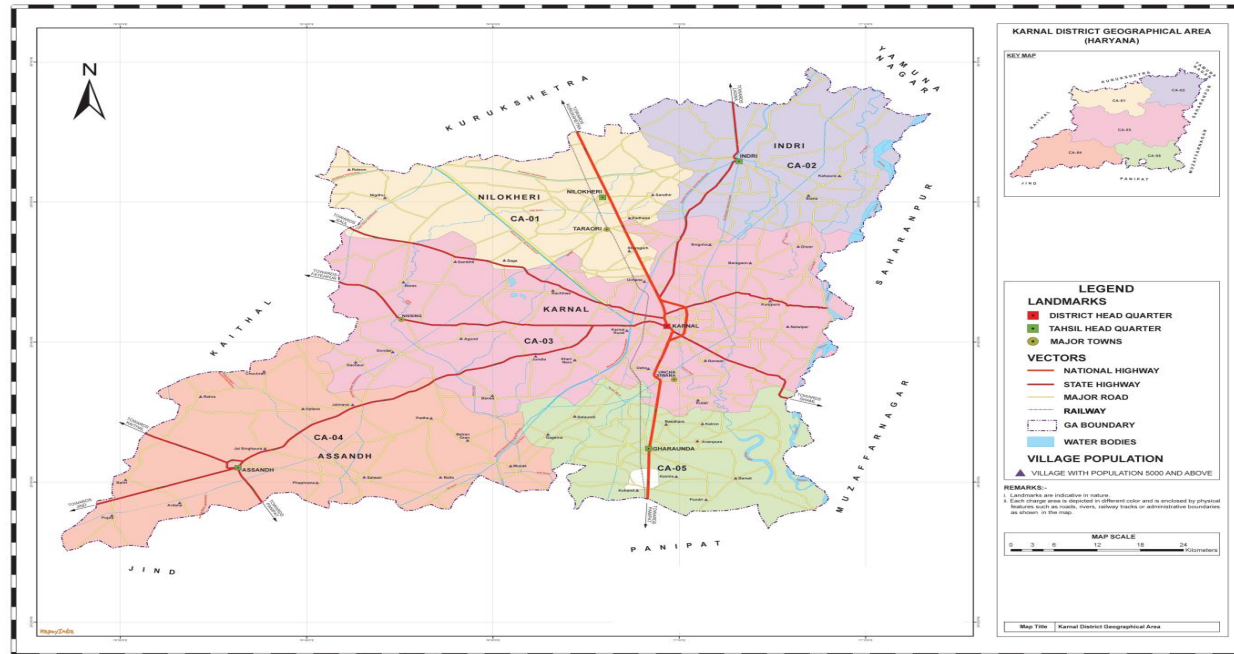


DISTRICT ENVIRONMENT PLAN DISTRICT KARNAL (HARYANA)



**OFFICE OF DISTRICT ADMINISTRATION
DISTRICT COLLECTOR, KARNAL
OFFICE ADDRESS: SECTOR 12,
KARNAL, HARYANA 132001**

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Introduction:-

District Profile:

Karnal is an agricultural-industrial district in the north-central part of Haryana. It is said to be founded by Raja Karna, who was one of the central figures in the epic Mahabharata. The name Karnal comes from Karnalaya, where alaya means abode. Mahabharata's conception is rooted in the names of most of Haryana's districts. This not only means that the Mahabharata's consciousness is rooted in the very social fabric of the people here, but also that the region is a fascinating location to study the epic. Karnal is no exception indeed. Present day Karnal however, offers an imagery of lush fields, Basmati, industrial landscape, educated service class, and a quiet and peaceful city. It has become synonymous with the National Highway 44 (NH-44), which is popularly known as GT Karnal Road (Grand Trunk Karnal Road). Lying midway between Delhi and Chandigarh, modern day Karnal is imbued with the culture of both the cities. Even though the city has witnessed changing political centers, much of its soul has remained unchanged. It is bordered by Kurukshetra (northwest), Jind and Kaithal (west) and Panipat (south). On the east, it is separated from Uttar Pradesh through the Yamuna, which also forms a natural border between the two states. Karnal has become a mature district after independence.

a. District Administrative set-up:

Karnal has four sub-divisions, Karnal, Indri, Assandh and Gharaunda, which contain five tehsils: Indri, Nilokheri, Karnal, Assandh and Gharaunda. The district has eight blocks: Karnal, Indri, Nilokheri, Nissing, Assandh, Gharaunda, Kunjpura and Munak.

Sub-Division	Tehsils	Sub-Tehsils	Blocks	Area of blocks(sq.km)
1.Karnal	1.Karnal	1.Nissing	1.Gharaunda	362.8
2.Assandh	2.Assandh	2.Ballah	2.Indri	330.4
3.Indri	3.Nilokheri	3.Nigdhu	3.Karnal	437.6
4.Gharaunda	4.Indri		4.Nilokheri	341.0
	5.Gharaunda		5.Nissing	354.4
			6.Assandh	469.9
			7.Kunjpura	
			8. Munak	

b. Local Institutions:

Area	2,520 Sq Km
Population	17,61,445 no.
Literacy Rate	74.73%
No. of Sub Division	4
No. of Tehsils	5
No. of Sub Tehsils	3
No. of Municipal Corporation	1
No. of Municipalities	6
No. of Blocks	8
No. of Gram Panchayats	394
No. of Villages	435

c. Natural Resources:

Water bodies and availability of water resources:

The district is a part of the Indus-Ganges plain (Upper Yamuna Basin) and has a well-spread network of western Yamuna canals. Its geographical area has been divided into three agro climatic regions: Khadar, Bangar and Nardak belt. The river Yamuna which marks the eastern boundary of the Haryana State as well as Karnal district provides the major drainage in the area. Irrigation in the district is done by surface water as well as ground water. 70% of the net irrigated area is covered through ground water. The area falls in the Upper Yamuna Basin and the principal ground water reservoir in the area is unconsolidated alluvial deposits of Quaternary age. Ground water in near surface zone occurs under water table conditions and occurs under semi confined to confined conditions in deeper aquifers. Rain fall and seepage from the river Yamuna, canal networks and irrigation is the principal source of ground water recharge in the area. Ground Water Resources estimation of the district was done in 2009 for each individual block. Perusal of the Estimates reveals overall stage of ground water development in the district is of the order of 140%. The present stage of block wise ground water development varies from 109 % (Indri) to 176 % (Assandh). The ground water development in all the blocks of the district has exceeded the available recharge and thus all the blocks have been categorized as over exploited. Net annual ground water availability of the district is 85905 hams and existing gross ground water draft for all users is 120143 ham.

Forest Coverage:

District Karnal have mainly Tropical dry deciduous type forest spreading on 7800 ha land. Average rainfall is recorded 500 mm. Out of total forest land, 390.83 ha is covered by reserve forest comprising of 05 blocks namely Shekhpua 64.50 ha, Badagaon 85 ha, Kheda Kandi 104 ha, Badi 108 ha and Ukela 45 ha blocks. Protected forest covers around 7400 ha land alongside canals 4677 ha, roads 2160 ha, railway track 263 ha and bundh 111 ha.

Total no of plantation in District Karnal by Forest Department (May2021 to July 2021)

Sr. No.	District	GREENING	Total
1.	Karnal	Additional number of saplings planted during the period under report	367329
2.	Karnal	Number of trees permitted to cut/fell during the period under report	651
3.	Karnal	Number of trees cut/felled during the period under report	8364
4.	Karnal	Central verges of roads greened during the period under report (in kms)	50
5.	Karnal	Greening of unpaved Areas along roadside during the period under report (in sq. kms.)	200

d. ~~Geography & Demography:~~

Description	Current Status
Population	1761445
Male	917,712
Female	843733
Population Growth	18.14%
Area Sq. Km	2,520
Density/km2	597
Proportion to Haryana Population	5.94%
Sex Ratio (Per 1000)	887
Child Sex Ratio (0-6 Age)	824
Average Literacy	74.73
Male Literacy	81.82
Female Literacy	66.82
Literates	978,013
Male Literates	564,516
Female Literates	413,497

i. Major Physiographic Units Alluvium

ii. Major Drainage Yamuna River

The city is located at 29.68°N 76.98°E, making it lie almost on the vertical line passing midway through India. With an elevation of 240 meters above sea level, it lies a little higher than Delhi. The district looks like a distorted parallelogram, with an area of 2,471 sq. km. making it the eighth largest district in Haryana. Geologically, the district is a part of the Indo-Gangetic plains and is irrigated by a network of Yamuna canals. The three agro-climatic regions coexisting in Karnal are Khadar, Bangar and Narḍak. Khadar regions are low-lying river plains lying next to the river. This is a region prone to flooding and forms the margin of the river's course-change. Naturally, this area contains very fertile soil. Bangar lies next to Khadar, which is less fertile but also less prone to flooding. Narḍak region lies beyond, with saline water, which is not fit for irrigation. Hence, in Karnal, the region lying between the Yamuna and NH-44 is Khadar, followed by Bangar (Gharaunda), westward. Assandh, Nilokheri and Nissing are part of Narḍak region.

e. Land-use of District Karnal:

S. No.	Type of Land	Area (Sq.Km)
1	Forest Area	76
2	Net area sown	2000
3	Cultivable Area	2100
4	Area Under Principal Crops	399000 ha

Major Soil Types: Clayey Loam, Sandy loam

Irrigation by different sources:

S. No	Source of Irrigation	Area of land irrigated
1	Tubewells / Borewells	1650 sq.km, 41973 nos.
2	Canals	350 sq.km
3	Net Irrigated Area	2000 sq.km
4	Gross Irrigated Area	3900 sq.km

Status of Micro Irrigation Project

The above said project is being proposed for three major benefits i.e. Micro Irrigation, ground water recharge and waste water management. BC ratio of this project work out to be 1.672:1 by considering benefit Irrigation alone, thus this project is fit for execution. This is mainly TWW Micro Irrigation project use of TWW and efficient irrigation by Micro Irrigation makes this project innovative. This project adds to the depletion of the ground water resources of the area. Thus, it is all the more necessary that even the treated sewage water should not be allowed to flow to the river Yamuna. This project will stop treated water of this STP from flowing to the river Yamuna. The upcoming 50 MLD STP of Municipal Corporation, Karnal will have treatment capacity of 50 MLD. Haryana Govt. has notified TWW use policy in 2019 vide which 25% of the TWW is mandatory for using in the Municipal limit itself. Thus, the present project has been planned for 75% of 50 MLD i.e. for 37.5 MLD only. This project will provide Micro Irrigation in 11 villages where presently there is no canal irrigation.

The tender of the work was called vide Executive Engineer, Indri W/S Division, Karnal letter No. 2556/33-A dated 08.04.2021 for which the closing date of the tender was 17.05.2021. But no tender received in Division office from any agency. The tender of the work recalled vide Executive Engineer, Indri W/S Division, Karnal letter No. 3498/33A dated 21.05.2021 for which the closing date of the tender is 21.06.2021. Some agencies were contacted but they want some amendments in bid documents. Now the tender has been recalled on dated 16.07.2021 and will be open on dated 17.08.2021(for reuse of treated STP effluent) – Irrigation Department.

f. Climate:

The climate of the district is characterized by the dryness of the air with an intensely hot summer and a cold winter. The year may be divided in to four seasons. The cold season starts by late November and extends to the middle of March. It is followed by hot season which continues to the end of June when the southwest monsoon arrives over the district. July to September is the southwest monsoon season. The post monsoon season period is from October to December. The normal annual rainfall of the district is 582mm recorded in 32 rainy days in a year. About 82.39% of the annual rainfall is recorded during the southwest monsoon from July to September. August is the wettest month of the year with an average of 9.0 rainy days and 221.5 mm rainfall. Maximum rainfall of 1404mm and minimum rainfall of 255mm were observed in the years 1998 and 1987 respectively.

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

(i) Solid Waste Management

a. Current status related to solid Waste management

Preamble:

The Ministry of Environment, Forest and Climate Change, Government of India has notified the Solid Waste Management Rules, 2016. As per the Rules, the role of local body has been specified as per Rule 15 of Solid Waste Management Rules, 2016 and as per Rule 16 of the said Rules, Haryana State Pollution Control Board shall enforce these Rules through local bodies.

With respect to effective implementation of Solid Waste Management Rules, 2016, Hon'ble NGT had laid down several orders, of which, Hon'ble National Green Tribunal, Principal Bench on 22nd December 2016 has passed judgment in Original Application No.199 of 2014 filed by Mrs. Almitra Patel with regard to solid waste management. Further, for effective implementation of the said Rules, the Hon'ble NGT in its orders dated 31.08.2018 had constituted Apex Committee, Regional Committee and State Committee.

Solid Wastes generation in Karnal District:

In Karnal District, there are 1 Corporation, 6 Municipalities, 8 Town Panchayats and 14 Panchayat Unions. The population of District Karnal is 1761445. The solid waste generated from the said local bodies is being collected. The wet solid waste is either composted or micro composted. The plastic waste is collected and the inert material is disposed in the landfill sites.

As per Hon'ble NGT order dated 15.07.2019 in O.A. No. 710-713/2017, the detailed guidelines to be followed in respect of Solid Waste Management Rules, 2016 are illustrated below -

Sr. No.	Urban Local bodies	No of Wards	No of Households	Population	Solid Waste Generated per day
1	Municipal corporation Karnal	20	77962	410000	180TPD
2	Municipal Committee Assandh	15	5081	27125	10
	Municipal Committee Gharounda	17	8503	37871	19
	Municipal Committee Nissing	13	4446	17438	6.5
	Municipal Committee Nilokhedi	13	4580	17938	7.5
	Municipal Committee Taraouri	15	5754	25944	12.5
	Municipal Committee Indri	13	3278	17487	8.51
Total					244.01 TPD

Sr. No.	Local Bodies	No of Village panchayats / Blocks	No of House holds	Population	Solid Waste Generated per day
3	Block/Taluka/ Mandal/Tehsils/ Village/Gram Panchayats	394	222226	1207642	210
Total					454.01 TPD

b. Identification of gaps and Action plan:

1. Segregation

S. No.	Action points For villages /blocks/ town municipalities / City corporations	Responsible agencies	identification of gap Action Plan								Timeline for completion of action plan
			MC Karnal	MC Nilokheri	MC Nissing	MC Taraori	MC Assandh	MC Indri	MC Gharaunda	DDPO	
(i)	Segregation of waste at source	. •ULB •DDPO	• Yes 100 %, Target Achieved	• Yes 100 %, Target Achieved	• Yes 100 %, Target Achieved,	• Yes 100 %, Target Achieved,	• Yes 100 %, Target Achieved,	• Yes 100 %, Target Achieved,	• Yes 100 %, Target Achieved,	No - 10.75% achieved Target – date31.03.2022	Target date for DDPO is 31.03.2022.

2. Sweeping

Sr No.	Action points For villages /blocks/ town municipalities / City corporations	Responsible agencies	identification of gap & Action Plan								Timeline for completion of action plan
			MC Karnal	MC Nilokheri	MC Nissing	MC Taraori	MC Assandh	MC Indri	MC Gharau nda	DDPO	
(i)	Manual Sweeping	<ul style="list-style-type: none"> •ULB •DDPO 	Manual Sweeping done regularly in all wards.	Manual Sweeping done regularly in all wards	Manual Sweeping done regularly in all wards	Manual Sweeping done regularly in all wards	Manual Sweeping done regularly in all wards	Manual Sweeping done regularly in all wards	Manual Sweeping done regularly in all wards	regular sweeping by village Safai karamcharies	The sweeping in residential area will be carried out twice in a day time, whereas in commercial areas sweeping will be carried out twice in a day time and once in night time. Target date for said is 31.03.2022
(ii)	Mechanical Road Sweeping & Collection	<ul style="list-style-type: none"> •ULB •DDPO 	MC Karnal-01 sweeping machine has been deployed by MC Karnal for Mechanical Road Sweeping	Manual Sweeping done regularly in all wards	Manual Sweeping done regularly in all wards	Manual Sweeping done regularly in all wards	Manual Sweeping done regularly in all wards	Manual Sweeping done regularly in all wards	Manual Sweeping done regularly in all wards	regular sweeping by village Safai karamcharies	The sweeping in residential area will be carried out twice in a day time, whereas in commercial areas sweeping will be carried out twice in a day time and once in night

											time. Target date for said is 31.03.2022
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3. Waste Collection

Sr. No.	Action points For villages /blocks/ town municipalities / City corporations	Responsible agencies	identification of gap & Action Plan								Timeline for completion of action plan
			MC Karnal	MC Nilokheri	MC Nissing	MC Taraori	MC Assandh	MC Indri	MC Gharaunda	DDPO	
(i)	100% collection of solid waste	<ul style="list-style-type: none"> •ULB •DDPO 	Yes , 100 % Target Achieved (Total Solid Waste generated is 180 TPD)	Yes , 100 % Target Achieved (Total Solid Waste generated is 7.5 TPD)	100 % Target Achieved (Total Solid Waste generated is 10 TPD)	Yes , 100 % Target Achieved (Total Solid Waste generated is 12.5 TPD)	100 % Target Achieved (Total Solid Waste generated is 10 TPD)	Yes , 100 % Target Achieved (Total Solid Waste generated is 8.51 TPD)	100 % Target Achieved (Total Solid Waste generated is 22.5 TPD)	No - 10.75% achieved Target – date31.03.2022 (Total Solid Waste generated is 210 TPD)	100 % Target Achieved by all MC's & Target date for DDPO is 31.03.2022
(ii)	Arrangement for door to door collection	<ul style="list-style-type: none"> •ULB •DDPO 	<ul style="list-style-type: none"> •Yes, Private Agency is Hired for waste Collection from Door to Door Collection •Yes , 100 % Collection 	100% door to door collection done	100% door to door collection done	100% door to door collection done	100% door to door collection done	100% door to door collection done	100% door to door collection done	No - 10.75% achieved Target – date31.03.2022	100 % Target Achieved by all MC's & Target date for DDPO is 31.03.2022

			Target Achieved in all Wards No Gap									
(iii)	Waste Collection trolleys with separate compartments	•ULB •DDPO	35 Tractor trolley with separate compartments & are adequate. The GPS system has to be provided. Target date is 31.03.2022.	2 Tractor Trolley with separate compartments & are adequate . The GPS system has to be provided. Target date is 31.03.2022.	2 Tractor Trolley with separate compartments & are adequate. The GPS system has to be provided. Target date is 31.03.2022.	02 Tractor Trolley with separate compartments & are adequate. The GPS system has to be provided. Target date is 31.03.2022.	2 Tractor Trolley with separate compartments & are adequate. The GPS system has to be provided. Target date is 31.03.2022.	2 No. Tractor Trolley with separate compartments & are adequate. The GPS system has to be provided. Target date is 31.03.2022.	2 Tractor Trolley with separate compartment & are adequate. The GPS system has to be provided. Target date is 31.03.2022.	470 tricycles are available with separate compartments & are adequate. 630 vehicles are required. The GPS system has to be provided. Target date is 31.03.2022	Target date is 31.03.2022	
(iv)	Mini Collection Trucks with separate compartments	•ULB •DDPO	288 (All tipper, tricycle & tractor trolley are compartmentalized . The GPS system has to be provided. Target date is 31.03.2022.	4 Mini Collection Trucks with separate compartments. The GPS system has to be provided. Target date	5 motorized with separate compartments & 15 tricycles . The GPS system has to be provided. Target date	21 No. of compartmentalized vehicles. The GPS system has to be provided. Target date is 31. 03.2022	6 (1 Refuse Compactor) with separate compartment . The GPS system has to be provided. Target date is 31. 03.2022	6 no. (4 No. Tata Ace 2 No. Tractor Trolley) with separate compartments. The GPS system has to be	18 with separate compartment . The GPS system has to be provided. Target date is 31. 03.2022	124 no. with separate compartments & 346 are required. The GPS system has to be provided. Target date	Target date is 31.03.2022	

				date is 31.03.2022.	is 31.03.2022			provided. Target date is 31.03.2022		is 31.03.2022	
(V)	Waste Deposition centres (for domestic hazardous wastes)	•ULB •DDPO	Yes, Partition done for Domestic Hazardous waste in Material Recovery Facility. The Hazardous waste will be sent to common Hazardous waste facility on quarterly basis. The target date is 31.03.2022	Partition done for Domestic Hazardous waste in Material Recovery Facility. The Hazardous waste will be sent to common Hazardous waste facility on quarterly basis. The target date is 31.03.2022	Partition done for Domestic Hazardous waste in Material Recovery Facility. The Hazardous waste will be sent to common Hazardous waste facility on quarterly basis. The target date is 31.03.2022	Partition done for Domestic Hazardous waste in Material Recovery Facility. The Hazardous waste will be sent to common Hazardous waste facility on quarterly basis. The target date is 31.03.2022	Partition done for Domestic Hazardous waste in Material Recovery Facility. The Hazardous waste will be sent to common Hazardous waste facility on quarterly basis. The target date is 31.03.2022	Partition done for Domestic Hazardous waste in Material Recovery Facility. The Hazardous waste will be sent to common Hazardous waste facility on quarterly basis. The target date is 31.03.2022	Partition done for Domestic Hazardous waste in Material Recovery Facility. The Hazardous waste will be sent to common Hazardous waste facility on quarterly basis. The target date is 31.03.2022	The Hazardous waste will be sent to common Hazardous waste facility on quarterly basis. The target date is 31.03.2022	Target date is 31.03.2022

4. Waste Transport

Sr No.	Action points For villages /blocks/ town municipalities / City corporations	Respo nsible agenci es	identification of gap & Action Plan								Timeline for completion of action plan
			MC Karnal	MC Nilokheri	MC Nissing	MC Taraori	MC Assandh	MC Indri	MC Gharau nda	DDPO	
(i)	Review existing infrastructure re for waste Transport.	•ULB •DDPO	For primary collection: 88 Tippers owned by MC karnal, 235 Tricycles. Secondary collection: 35 Tractor trolley, 06 No. dumper placer, 04 No. refuse compactors.	4 (2 Tractor Trolley) 2 Tricycles	5 motorized , 15 tricycles	18	7	6 no. (4 No. Tata Ace 2 No. Tractor Trolley)	8 Motorized 10 Rickshaw	470 tricycles are available & 630 vehicles are required. Target date is 31.03.2022	100 % Target Achieved by all MC's & Target date for DDPO is 31.03.2022
(ii)	Bulk Waste Truck	•ULB •DDPO	: 88 Tippers owned by MC karnal,.	Not required	Not required	Not required	Not required	Not required	Not require d	Nil Target date is 31.03.2022	100 % Target Achieved by all MC's & Target date for DDPO is 31.03.2022
(iii)	Waste Transfer points	•ULB •DDPO	<ul style="list-style-type: none"> 3 Nos of Waste Transfer points are available for bulk waste Yes, adequate Target Already achieved 	Not required	Not required	Not required	Not required	Not required	Not require d	Not required	100 % Target Achieved

5. Waste Treatment and Disposal

Sr. No.	Action points For villages /blocks/ town municipalities / City corporations	Responsible agencies	identification of gap & Action Plan								Timeline for completion of action plan
			MC Karnal	MC Nilokheri	MC Nissing	MC Taraori	MC Assandh	MC Indri	MC Gharaunda	DDPO	
(i)	Wet-waste Management: On-site composting by bulk waste generators (Authority may decide on requirements as per Rules)	ULB DDPO	<ul style="list-style-type: none"> • Yes, 22 Nos of bulk waste generators manage their waste by their self by converting wet waste in compost using mechanism & to Pig Farms • Already Done on site 	<ul style="list-style-type: none"> • Yes, 6 Nos of bulk waste generators identified in city which manage their waste by their self by converting wet waste in compost using compost pit mechanism & to Pig Farms. Already Done on site composting. . The MC 	<ul style="list-style-type: none"> • Yes, 14 Nos of bulk waste generators identified in city which manage their waste by their self by converting wet waste in compost using compost pit mechanism & to Pig Farms. Already Done on site 	<ul style="list-style-type: none"> • Yes, 4 Nos of bulk waste generators identified in city which manage their waste by their self by converting wet waste in compost using compost pit mechanism & to Pig Farms. Already Done on site composting. . The MC 	<ul style="list-style-type: none"> • Yes, 20 Nos of bulk waste generators identified in city which manage their waste by their self by converting wet waste in compost using compost pit mechanism & to Pig Farms. Already Done on site 	<ul style="list-style-type: none"> • Yes, 11 Nos of bulk waste generators identified in city which manage their waste by their self by converting wet waste in compost using compost pit mechanism & to Pig Farms. Already Done on site 	<ul style="list-style-type: none"> • Yes, 19 Nos of bulk waste generators identified in city which manage their waste by their self by converting wet waste in compost using compost pit mechanism & to Pig Farms. Already Done on site composting. . The MC 	<ul style="list-style-type: none"> . The DDPO will made agreement with Bulk waste generator . Target date is 31.03.2022 	Target date is 31.03.2022

			composting. The MC will made agreement with Bulk waste generator. Target date is 31.03.2022	will made agreement with Bulk waste generator. Target date is 31.03.2022	composting. The MC will made agreement with Bulk waste generator. Target date is 31.03.2022	will made agreement with Bulk waste generator. Target date is 31.03.2022	composting. The MC will made agreement with Bulk waste generator. Target date is 31.03.2022	composting. The MC will made agreement with Bulk waste generator. Target date is 31.03.2022	will made agreement with Bulk waste generator. Target date is 31.03.2022		
(ii)	Wet-waste Management: Facilities for central Biomethanation / Composting of wets waste.	ULB DDPO	<ul style="list-style-type: none"> • 4 Nos Composting Pits constructed for Wet Waste Management / No Biomethanation is wet waste system is available • Quantity of wet waste 	<ul style="list-style-type: none"> • 6Nos Composting Pits constructed for Wet Waste Management / No Biomethanation is wet waste system is available • Quantity of wet waste generated (in TPD) is 4.03. 	<ul style="list-style-type: none"> • 4 Nos Composting Pits constructed for Wet Waste Management / No Biomethanation is wet waste system is available • Quantity of wet waste generated (in TPD) is 5.9. 	<ul style="list-style-type: none"> • 10 Nos Composting Pits constructed for Wet Waste Management / No Biomethanation is wet waste system is available • Quantity of wet waste generated (in TPD) is 8.5. 	<ul style="list-style-type: none"> • 48 Nos Composting Pits constructed for Wet Waste Management / No Biomethanation is wet waste system is available • Quantity of wet waste generated (in TPD) is 6. 	<ul style="list-style-type: none"> • 27 Nos Composting Pits constructed for Wet Waste Management / No Biomethanation is wet waste system is available • Quantity of wet waste generated (in TPD) is 5.51. 	<ul style="list-style-type: none"> • 20 Nos Composting Pits constructed for Wet Waste Management / No Biomethanation is wet waste system is available. • Quantity of wet waste generated (in TPD) is 13. 	<ul style="list-style-type: none"> • 290 Nos Composting Pits constructed for Wet Waste Management / No Biomethanation is wet waste system is available. 	Target date is 31.03.2022

			<p>generated (in TPD) is 86.</p> <ul style="list-style-type: none"> • Yes, Biomethanation facility to be installed for wet waste management <p>yet not initiated , Target date is 31.03.2022</p>	<ul style="list-style-type: none"> • Yes, Biomethanation facility to be installed for wet waste management <p>yet not initiated , Target date is 31.03.2022</p>	<ul style="list-style-type: none"> • Yes, Biomethanation facility to be installed for wet waste management <p>yet not initiated , Target date is 31.03.2022</p>	<ul style="list-style-type: none"> • Yes, Biomethanation facility to be installed for wet waste management <p>yet not initiated , Target date is 31.03.2022</p>	<ul style="list-style-type: none"> • Yes, Biomethanation facility to be installed for wet waste management <p>yet not initiated , Target date is 31.03.2022</p>	<ul style="list-style-type: none"> • Yes, Biomethanation facility to be installed for wet waste management <p>yet not initiated , Target date is 31.03.2022</p>	<ul style="list-style-type: none"> • Yes, Biomethanation facility to be installed for wet waste management <p>yet not initiated , Target date is 31.03.2022</p>	<ul style="list-style-type: none"> • Quantity of wet waste generated (in TPD) is 168. • Yes, Biomethanation facility to be installed for wet waste management <p>yet not initiated , Target date is 31.03.2022</p>	
(iii)	Dry-Waste Management: Material Recovery for dry-waste fraction	ULB DDPO	<p>Yes 3 No. MRF is available and in operation. Quantity of dry waste generated is 94 TPD.</p>	<p>01 MRF Centre is installed on Site. Quantity of dry waste generated is 3.47 TPD.</p>	<p>01 MRF Centre is installed on Site. Quantity of dry waste generated is 5 TPD.</p>	<p>01 MRF Centre is installed on Site. Quantity of dry waste generated is 8.5 TPD.</p>	<p>01 MRF Centre is installed on Site. Quantity of dry waste generated is 4 TPD.</p>	<p>01 MRF Centre is under construction . Target date is 31.03.2022. Quantity of dry waste generated is 3 TPD.</p>	<p>01 MRF Centre is installed on Site. Quantity of dry waste generated is 6 TPD.</p>	<p>58 MRF Centre is installed on Site & for remaining 278 no., the target date is 31.03.2022.</p>	<p>Target date for MC Indri & DDPO is 31.03.2022.</p>

										Quantity of dry waste generated is 42 TPD.	
(iv)	Disposal of inert and no recyclable wastes: Sanitary Landfill	ULB DDPO	<ul style="list-style-type: none"> • Yes, the plan for 01 no. site is in process, the tender work has been done and target date of completion is 31.03.2023. 	<ul style="list-style-type: none"> • The waste is dumping at dump site. • No Sanitary land fill site is available. • Plan for constructing sanitary land fills arrangement. Target date is 31.03.2023. 	<ul style="list-style-type: none"> • The waste is dumping at dump site. • No Sanitary land fill site is available. <p>Plan for constructing Sanitary land fill arrangement. Target date is 31.03.2023.</p>	<ul style="list-style-type: none"> • The waste is dumping at dump site. • No Sanitary land fill site is available. <p>Plan for constructing Sanitary land fill arrangement. Target date is 31.03.2023.</p>	<ul style="list-style-type: none"> • The waste is dumping at dump site. • No Sanitary land fill site is available. <p>Plan for constructing Sanitary land fill arrangement. Target date is 31.03.2023.</p>	<ul style="list-style-type: none"> • The waste is dumping at dump site. • No Sanitary land fill site is available. <p>Plan for constructing Sanitary land fill arrangement. Target date is 31.03.2023.</p>	<ul style="list-style-type: none"> • The waste is dumping at dump site. • No Sanitary land fill site is available. • Plan for constructing sanitary land fill arrangement. Target date is 31.03.2023. 	<ul style="list-style-type: none"> • The waste is dumping at dump site. • No Sanitary land fill site is available. • No Sanitary land fill site is available. <p>Plan for constructing Sanitary land fill arrangement. Target date is 31.03.2023.</p>	Target date is 31.03.2023.

(v)	Remediation of historic /legacy dumpsite	ULB DDPO	Dumping site at Vill: Shekhpura Merrut Road, Area- 8 Acre. Quantity of legacy waste dumped at the dumpsite 71400 (MT)	Dumping site at Kali Mata Mandir Road ward No.6 Nilokheri. Quantity of legacy waste dumped at the dumpsite 11000 (MT)	Near Mata Sundri Khalsa Girls College, Nissing Quantity of legacy waste dumped at the dumpsite 15000 (MT)	Near Power House, Nadana Road, Taraori (4 acre) Quantity of legacy waste dumped at the dumpsite 9000 (MT)	Near Sabji, Kanchi Gate Jind Road Assandh Quantity of legacy waste dumped at the dumpsite 15300 (MT)	All legacy waste dump on old dumping site near Indri bye pass road. Quantity of legacy waste dumped at the dumpsite 3000 (MT)	Dumping site at Village Bagampur Quantity of legacy waste dumped at the dumpsite 20236.96 (MT)	NA	The Target date for remedial is 31.03.2022.
(vi)	involvement of NGOs	ULB DDPO	Yes the campaign with the help of NGO to aware the citizens about solid waste mgt started and 15 no awareness activities conducted	Yes the campaign with the help of NGO to aware the citizens about solid waste mgt started and 6 no awareness activities conducted.	Yes the campaign with the help of NGO to aware the citizens about solid waste mgt started and 3 no awareness activities conducted.	Yes the campaign with the help of NGO to aware the citizens about solid waste mgt started and 4 no awareness activities conducted.	Yes the campaign with the help of NGO to aware the citizens about solid waste mgt started and 3 no awareness activities conducted.	Yes the campaign with the help of NGO to aware the citizens about solid waste mgt started and 3 no awareness activities conducted.	Yes the campaign with the help of NGO to aware the citizens about solid waste mgt started and 5 no awareness activities conducted.	Time to time conducted in each village of District Karnal through Swachata Doots, Motivators and Saksham Yuvas being conducted.	
(vii)	EPR of Producers: Linkage with	ULB DDPO	• Yes action plan for	• Yes action plan for linkage of	• Yes action plan for linkage of	• Yes action plan for linkage of	• Yes action plan for linkage of	• Yes action plan for linkage of	• Yes action plan for linkage of	• Yes action plan for	Target date is

	Producers / Brand Owners		linkage of producer/brand owner initiated. • Presently No ERP Producer is identified Identification of EPR producer/Brand owners is under process. Target date is 31.03.2022	producer/brand and owner initiated. Identification of EPR producer/Brand owners is under process. Target date is 31.03.2022	producer/brand owner initiated. Identification of EPR producer/Brand owners is under process. Target date is 31.03.2022	producer/brand and owner initiated. Identification of EPR producer/Brand owners is under process. Target date is 31.03.2022	producer/brand owner initiated. Identification of EPR producer/Brand owners is under process. Target date is 31.03.2022	producer/brand owner initiated. Identification of EPR producer/Brand owners is under process. Target date is 31.03.2022	producer/brand and owner initiated. Identification of EPR producer/Brand owners is under process. Target date is 31.03.2022	linkage of producer/brand owner initiated. Identification of EPR producer/Brand owners is under process. Target date is 31.03.2022	31.03.2022
(viii)	Authorisation of Waste Pickers	ULB DDPO	• Yes, 266 Rag Pickers are registered as per guide lines	• Yes, 14 Rag Pickers are registered as per guide lines • List of waste pickers	'Manual Segregation , by Agency itself.	• Yes, 4 Rag Pickers are registered as per guide lines • List of waste pickers	• Yes, 3 Rag Pickers are registered as per guide lines	• Yes, 2 Rag Pickers are registered as per guide lines	• Yes, 9 Rag Pickers are registered as per guide lines • List of waste pickers	NA, Target date for DDPO is 31.03.2022	Target date for DDPO is 31.03.2022

			<ul style="list-style-type: none"> List of waste pickers Already Prepared. 	Already Prepared.		Already Prepared.	<ul style="list-style-type: none"> List of waste pickers Already Prepared. 	<ul style="list-style-type: none"> List of waste pickers Already Prepared. 	Already Prepared.		
(ix)	Preparation of own by-laws to comply with SWM Rules 20L6	ULB DDPO	<ul style="list-style-type: none"> Yes , Bye Laws has been notified and published in Newspapers. 	<ul style="list-style-type: none"> Yes , Bye Laws has been notified and published in Newspapers. 	<ul style="list-style-type: none"> Yes , Bye Laws has been notified and published in Newspapers. 	<ul style="list-style-type: none"> Yes , Bye Laws has been notified and published in Newspapers. 	<ul style="list-style-type: none"> Yes , Bye Laws has been notified and published in Newspapers. 	<ul style="list-style-type: none"> Yes , Bye Laws has been notified and published in Newspapers. 	<ul style="list-style-type: none"> Yes , Bye Laws has been notified and published in Newspapers. 	NA, Target date for DDPO is 31.03.2022	Target date for DDPO is 31.03.2022
(X)	Number of compost pits provided for processing and management of Horticulture waste.	ULB DDPO	4 Number of compost pits provided for processing and management of Horticulture waste.	6 Number of compost pits provided for processing and management of Horticulture waste.	4 Number of compost pits provided for processing and management of Horticulture waste.	10 Number of compost pits provided for processing and management of Horticulture waste.	48 Number of compost pits provided for processing and management of Horticulture waste.	27 Number of compost pits provided for processing and management of Horticulture waste.	20 Number of compost pits provided for processing and management of Horticulture waste.	290 Number of compost pits provided for processing and management of Horticulture waste.	Target already achieved.
(Xi)	Identification of garbage vulnerable	ULB DDPO	Total No. of GVPs Identified is 22 no.	Total No. of GVPs Identified is 03 no.	Total No. of GVPs Identified is 03 no.	Total No. of GVPs Identified is 04 no.	Total No. of GVPs Identified is 06 no.	Total No. of GVPs Identified is 06 no.	Total No. of GVPs Identified is 02 no.	The garbage vulnerable points	Target date is 31.03.2022

	points (GVPs)		More garbage vulnerable points (GVPs) will be identified, removed, and places be recovered upto 31.03.2022.	More garbage vulnerable points (GVPs) will be identified, removed, and places be recovered upto 31.03.2022.	More garbage vulnerable points (GVPs) will be identified, removed, and places be recovered upto 31.03.2022.	More garbage vulnerable points (GVPs) will be identified, removed, and places be recovered upto 31.03.2022.	More garbage vulnerable points (GVPs) will be identified, removed, and places be recovered upto 31.03.2022.	More garbage vulnerable points (GVPs) will be identified, removed, and places be recovered upto 31.03.2022.	More garbage vulnerable points (GVPs) will be identified, removed, and places be recovered upto 31.03.2022.	(GVPs) will be identified, removed, and places be recovered upto 31.03.2022.	
(xii)	No. of parks within Municipal limits, No. of compost pits required in Parks., No. of compost pits provided in the parks.	ULB DDPO	185 nos. of parks provided, 90 compost pits required & 90 nos. compost pits provided. There is no gap.	21 nos. of parks provided, 21 compost pits required & 25 nos. compost pits provided. There is no gap.	0 no. of parks provided, 02 compost pits required & 02 nos. compost pits provided. There is no gap.	1 no. of parks provided, 3compost pits required & 3 nos. compost pits provided. There is no gap.	3 nos. of parks provided, 3 compost pits required & 3 nos. compost pits provided. There is no gap.	2 nos. of parks provided, 2 compost pits required & 2 nos. compost pits provided. There is no gap.	2 nos. of parks provided, 2 compost pits required & 2 nos. compost pits provided. There is no gap.	80 nos. of parks provided, 60 compost pits required & 60 nos. compost pits provided. There is no gap.	Target achieved.

(ii) Plastic waste Management

(a) Current status related to Plastic waste management

Sr. No.	Urban Local bodies	Estimated quantity of Plastic Waste Generated per day
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1.	Municipal corporation Karnal	4 TPD
2.	Municipal Committee Assandh	0.05 TPD
3.	Municipal Committee Gharounda	0.15 TPD
4.	Municipal Committee Nissing	0.06 TPD
5.	Municipal Committee Nilokhedi	0.08 TPD
6.	Municipal Committee Taraouri	0.03 TPD
7.	Municipal Committee Indri	0.03 TPD
	Total	4.4 TPD

1.	Local Bodies	Plastic Waste Generated per day
2.	Block/Taluk/ Mandal/Tehsils/	394 wards
3.	Village/Gram Panchayats	1.52 TPD

(b) Identification of gaps and Action plan:

Sr No.	Action points For villages /blocks/ town municipalities / City corporations	Responsible agencies	identification of gap Action Plan								Timeline for completion of action plan	
			MC Karnal	MC Nilokheri	MC Nissing	MC Taraori	MC Assandh	MC Indri	MC Gharaunda	DDPO		
1.	Door to Door collection of dry waste including PW	ULB DDPO	100% door to door collection done.	100% door to door collection done	100% door to door collection done	100% door to door collection done	100% door to door collection done	100% door to door collection done	100% door to door collection done	100% door to door collection done	470 vehicles available & 630 required for Collection of Plastic Waste From All Gram Panchay at Target date for completion is 31.03.2022	100 % Target Achieved by all MC's & Target date for DDPO is 31.03.2022
2.	Facilitate organised collection of PW at Waste transfer point or Material Recovery Facility	ULB DDPO	<ul style="list-style-type: none"> • Yes 3 No. MRF is available and in operation. • Yes Involvement of NGO and rag 	01 MRF Centre is installed on Site. <ul style="list-style-type: none"> • Yes Involvement of NGO and rag 	01 MRF Centre is installed on Site. <ul style="list-style-type: none"> • Yes Involvement of NGO and rag pickers 	01 MRF Centre is installed on Site. <ul style="list-style-type: none"> • Yes Involvement of NGO and rag pickers 	01 MRF Centre is installed on Site. <ul style="list-style-type: none"> • Yes Involvement of NGO and rag pickers. Plastic 	01 MRF Centre is under construction. Target date is 31.03.2022.	01 MRF Centre is installed on Site. <ul style="list-style-type: none"> • Yes Involvement of NGO and rag pickers 	58 MRF Centre is installed on Site & for remaining 278, the target date is	The target date for DDPO is 31.03.2022	

			<p>pickers (266). Plastic waste sent to Ambuja Cement Plant for co processing under EPR by Rekaert innovation Pvt. Ltd.</p> <p>15 no awareness activities conducted Tracing of recycler/ Brand owner is in progress.</p>	<p>pickers (14). Plastic waste sent to Cement Plant for co processing</p> <p>6 no awareness activities conducted. Tracing of recycler/ Brand owner is in progress.</p>	<p>(14 no.). Plastic waste sent to Cement Plant for co processing</p> <p>3 no awareness activities conducted. Tracing of recycler/ Brand owner is in progress</p>	<p>(14). Plastic waste sent to Cement Plant for co processing</p> <p>4 no awareness activities conducted. Tracing of recycler/ Brand owner is in progress.</p>	<p>waste sent to Cement Plant for co processing .</p> <p>3 no awareness activities conducted. Tracing of recycler/ Brand owner is in progress</p>	<p>•Yes Involvement of NGO and rag pickers. Plastic waste sent to Cement Plant for co processing</p> <p>3 no awareness activities conducted. Tracing of recycler/ Brand owner is in progress.</p>	<p>(15). Plastic waste sent to Cement Plant for co processing</p> <p>5 no awareness activities conducted. Tracing of recycler/ Brand owner is in progress</p>	<p>31.03.2022.</p> <p>•Yes Involvement of NGO and rag pickers.</p> <p>Time to time conducted in each village of District Karnal through Swachata Doots, Motivators and Saksham Yuvas being conducted. Tracing of recycler/ Brand owner is in progress,</p>	
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3.	PW collection Centres	ULB DDPO	4	1	1	1	1	1	1	0	The target date for DDPO is 31.03.2022
4.	Awareness and education programs implementation	ULB DDPO	Yes Initiated for IEC, 15 no. Awareness programmes and Campion conducted to avoid use of Plastic in routine life to minimise Plastic Waste. ➤ Total No. of Challans issued on violators =35, ➤ Total Amount of fine	Yes Initiated for IEC, 06 no. Awareness programmes and Campion conducted to avoid use of Plastic in routine life to minimise Plastic Waste. ➤ Total No. of Challans issued on violators =96, ➤ Total Amount of fine collected = 16350	Yes Initiated for IEC, 03 no. Awareness programmes and Campion conducted to avoid use of Plastic in routine life to minimise Plastic Waste. ➤ Total No. of Challans issued on violators =51. ➤ Total Amount of fine collected = 28900	Yes Initiated for IEC, 04 no. Awareness programmes and Campion conducted to avoid use of Plastic in routine life to minimise Plastic Waste. ➤ Total No. of Challans issued on violators =32. ➤ Total Amount of fine collected = 17900	Yes Initiated for IEC, 03 no. Awareness programmes and Campion conducted to avoid use of Plastic in routine life to minimise Plastic Waste. ➤ Total No. of Challans issued on violators =192. ➤ Total Amount of fine collected = 186200	Yes Initiated for IEC, 03 no. Awareness programmes and Campion conducted to avoid use of Plastic in routine life to minimise Plastic Waste. ➤ Total No. of Challans issued on violators =87. ➤ Total Amount of fine collected = 61600	Yes Initiated for IEC, 05 no. Awareness programmes and Campion conducted to avoid use of Plastic in routine life to minimise Plastic Waste. ➤ Total No. of Challans issued on violators =108. ➤ Total Amount of fine	Time to time IEC/Awareness conducted in each village of District Karnal through Swachata Doots, Motivators and Saksham Yuvas	There is no time frame as it is the regular process.

			collected = 26600						collected = 62000		
5.	Access to Plastic Waste Disposal Facilities	ULB DDPO	<p>Mc Karnal has engaged rag pickers to segregate plastic waste to MRF centers. These ragpickers further supply to kabadis. Plastic packaging waste is collected & supplied to Ambuja Cement Ltd's Rabriyawas plant for Co-processing under EPR by Rekart innovation Pvt. Ltd</p>	<p>02 tippers, 02 Tractor Trolleys, and 6 Tri cycle for collected for collection of segregated waste.</p>	<p>04 tippers, 01 Tractor Trolleys, and 15 Tri cycle for collection of segregated waste.</p>	<p>02 Tractor Trolleys, 5 E-rikshaw (n contract) and 6 Tri cycle for collection of segregated waste.</p>	<p>02 tippers, 02 Tractor Trolleys, and 4 Tri cycle for collected for collection of segregated waste.</p>	<p>02 tippers, 02 Tractor Trolleys, and 4 Tri cycle for collected for collection of segregated waste.</p>	<p>02 Tractor Trolleys, 6 trippers, 1 JCB for collection of segregated waste.</p>	<p>Provided to Singla Plastic & Local garbage vender</p>	<p>Target achieved.</p>

(iii) C & D Waste Management

(a) Current status related to C & D Waste

Details of Data Requirement	Responsible agencies	identification of gap Action Plan								Timeline for completion of action plan
		MC Karnal	MC Nilokheri	MC Nissing	MC Taraori	MC Assandh	MC Indri	MC Gharaunda	DDPO & HSVP	
Total C & D waste generation in MT per day (As per data from Municipal Corporations / Municipalities)	ULB DDPO	25	0.7	0.1	0.1	1	1	1	NA	
Does the District has access to C&D waste recycling facility?	ULB DDPO	Yes For the Collection of C&D waste Mc Karnal has established a helpline. Besides this dedicated collection vehicles to collect C&D waste in MC area	Yes Presently C&D waste is being used to fill low laying area.	Yes Presently C&D waste is being used to fill low laying area.	Yes Presently C&D waste is being used to fill low laying area.	Yes Presently C&D waste is being used to fill low laying area.	Yes Presently C&D waste is being used to fill low laying area.	Yes Presently C&D waste is being used to fill low laying area.	Yes Presently C&D waste is being used to fill low laying area.	

(b) Identification of gaps and Action plan:

Sr No	Action points For villages /blocks/ town municipalities / City corporations	Responsible agencies	identification of gap & action plan								Timeli ne for compl etion of action plan
			MC Karnal	MC Nilokheri	MC Nissing	MC Taraori	MC Assandh	MC Indri	MC Gharaunda	DDPO & HSVP	
1.	Arrangement t for separate collection of C&D waste to C&D waste deposition point.	ULB DDPO HSVP	Yes For the Collection of C&D waste Mc Karnal has established a helpline. Besides this dedicated collection vehicles to collect C&D waste in MC area. Site identified for C&D waste deposition. Near Dairy Complex, Pingli road, Karnal.	Yes •Collection of C&D waste separatel y. Site identifie d for C&D waste depositi on • Tractor Trolley is availabl e for C&D waste collectio n & Transpo	Yes 1. Collection of C&D waste separately. Site identified for C&D waste deposition 2. Tractor Trolley is availab le for C&D waste collecti on 3. Yes, Near Mata Sundri	Yes 1. Collection of C&D waste separately. Site identified for C&D waste deposition 2. Tractor Trolley is availab le for C&D waste collecti on 3. Dumpi ng site	Yes 1. Collection of C&D waste separately Site identified for C&D waste deposition 2. Tractor Trolley is available for C&D waste collection 3. Yes, Near Community Centre, Ward No. 06, Kaithal Bye Pass	Yes 1. Collection of C&D waste separately Site identified for C&D waste deposition 2. Tractor Trolley is available for C&D waste collection 3. Yes, Site identified near Indri Bye Pass Road.	Yes 1. ction of C&D waste sepa rately Site identified for C&D waste depositio n 2. Tractor Trolley is available	Presently C&D waste is being used to fill low laying area. The DDPO will provide /install processi ng/crushi ng machiner y for processi ng of C & D waste. The target	Target date is 31.03.2022.

			<p>The MC will provide /install processing/crushing machinery for processing of C & D waste. The Technical team of MC Karnal will visit C & D waste processing plant installed at Chandigarh within 10days and proposal for setting up the adequate C & D waste processing plant at Karnal will be prepared within 01 month and the processing plant will be installed upto 31.03.2022. The target date is</p>	<p>rtation at deposition site (low laying area).</p> <ul style="list-style-type: none"> • Dumped at Kali Mata Mandir Road Ward, No.6, Nilokheri. • The MC will provide /install processing/crushing machinery for processing of C & D waste. The target date is 31.03.2022. 	<p>Khalsa Girls College, Nissing</p> <p>4. The MC will provide /install processing/crushing machinery for processing of C & D waste. The target date is 31.03.2022.</p>	<p>situated at Near Power House, Nadan Road, Taraori</p> <p>4. The MC will provide /install processing/crushing machinery for processing of C & D waste. The target date is 31.03.2022.</p>	<p>Road, Assandh</p> <p>4. The MC will provide /install processing/crushing machinery for processing of C & D waste. The target date is 31.03.2022.</p>	<p>4. The MC will provide /install processing/crushing machinery for processing of C & D waste. The target date is 31.03.2022.</p>	<p>for C&D waste collection</p> <p>3. C&D site at Dingar majra road Gharon da</p> <p>4. The MC will provide /install processing/crushing machinery for processing of C & D waste. The target date is 31.03.2022.</p>	<p>date is 31.03.2022.</p>	
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31.03.2022.

2.	Whether local authority have fixed user fee on C&D waste and introduced permission system for bulk waste generators who generate more than 20 tons or more in one day or 300 tons per project in a month?	ULB DDPO HSVP	MoU with private agency is under process for C&D waste processing No bulk C & D waste generator exists. Small amount of C & D waste dumped in low lying areas. Yes by laws constituted.	No bulk C & D waste generator exists. Small amount of C & D waste dumped in low lying areas. Yes by laws constituted	No bulk C & D waste generator exists. Small amount of C & D waste dumped in low lying areas. Yes by laws constituted.	No bulk C & D waste generator exists. Small amount of C & D waste dumped in low lying areas. Yes by laws constituted.	No bulk C & D waste generator exists. Small amount of C & D waste dumped in low lying areas. Yes by laws constituted.	No bulk C & D waste generator exists. Small amount of C & D waste dumped in low lying areas. Yes by laws constituted.	No bulk C & D waste generator exists. Small amount of C & D waste dumped in low lying areas. Yes by laws constituted.	No bulk C & D waste generator exists. Small amount of C & D waste dumped in low lying areas.	
3.	C&D recycling Facility	ULB DDPO HSVP	A site near <i>Pingli Dairy complex</i> has been identified for Construction and Demolition processing	1 no. Site has been identified at Dumping Place, Ward No. 6, Kali Mata Mandir Road,	1no.Site has been identified at Dumping Place, Ward No.6, Kali Mata Mandir Road, Nissing.0.1M T C&D Waste	Site Identified quantity of generated C&D is 0-100TPD which is very meagre and is being utilised	Site near Community Centre ward no.6 Kaithal by pass road has already been Identified & being used for collation of C&D	1 no. Site has been identified at Dumping Place, near Indri karnal bye pass road. 1TPD C&D Waste generates from this town. Installation of	Site Identified at Dingar Majra Road. Presently C&D waste is being utilized for	Small amount of C & D waste dumped in low lying areas.	

			facility. Apart from this, MC Karnal is planning to make an agreement with a private Cement Tiles Manufacturing plant located at Vill: Uchana to process C&D waste.– Target date is 31.03.2022.	Nilokheri. 0.7 MT C&D Waste generates from this town which is very small quantity and is being utilized for filling of low lying area. Target date is 31.03.2022.	generates from this town which is very small quantity and is being utilized for filling of low lying area. Target date is 31.03.2022.	for filling of low lying areas. Hence, no need to installation of processing facility. Target date is 31.03.2022.	waste. C&D waste is being reused by public at their own and by contractors in filling low lying area.etc. Target date is 31.03.2022.	processing facility is under construction. Target date is 31.03.2022.	filling of low lying area. Target date is 31.03.2022.		
4.	Usage of recycled C&D waste in non structural concrete, paving blocks, lower layers of road pavements, colony and rural roads	ULB DDPO HSVP	Yes, MC Karnal is planning to make an agreement with a private Cement Tiles Manufacturing plant located at Vill: Uchana to process C&D waste.– Target date is 31.03.2022 C&D waste used along with soil filling in roads /Street	Yes used in low laying area.	Yes used in low laying area.	Yes used in low laying area.	Yes used in low laying area.	Yes used in low laying area.	Yes used in low laying area	C & D waste dumped in low lying areas.	

			construction work.								
5.	ICE on C&D waste management	ULB DDPO HSVP	Local bodies are conducting regular IEC on solid waste management. 1. By Advertisement in Local News Papers 2. By Presentation in Schools & Colleges and other institution.	Local bodies are conducting regular IEC on solid waste management. 1. By Advertisement in Local News Papers 2. By Presentation in Schools & Colleges and other institution.	Local bodies are conducting regular IEC on solid waste management. 1. By Advertisement in Local News Papers 2. By Presentation in Schools & Colleges and other institution.	Local bodies are conducting regular IEC on solid waste management. 1. By Advertisement in Local News Papers 2. By Presentation in Schools & Colleges and other institution.	Local bodies are conducting regular IEC on solid waste management. 1. By Advertisement in Local News Papers 2. By Presentation in Schools & Colleges and other institution.	Local bodies are conducting regular IEC on solid waste management. 1. By Advertisement in Local News Papers 2. By Presentation in Schools & Colleges and other institution.	Local bodies are conducting regular IEC on solid waste management. 1. By Advertisement in Local News Papers 2. By Presentation in Schools & Colleges and other institution.	NA	

(IV) Biomedical Waste Management
a. Current Status related to biomedical waste

Inventory of BMW in the District	Quantity
Total no.of Bedded Healthcare Facilities	160
Total no. of non-bedded HCF	131
No.of HCFs authorized by SPCBs/PCCs	291
No of Common Biomedical Waste Treatment and Disposal Facilities(CBWTFs)	1
Capacity of CBWTFs	Incinerator of 1400 kg/day capacity, Autoclave of 325 kg/day capacity, Shredder of 600 kg/day capacity.
No. of Deep burials for BMW if any	0
Quantity of biomedical waste Generated per day	[525.17Kg/day]
Quantity of biomedical waste treated per day	[525.17 Kg/day]

(b) Identification of gaps and Action plan:

S. No.	Action points	Responsible agency	Gaps & action plan	Timeline for completion of action plan
1.	inventory and identification of Healthcare Facilities	•	HSPCB - No time frame as whenever a new HCF has been established, it applied for CTO/Authorization as per policy of the Board. There is no time frame as it is the regular process.	There is no time frame as it is the regular process.
2.	Adequacy of facilities to treat biomedical waste	•	HSPCB – NA - As one facility already established in District Karnal (M/s Haat Supreme Wastech (P) Ltd , Vill- Bajida Jattan, Karnal) already established in District Karnal. and presently treatment capacity of CBWTF is adequate and more than the waste generated. The performance of CBWTF i.e. effluent treatment plant, Air pollution control device, operational system of common Biomedical waste Treatment Facility set up at Karnal for treatment of Biomedical waste being inspected on quarterly basis.	There is no time frame as it is the quarterly process
3.	Tracking of BMW	•	The District Level Monitoring Committee (Under Bio Medical Waste Management Rules) has been established under the Chairmanship of Worthy Deputy Commissioner Karnal. The above committee do random inspections of Health care facilities both Govt. & Private in Karnal. The bar code has been provided by all HCFs as on 04.08.2021. There is no time frame as it is the regular process.	There is no time frame as it is the regular process.
4.	Awareness and education of healthcare staff	• Health Department, Haryana	The training of all the staff is ongoing process regularly.	There is no time frame as it is the regular process.
5.	Adequacy of funds	• Health Department, Haryana	There is no time frame as regular funds being received from Govt. regularly.	There is no time frame as it is the regular process.

6.	Compliance to Rules by HCFs and CBWTFs.	HSPCB	The District Level Monitoring Committee (Under Bio Medical Waste Management Rules) has been constituted under the Chairmanship of Worthy Deputy Commissioner Karnal. The above committee do random inspections of Health care facilities both Govt. & Private in Karnal & M/s Haat Supreme Wastech (P) Ltd., Vill. Bajida Jattan, Karnal and submitting the report in monthly meeting. The inspection of Hospitals being done by the HSPCB along-with the member of District Level Monitoring Committee regularly.	There is no time frame as it is the regular process.
7.	District Monitoring Committee Level	<ul style="list-style-type: none"> • Health Department, Haryana. • HSPCB 	The District Level Monitoring Committee (Under Bio Medical Waste Management Rules) has been constituted.	Target achieved.
8.	Wastewater Treatment	HSPCB	The HCFs are having Sewer connection and terminal treatment capacity. HSPCB will identify the HCFs, which have either no sewerage connection or having connection to sewerage system which has no connectivity to STPs & shall install individuals ETPs within 03 months.	Target date is 31.03.2022.

(V) Hazardous Waste Management

a. Current Status related to Hazardous Waste Management

“**Hazardous Waste**” means any waste which by reason of characteristics such as physical, chemical, biological, reactive, toxic, flammable, explosive or corrosive, causes danger or is likely to cause danger to health or environment, whether alone or in contact with other wastes or substances.

There are total 645 no. of industries existing in District Karnal and out of which 115 no. of industries are generating hazardous waste and either engaged in process of Printing/electroplating /Service Stations recyclers of hazardous waste listed under Schedule-IV and hence having potential of generation of hazardous waste as listed under Schedule-I of Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016. Further there is a potential of generation of approx. 316.08 MT/Annum of hazardous waste from these industries. The hazardous waste generated is scientifically treated and disposed as per the provisions of Hazardous and Other Wastes (M&TBM) Rule 2016 with having agreement either with Gujarat Environment Protection & Infrastructure Ltd. (GEPIL) which is a State level single facility as a Common Hazardous Waste Treatment and Disposal facility located at Village Pali, District Faridabad or through recycler of hazardous waste authorized by HSPCB and HSPCB is regularly monitoring the generation and disposal of hazardous Wastes by the way of conducting monthly mandatory inspections of these industries.

The detail of such Industries generating Hazardous waste and having obtained consent to operate under Water Act 1974 and Air Act 1981 and authorization under the provisions of the Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016 from HSPCB is given as follows:-

Categories	Numbers of Industries
Red	56
Orange	59
Green	0
Total	115

~~All the units generating~~ wastewater provided with Effluent Treatment Plant and the emission sources are provided with Air Pollution Control measures with stacks of appropriate height to control the emissions releasing into the atmosphere.

Details of Data Requirement	Present Status
No of Industries generating HW	115 Nos.
Quantity of HW in the district	316.08 MT/Annum
(i)Quantity of Incinerable HW	151.73 MT/Annum
(ii)Quantity of land-fillable HW	153.95 MT/Annum
(iii)Quantity of Recyclable/ utilizable HW	10.40 MT/Annum
No of captive/common TSDF	Nil
Contaminated Sites or probable Contaminated sites	Nil

b. Identification of gaps and action plan:

S. No.	Action points	Responsible agency	Gaps & Action Plan	Timeline for completion of action plan
1.	Regulation of industries and facilities generating Hazardous Waste	HSPCB	The Hazardous waste is being disposed off through GEPIL, TSDF site at Pali, Faridabad. All 115 units have obtained authorization under HWM Rules, 2016. All the industries have provided individual impervious storage rooms within their premises for temporary storage of hazardous sludge. During inspection of operation of effluent treatment plant, the use of chemicals for treatment of waste water of the industries and the data being co-related.	There is no time frame as it is the regular process.
2.	Establishment of collection centres	HSPCB	All the industries have provided individual impervious storage rooms within their premises for temporary storage of hazardous sludge. The record of hazardous waste generated being maintained by the industries. The waste being lifted by the GEPIL from the collection centre provided by the units.	Target achieved.
3.	Training of workers involved in handling / recycling / disposal of HW	Additional Director Health and Safety Department	There is no time frame as it is the regular process	There is no time frame as it is the regular process.

4.	Availability / Linkage with common TSDf or disposal facility	HSPCB	TSDf already available in State and all Hazardous waste generating industries in the district are having linkage with TSDf.	Target achieved.
5.	Contaminated Sites	HSPCB	No Contaminated Sites in Karnal District.	NA

(VI) E-Waste Management

a. Current Status related to E-Waste Management

The Ministry of Environment, Forest and Climate Change, Government of India has notified E-Waste (Management) Rules 2016 for safe handling and disposal of e-waste in the country. In this regard, the Hon'ble NGT (PB) in its order dated 12.02.2019 in O.A. No.512/2018 has issued directions to the stake holders for effective implementation of the e-waste management rules. Accordingly, action plan for the District to comply with NGT directions is given below:

Details of Data Requirement	Responsible agency	Gaps & Action Plan							Timeline for completion of action plan
		MC Karnal	MC Nilokheri	MC Nissing	MC Taraori	MC Assandh	MC Indri	MC Gharaunda	
Inventory of E-Waste in MT/year	ULB/HSPCB	Quantity of E-Waste is .01 MT/year. Inventory of E-waste will be prepared by 31.03.2022.	Inventory of E-waste will be prepared by 31.03.2022.	Quantity of E-Waste is .01 MT/year. Inventory of E-waste will be prepared by 31.03.2022	Inventory of E-waste will be prepared by 31.03.2022	Inventory of E-waste will be prepared by 31.03.2022	Inventory of E-waste will be prepared by 31.03.2022	Quantity of E-Waste is .01 MT/year. Inventory of E-waste will be prepared by 31.03.2022	Target date is 31.03.2022
Collection centers established by ULBs in the District	ULB/HSPCB	Target date for collection centre is 30.11.2021	Target date for collection centre is 30.11.2021	Target date for collection centre is 30.11.2021	Target date for collection centre is 30.11.2021	Target date for collection centre is 30.11.2021	Target date for collection centre is 30.11.2021	Target date for collection centre is 30.11.2021	Target date is 30.11.2021

Collection centers established by Producers or their PROs	ULB/HSPCB	Target date for collection centre is 30.11.2021	Target date for collection centre is 30.11.2021	Target date for collection centre is 30.11.2021	Target date for collection centre is 30.11.2021	Target date for collection centre is 30.11.2021	Target date for collection centre is 30.11.2021	Target date for collection centre is 30.11.2021	Target date for collection centre is 30.11.2021	Target date is 30.11.2021
No authorized E-Waste recyclers / Dismantler	ULB/HSPCB	The Bulk e waste generator will be identified & Agreement with recycler/dismantler be made upto 31.03.2022.	The Bulk e waste generator will be identified & Agreement with recycler/dismantler be made upto 31.03.2022	The Bulk e waste generator will be identified & Agreement with recycler/dismantler be made upto 31.03.2022	The Bulk e waste generator will be identified & Agreement with recycler/dismantler be made upto 31.03.2022	The Bulk e waste generator will be identified & Agreement with recycler/dismantler be made upto 31.03.2022	The Bulk e waste generator will be identified & Agreement with recycler/dismantler be made upto 31.03.2022	The Bulk e waste generator will be identified & Agreement with recycler/dismantler be made upto 31.03.2022	The Bulk e waste generator will be identified & Agreement with recycler/dismantler be made upto 31.03.2022	Target date is 31.03.2022

b. Identification of gaps and action plan:

Sr No.	Action points For villages /blocks/ town municipalities / City corporations	Responsible agencies	identification of gap & action plan								Timeli ne for compl etion of action plan	
			MC Karnal	MC Nilokheri	MC Nissing	MC Taraori	MC Assandh	MC Indri	MC Gharaunda	HSPCB		
1.	Inventory / Generation of E-Waste / Bulk -waste generators	HSPCB/ PCC & ULB	Quantity of E-Waste is .01 MT/year. Inventory of E-waste will be prepared by 31.03.2022.	Inventory of E-waste will be prepared by 31.03.2022 .	Quantity of E-Waste is .01 MT/year. Inventory of E-waste will be prepared by 31.03.2022	Inventory of E-waste will be prepared by 31.03.2022	Inventory of E-waste will be prepared by 31.03.2022	Inventory of E-waste will be prepared by 31.03.2022	Inventory of E-waste will be prepared by 31.03.2022	Quantity of E-Waste is .01 MT/year. Inventory of E-waste will be prepared by 31.03.2022	Inventory of E-waste will be prepared by 31.03.2022	Target date is 31.03. 2022
2.	E-Waste collection points	ULB	Target date for collection centre is 30.11.2021	Target date for collection centre is 30.11.2021	Target date for collection centre is 30.11.2021	Target date for collection centre is 30.11.2021	Target date for collection centre is 30.11.2021	Target date for collection centre is 30.11.2021	Target date for collection centre is 30.11.2021	Target date for collection centre is 30.11.2021	Target date for collection centre is 30.11.2021	Target date is 30.11. 2021
3.	Linkage among Stakeholders to channelize E-Waste	ULB HSPCB	The Bulk e waste generator will be identified & Agreement with recycler/disma ntler be made upto 31.03.2022.	The Bulk e waste generator will be identified & Agreement with recycler/dis mantler be	The Bulk e waste generator will be identified & Agreement with recycler/dis mantler be	The Bulk e waste generator will be identified & Agreement with recycler/dis mantler be	The Bulk e waste generator will be identified & Agreement with recycler/dis mantler be	The Bulk e waste generator will be identified & Agreement with recycler/dis mantler be	The Bulk e waste generator will be identified & Agreement with recycler/dis mantler be	The Bulk e waste generator will be identified & Agreement with recycler/dis mantler be	The Bulk e waste generator will be identified & Agreement with recycler/dis mantler be made upto 31.03.2022	Target date is 31.03. 2022

				made upto 31.03.2022	made upto 31.03.2022	made upto 31.03.2022	made upto 31.03.2022	made upto 31.03.2022	made upto 31.03.2022	made upto 31.03.2022		
4.	Regulation of illegal E-Waste recycling / dismantling	HSPCB	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	The E-waste recycler/ dismantler will be established in district Karnal by 31.03.2022	Target date is 31.03.2022
5.	integration of informal sector	ULB	The Bulk e waste generator will be identified by 31.03.2022.	The Bulk e waste generator will be identified by 31.03.2022	The Bulk e waste generator will be identified by 31.03.2022	The Bulk e waste generator will be identified by 31.03.2022	The Bulk e waste generator will be identified by 31.03.2022	The Bulk e waste generator will be identified by 31.03.2022	The Bulk e waste generator will be identified by 31.03.2022	The Bulk e waste generator will be identified by 31.03.2022.	There is no E-waste recycler/ dismantler in district Karnal	Target date is 31.03.2022
6.	Awareness and Education	HSPCB, ULB	Awareness programs through posters, chart making and debates are being conducted from time to time to	Awareness programs through posters, chart making and debates are being conducted from time to time to	Awareness programs through posters, chart making and debates are being conducted from time to time to	Awareness programs through posters, chart making and debates are being conducted from time to time to	Awareness programs through posters, chart making and debates are being conducted from time to time to	Awareness programs through posters, chart making and debates are being conducted from time to time to	Awareness programs through posters, chart making and debates are being conducted from time to time to	Awareness programs through posters, chart making and debates are being conducted from time to time to	Awareness programs through posters, chart making and debates are being conducted from time to time to	There is no time frame as it is the regular process.

			time to aware the society.	aware the society.	aware the society.	aware the society.	aware the society.	aware the society.	aware the society.	time to aware the society.	
		Educatio n Departm ent	Awareness programs through posters, chart making and debates are being conducted from time to time to aware the society.								There is no time frame as it is the regular process.

1.2 Air Quality Management

a. Current Status related to Air Quality Management

Details of Data Requirement	Present Status
Number of Automatic Air Quality monitoring stations in the district. - Operated by SPCB / State Govt / Central govt./ PSU agency : - Operated by Industry:	<ul style="list-style-type: none"> • Establishment of Automatic Air Quality Monitoring station – • Yes (01no. Automatic Air Quality Monitoring station by HSPCB • 39 No's. by industries.
Number of manual monitoring States operated by SPCBs	<ul style="list-style-type: none"> • 2 nos.
Name of towns / cities which are failing to comply with national ambient air quality stations	<ul style="list-style-type: none"> • NIL
No of air pollution industries	<ul style="list-style-type: none"> • 361
Prominent air polluting sources [Large Industry]/ [Small Industry]/ [Unpaved Roads] / [Burning of Waste Stubble] / [Brick Kiln / industrial Estate] / [others] (Multiple selection)	<ul style="list-style-type: none"> • Large Industry - 29 • Small Industry - 332 • Unpaved Roads – Nil • Burning of Waste Stubble – 422 challans issued for stubble burning. • Brick Kiln – (Total Brick Kiln 118) Installed Zig-Zag technology-102 no., Closed by Board-14 no. and Dismantled- 2 no. • Industrial Estate – HSIIDC Sec-3, Karnal • Poultry Detail:- The inspections of poultry farms being done and action being taken against the poultry farms found violating the provisions as per guidelines of 2013 - 10 no. poultry farms have been closed by the board and action against 04 no. poultry farms is under process.

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?	There is no Hot spot of Air pollution in Karnal District.	HSPCB	Target achieved.
2.	Ambient Air quality data?	One no. online monitoring station (CAAQMS) and two no. manual stations installed by HSPCB- 100% done.	HSPCB	Target achieved.
3.	Setting up of Continuous Ambient Air Quality Monitoring Station	One no. online monitoring station (CAAQMS) and two no. manual stations installed by HSPCB. 100% done. Data is being submitted to CPCB & HSPCB continuously.	HSPCB	Target achieved.

4.	District Level Action Plan for Air Pollution	The 62 no. of Units have installed online monitoring stations to check on the air quality as well as water quality. (39 no of industries have installed Air Quality monitoring system. The NOCs are being issued to units for using PNG, CNG, LPG , Butane etc as a fuel. The coal has been banned by Karnal District. The PNG pipe line is being laid. The work of lying of PNG line in HSIIDC Sec-3, Karnal has been completed. HSPCB continue monitor all the Air polluting industries and action against the violators being taken regularly.58 no of industries have been closed by the Board found violating the provisions of Air Act 1981.	•HSPCB	There is no time frame as it is the regular process.
		District Karnal having 1.65 lakh hectares of Paddy area in which approx. 65% area under non basmati paddy nd 35% area contribution of basmati paddy. To see the stubble burning situation District Karnal had established 415 no's of customer hiring center to check this problem. In these centres it has total 3668 in-situ mangagement machinery and 131 is ex-situ machinery. IOCL playing a big role to manage paddy stubble and established a 2G ethanol plant in district Panipat situated at bohali. To fulfil the requirements of IOCL Karnal district having 13 cluster consist of 100 of villages who are growing non basmati paddy. To run 2G ethanol plant required 2.13 lakh Mt of Paddy stubble round the year. For proper supply of raw material IOCL will give 1250 RS per mt. With the adoption of Ex-situ and in-situ management systems, there shall be negligible agriculture stubble burning in this area.	DDA	There is no time frame as it is the regular process.
		There are 89 pollution control checking centres established. 245 Nos. of Challans have been done for polluting vehicles and amount collected Rs. 57600/-.	•RTA	There is no time frame as it is the regular process.
		Notice issued to the agencies which are using DG sets and to maintained their stack heights, Notice issued to Hotels and Dhabas for use LPG as fuel for cooking purpose.	•ULB	There is no time frame as it is the regular process.
5.	Hotspots of air pollution in District	The industries located in district Karnal are not in cluster but scattered. There is no defined industrial zone in Dist. Karnal. . The NOCs are being issued to units for	• HSPCB	There is no time frame as it is

		using PNG, CNG, LPG , Butane etc as a fuel. The coal has been banned by Karnal District. The PNG pipe line is being laid. The work of laying of PNG line in HSIIDC Sec-3, Karnal has been completed. However all the air polluting industries are being monitored on a regular interval of time and being persuaded installed and run their APCMs regularly. There is no hotspot of Air pollution.		the regular process.
		422 no. of violators have been identified and action has been taken. Special IEC activities and monitoring mechanism have been prepared	• DDA	There is no time frame as it is the regular process.
		<p>Number of trees planted last year - 364027</p> <p>Number of trees to be planted in current year- 889300</p> <p>Number of trees planted till now in current year- 222079</p>	• DFO	There is no time frame as it is the regular process.
		By Laws Constituted by ULBs	• ULBs	There is no time frame as it is the regular process.
6.	Awareness on Air Quality	Being done through digital display boards, Sameer App. The banners being displayed regularly and activities being done through NGO & ECO clubs.	•HSPCB	There is no time frame as it is the regular process.
		<p>IEC Activities plan of DDA</p> <ul style="list-style-type: none"> • The action plan for the 2021-22 is as under:- <ol style="list-style-type: none"> 1. Village level farmer awareness camps – 852 nos. 2. Block level farmer awareness camps – 06 nos. 3. District level farmer awareness camps – 01 no. 4. Mobilization of Schools Student – 170 nos. 5. Hoardings/Wall Painting at Road Side/Market/Schools/Petrol Pump/Bus Stand/CHC/KVK etc. – 1200 nos. 	•DDA	There is no time frame as it is the regular process.

		<ul style="list-style-type: none"> 6. Farmers training at HAU/KVK level – 1500 nos. 7. Demonstration @ 4 per Village – 1704 nos. 8. Mobile Demonstration Van – 06 nos. 		
		-105 nos. challans has been done for Polluting vehicles/ overloaded vehicles	•Transport Department	
		100% plantation being done as per Target.	•Forest	

1.3 Water Quality Management

Water Quality Monitoring

Current Status related to Water quality Management

Details of Data Requirement	Present Status
Rivers	Yamuna is having 65 Km length in Karnal District.
Length of Coastline(if any)	0 Km
Nalas/Drains/Creeks meeting Rivers	01 No. of Escape (Dhanaura)
Lakes/Ponds	18 Nos ponds
Total Quantity of sewage from towns and cities in District	72.22 MLD
Quantity of industrial wastewater	23.62 MLD
Percentage of untreated sewage	0 %
Details of bore wells and number of permissions given for extraction of groundwater	Permission granted to 82 nos. borewells.
Ground water polluted areas if any	Nil
Polluted river stretches if any	[0Km]
Water quality data	The ground water samples of borewells/tubewells at various locations of Karnal District being collected quarterly & the analysis reports shows the parameters are within prescribed limit.

Sr. no.	Location of sampling	Result
1.	Tubewell at MSW Site, Meeruth Road, Karnal	Parameters are within prescribed limit
2.	Tubewell of Shiv Mandir, Village Jadauli, Karnal	Parameters are within prescribed limit
3.	Tubewell of HSIIDC, Sec-3, Karnal	Parameters are within prescribed limit
4.	Ground Water of Old Bus Stand, Karnal	Parameters are within prescribed limit
5.	Ground Water of New Bus Stand, Karnal	Parameters are within prescribed limit
6.	Hand Pump at Govt. School, Alipur Khalsa	Parameters are within prescribed limit
7.	PHED Tubewell, Alipur Khalsa	Parameters are within prescribed limit
8.	Handpump (01), Barsat	Parameters are within prescribed limit
9.	Handpump(02), Barsat	Parameters are within prescribed limit
10.	Tubewell , Barsat	Parameters are within prescribed limit
11.	Private Tubewell in vicinity of Industrial Clusters, Gharaunda	Parameters are within prescribed limit
12.	Borewell Govt., HarsinghPura	Parameters are within prescribed limit
13.	Handpump, HarsinghPura #1	Parameters are within prescribed limit
14.	Handpump, HarsinghPura #2	Parameters are within prescribed limit
15.	Hand Pump Kohand - N 29.22.32; E 76.40.10	Parameters are within prescribed limit
16.	Hand Pump Kohand - N 29.29.36; E 76.58.18	Parameters are within prescribed limit
17.	Hand Pump Kohand - N 29.42.20; E 76.38.11	Parameters are within prescribed limit

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

S. No.	Action points	Responsible agencies	Gaps and Action Plan								Timeline for completion of action plan	
			MC Karnal	MC Nilokheri	MC Nissing	MC Taraori	MC Assandh	MC Indri	MC Gharaunda	Irrigation Department/CGWA		
1	Inventory of water bodies	Irrigation Department CGWA	NA	NA	NA	NA	NA	NA	NA	NA	Irrigation Department – The data of all water bodies being maintained by department.	Target achieved
2	Quality of water bodies in the district	HSPCB, Irrigation Department,	NA	NA	NA	NA	NA	NA	NA	NA	Irrigation department/HSPCB- Monthly monitoring of drains/rivers being conducted jointly by Irrigation department & HSPCB.	There is no time frame as it is the regular process.

S. No	Action points	Responsible agencies	ULB Department	Public Health Engineering Department	Irrigation & Water Resource Department, Haryana	Ground Water Authority	HSPCB	Timeline for completion of action plan
3	Hotspots of water contamination	ULB Department Public Health Engineering Department Irrigation & Water Resource Department, Haryana Ground Water Authority, HSPCB	There is no hot spot of water contamination	There is no hot spot of water contamination	There is no hot spot of water contamination	There is no hot spot of water contamination	The ground water samples of borewells/tubewells at various locations of Karnal District being collected quarterly & the analysis reports shows the parameters are within prescribed limit. There is no hot spot of water contamination	There is no time frame as it is the regular process.

S. No.	Action points	Responsible agency	Gaps and Action Plan									Timeline for completion of action plan
			MC Karnal	MC Nilokheri	MC Nissing	MC Taraori	MC Assandh	MC Indri	MC Gharaunda	DDPO	Irrigation & Water Resource Department, Haryana	
4	Protection of river / lake water front	ULB DDPO Irrigation & Water Resource Department, Haryana	27 no. Wire-mesh have been installed on 27 drains/Nallahs to control solid waste in drains/Nallahs	There is no water bodies in M.C. Nilokheri, However, 02 no. wire mesh has been fixed into the drains/Nallahs to stop/prevent the solid waste entering into STP	04 no. Wire-mesh/screen has been installed on drains/Nallahs.	02 Wire-mesh have been installed on drains to control solid waste in drains/Nallahs.	04 no. Wire-Mesh or C.I or W.I Jall used drains to control solid waste in drains/Nallahs.	6 no. of wire mesh erected on the point of Drain/Nallah to prevent the passing of solid waste into the water bodies.	16 no. Wire-mesh/screen has been installed on drains/Nallahs.	46 no. Wire-mesh/screen has been installed on drains/Nallahs.	Control measures provided on drains.	Target achieved.

S. No.	Action points	Responsible agency	Gaps and Action Plan					Timeline for completion of action plan
			ULB Department	Public Health Engineering Department	Irrigation & Water Resource Department, Haryana	Ground Water Authority	HSPCB	
5.	Inventory of sources of water pollution	ULB Department Public Health Engineering Department Irrigation & Water Resource Department, Haryana Ground Water Authority	NA	NA	The inventory of all sewage water and waste water discharge point into water bodies in District Karnal is regularly maintained in every month.	NA	NA	There is no time frame as it is the regular process.

S. No	Action points	Responsible agency	Gaps and Action Plan									Timeline for completion of action plan		
			MC Karnal	MC Nilokheri	MC Nissing	MC Taraori	MC Assandh	MC Indri	MC Gharaunda	DDPO	Irrigation Department			
6.	Protection of flood plains	ULB Irrigation Department	For the protection of flood plains, all the nallah/dra ins being cleaned before monsoon season and also quarterly.	For the protection of flood plains, all the nallah/dra ins being cleaned before monsoon season and also quarterly.	For the protection of flood plains, all the nallah/dra ins being cleaned before monsoon season and also quarterly.	For the protection of flood plains, all the nallah/dra ins being cleaned before monsoon season and also quarterly.	For the protection of flood plains, all the nallah/dra ins being cleaned before monsoon season and also quarterly.	For the protection of flood plains, all the nallah/dra ins being cleaned before monsoon season and also quarterly.	For the protection of flood plains, all the nallah/dra ins being cleaned before monsoon season and also quarterly.	For the protection of flood plains, all the nallah/dra ins being cleaned before monsoon season and also quarterly.	For the protection of flood plains, all the nallah/dra ins being cleaned before monsoon season and also quarterly.	For the protection of flood plains, all the nallah/dra ins being cleaned before monsoon season and also quarterly.	Quarterly checking are being done for the protection of Flood Plains. The stone pitching and guide bandh being provided for protection of fold plains.	There is no time frame as it is the regular process & activity being done quarterly.
7.	Rejuvenation of	ULB, DDPO	The ground	The ground	The ground	The ground	The ground	The ground	The ground	The ground	The work of providing Rain water harvesting	13 RWH is installed	The target date for	

	ground water		water is available and fit for drinking purpose. 20 no. Rain water harvesting is installed	water is available and fit for drinking purpose. 07 no. Rain water harvesting is installed	water is available and fit for drinking purpose. 07 no. Rain water harvesting is installed	water is available and fit for drinking purpose. 02 no. Rain water harvesting is installed	water is available and fit for drinking purpose. 06 no. Rain water harvesting is installed	water is available and fit for drinking purpose. 07 no. Rain water harvesting is installed	water is available and fit for drinking purpose. 06 no. Rain water harvesting is installed	systems enhancement of capacity of ponds and creation of new ponds in process. Total 46 works were taken up in the Action Plan.		DDPO is 31.03.2022
										<p>13.09.2019 costing Rs. 1608.50 lakh.</p> <p>ii. 02 no. under SBM-G</p> <p>iii. 02 No. PHED</p> <p>iv. 05 BAP.</p> <p>B. (In Progress- 37,</p> <p>i. 7 nos. - Not started and to be done departmentally.</p> <p>ii. 2 nos. - Under SBM-G costing Rs. 68.23 lakh (Completed-1, In Progress-1)</p>		

										The target date is 31.03.2022.		
8.	Complaints redressal system	HSPCB Irrigation Department, PHED, ULB	CM Window, PG Portal, SMGT and Sameer app	CM Window, PG Portal, SMGT and Sameer app	CM Window, PG Portal, SMGT and Sameer app	CM Window, PG Portal, SMGT and Sameer app	CM Window, PG Portal, SMGT and Sameer app	CM Window, PG Portal, SMGT and Sameer app	CM Window, PG Portal, SMGT and Sameer app	CM Window, PG Portal, SMGT and Sameer app	CM Window, PG Portal, SMGT and Sameer app	There is no time frame as it is the regular process

Domestic Sewage

a. Identification of gaps and Action Plan for treatment of domestic sewage

Details of Data Requirement	Present Status
No of Class-II towns and above	06 no.
No of Class-I towns and above	01 no.
No of Towns STPs installed	07 no.
No of Towns needing STPs	07 no.
No of ULB shaving partial underground Sewerage network	0 no.
No of towns not having sewerage network	0 no.
Total Quantity of Sewage generated in District From Class II cities and above	72.22MLD
Quantity of treated sewage flowing into Rivers(directly or indirectly)	72.22 MLD
Quantity of untreated or partially treated sewage(directly or indirectly)	0 MLD
Quantity of sewage flowing into lakes	0 MLD
Total available Treatment Capacity	107.50 MLD

b. Identification of gap and Action Plan for treatment of domestic sewage:

S. No.	Action points	Responsible agency	Gaps and Action Plan								Timeline for completion of action plan	
			MC Karnal	MC Nilokheri	MC Nissing	MC Taraori	MC Assandh	MC Indri	MC Gharaunda	Irrigation Department		
1	Sewage Treatment Plants (STPs)	<ul style="list-style-type: none"> • PHED • ULB 	04 (MC)	01 (PHED)	01 (PHED)	01 (PHED)	01 (PHED)	01 (PHED)	01 (PHED)	01 (PHED)	NA	No time line as these STPs are in operation.
2	Underground sewerage network	<ul style="list-style-type: none"> • PHED • ULB 	<ul style="list-style-type: none"> • Area covered with sewer line 90%. • 02 nos. STPs are under construction named as 08 MLD STP at Shiv Colony, Kaithal Road, Karnal 	Area covered with sewer line 100 %.	Area covered with sewer line 100 %.	Area covered with sewer line 95 %. Target date is 31.03.2022.	Area covered with sewer line 97 %. Target date is 31.03.2022.	Area covered with sewer line 99 %. Target date is 31.03.2022.	Area covered with sewer line 100 %.	NA	Target date is 31.03.2022.	

			20 MLD STP at Phoosgarh, Karnal. Under construction STP will be completed upto 31.03.2022.								
3.	Utilization of treated sewage for irrigation /other usage.	ULB Irrigation Department,	Area is being identified where the treated sewage can be utilized. Target date is 31.03.2023	Area is being identified where the treated sewage can be utilized. Target date is 31.03.2023	Area is being identified where the treated sewage can be utilized. Target date is 31.03.2023	Area is being identified where the treated sewage can be utilized. Target date is 31.03.2023	Area is being identified where the treated sewage can be utilized. Target date is 31.03.2023	Area is being identified where the treated sewage can be utilized. Target date is 31.03.2023	Area is being identified where the treated sewage can be utilized. Target date is 31.03.2023	The tender of the work recalled on dated 16.07.2021 and will be open on dated 17.08.2021 (for reuse of treated STP effluent) Target date is 31.03.2023	Target date is 31.03.2023

1.4 Industrial wastewater management

a. Current Status related to Industrial Waste water Management

Number of Red, Orange, Green and White industries in the District	125 Nos of Red industries, 369 Nos of Orange, 63 no. of Green industries, Total 567 Industries
No of Industries discharging wastewater	325 nos
Total Quantity of industrial waste water generated	23.62 MLD
Quantity of treated industrial wastewater discharged into Nalas/ Rivers	0 MLD
Common Effluent Treatment Facilities	0
No of Industries meeting Standards	325 nos
No of Industries not meeting discharge Standards	0 Nos

b. Identification of gaps and Action Plan for industrial wastewater:

S. No.	Action points	Responsible agency	Gaps and Action Plan	Timeline for completion of action plan
1.	Compliance to discharge norms by industries	HSPCB	<ul style="list-style-type: none"> • No of ETPs required in Industries (Red/Orange/17 category) – 315 nos. • No of ETPs provided in Industries (Red/Orange/17 category) - 315 nos. • No of STPs required for the local bodies - 10 nos. • No of STPs provided in the local bodies - 10 nos. • Functional status of ETPs/STPs – ETP - 315 nos / STPs – 10 nos. <p>Monitoring of treated effluent qualities of ETP"s/STPs – ETP - 315 nos / STPs – 10 nos.</p> <p>This is a routine practice to check the ETPs installed by units. Newly establishing units requires to install ETP and closure action being taken against non complying units.</p> <p>Regular inspection and sampling of water polluting industries is carried out and 25 Nos. of units were closed by HSPCB and collected amount of Rs. 5793750/- Environment compensation & proposed amount of Rs. 84861200/- as Environment compensation.</p> <p>All the industries will be ensured to install flow meter at outlet of ETPs & industries which have required OCEMS at ETPs will be ensured to install OCEMS. Target date is 31.03.2022.</p>	Target date is 31.03.2022.
2.	Complaint redressal system	HSPCB	CM Window, PG Portal, SMGT and Sameer app	There is no time frame as it is the regular process

1.5 Mining Activity Management plan

a. Current Status related to Mining Activity Management

Details of Data Requirement	Existing Mining operations

Type of Mining Activity	Name of mines – Jai Jamuna Ji Developers Sand Mining
No of licensed Mining operations In the District	01 Nos
% Area covered undermining in the District	11990000 Sqm
Area of Sand Mining	11990000 Sqm
Area of sand Mining	Non –river deposit

b. Identification of gaps and Action Plan:

S. No.	Action points	Responsible agency	Gaps and Action Plan	Timeline for completion of action plan

1.	Monitoring of Mining activity	Mining Department	Frequent surprise checking in river stretches being done by the District Level Task Force. River stretches where there are chances for illegal sand mining has been identified and regular checking being done. (51 no. of inspections has been conducted, 72 no. of incidents have been identified, 72 vehicles Seized).	There is no time frame as it is the regular process.
2.	Inventory of illegal mining if any mining	Mining Department	Frequent surprise checking in river stretches being done by the District Level Task Force.	There is no time frame as it is the regular process.
3.	Environment compliance by Mining industry	Mining Department	River stretches where there are chances for illegal sand mining has been identified and regular checking being done. (51 no. of inspections has been conducted, 72 no. of incidents have been identified, 72 vehicles Seized). The guidelines namely Sustainable Sand Mining and Management Guidelines, 2016 (SSMG -2016) and Enforcement and Monitoring of Sand Mining Guidelines, 2020 (EMGSM-2020) in para No. 3 of the said order, wherein, the procedures for seizure and release of vehicles involved in illegal mining, scale of compensation for violation on polluter pays principle, procedure for district survey report and environmental clearance, adverse impact of unscientific/unregulated sand mining and other suggestive additional requirement like requirement of the Android Based Smart Phones, CCTV cameras, Computer systems, scanning of transport permit, checking of routes, tracking of vehicles and action against illegal excavation and transportation etc will be adopted. Target date is 31.03.2022.	Target date is 31.03.2022.

1.6 Noise Pollution Management plan

1.4.1 Current Status related to Noise Pollution Management

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

HSPCB office is established in District Karnal in year 2020. So, there is no noise meter available with HSPCB and Traffic Police in district Karnal and request already sent to Head Office.

1.4.2 Identification of gaps and Action Plan:

S. No.	Action points	Responsible Agency	Gaps and Action Plan			Timeline for completion of action plan
			HSPCB	ULBs	Traffic Police	
1.	Availability of Sound/Noise Level Meters.	ULB, HSPCB, Traffic Police,	HSPCB office is established in District Karnal in year 2020. So, there is no noise meter available with HSPCB. The noise meter will be available by 31.03.2022.	NA	No Noise Meter is available in Traffic Police Karnal	Target date is 31.03.2022.
2.	Ambient Noise Level monitoring.	ULB, HSPCB, Traffic Police	HSPCB office is established in District Karnal in year 2020. So, there is no noise meter available with HSPCB. The noise meter will be available by 31.03.2022.	NA	No Noise Meter is available in Traffic Police Karnal	Target date is 31.03.2022.
3.	Signboards in Noise zones	ULB, Traffic Police	NA	Signboard provided at Community centres, and marriage places.	Signboard is displayed in various place in District Karnal	There is no time frame as it is the regular process

4.	Restriction on the use of Pressure horns in the vehicles.	Traffic Police	NA	NA	Challans have been issued to vehicles using pressure horn and regular monitoring of such activities is being carried out by the department as per the provisions of the Motor Vehicle Act,1989.	There is no time frame as it is the regular process
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Other Environment issues

S. No	Action points	Responsible Agency	Gaps and Action Plan								Timeline for completion of action plan
			MC Karnal	MC Nilokheri	MC Nissing	MC Taraori	MC Assandh	MC Indri	MC Gharaunda	DDPO	

1.	Management of solid waste & liquid waste generated from unauthorized colonies/residential complex/commercial complexes developed by private developers.	ULB	For management of the solid waste, Solid waste management system will be adopted in time bound manner for illegal residential colonies/commercial areas. For treatment of wastewater of these illegal colonies/commercial areas, sewerage network of these illegal residential colonies/commercial projects will be connected with nearby existing STPs. The target date is 31.03.2023.	Target date is 31.03.2023.
2.	Management of carcasses in the rural area	DDPO	DDPO- A LPG CNG based cattle crematorium system in village Sarafbad, District karnal is under construction and the same shall be setup within 01 month. The capacity of plant is about 500-700 Kg/hr with gaseous production as 8-10 m3/hr with size of single chamber furnace as 3m x 3m x 2.5m. The Deptt. Of Panchayat will also make arrangements/develop more projects for the scientific disposal of animal carcasses in other areas. The target date is 31.03.2022.	Target date is 31.03.2022.
3.	Management of solid & liquid waste generated by the poultry farm of the Districts.	HSPCB CMO Animal Husbandry and Dairy Department	HSPCB/ CMO/ Animal Husbandry and Dairy Department – The inspections of poultry farms being done and action being taken against the poultry farms found violating the provisions as per guidelines of 2013 - 10 no. poultry farms have been closed by the board and action against 04 no. poultry farms is under process. The said departments will identify the poultry farms and collect the data w.r.t. capacity of poultry farms, quantity of solid waste and wastewater generated by them. Action plan will be prepared for management of solid waste & wastewater, timelines for providing these management systems. The target date is 31.03.2023.	Target date is 31.03.2023.

- The District Environment plan will be reviewed monthly for completion of targets.
- The following are the Nodal Officers for implementation of District Environmental Plan.

Additional Deputy Commissioner, Karnal.	Chairman
Commissioner in case of Municipal Corporation & District Municipal Commissioner	Co- Chairman
Chief Executive Officer, Zila Parishad	Member
Superintending Engineer, PWD (B&R)	Member
Superintending Engineer, PHED	Member
Superintending Engineer, Irrigation Department	Member
Chief Medical Officer, Health Department	Member
Estate Officer, HSIIDC	Member
District Mining Officer	Member
District Forest Officer	Member
Deputy Superintendent of Police (HQ)	Member
Regional Officer, HSPCB, Karnal	Member Secretary

Thank You