equal in quantity. This plan needs to include various activities for their treatment and disposal as well.</p>

		<p>7. Regarding remediation of 'legacy waste' the gap has not been mentioned. Against the budgetary requirement of Rs. 20 crores, no money has been released so far, yet the target is proposed to be achieved by December, 2022.</p> <p>8. Relevant information on EPR of Producers have not been given. It sounds like a wish and not a plan of action.</p> <p>9. The information on plastic waste generation in Municipalities and Nagar Panchayats is not given in this plan.</p> <p>10. For the collection of plastic waste, the entire responsibility has been left to the Local Bodies, but no arrangement has been made for their transportation to the disposal centers. Arrangements in this regard need to be made either at the District or Tehsil or Block level. The meaning of 'proposed' in the 'timeline for compliance' column suggest that no concrete homework has been done for the handling of plastic waste at the District level.</p> <p>11. Regarding access to 'plastic waste disposal facility' it has been mentioned that the District has access to such facility which suggests that there is no gap. Yet, the timeline for compliance is shown as June, 2023.</p> <p>12. Regarding arrangement for separate collection of 'C&D waste' to the deposition points, it has been mentioned that there is no gap but under the 'action point' column, it has been mentioned that the process of selection of bidder for the operation of these plants is on. Further, under the 'target time for compliance' column, it has been shown as 'achieved' Apparently, information given in various columns for this activity are contradictory.</p> <p>13. The byelaws for C&D waste has been reported as notified, still the timeline for compliance is shown as December, 2022.</p> <p>14. Presently, there are 976 Health Care Facilities in the District but only 700 are registered/authorized. No timeline has been given for ensuring registration/ authorization of the remaining Health Care Facilities. Action plan should include a definite timeline for ensuring the registration of the remaining 276 Health Care Facilities. Those, to be established later, may be covered as regular activity in routine course.</p> <p>15. In 'BMW' section, the columns pertaining to 'identification of gaps' and 'action points' seem to have been copied from the indicator template without giving the relevant statistics, e.g.-</p> <ul style="list-style-type: none"> (i) Under the activity 'inventory and identification of HCFs', the number 276 should have been mentioned in the gap column and in the 'target time' column, a definite timeline should have been mentioned. (ii) Under the 'adequacy of facilities to treat Bio Medical Waste' activity, 'no gap' should have been mentioned in the relevant column. (iii) Information about implementation of 'barcode system' is not given and also no timeline for implementing this system has been mentioned. (iv) While dealing with the 'adequacy of funds' for Government Health Care Facilities for Bio Medical waste management, it has been mentioned under the relevant column that no budget is required. But, under the 'target time for compliance' column it has been mentioned that funds are allocated by the State government. Here, the District should have mentioned
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		<p>its budgetary requirement specifically, so that the State government includes it in the State Environment Plan, and budget is made available accordingly and the District does not suffer inadequacy of funds in future.</p> <p>16(i) Status on the identification and authorization (in terms of number) of hazardous waste industries in the District is not given in the plan.</p> <p>16(ii) Under action point No. 2 in the column ‘target time for compliance’ it has been mentioned that 6 MRF centres have been installed by the Municipal Corporation. This, at best, should have been mentioned in the ‘gap column’ to determine the gap or otherwise situation. Accordingly, the column ‘action point’ would get modified.</p> <p>16(iii) Under the activity ‘training of workers’ it is mentioned in the ‘action point’ column that industries train the workers as per the provision under HOWM Rule, 2016, hence no action required. It is not correct. They should indicate the number of trainings to be held and number of persons to be trained every year so that monitoring is done accordingly and safety of industrial workers is ensured.</p> <p>16(iv) Under the action ‘linkage with common TSDF’ it has been mentioned that HW generated in Bareilly city is disposed through TSDF. But it does not mention anything about whether HW is generated in other areas of the District and how it is disposed of.</p> <p>17. No time line for completing any of the activities for managing e-waste has been given in this plan. Even the ‘action point’ for linkage among the stake holders to channelize the e-waste, regulation of illegal e-waste, recycling/dismantling and integration of informal sector has not been identified.</p> <p>18. For air quality management 16 air pollution hot spots have been identified, data from 3 air monitoring stations have been collected and attached and the District level action plan for air pollution has been prepared, yet the target time for compliance has been indicated as 180 days for all these activities. Even for creating awareness amongst people about air quality and inviting complaints two Apps, one developed by the UPPCB and the other by the CPCB, have been launched yet the target time for compliance has been indicated as 180 days. The target time for establishment of two CAAQMS, which are under construction, is shown as 180 days but it has not been mentioned when the count of 180 days will start or end. It appears that the target date has been mechanically filled in all the columns.</p> <p>19. The water quality management plan has mentioned about the monitoring of Ramganga river only, while the details on water quality of other water bodies such as ponds/lakes/drains is missing in the plan. For any of the activities listed in the second column of the plan, the gap has not been identified. Only the guidance given in the indicative template has been copied and pasted in column-3. Naturally, when the gap has not been identified properly, the plan cannot be a proper plan. In all the activities, the ‘target time for compliance’ has been mentioned as 12 months, but the beginning or the end date is not mentioned. Further, the entire sewage water (175MLD) is released into the drains/ rivers without bioremediation, yet the time line for starting bioremediation work is given as 12 months. It is also noticed that the time lag between the completion of STPs and of the sewerage network is about one year. If the two</p>
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		<p>activities are synchronized, then the money spent on one will not remain idle till the completion of the other and public will start getting the benefit of public investment early.</p> <p>20. The 'budget required' for the treatment of industrial waste water to make it compliant with the discharge norms is not given in the plan, although its need is mentioned.</p> <p>21. As mentioned in other thematic areas, for industrial waste water, mining activities and noise pollution management, instead of identifying the gap and preparing the action points, the guidance given in the indicative template has been reproduced mechanically. Without identifying these two aspects and providing for appropriate budget or quantified targets, the plan will not be useful and monitorable.</p>
2.	Kanpur Nagar	<p>1. Regarding all the thematic areas, the columns pertaining to 'identification of gaps' and 'action point' seems to have been copied from the indicator template without giving the relevant statistics and the details on gaps and target achieved for the action points are given in the column 'timeline for compliance'. The information relevant to particular columns is required to be reframed/refilled.</p> <p>2. For Solid Waste Management under the title 'segregation of waste at source', neither the 'action plan' nor the 'timeline for compliance' of 55% of the identified gap is given.</p> <p>3. For 'manual sweeping' neither the percentage of road covered for regular sweeping is mentioned nor the gap has been identified in terms of either manpower or equipment, but the timeline for compliance is mentioned as December 2022. Against the budgetary requirement of Rs. 3.0 Cr, the availability of Rs. 5.1 Cr is mentioned in the relevant column, the amount of Rs. 2.1 Cr is in excess for this activity which is required to be reallocated for some other activity.</p> <p>4. Under 'mechanical road sweeping and collection', no information regarding roads identified for mechanical sweeping is mentioned neither any gaps nor action plan is given.</p> <p>5. Regarding '100% collection of solid waste' and 'arrangement for door-to-door collection' of solid waste, gaps have been identified but 'action plan' and 'timeline for compliance', is not indicated in the plan.</p> <p>6. Regarding 'waste collection trolleys with separate compartments', 'mini collection trucks with separate compartments' and 'waste deposition centers', timeline for compliance is indicated as December 2022, but the gaps are not mentioned in these action points. Also, the details of budget required in execution of these action points is not indicated.</p> <p>7. Regarding identification of gap in 'waste transport' the details on existing fleet and bulk waste have been indicated, but it is not mentioned that if there is a gap in the availability of these facilities or not.</p> <p>8. The identification of gaps, action plan and timeline for compliance under the 'waste treatment and disposal'</p>

		<p>activity have not been mentioned. Also the details on bulk waste generators in 'wet waste management', biomethanisation/biocomposting units in 'wet waste management facilities' and MRF in 'dry waste management' is not given in the plan.</p> <p>9. Regarding 'disposal of inert and non-recyclable waste' and 'remediation of historic and legacy dumpsite', the timeline for compliance is mentioned as December 2022 but no information on identification of gaps and action point is given. Also, regarding 'disposal of inert and non-recyclable waste', no budgetary information is provided without which the construction of sanitary landfills is not possible. The details on historic and legacy waste sites and their remediation is not mentioned in the plan.</p> <p>10. Information on identification of gaps and action plan on EPR of Producers have not been given, yet the timeline for compliance is mentioned as December 2022. If the brand owners are complying with the EPR directions of the UPPCB, then why timeline for compliance is mentioned as December 2022.</p> <p>11. This is a District plan but the entire section on the Solid Waste Management is about the Kanpur Nagar Nigam only. This plan is totally silent on the management of about 725 MT of SW generated by the other Nagar and Village Panchayats.</p> <p>12. Under 'door-to-door collection' in plastic waste management, a gap of 10% is mentioned but no timeline for compliance and action plan to cater this gap is given.</p> <p>13. Regarding 'plastic waste collection centers', information on twin-type litter bins' is given with gap of 10% but no information on timeline for compliance and action plan to cater this gap is given.</p> <p>14. Regarding arrangement for separate collection of 'C&D waste' to the deposition points, the gap has not been identified, however, it has been mentioned in the 'timeline' column that there are 6 such designated points and requirement and availability of budget is also mentioned in the relevant columns.</p> <p>15. In regard to 'fixing of user fee on C&D waste', the information on construction of 100TPD waste processing unit is given which is irrelevant for this action point.</p> <p>16. Regarding 'C&D recycling facility', the information on 100 TPD waste processing unit is given which is under construction while no information on target date of completion of the plant is given.</p> <p>17. Regarding 'usage of recycled C&D waste', in the column for timeline for compliance 'yes' is mentioned which makes it unclear whether it is compliant, or any further action is still needed to address the gaps in the action plan.</p> <p>18. In biomedical waste management thematic area, the table on current status states the number of bedded and non-bedded HCFs as 853 and 555 (total 1408) respectively, while the number of HCFs authorized by the UPPCB is only 1113. In the identification of gaps and action plan table, under column 'inventory and authorization of HCFs by the UPPCB', neither the gap has</p>
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		<p>been identified nor the action points and the timeline for compliance has been mentioned. In the 'target time' column the number of HCFs is mentioned as 1665. This discrepancy in number needs to be reconciled and the action plan for authorization of remaining HCFs needs to be modified accordingly.</p> <p>19. With regard to 'compliance to rules by HCFs and CBWTFs', the timeline for compliance is mentioned as December 2022 while no information on identification of gaps and 'action point' is given in the table.</p> <p>20. Regarding 'ETP installation for wastewater treatment in HCFs', the timeline for compliance is mentioned as 'under progress' without mentioning any gaps and action point in the relevant columns.</p> <p>21. In 'hazardous waste management' section, the columns pertaining to 'identification of gaps' and 'action point' seems to have been copied from the indicator template without giving the relevant statistics such as:</p> <ul style="list-style-type: none"> (i) Under 'Regulation of industries and facilities generating Hazardous Waste', 'Establishment' and 'Availability / Linkage with common TSDF or disposal facility', the timeline for compliance is mentioned as December 2022 while no information on identification of gaps, and action plan is given. Also, for 'establishment' budget requirement is mentioned as Not Applicable without which the establishment of collection centers is not possible. (ii) With regard to 'training of workers for handling/ recycle and disposal of HW', the information on number of trainings to be held and number of workers to be trained each year needs to be mentioned so that monitoring is done accordingly, and safety of industrial workers is ensured. Accordingly, other columns would be needed to be modified. (iii) For 'contaminated sites', the timeline for compliance is mentioned as 'report is awaited'. The information on the number of times in a year the samples are tested, the contaminants present on the dump site and the remediation measures proposed to be undertaken should find place in the plan. <p>22. Although 9790 MT/year of e-waste is generated in this district, but no action plan has been given for their collection. Presently, there is no collection center established either by the State Government or the producers in the district.</p> <p>23. The timeline for compliance in 'Linkage among stakeholders to channelize e-waste' is mentioned as December 2022 but no information on the action plan columns is given in the table. Under the 'regulation of Illegal E- Waste recycling/ dismantling' and 'Integration of informal sector', the guidance given in the indicative template has been copied but relevant information has not been appropriately mentioned.</p> <p>24. For the 'air quality management' under the 'current status' details on prominent air polluting sources is not given. Under the title 'identification of gaps and the action plan' it is mentioned that emission inventory study has been carried out by IIT Kanpur and 'grid level action plan' is mentioned in the 'target time' column. Based on this study, all the relevant columns of this table need to be</p>
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		<p>filled properly. Under the 'hotspots of air pollution in district' the details need to be filled in various columns on the basis of facts mentioned in the 'target time' column. No gap has been identified for setting of CAAQMs.</p> <p>25. In 'water quality management' section, it is mentioned that rivers Ganga and Pandu are flowing through this district but the information regarding 'polluted river stretches' is mentioned as 'none' which is incorrect as the river Ganga is highly polluted as 110 MLD of untreated or polluted sewerage is being discharged into this river. There is also discrepancy between the total quantity of sewerage indicated in this section and the subsequent section. Under the 'quality of water bodies in the district', 'protection of river/lake waterfront', inventory of sources of water pollution', 'protection of flood plains' and 'rejuvenation', the timeline for compliance is mentioned as December 2022, while no information on identification of gaps and action point is given in the plan. Even the budgetary details on rejuvenation and protection of river/lake front is mentioned as 'Not Applicable' without which these action points cannot be executed. In a nutshell, this section needs to be redone altogether.</p> <p>26. Regarding 'underground sewage network' action point, it has been mentioned that line of 900 kms sewerage network for which Rs. 950 crore is required which has been shown under the appropriate column. So far, no budget is made available, yet the target time for compliance is shown as December 2022. This shows total non-application of mind in preparing the plan.</p> <p>27. With regard to 'industrial wastewater discharge', the number of industries not meeting the standards is not mentioned in the 'compliance to discharge norms by industries'.</p> <p>28. Regarding 'mining activity management', it has been mentioned in the timeline column that an Enforcement Committee has been formed for monitoring mining activities, but action point has not been identified accordingly. In fact, the guidance given in the indicative template has been copied under the column 'action point' for all the three activities mentioned in this section. Under the action point 'environment compliance by mining industry', it is expected that a periodical verification would be done on a regular basis. It is not clear that when there exists a Committee, why it cannot do periodical verification. This entire section requires to be redone incorporating quantifiable targets for every activity.</p> <p>29. Under 'availability of sound/noise pollution meters', it is mentioned in the 'timeline for completion of action point' column that the 'concerned agencies don't have. December 2022', which suggests that there is some gap, but neither the gap nor the action point has been identified. Also, if more noise pollution meters are required to be installed then there should be some budget requirement which is not mentioned.</p> <p>30. The 'action plan' and 'budget requirement' for installation of fixed ambient noise level monitoring stations to be installed in the district is not mentioned but the timeline for compliance is mentioned as December 2022/</p> <p>31. . With regard to 'signboards in noise zones', it is mentioned in the column 'timeline for completion of action</p>
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		plan' that the sign boards are installed at sensitive zones. It is not clear that if the sign boards are already installed at sensitive zones, then why timeline for compliance is mentioned as December 2022.
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(ii) State Environment Management Plan (SEMP)

The DEMPs submitted by the UPPCB are not in conformity with the directions issued by the Hon'ble NGT. A State Environment Management Plan prepared on the basis of faulty DEMPs can only be ab initio faulty. However, the Oversight Committee reviewed the SEMP submitted by the UPPCB on 14.09.2022. It observes that the budget required for different thematic areas is not included in the main body of the plan. In the SEMP, the budget requirement has to be an aggregation of the budgetary demand of all the 75 districts. The thematic area wise observations of the Committee on the SEMP are as follows:

S. No	Thematic area	Points to be addressed
A. Waste Management		
a.	Solid waste management	<ol style="list-style-type: none"> 1. On page 13 of the plan, it is mentioned that presently about 14710 TPD of Municipal Solid Waste is generated. However, on page 14, under the title 'current status relating to Solid Waste Management' this figure is shown as 19180 TPD. 2. With regard to MSW processing facility, the total number of MSW facilities operational in the State is not given. The plan contains information in respect of Ghaziabad Nagar Nigam only 3. For the management of any of the activities, namely, segregation, sweeping, collection, transportation and treatment of wastes, no gap has been identified. Thus, the action point mentioned in the relevant column is naturally vague and without any budgetary requirement or its availability. However, a target date has been mentioned in the last column. 4. With regard to '100% door-to-door collection' of solid waste, it is mentioned in the plan that 100% D2D collection is being done in all the wards but while referring to DEMPs, it is found that some districts are yet to achieve 100% collection. If 100% door-to-door collection is already achieved, then there was no need to mention the 'timeline for compliance' as March, 2024. 5. With reference to 'waste collection trolley with separate compartments', it is mentioned that collection of solid waste is being done and adequate number of trolleys have been deployed which means that there is no gap, still the 'timeline for completion' is given as March 2025 6. Relevant information on EPR of Producers is not given in the plan. Tapping their resources would ease the financial burden of the State and the ULBs but this area has not caught the attention of the planners. 7. With regard to 'preparation of own bye-laws to comply with SWM rules 2016, in the 'timeline for compliance' column it is stated as 'complying', whereas in the 'identification of gap' column 'Yes/No' and in the 'action point' column 'Yes' is mentioned. The information given in these columns

		<i>are ambiguous, contradictory and at variance with the information available in the DEMPs.</i>
<i>b.</i>	<i>Plastic waste management</i>	<ol style="list-style-type: none"> 1. <i>In PWM section, the columns pertaining to 'identification of gaps' seems to have been copied from the indicator template without giving relevant information. Naturally, the action point is vague/unquantified.</i> 2. <i>With reference to 'door to door collection of PW', in the 'target time' column, 'compliance' is mentioned which suggests that 100% door-to-door collection is being done, whereas in the 'action point' column it is mentioned that 'additionally, some tricycles are on procurement stage to cover 100% door-to-door collection.</i> 3. <i>With reference to 'Facilitate organized collection of PW at Waste transfer point or Material Recovery Facility', no information on 'identification of gaps' or 'action point' is given in respect to availability of transfer points, material recovery facility, involvement of informal sector / NGO, registering waste pickers and linkage with PW recyclers is given in the plan, even then the timeline for compliance is mentioned as March 2023.</i> 4. <i>No information on current status of 'plastic waste collection centres' in the State or 'collection centres yet to be established', about the gaps and action plan is given in the plan.</i> 5. <i>The timeline for completion of 'access to plastic waste disposal facilities' is mentioned as March 2025, but no information on the gaps and action plan is given.</i>
<i>c.</i>	<i>C & D waste</i>	<ol style="list-style-type: none"> 1. <i>In C&D waste section, the columns pertaining to 'identification of gaps' seems to have been copied from the indicator template without giving relevant information.</i> 2. <i>With regard to 'arrangement for separate collection of C&D waste to C&D waste deposition point', the timeline for compliance is mentioned as March 2025 but no information on 'identification of gaps' and 'action point' is given.</i> 3. <i>For the action points 'whether local authority have fixed user fee for C&D waste', 'C&D recycling facility', 'usage of recycled C&D waste' and 'ICE on C&D waste management', the timeline for compliance is mentioned as 'complying', but this claim does not match with the information given in 75 DEMPs.</i>
<i>d.</i>	<i>Biomedical waste management</i>	<ol style="list-style-type: none"> 1. <i>With reference to 'current status related to biomedical waste', information pertaining to only COVID waste is given. No information on non-COVID biomedical waste is mentioned in the plan</i> 2. <i>With regard to 'inventory and identification of HCFs', the information regarding the total number of authorized and unauthorized HCFs in the state is not given in the plan.</i> 3. <i>With respect to 'tracking of BMW', it is mentioned in the 'time line' column that it is being complied with, however, no information about HCFs and CBWTFs is provided in which barcode system has been implemented/ yet to be implemented. The information furnished in the DEMPs do not match with the claim of compliance made in this SEMP in this regard.</i> 4. <i>For the action point 'adequacy of funds', it is mentioned that State Govt provide adequate funds for biomedical waste management but total funds (in amount per year) allocated by the State Government for this activity is not given in the plan.</i>

		5. With regard to 'ETP for WWT in HCFs', it is mentioned in the plan 'Yes HCFs where applicable' which seems that ETP are available in HCFs where applicable but on referring to DEMPs it is found that ETPs are not constructed in majority of the HCFs of the districts.
e.	Hazardous waste management	<ol style="list-style-type: none"> 1. With regard to 'Regulation of industries and facilities generating Hazardous Waste', no details on identification and authorization status of industries generating hazardous waste in the State is mentioned in the plan. 2. Under the activity 'training of workers' it is mentioned that industries train workers on safety aspects hence it is complying. It is vague and unmonitorable. They should indicate the number of trainings to be held and number of persons to be trained each year, as it is a regular activity, so that monitoring is done regularly and safety of industrial workers is ensured. 3. In action point 'Availability / Linkage with common TSDF or disposal facility', no information on 'identification of gaps' and 'action plan' is given. It is not clear in respect whether all the HW generators have access to the TSDFs in the State?
f.	E-waste Management	1. A list of 51 e-waste collection/dismantling/recycling/ refurbishing units along with their capacity is given, but nowhere the quantity of e-waste, action plan for their treatment, budget requirement and timeline for completing these activities are mentioned. Regarding inventory/generation of e-waste/bulk e-waste generators, it is mentioned that it is a regular activity but no information about the inventory and action plan is given. In fact, in none of the activities, any information has been given in the plan.
B.	Air quality management	<ol style="list-style-type: none"> 1. Information on prominent air polluting sources is missing in the table on 'current status' related to air quality monitoring. 2. With regard to 'prominent air polluting sources' and 'hotspots of air pollution', information regarding NCR and non-attainment cities is given while no details about the other cities is mentioned in the plan. 3. With regard to 'setting up of continuous ambient air quality monitoring stations', it is mentioned in the plan that in some districts CAAQMS is yet to be installed while no gap and action plan for the same has been given.
C.	Water quality management	<ol style="list-style-type: none"> 1. The table on current status on water quality monitoring is missing in the plan. 2. With reference to 'inventory of water bodies', 'quality of water bodies' and 'hotspots of water contamination' no information on identification of gaps, action plan and timeline for compliance is given. 3. Information given in respect of 'protection of river/lake waterfront', 'inventory of sources of water pollution', protection of flood plains', and 'rejuvenation of groundwater' is not specific. The presentation of facts in this section does not match with the DEMPs.
D.	Domestic sewage treatment	1. From the data presented under this section, it is difficult to ascertain the gap. No plan has been presented to meet the gap within a specified time limit for the construction of STPs or connecting network. This plan does not mention even the total volume of sewage generated in the State

E.	<i>Industrial waste water</i>	<ol style="list-style-type: none"> 1. Under the 'current status' section no gap has been identified. In fact, the capacity of the operational ETPs have not been mentioned. The plan must include this information as well as the action plan for meeting the gap 2. Under 'compliance to discharge norms by industries', the industries which are not compliant with the standards is not indicated. No protocol to carry out this regular activity is mentioned.
F.	<i>Mining activity management</i>	<ol style="list-style-type: none"> 1. For monitoring 'mining activity', it has been reported that Task Force/Committee has been constituted in the districts, but no further details have been given. The action plan should include the minimum number of inspections/raids to be conducted during the year and fine/prosecution/action taken etc. The plan must indicate quantified monitorable targets to prevent illegal mining and ensure environmental compliance by the mining industry.
G.	<i>Noise pollution management</i>	<ol style="list-style-type: none"> 1. Regarding the current status on 'noise pollution management', the total numbers of noise measuring devices available in the state is not given in the plan. 2. Regarding the table on 'identification of gaps and action plan' neither the gap has been identified nor any action plan has been proposed. From the chart it appears that out of 75 districts, only 56 have noise measuring devices. The timeline for completion of all the activities is mentioned as 'immediate' which has been copied from the indicative template, but no budgetary requirement has been mentioned which would facilitate these activities, particularly procurement of noise measuring meters for the remaining districts, immediately.

Recommendations.

In view of the above, we recommend as follows:

1. *Review of these plans reveals that they have been prepared without understanding the purpose and process of this exercise. The indicative template made available by the CPCB is fairly elaborate and exhaustive. In order to orient and equip the planners to properly use this and prepare realistic implementable and monitorable plan, the Additional Chief Secretary, EF&CC, UP may be directed to get all these DEMP of the 75 districts prepared in accordance with the spirit of the order of the Hon'ble NGT keeping the observations of this Committee in mind. He may also be directed to conduct workshops for the Member Secretaries of the DEMP Committees of all the districts in small and manageable groups in which respective Head of the Departments should guide them to fill the relevant sections. Thereafter, the Member Secretaries should hold a workshop of all the district level officers in the district and get the DEMP finalized. The finalized master (office) copy of the DEMP shall be signed by all the district level officers of the departments concerned. This exercise may take six weeks.*

2. *Once the plans of all the districts are finalized, only then the preparation of SEMP should begin. The Member Secretary, UPPCB may be directed to prepare the SEMP by aggregating the details of every column in respect of each action point in all 7 thematic areas. The SEMP so prepared should be passed on to the Head of the Departments at the State level for vetting and making appropriate provision in the budget. After the vetting of the State Plan by the respective Head of the Departments, it should be deemed to have been finalized. The Additional Chief Secretary, EF&CC thereafter should share the SEMP with all ACS/PS/Secretaries of the departments concerned for making budgetary provision and monitoring time bound implementation of the SEMP. This exercise may take another 6 weeks.*

The Chief Secretary may be directed to monitor and coordinate between the departments and ensure that DEMPs and SEMP are prepared within 3 months without any further delay.”

Report of CPCB Monitoring Committee dated 10.10.2022

11. The report mentions steps taken by CPCB for coordinating with the concerned States, for preparation of plans and the way forward. With regard to preparation of DEPs, it is stated that out of 738 districts, plans have been prepared for 640 districts. In 98 districts, plans are yet to be prepared. Statewise status is as under:-

S.No.	Name of State	No. of Districts	No. Of DEPs prepared
1.	Andaman & Nicobar	3	1
2.	Assam	34	30
3.	Andhra Pradesh	13	13
4.	Arunachal Pradesh	25	0
5.	Bihar	38	1
6.	Chandigarh	1	1
7.	Chhattisgarh	28	28
8.	DD & DNH	3	3
9.	Delhi	11	11
10.	Goa	2	2
11.	Gujarat	33	33
12.	Haryana	22	22
13.	Himachal Pradesh	12	12
14.	Jammu & Kashmir	20	12
15.	Jharkhand	24	22
16.	Karnataka	31	31
17.	Kerala	14	14

18.	Ladakh	2	2
19.	Lakshadweep	1	1
20.	Madhya Pradesh	52	52
21.	Maharashtra	36	36
22.	Manipur	16	16
23.	Meghalaya	11	6
24.	Mizoram	11	11
25.	Nagaland	12	1
26.	Odisha	30	30
27.	Pudducherry	4	4
28.	Punjab	22	22
29.	Rajasthan	33	33

Further, the DEPs have been uploaded on the websites of District Administration / State Boards.”

12. The way forward suggested in the report is as follows:-

“5. Way Forward

For every thematic area, Hon’ble NGT has passed directions wherein action points are mentioned for compliance in respective thematic area for compliance. These action points are continuous activity for different stakeholders wherein Hon’ble has also constituted individual Monitoring Committees for review on execution of these plans. Details of action points given by Hon’ble NGT is given in table given below.

S. No.	Issues	References	Orders of Hon’ble NGT	Status of NGT matter
(i)	Municipal Solid Waste (MSW)	OA 606/2018, order dated 30.11.2021 and respective orders of States/UTs	The matter OA 606/2018, arising out of directions of the Hon’ble Supreme Court in W.P. No. 888/1996 and W.P. No. 375/2012, is related to compliance of Municipal Solid Waste Management Rules, 2016 and other environmental issues. In the said matter the Tribunal has constituted Monitoring committees and directed personal presence of Chief Secretaries of all States/UTs to explore remedial action. In addition to this special task force in every district has been constituted for awareness of SWM Rules, 2016. CPCB has also filed action taken report with respect to compliance of SWM Rules by States/UTs. Based on reports of monitoring committee and CPCB, Hon’ble Tribunal vide order dated 30.11.2021 and 31.05.2022 directed that: <ul style="list-style-type: none"> Chief Secretaries shall continue the monitoring and interact with the Tribunal periodically by video conferencing as per schedule given in the order, with the status 	Matter is being dealt with separate States/UTs – The Chief Secretaries to monitor the progress as per schedule given by Hon’ble Tribunal

			<p>of compliance in respect of each of the States/UTs on the subject of Solid Waste Management and Sewage Management. The data to be furnished should cover all categories of areas in the State – big cities, towns and villages.</p> <ul style="list-style-type: none"> • All the States/CPCB may undertake process of verification of data after having interaction on video conferencing with the concerned States/ UTs within one month. • The Secretaries, Environment, Urban Development Department and Irrigation Department may also coordinate with the Member Secretaries of State Legal Services Authorities in all State/UTs for the awareness programmes on the subject. <p>If the engagement of Dr. A.B. Akolkar, former Member Secretary, CPCB has come to end, the CPCB may take further action in the matter to enable for continuation of coordination with the committee, as per direction.</p>	
(ii)	Plastic Waste Management (PWM)	EA No. 13/2019 in OA 247/2017 order dated 08.01.2021	<p>In the matter EA no. 13/219 in OA no. 247/2017, CPCB Vs State of Andaman & Nicobar & Ors. regarding implementation of Plastic Waste Management Rules, 2016 (PWM Rules), including Extended Producer Responsibility (EPR) in terms of Rule 9(4), CPCB has filed status of compliance to PWM Rules and action taken in the matter including EC regime and penal action. The matter was disposed of vide order dated 08.01.2021, wherein following has been directed by the Tribunal:</p> <ul style="list-style-type: none"> • MoEF may finalize EPR regime, preferably within 3 months. • The State level authorities also need to take necessary effective steps for enforcement, including coercive measures. • EC and penal action regime proposed by the CPCB may be duly implemented by the CPCB, State PCBs/PCCs, State Level Monitoring Committees and all other concerned authorities. • District Environment Committees constituted in pursuance of order of the Tribunal in matter OA 710/2017 may also monitor compliance of PWM Rules and give their respective reports to the State Level Committees. • The CPCB may continue to coordinate with the State Level 	Disposed of vide order dated 08.01.2021

			<p><i>Monitoring Committees, the State PCBs/PCCs or any other authorities with reference to the steps taken by the State Level Monitoring Committees in coordinating with the concerned Local Bodies, Gram Panchayats, Waste Generators, Producers, Importers, Brand Owners, Recyclers, Manufactures, Retailers and Street Vendors in accordance with the rules.</i></p> <p><i>Whenever, necessary CPCB may issue further directions from time to time in the light of experiences gained considering different suggestions and viewpoints, including the suggestions of the Oversight Committee for State of UP.</i></p>	
(iii)	Biomedical Waste	OA 710/2017 order dated 18.01.2021	<p><i>In the matter of OA 710/2017 with OA 711/2017, 712/2017 and 713/2017, on the subject of compliance of the Biomedical Waste Management Rules, 2016, CPCB has filed detailed report on status of compliance of Biomedical Waste Management Rules, 2016 in the country. In addition to that Oversight Committee constituted by Tribunal for environmental issues in the State of U.P., also submitted their recommendations. The matter is disposed of vide order dated 18.01.2021 wherein following orders has been passed:</i></p> <ul style="list-style-type: none"> <i>• Recycling of waste will only be through authorized recyclers.</i> <i>• Ensure that hazardous bio-medical waste is not mixed with the general waste.</i> <i>• CPCB needs to review the compliance status from time to time, atleast once in every quarter and issue directions based on the observations from the reports received.</i> <i>• CPCB may ensure that for strict compliance of the rules, the compensation regime is duly applied against the defaulters, following due process.</i> <i>• Standards of handling of BMW need to be duly complied. The authorities must ensure that waste is disposed of only through authorized agencies, common facilities are located as per siting guidelines and they must have EC.</i> <i>• There should be no pilferage by unauthorized recyclers.</i> <i>• Adequate number of common bio-medical facilities should be set up.</i> <i>• The Chief Secretaries may inter-</i> 	Disposed of vide order dated 18.01.2021

			<p>alia ensure that authorization is secured by every health care facility in their respective jurisdiction and also there is adherence to the norms.</p> <ul style="list-style-type: none"> ETPs are either not provided or are not functional in various health care facilities as required under the Rules. Compliance in this regard may be ensured in all States/UTs. While permitting deep burials, it may be ensured that ground water contamination does not take place. 	
(iv)	Hazardous Waste	OA 804/2017, order dated 29.01.2021	<p>The matter of OA 804/2017 filed by Rajiv Narayan & Anr. Vs Union of India & Ors., is on the subject of compliance of the Hazardous and Other Waste (Management and Transboundary Movement Rules, 2019). In the said matter monitoring committee was constituted by the Tribunal to oversee the status of compliance of HOWM Rules, import, export, contaminated site and worker's health. The monitoring committee has submitted its report along with recommendations, the same were accepted by Hon'ble Tribunal. CPCB has also filed a multiple detailed action taken reports on the same along with recommendations.</p> <p>The Tribunal vide order dated 29.07.2021 disposed of the said matter and directed that;</p> <ul style="list-style-type: none"> Observations/suggestions of the CPCB with reference to the compliance of HOWM Rules by the State PCBs/PCCs may now be duly complied expeditiously, which may be further overseen by the CPCB. The CPCB may assess compensation if the State PCBs/PCCs neglect compliance, following due process, which may be recovered and utilized for restoration of the environment, by preparing an action plan to be approved by the Chairman, CPCB. the MoEF&CC may follow up compliance of steps to be taken by the Central Ministries, for which purpose the CPCB may coordinate with the MoEF&CC. CPCB may impose compensation, if necessary, on the States/UTs which fail to set up TSDF or make other alternative arrangement for management of hazardous waste as per Rules. CPCB may also notify the contaminated sites, having 	Disposed of vide order dated 29.07.2021

			<p>potential for damage to the environment, in public domain, along with damage caused and the studies undertaken.</p> <ul style="list-style-type: none"> CPCB may also ensure that hazardous waste generators/recycles/operators of TSDF follow safety protocols, undertake periodical audits, have onsite and offsite emergency plans to avert accidents and fire and other environmental damage. 	
(v)	E-waste	OA 621/2018 and OA 512/2018 order dated 15.01.2021	<ul style="list-style-type: none"> The State PCB may ensure in setting up of TSDF and its operationalization CPCB guidelines are duly followed. The e-waste on the bank of River Ramganga may be duly shifted in an environmentally sound manner. Banks of river Ramganga should be cleaned and no deposition of e-waste/black powder observed. DPCC may continue further efforts in coordination with the concerned Authorities including Delhi Police and East Delhi Municipal Corporation. It is not enough for the DPCC to be content by simply giving directions to other statutory authorities instead of coordinating with them to ensure compliance. Dismantlers and recyclers may be located in the conforming areas and provided with proper infrastructure facilities. <p>All the State PCBs/PCCs need to identify the hotspots by constant vigil and to coordinate with the District Administration at local levels to prevent damage to the environment and public health and meaningful enforcement of rule of law. The E-waste needs to be shifted to the nearest TSDFs for safe disposal. Dismantlers and recyclers may be located in the conforming areas and provided with proper infrastructure facilities.</p>	Disposed of vide order dated 15.01.2021
(vi)	C&D Waste	---		
2	Sewage Treatment and Utilization	OA 593/2017, Order dated 21.09.2021 And 22.02.2021	<ul style="list-style-type: none"> Ministry of Jal Shakti may devise an appropriate mechanism for more effective monitoring of steps for control of pollution and rejuvenation of all polluted river stretches in the country. The said mechanism may be called "National River Rejuvenation Mechanism" (NRRM) or given any other suitable name. NRRM may also consider the observations with regard to setting up of National/State/ District Environment Data Grid at appropriate levels as an effective 	disposed of vide order dated 22.02.2021

			<p>monitoring strategy.</p> <ul style="list-style-type: none"> • Chief Secretaries of all States/UTs and PCBs/PCCs must work in mission mode for strict compliance of timelines for commencing new projects, completing ongoing projects and adopting interim phyto/bio-remediation measures, failing which compensation in terms of earlier orders be deposited with the MoJS, to be utilised in the respective States as per action plan to be approved by the NRRM. • Other steps in terms of action plans for abatement of pollution and rejuvenation of rivers, including preventing discharge or dumping of liquid and solid waste, maintaining flow, protecting floodplains, using treated sewage for secondary purposes, developing biodiversity parks, protecting water bodies, regulating ground water extraction, water conservation, maintaining water quality etc. be taken effectively. • The process of rejuvenation of rivers need not be confined to only 351 stretches but may be applicable to all small, medium and big polluted rivers, including those dried up. • The Chief Secretaries of all States/UTs may personally monitor progress at least once every month and the NRRM every quarter. • Directions of this Tribunal in earlier order, dated 21.9.2020 are reiterated (in said order several directions have been given to all States/UTs, Chief Secretaries of States/UTs, CMC, RRC, CPCB) • The NRRM and the Chief Secretaries of all the States/UTs may take into account the observations and earlier directions. <p>The MoJS or any other aggrieved person will be free to take remedies by way of initiating prosecution or execution.</p>	
3	Water Quality	OA 673/2018 order dated 21.09.2020 and 22.02.2021	Combined with OA 593/2017 in order dated 21.09.2021 and 22.02.2021. Order is same as above.	disposed of vide order dated 22.02.2021
		OA 325/2015, order dated 18.11.2020	The scope of matter OA 325/2015 is to identification, protection and restoration of water bodies in the entire country. The matter vide order dated 18.11.2020 is disposed of with following directions: <ul style="list-style-type: none"> • All States/UTs may forthwith designate anodal agency for 	disposed of vide order dated 18.11.2020

			<p>restoration of water bodies, wherever no such agency has so far been so designated.</p> <ul style="list-style-type: none"> • Under oversight of the Chief Secretaries of the States/UTs, the designated nodal agency may <ul style="list-style-type: none"> a) Hold its meeting not later than 31.1.2021 to take stock of the situation and plan further steps, including directions to District authorities for further course of action up to Panchayat levels and to evolve further monitoring mechanism as well as Grievance Redressal Mechanism (GRM). b) Submit periodical reports to the CPCB/Secretary Jal Shakti, Government of India. First such report may be furnished by 28.02.2021. • The Central Monitoring Committee for monitoring remediation of 351 polluted river stretches, headed by the Secretary, MoJS may monitor the steps for restoration of water bodies by all the States periodically, at least thrice in a year. First such monitoring may take place by 31.3.2021. <p>Any individual grievances may be first raised before the appropriate GRM or by moving the concerned District Magistrate which may be looked into on merits.</p>	
		<p>OA 829/2019, Order dated 21.09.2020</p>	<p>The matter OA 829/2019 is related to issue of coastal pollution on account of discharge of untreated effluents/sewage. The matter was disposed of vide order dated 21.09.2020 with the following directions:</p> <ul style="list-style-type: none"> • Coastal pollution needs to be dealt with in the same manner as polluted river stretches by preparing action plans of each States/UTs which may also be monitored by the Central Monitoring Committee (CMC) simultaneously with the 351 polluted river stretches and the said subject may also be covered in the next report of the CMC. • The CMC is to be headed by the Secretary, Ministry of Jal Shakti and assisted by the CPCB and NMCG and at the States/UTs level, the Chief Secretaries have to monitor the compliance status and give reports to and interact with the 	<p>disposed of vide order dated 21.09.2020</p>

			<p>CMC.</p> <ul style="list-style-type: none"> The matter was further reviewed and disposed of with the matter OA 593/2017 with OA 673/2018. 	
		<p>OA 496/2016, order dated 22.01.2021 OA 176/2015, order dated 20.07.2020</p>	<p>The matter OA 496/2016 was considered for water management in Delhi, including rain water harvesting, revival of water bodies, use of treated water and control of illegal extraction of ground water, problem of contamination of ground water. The matter was disposed of vide order dated 22.1.2021 directing that:</p> <ul style="list-style-type: none"> As per orders in the matter OA 593/2017 and 673/2018, issue of restoration of waterbodies, use of treated water for secondary purposes, installation of RWH systems and control of illegal extraction of groundwater being part of the water management may be dealt with in a holistic manner at the District level, State level as well as National level by the designated authorities for the purpose at periodical intervals and final consolidated reports may be furnished by the CMC to the Tribunal. the Chief Secretary, Delhi may in coordination with the concerned authorities, including the Delhi Jal Board and the Delhi Development Authority take further action on the subject of restoration of waterbodies, installation of RWH systems, utilisation of treated sewage water, extraction of ground water and prevention of contamination of water in the light of the earlier orders. the matter is monitored by the River Rejuvenation Committee (RRC) at least once a month and by the Chief Secretary at least once in every three months. The periodical reports of the steps taken may be furnished to the Secretary, MoWR who is chairing the CMC for rejuvenation of polluted rivers and water bodies including component of rain water harvesting of such rejuvenation. the Delhi Government and all other States/ UTs as well as the CMC may explore whether a model can be developed as a strategy for augmenting supply of drinking water by linking water collected through RWH systems to the water supply systems on the pattern of schemes for connecting solar energy generated in individual houses with the Grids with requisite incentives to motivate the concerned 	<p>disposed of vide order dated 22.1.2021</p>

			individuals/organizations.	
4	Industrial Pollution Control	OA 593/2017, order dated 21.09.2020 and 22.02.2021 OA 639/2018, order dated 23.03.2021	The matter OA 639/2018 is for consideration for revision of existing monitoring mechanism to oversee compliance of environmental norms by the State PCBs, including duration for mandatory inspections of 'highly polluting 17 category', 'red', 'orange' and 'green' category industries and policy of auto renewals of Consent to Operate under the Water (Prevention and Control of Pollution) Act, 1974 as well as the Air (Prevention and Control of Pollution) Act, 1981. The matter was disposed of vide order dated 23.03.2021 directing MoEF&CC, MoJS, MoUD, GoI, CPCB, Chief Secretaries and State PCBs/PCCs and SEIAAs of all States/UTs. to take steps as per direction of Tribunal vide order dated 05.02.2021 in OA 95/2018.	disposed of vide order dated 23.03.2021
5	Air Quality Management and Noise Pollution	OA 681/2018, order dated 08.04.2021 OA 519/2016, (related to noise pollution in Delhi) order dated 11.08.2020	<p>sites and effective steps for management of other waste, including biomedical, plastic and e-waste, dust control, public awareness and community involvement programmes and setting up of data grids on all levels. NTF may also evolve and oversee parameters for inter-se ranking of success of remedial action for 124 NACs and other air polluted areas where air quality is poor and above. Further, accountability for failures and incentives for success also needs to be monitored. NTF is free to take up any other incidental issues.</p> <ul style="list-style-type: none"> • Consistent with Digital India initiatives, MoEF&CC/ CPCB may consider setting up and periodically updating National Environment Data Grid (NEDG) linked to the State Environment Data Grids (SEDGs) and District Environment Data Grids (DEDGs) and further linked to available portals like online air quality, Sameer and other monitoring stations to facilitate analysis, research and planning on the subject. It may be further interlinked to National Air Quality Monitoring Programme (NAMP). • Based on above data, the MoEF&CC may lay down guidelines for classifying cities/districts in terms of air quality in different categories such as 'red', 'orange' and 'green'. On that basis, a National Air Quality Atlas may be compiled and published on the websites of MoEF&CC, CPCB and State PCBs/PCCs 	disposed of vide order dated 08.04.2021

			<p>annually.</p> <ul style="list-style-type: none"> The Chief Secretaries of all States/UTs may continue to monitor progress in execution of action plans at State level with the assistance of monitoring cells in their offices and the AQMCs. The State level monitoring must include action at the ground as per directions to be implemented by the District Magistrates or other concerned departments. The monitoring may include all associated issues, including road dust control by appropriate sprinkling of water (utilizing treated water, instead of potable water), planting herbs and shrubs, and all sources of pollution, including fire crackers. The issue of noise pollution also needs to be addressed, as earlier direction. 	
6	Sand Mining	OA 360/2015, order dated 26.02.2021	<p>The matter OA 360/2015 is related to updation of enforcement and monitoring mechanism to control and regulate illegal sand mining (including riverbed sand mining). CPCB has filed reports in this matter. The matter was disposed of vide order dated 26.02.2021, wherein following directions have been passed accepting CPCB's report:</p> <ul style="list-style-type: none"> The scale of compensation calculated with reference to approach II (as per CPCB report) be adopted by all the States/UTs. Though compensation assessment for damage to the environment is a dynamic concept, depending on variables, floor level formula can be worked out to avoid arbitrariness inherent in unguided discretion. The CPCB may issue an appropriate statutory direction for the facility of monitoring and compliance to the Environment Secretaries of all the States/UTs who may forthwith evolve an appropriate mechanism for assessment and recovery of compensation in all Districts of the State. The recovered compensation may be kept in a separate account and utilized for restoration of environment by preparing an appropriate action plan under the directions of the Environment Secretary with the assistance of such individual/institutions as may be considered necessary. In the Central Government, the concerned authorities include Mining Ministry, Environment Ministry, Jalshakti Ministry and CPCB. In States, 	disposed of vide order dated 26.02.2021

			<p>Departments of Mining, Environment, SEIAA, PCB and District Magistrates, may act as enforcement authorities and may interact to tackle such situations.</p> <ul style="list-style-type: none"> • All the States/UTs to strictly follow the Sustainable Sand Mining and Management Guidelines-2016 read with Enforcement and Monitoring Guidelines for Sand Mining-2020 reinforced by mechanism for preparation of District Survey Reports Environment Management Plans, replenishment studies, mine closure plans, grant of EC, assessment and recovery of compensation, seizure and release of vehicles involved in illegal mining, other safeguards against violations, grievance redressal, accountability of the designated officers and periodical review at higher levels. • periodic inspection be conducted by a five- members Committee, headed and coordinated by the SEIAA and comprising CPCB (wherever it has regional office), StatePCB and two expert members of SEAC dealing with the subject. Where CPCB regional office is not available, if MoEF&CC regional office is available, its Regional Officer will be included in the Committee. Where neither CPCB nor MoEF&CC regional office exists, Chairman, SEIAA will tie up with the nearest institution of repute such as IIT to nominate an expert for being included in the Committee. • Such inspection must be conducted at least thrice for each lease i.e. after expiry of 25% of the lease period, then after 50% of the period and finally six months before expiry of the lease period for midway correction and assessment of damage, if any. • The reports of such inspections be acted upon and placed on website of the SEIAA. Every lessee, undertaking mining, must have an environment professional to facilitate sustainable mining in terms of the mining plan and environmental norms. This be overseen by the SEIAA. • Environment Departments may also develop an appropriate mobile App for receiving and redressing the grievances against the sand mining, including connivance of the authorities and also a 	
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			<p><i>mechanism to fix accountability of the concerned officers.</i></p> <ul style="list-style-type: none"> • <i>The mechanism must provide for review at the level of the Chief Secretary at least once in every quarter, in a meeting with all concerned Departments in the State.</i> • <i>The Chief Secretary UP may ensure further action in the light of the report of the Oversight Committee.</i> • <i>Similarly, at National level, such review needs to be conducted atleast once in a year by the Secretary, Environment in coordination with the Secretaries Mining and Jalshakti Ministries the CPCB.</i> • <i>the Secretary MoEF to convene a meeting in coordination with the CPCB and Mining and Jalshakti Ministries of Central Government and such other experts/individuals at National level and representatives of States within three months for interaction on the subject which may be followed by such meetings being convened by the Chief Secretaries in all States in next three months. Holding of such meetings will provide clarity on enforcement strategies and help protection of environment.</i> 	
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It is humbly submitted that task of preparation of District Environment Plan and its monitoring as directed by Hon'ble National Green Tribunal has been taken up by most of the Districts. The State Environment Plan is still under the process of preparation in many States and Union Territories, for which State Governments are required to integrate District Environmental Plan while preparing the State Plan. The districts may require adequate budgetary allocation for implementation of District Environment Plans.”

13. We have considered the reports. We are satisfied that further action needs to be taken by the concerned States/UTs in the light of observations and recommendations in the above report. It is well known that there is urgent need for upgrading environmental standards in the country – air, water and land in the interest of public health and in the light of Constitutional goal and mandate. This is not possible without planning. Planning should be at all levels – Districts, States as well as national. This

has to be part of ongoing exercise for discharge of State's Constitutional obligation for providing pollution free environment and protection of natural environmental resources under public trust doctrine in the light of applicable statutory regime and earlier orders of the Tribunal. The District Environment plans must contain all relevant data on different thematic subjects, covering each city, town and village, with identified gaps in compliances and set out plan for remedial action in measurable terms with requisite budgetary support to meet estimated cost. It must provide for grievance redressal mechanism with review at higher levels. This can be basis for planning at higher level and also enable monitoring and measurement of progress with reference to baseline data. On that basis there can be further policy making and planning. One of the steps is to identify vulnerable districts with respect to specific environmental issues like sand mining, industrial pollution, stone crushers/brick kilns and mining, ground water depletion etc. so as to give due attention to monitor them. The plans may provide for awarding appreciation to best/ model districts/areas which may be then replicated at other places. Plans may also provide for taking on board civil society and creating awareness through educational, social and charitable institutions, including in coordination with Legal Services Authorities. The District Plans as on 31st December of the year must be finalized with respect to remaining 98 districts expeditiously, preferably within three months. CPCB may follow up with concerned States. Progress in implementation of the plan be placed on website by 31st January every year. Likewise, State Environment Plan, taking into account District Environment Plans or any other relevant data may be finalized by 28th February every year and placed on respective State websites. The CPCB may thereafter in coordination with any other Ministry or authority prepare a consolidated plan based on State Environmental Plans by 31st March every year and place the same on its website.

Consolidated national plan may also be filed with the Registrar General of this Tribunal by April 30 every year. If found necessary, the same be placed for consideration before the Bench. Let District, State and National Environmental plans be prepared and updated accordingly on continuous basis annually. Subject to such plans being considered as and when necessary and any grievance being separately considered, the application is disposed of.

A copy of this order be forwarded to all District Magistrates, Chief Secretaries, State PCBs, Divisional Forest Officers, Superintendents of Police, State Legal Services Authorities, CPCB and MoEF&CC by email for compliance. State PCBs may further circulate copies of this order to any other concerned departments/authorities. CPCB may circulate to concerned Departments in Central Government who may prepare their respective plans for upgradation of environment concerning their Department/Ministry.

Adarsh Kumar Goel, CP

Sudhir Agarwal, JM

Prof. A. Senthil Vel, EM

January 17, 2023
Original Application No. 360/2018
(SLP (Civil) No. 2959/2014)
AB+AVT