

From

Deputy Commissioner,  
Gurugram

To

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

Memo No. 1112

Dt. 23-06-23

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

Kindly refer to the subject noted above, please find enclosed here with copy of District Environment Plan (Gurugram) and is submitted for further uploading on the site of Environment Department Haryana, please.

**DA/DEP**

  
Deputy Commissioner,  
Gurugram

# District Environment Plan

District Gurugram, Haryana



# District Environment Plan

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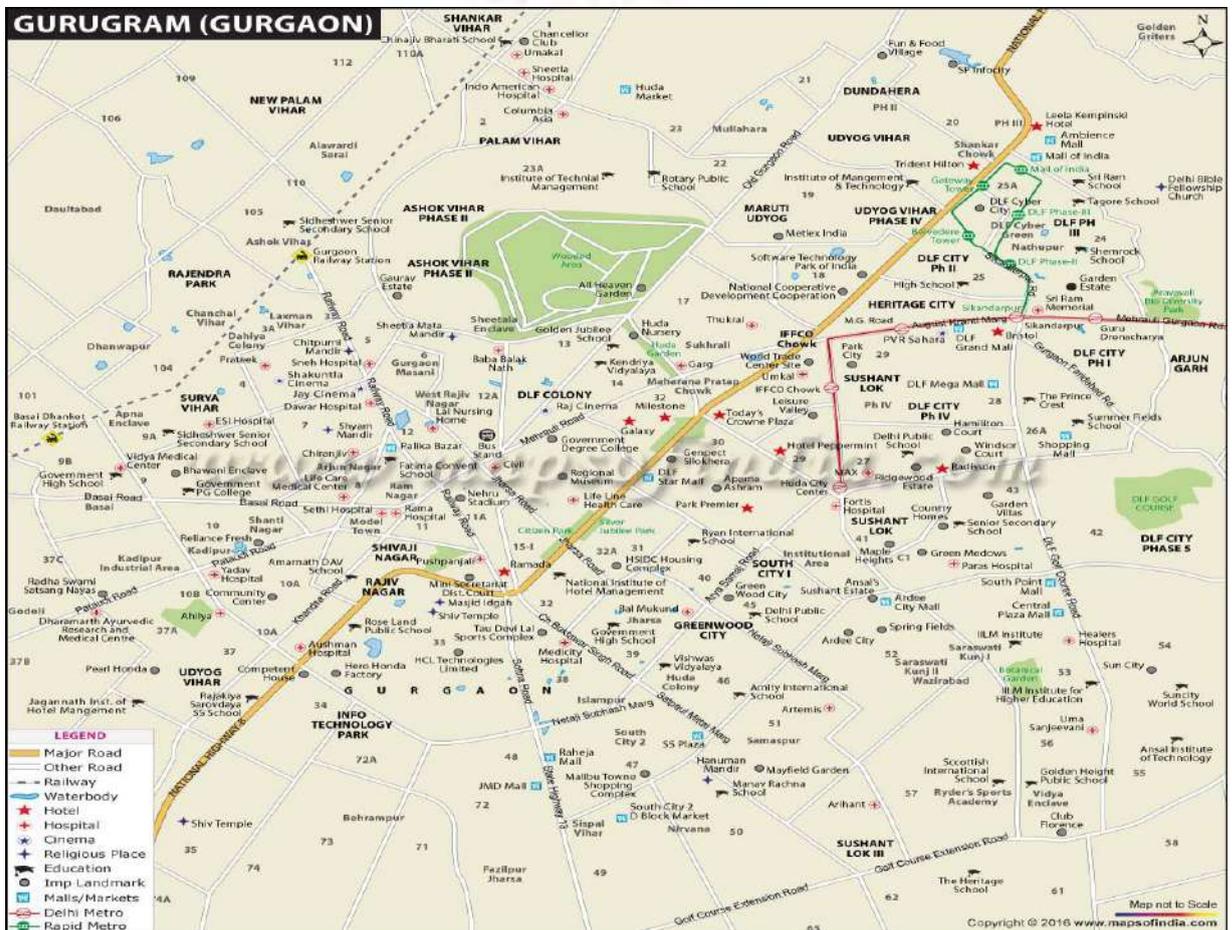
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## District Profile

Gurugram, in Haryana, a part of the National Capital Region (NCR), has grown extensively in the last decade, largely because it adjoins Delhi. According to legend, Gurugram was named after Dronacharya, the renowned guru (teacher) in the epic Mahabharata. The region was given as Gurudakshina to him by his students, the Pandavas, and hence came to be known as Guru-gram, which over the centuries became Gurugram. The city presents an excellent example of a township where the state's initiative of involving the private sector in urban development has been successful. However, the government itself has failed to keep pace with the growth led by the private sector and develop first class civic infrastructure. With more than 40 malls hugging the skylines and more on the way, the city is on its way towards becoming the 'mall capital' of India.



Picture 1 Source: <https://www.mapsofindia.com/maps/haryana/gurgaon.htm>

## Physical features

### Location and Size:

Gurugram district is adjacent to the Delhi State surrounded by Jhajjar, Rewari, Mewat, Palwal and Faridabad districts. It has both oval and elongated shape. It lies between 27° 39' 00" North and 28° 32' 25" North latitudes and between 76° 39' 30" East and 77° 20' 45" East longitudes. It has a geographical area of 1258.00 square kilometers containing 976.65 square kilometers of rural area and 281.35 square

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kilometers of urban area. The district is located in the south-eastern bulge of the State and is having common border with Delhi State in the north. Jhajjar district lies to its north west, Rewari district to its south west Mewat district in South, Palwal district in south east and Faridabad district makes eastern boundary with the district.

### **Physiography & Demography**

Gurugram district has a rolling plain and interspersed by extensions of Aravallis. Aravali ranges offshoot along the western part of the district and further upto the National Capital, Delhi in the north-east. These rocks are one of the oldest mountain systems in the Country. The hillocks are dissected by rain fed torrents. Physiographically we can sub-divide the district into two sub-parts: Gurugram Plain and Sohna Undulating Plain with Aravali Offshoots. Gurugram Plain spreads over northern and north-western parts of Gurugram tehsil and whole of Pataudi tehsil. The region as a whole is plain area. The region is quite homogeneous to Sahibi Plain of Rewari district. Sohna Undulating Plain with Aravali offshoots extends over parts of Sohna and Gurugram tehsil. The entire region is covered with rocky surfaces of Aravali Offshoots. These landforms make a series of flat topped ridges. Only some patches of land are under cultivation. Due to offshoots of Aravali ranges, the region is undulating. There is little cultivation owing to rocky areas, poor soil cover and roughness of surface.

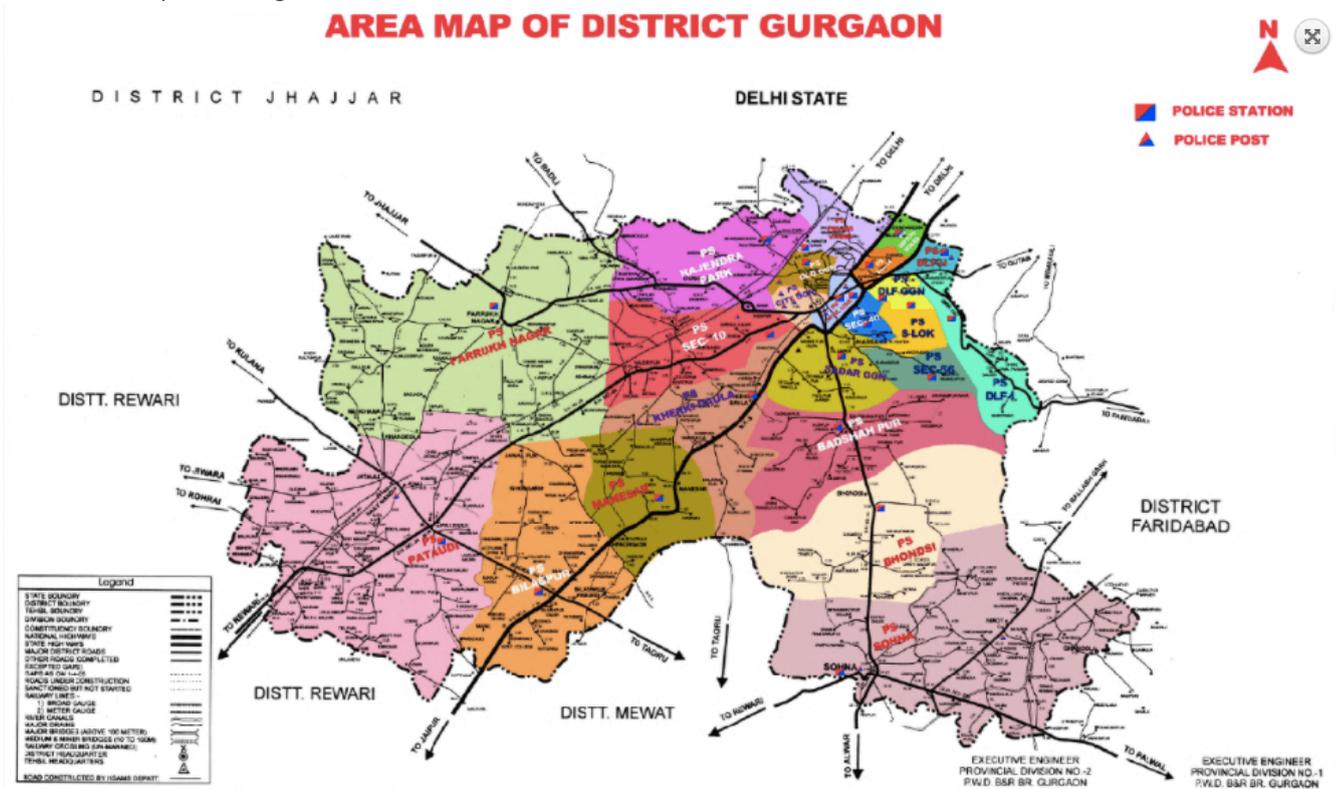
Country	India
State	Haryana
Division	Gurugram
Headquarters	Gurugram
Tehsil	1. Gurugram, 2. Sohna, 3. Pataudi, 4. Farrukh Nagar 5. Manesar 6. Wazirabad 7. Badshahpur 8. Kadipur 9. GarhiHarsaru
Area	
• Total	1,258 km <sup>2</sup> (486 sq mi)
Population (2011)	
• Total	1,514,432
•	1,200/km <sup>2</sup> (3,100/sq mi)
•	84.4%
• Density	853
Demographics	NH 48, NH 148A, NH 248A, NH 919, SH 15A, SH 26, MDR 132, MDR 133, MDR 136, MDR 137
Literacy	Gurugram (Lok Sabha constituency)
Vidhan Sabha constituencies	1. Pataudi, 2. Badshahpur, 3. Gurugram and 4. Sohna
Website	<a href="http://gurugram.gov.in">http://gurugram.gov.in</a>
Location of Gurugram	Southern most region of Haryana
Coordinates	27° 39' and 28° 32'25'' latitude, and 76° 39' 30'' and 77° 20' 45'' longitude
Total Area	176.5 sq mi
Elevation	711.9 ft above the sea level

**Table 1**Source:[https://en.wikipedia.org/wiki/Gurgaon\\_district](https://en.wikipedia.org/wiki/Gurgaon_district)

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## a. District Administrative Set-up: -

Map of Gurugram



Picture 2 Source: <https://www.wearegurgaon.com/detailed-map-masterplan-2021-gurgaon-city-haryana-gurgaon/>

### Administrative setup of Gurugram:-

The details of administrative set up are defined below: -

Sub Divisions (4)	Gurugram, Sohna, Badshahpur & Pataudi
Tehsils (5)	Gurugram, Sohna, Pataudi, Farrukh Nagar, Manesar
Sub-Tehsils (4)	Wazirabad, Badshahpur, Kadipur, Harsaru
Blocks (4)	Gurugram, Sohna, Farrukh Nagar, Pataudi
Municipal Corporation (2)	Municipal Corporation, Gurugram Municipal Corporation, Manesar
Municipal Council (1)	Sohna
Municipal Committees (3)	Pataudi, Haily Mandi, Farrukh Nagar
Population (Census 2011)	15,14,085

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Table 2 Source: <https://gurugram.gov.in/about-district/administrative-setup/>

## b. Local Institutions: -

Total Villages	193
Total Panchayats	162
Village Level	Panchayat (162)
Block Level	Panchyat Samiti (4)
District Level	Zila Parishad (1)

Table 3 Source: <https://gurugram.gov.in/about-district/administrative-setup/>

## c. Natural Resources

Main Waterbodies in Gurugram:

### ▪ **Damdama Lake, Gurugram:-**

Nestled in the lap of the Aravali Hills, Damdama Lake is one of the best places to visit in Gurugram with family, friends or alone. This water body spreads across an area of 3000 acres, which makes it one of the largest lakes in Haryana. It was formed in 1947 as a result of the construction of a dam by the British for rainwater harvesting.

### ▪ **The Lost Lake, Gurugram:-**

The Lost Lake, another one of the popular lakes in Gurugram, is a tranquil water body located in a secluded spot. A lovely jungle trail leads to this hidden gem. Surrounded by thorny trees, the lake makes for a wonderful destination for short picnics.

### ▪ **Sultanpur Lake, Gurugram:-**

Sultanpur Lake is counted among the best places to visit in Gurugram for a memorable time. It is located within the premises of the Sultanpur National Park, which is home to about 250 species of birds. During the winters, more than a hundred species of migratory birds visit this sanctuary. This lake is a spectacular place for spotting these gorgeous birds.

### ▪ **Availability of water resources**

Nearly 50% of Gurugram's water requirement is met by groundwater — the level of which is currently 33.24 metres. The rest is Yamuna water that comes via canals and through water treatment plants. The city needs 184 million liters of water a day.

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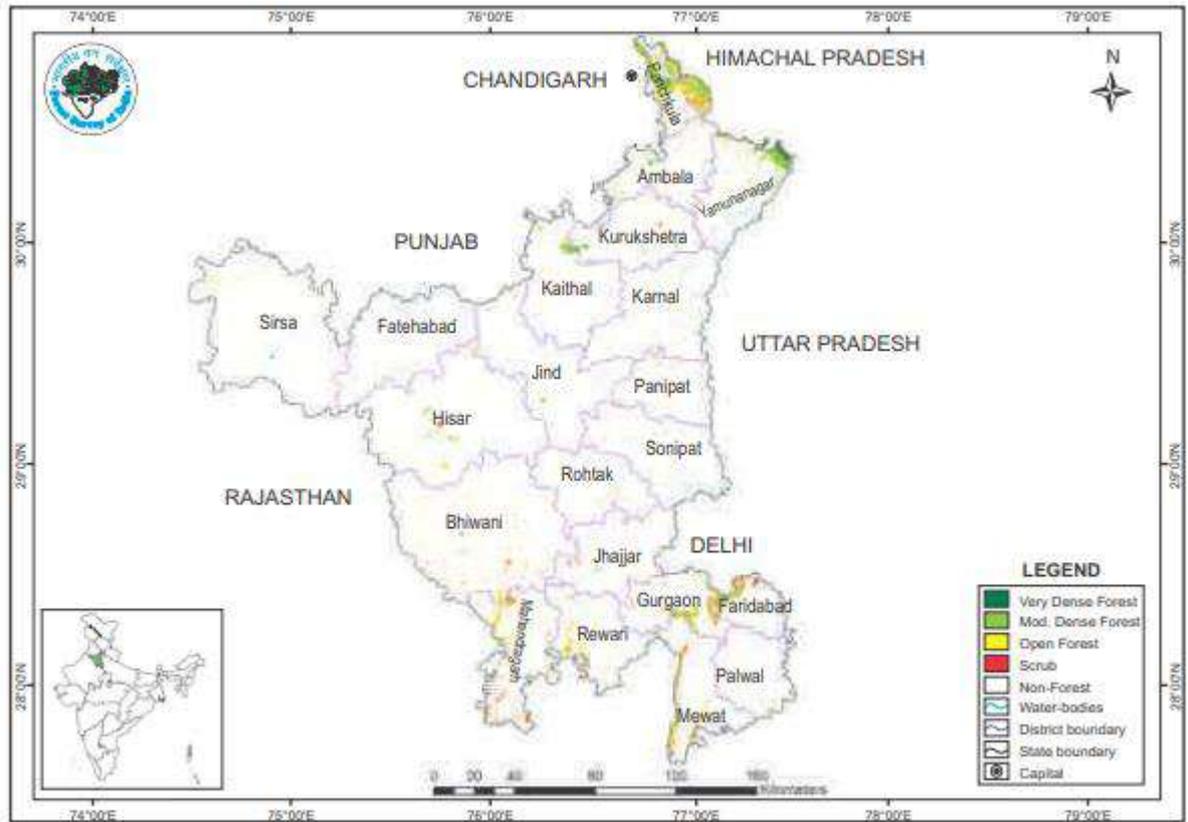
<b>THE WATER</b>	
<b>Demand</b>	
Total water demand as per city agency	184 MLD
Per capita water demand as per city agency	225 LPCD
Total water demand as per CPHEEO @ 150 LPCD	123 MLD
<b>Sources and supply</b>	
Water sources	Yamuna, groundwater
Water sourced from surface sources	94%
Water sourced from ground sources	6%
Total water supplied	107 MLD
Per capita supply	130 LPCD
Leakage loss	15%
Actual supply (after deducting leakage losses)	91 MLD
Per capita supply (after leakage losses)	111 LPCD
Population served by water supply system	64%
Per capita availability in the served area	157 LPCD
Demand-supply gap (after leakage loss)	93 MLD
<b>Treatment</b>	
Number of WTPs	3
Total treatment capacity	273 MLD
Actual treatment	246 MLD
<b>Future demand and supply</b>	
Demand (2011), as projected in 2005-06	247 MLD
Augmentation needed to meet the demand	140 MLD
Required increase in supply	131%

Table 4 Source: <http://cdn.cseindia.org/userfiles/gurgaon.pdf>

- **Forest coverage**

The district covers Gurugram, Sohna and Pataudi forest ranges headed by the Range Forest Officers. These ranges are part of Gurugram Forest Division under the charge of Deputy Conservator of Forests stationed at Gurugram. The district falls in South Forest Circle with headquarters at Gurugram. Till about 1930, there were no forests in the district. It was only after Independence, special efforts were made to increase areas under forestry. All the road strips were transferred to the Forest Department in 1950. Similarly, Canals and railway strips and flood protective bunds were also transferred later on for afforestation. The area under forests is classified according to ownership, viz. Private and State. Forests owned by corporate bodies and private individuals are included under private forests. The State forests are categorized as reserved, protected and unclassed.

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Picture 3 Source: <https://fsi.nic.in/isfr19/vol2/isfr-2019-vol-ii-haryana.pdf>

Forests are mostly privately owned or Panchayat areas. These natural forests contain species like Khairi (*Acacia Senegal*) Dhouk (*Anaogeisus pendula* edgew), Dhak (*Butea monosperma*), Papri, (*Holoptelea integrifolia* planch) Rounj, (*Acacia leucophloea*) Inderjo, (*Wrightiatincloria*) Chamror (*Erhetialaervis*), *Greviapopulifolia* etc. Shisham and Neem are found in the foothills and plains. Kikar grows in the plains. Its bark is good for tanning. Shisham, Neem and Kikar are valuable as timber, firewoods and for making agricultural implements. Plantation of Eucalyptus trees in the plains, along roads, canals and boundaries of agricultural fields are the latest phenomenon in forestry development. Kit is used as firewood and pulp wood for paper industry. As per the FSI 2019, the forest cover in Gurugram has been recorded at 9.2% of its geographical area, with 33.7 sqkm as moderately dense forest, 82.5 sqkm as open forest and 17 sqkm of scrub land. In 2017, the moderately dense forest was recorded at 34sqkm, open forest at 83 square kilometers, and scrub at 17 sq km.

## FOREST TYPES IN GURUGRAM DISTRICT

Sr. No.	Type of Forest	Area (Sq. Kms.)
1	Reserved Forests	2.2
2	Protected Forests	15.9

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3	Unclassed Forests	0.2
4	Forests under section 38 of IFA, 1927	2.4
5	Forests under section 4&5 of LPA, 1900	68.3
<b>Total Forest area 88.9</b>		

**Table 5**Source:Haryana Forest Deptt. (Overview) Panchkula, 2011

The district is not well wooded. Natural forests on Aravali foothills have poor composition and density. It is the result of soil erosion and excessive biotic interference. Scrub vegetation of Aravali foothills is in the last stages of degradation. About 95 percent forest areas are situated along railway lines, canals, roads, drains and flood protection bunds in the shape of linear strips. At present most of these strips bear forest plantations of various ages. Kikar (Anilotica), Safeda (Eucalyptus hybrid), Shisham (Dalbergia sissoo), Israeli Kikar (A.tortilis), Vilayatikikar (Prosopis juliflora) Siris (Albizia procera), Neem (Azadirachta indica), Bakain (Melia azadirach) Ulloo Neem (Ailanthus excelsa) and Cassia Siamea have been raised successfully. Kikar constitutes three-fourths of the total plantation and found all over the district. Khair (Acacia catechu wild) has been 14 mostly grown on Aravali hills. Neem is generally found growing along road routes but in and around villages also where Peepal and Barh occur frequently. Jand occurs mostly in arid region. The special tree of the hill range is dhauk that covered the hills in the past. One of the most characteristic plants of the district is jharberi or pala (Ziziphus nummularia) that is common all over the district except low-lying inundated tracts. It is very valuable plant. The district is inhabited by various groups of mammals. Primates are represented by rhesus macaque or bander and the langur. The tiger and the leopard once abundant in the district are now almost extinct. Panthers and wolves have also seen the same fate. The carnivorous animals found in the district are the jungle cat (banbilla), foxes, jackals, mongoose (neola) and hare are found in forested areas of the district. Rats and mice are very common. A large number of migratory water birds visit the district during winter. Various types of ducks and geese such as Eastern greylag goose, Barheaded goose, Brahminy duck, Common teal, Mallard, Gadwall, Wigeon, Blue winged teal, Shoveller, Common pochard, Ferruginous duck, Tufted duck etc can be seen at tanks and lakes during winter. Some other ducks such as Comb duck, Cotton teal, Spotbill duck, large whistling teal and Tree duck occur throughout the year at suitable habitats. Eastern large egret, Median egret, little bittern affect inland water marshes, jheels etc. Cattle egret

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can be seen moving along with grazing cattle. Colorful birds add beauty to the varied wild life. Most common colourful birds are Flamingo, Large Indian Parakeet, Rose-ringed Parakeet, Kingfishers Woodpecker; Bulbul etc. The national bird of India, the Common Peafowl is quite common and is seen in orchards, fields and gardens. Scavengers like Black kite, White backed Vulture, Black Vulture, Tawny eagle, House crow etc., keep the district cleared of dead animals by feeding on them. Predators like Black winged Kite, Shikra, Falcons and kestrel visit the district in winter. Owls keep a check on various rodents as well insect pests. Swifts, Swallows, Drougos, Babblers, Warblers, Fly Catchers meet the challenge of insect pests by consuming insects as staple diet. Larks, Wagtails, Rosy Pastor, Common Startling and several species of Mynas play a vital role in destroying numerous noxious insects, including locusts on large scale. Goh and Bis-cobra type of lizards are found in the district. Girgit and mongoose are in plenty. Different kinds of snakes like Bis-sanda and cobra; and scorpions are found. Bissanda is known as Daboia.

District	Geographical Area (GA)	2019 Assessment				% of GA	Change wrt 2017 assessment	Scrub
		Very Dense Forest	Mod. Dense Forest	Open Forest	Total			
Gurgaon	1,258	0.00	33.69	82.49	116.18	9.24	-0.82	17.00

**Table 6** Source: <https://fsi.nic.in/isfr19/vol2/isfr-2019-vol-ii-haryana.pdf>

### d. Geography & Demography:-

The geography of Gurugram comprises mounds on one side and depressed geological formation on the other side, shaping atypical and diverse nature of surface features within the region. The lengthiness of the Aravali hills and the presence of ridges of sand created by the wind conjointly build the unique physical geography of the territory. The drain of the territory is distinctive of fields lacking sufficient water or rainfall. It consists of big depressed geological formation and seasonal currents. Significant depressed geological formations of the territory are Najafgarh Lake, Chandani Lake, Khalilpur Lake, Sangel - Ujhina Lake and KotlaDahar Lake. The two most important seasonal currents of the Gurugram District are Indrani and Sahibi.

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Population	1514085
Area	1253 sq. km.
Rank in India	328/640
Population Density	1241 inhabitants per sq.km.
Population Growth Rate	79.93%
Sex Ratio	853 females per 1000 males
Literacy Rate	84.4%

**Table 7**Source: <https://gurugram.gov.in/about-district/administrative-setup/>

### **Status of Groundwater Scenario in Gurugram**

The major part of Gurugram district is underlain by Quaternary alluvium consisting of sand, clay and silt. The quartzite ridge trending NNE-SSW is located about 7 km east of town in which ground water occurs in fractures, joints and crevices. Sandy layers at various depth form major water bearing horizons above the crystalline basement. Ground water in the Gurugram block occurs in unconfined and semiconfined condition. The upper zone of saturation consists of fine sand with silt varying from place to place. In Udyog vihar and city area the depth of first aquifer varies from 34 to 43 mbgl. However in industrial area of Manesar top most aquifer can be encountered at 20m. The thickness of sandy layer is very limited. The drawdown are generally high indicating absence of highly potential ground water bearing aquifers. Tubewells in the depth range of 45 to 90 m bgl have been installed by different agencies in the block. The yield of these tubewells varies in different areas ranging within 129 to 606 lpm.

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## Water level behavior

The pre-monsoon depth to water level in the district ranges from 3.30 mbgl to 79.70 m bgl . The water level is deep in the northeastern, central and southeastern parts of the district.

## Ground Water Resources

Ground Water Resources estimation of the district was done in 2009 for Gurugram district. Perusal of the Estimates reveals overall stage of ground water development in the block is of the order of 232% which has exceeded the replenish able recharge and thus the district has been categorized as over exploited. Net annual ground water availability of the district is 23261 ham and existing gross ground water draft for all users is 53927 ham.

### **BLOCKWISE AREA DEPTH TO WATER LEVEL (PERIOD JUNE, 2020)**

Sr. No.	DISTRICT	TOTAL GEO. AREA	HILLY AREA	DEPTH TO WATER TABLE ZONES IN METERS							
1	<b>F. Nagar</b>	28009	31	-	-	999	7994	12990	3997	1998	-
2	<b>Gurugram</b>	35462	1288	-	1102	3308	2204	8820	8820	3306	6614
3	<b>Pataudi</b>	27561	45	-	-	-	983	5896	13758	6879	-
4	<b>Sohna</b>	33901	2425	-	-	2422	7264	12106	9684	-	-
	<b>Total</b>	<b>124933</b>	<b>3789</b>		<b>1102</b>	<b>6729</b>	<b>18445</b>	<b>39812</b>	<b>36259</b>	<b>12183</b>	<b>6614</b>

**Table 8**Source:GWRE report 2020

### **Details of Ground water Recharge:-**

Sr. No	District	Ground Water Recharge				Total Annual Ground Water Recharge	Total Natural Discharge	Annual Extractable Ground Water Recharge (Ham)
		Monsoon Season		Non-monsoon season				
		Recharge from Rainfall	Recharge from Other Sources	Recharge from Rainfall	Recharge from Other Sources			
1	<b>Gurugram</b>	<b>9765.55</b>	<b>5374.69</b>	<b>2964.1</b>	<b>4587.04</b>	<b>22691.38</b>	<b>2269.16</b>	<b>20422.22</b>

**Table 9**Source:GWRE report 2020

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## Details of Ground water Draft:-

Sr. No	District	Current Annual Ground Water Extraction				Annual GW Allocation for Domestic Use as on 2025	Net Ground Water Availability for future use	Stage of Ground Water Extraction (%)
		Irrigation Use	Industrial Use	Domestic Use	Total Extraction			
1	Gurugram	22073.37	17117.17	2232.484	41423.03	2232.48	0	202.83

Table 10 Source:GWRE report 2020

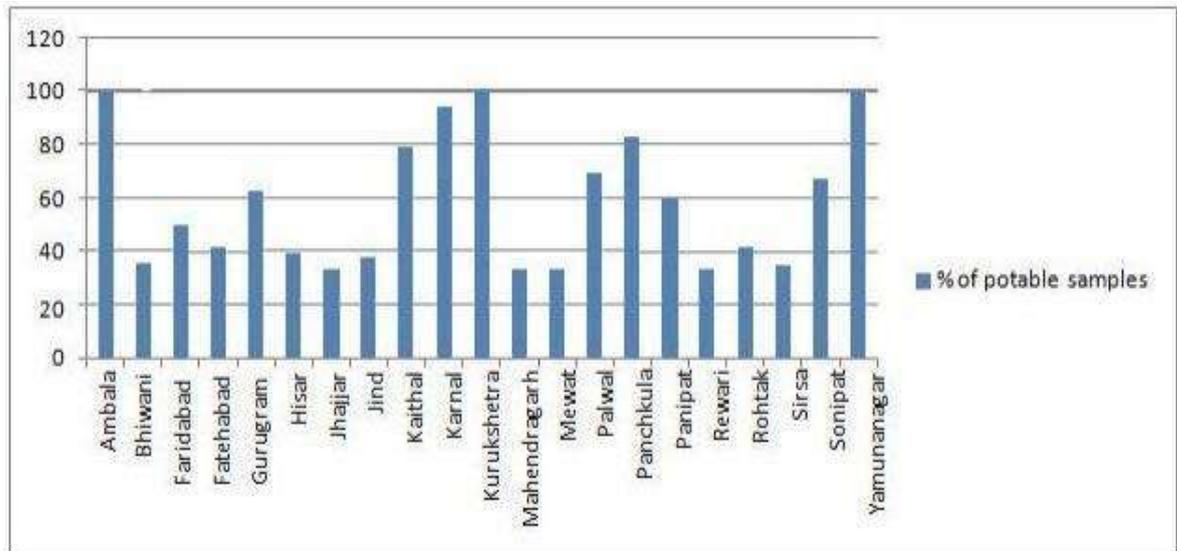


Picture 4 Source: <http://cdn.cseindia.org/userfiles/gurgaon.pdf>

### Status of potable water in Gurugram

Salinity, chloride, fluoride and nitrate are the important parameters that are normally considered for evaluating the suitability of ground water for drinking uses. Based on recommendations made for these parameters by BIS, it is found that ground water at quite a few places is not suitable for drinking uses because of either EC/Cl/F/NO<sub>3</sub> or all of them. It is observed that unsuitable quality of ground water occurs in the western parts of central and southwestern regions, while in the northern and north eastern areas ground water is of suitable quality for drinking uses.

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**District wise Distribution of Potable Waters in Haryana-2019**

Picture 5 Source: GWRE report 2020

## **Recommendations**

The ground water availability in Gurugram is limited and presently being over exploited results in decline of ground water levels. The Gurugram town is situated in semi-arid area and rain is the main source of recharge to ground water. Due to heavy urbanization and industrialization, most of the storm runoff goes to the sewer or storm drains and reduce the recharge contribution from rainfall. The over exploitation of this vital resource along with the ground water pollution may lead to adverse environmental impact. Thus, there is an urgent need for protection of this vital resource by adopting the following measures.

- In order to arrest the declining trend of water levels in the district, the rooftop rainwater harvesting technology should be adopted and recharge structures may also be constructed in depression areas where water gets accumulated during rainy season. This will help in enhancing the recharge to ground water reservoir.
- The crops consuming less quantity of water may be grown in place of crops requiring more water in the over exploited block
- The abandoned dug wells may be cleaned and should be used for recharging the ground water by utilizing the surface monsoon runoff.
- The water level monitoring network needs to be increased in the block.
- The contribution of surface water to irrigation in the district is very less. Measures should be

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made to increase the canal water supply for irrigation and also for drinking purposes.

- Local populaces to be educate regarding consequences of mining of ground water and need for its effective and economic use.
- Roof top rain water harvesting for factories institutional buildings, housing complexes and other big buildings has been made mandatory to augment the ground water recharge and may be included in building laws. The law should be strictly implemented.
- Water harvesting and artificial recharge structures should be constructed in Delhi ridge area, which is one of the major recharge zones for Gurugram. The run off should be diverted to abandoned mining pits. Small check dams can be constructed in hilly areas to recharge/ utilize surplus run off.
- The industrial effluents causing ground water pollution should be treated before discharge so as to curb ground water pollution.
- Strict regulatory measures are required for ground water pumpage, particularly for industrial use. Water meter should be fitted on every tube well and be allowed to withdraw fixed quantity of ground water.
- Industries should be persuaded to recycle the effluents to minimize consumption of water.
- Construction of new tube wells by individuals for domestic purpose should be regulated.
- The municipal sewage should be treated properly to avoid ground water contamination. The same may be utilized for horticulture and other industrial uses, thus reducing the pressure on ground water.
- Periodic monitoring of chemical quality should be carried out, particularly with reference to heavy metals, fertilizers, nitrates etc.
- Some areas of north- western portions of Gurugram block is underlain by shallow ground water level where quality is also poor i.e. saline. Such areas should be de- notified. 16. Strict regulatory measures are required for ground water pumpage, particularly for construction and infrastructural development purposes.
- As per state govt. record, In and around Gurugram city, there are 47 no. of ponds whose area ranges from 2 acre to 8 acres. These ponds which are either dried up or filled with municipal waste and garbage needs repair, renovation and restoration which will help to augment ground water resources by natural recharge.

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- There are 7 no. of natural drain along the foothill of Aravallirange in Gurugram town which can be utilized for rain water harvesting and artificial recharge to ground water.
- More artificial recharge structures should be constructed in Udyog Vihar area and peripheral areas by factories, NGO and state government department where water level is declining at fast rate.

### **e. Climate: -**

Gurugram sees a monsoon-influenced wet semitropical climate. The city goes through four distinguishable times of year - summer, winter, autumn and spring and the monsoon time of year kicking in the summer end. The climatic conditions report received from the meteorological lookout station of Gurugram brings out that from the end of the month of February, the mercury begins to go upwards in a steady pace till the month of May. The month of May and June are hottest months as the daily temperature of Gurugram are as high as 40o C as average high and the average minimum daily temperature is about 25o C. The average maximum temperature alters as the daylights are even hotter in the month of May when compared to the month of June.

The climate of the district is characterized by its dryness and extremes of temperature and scanty rainfall. The district has a sub-tropical continental monsoonal climate where we find seasonal rhythm, hot summer, cool winter, unreliable rainfall and great variation in temperature. Air is generally dry. During the greater part of the year Scorching dust laden winds that blow during hot season render the weather very tiring. Dense fog sometimes occurs during winter months. Four seasons are observed in a year. Mid-March to end of June is summer season, followed by rainy season from July to mid-September, after which a transition period of two months follows. Then the cold season comes from mid-November to mid-March. With the onset of cold season temperatures begin to decrease rapidly. January is the coldest month when mean daily maximum temperature is about 21.4° C and mean daily minimum at 5.4° C. Cold waves affect the region in the wake of passing western disturbances and the minimum temperatures drop down to about freezing point occasionally. The highest maximum temperature recorded at Gurugram was 49° C on May 10, 1966 and the lowest minimum temperature was 0.4° C on December 5, 1966. With the onset of summer season temperatures begin to rise rapidly. May and June are the hottest months. The mean daily maximum temperature in the month of May is around 40.2° C. On individual days, the day temperature may occasionally exceed 45° C. Hot westerly winds locally known as “looh” begin to blow from the month of April. With the beginning of monsoon season, day temperatures drop appreciably, whereas, nights continue to be as hot as in summer. During rainy season, weather is unpleasant due to increased moisture in the air. After the monsoon season day temperature remain high but night temperatures go down rapidly. Rainfall records (2005-2009) reveal that average annual rainfall in Gurugram district is 505.4 mm. and about 72 percent of the normal annual rainfall in the district is received during June to September, July and September being the rainiest months. Rainfall generally increases from west to east. Rainfall in the month of June is significant mostly in the form of

## District Environment Plan

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thundershowers. The variation in the annual rainfall from year to year is very large. On an average there are 28 rainy days in a year. The heaviest rainfall in 24 hours recorded in the region at Gurugram was 282.2 mm. on July 14, 1968. Winds are generally very light in the district with some strengthening in force during late summer and monsoon seasons. Cloudiness is moderate to heavy during monsoon season, rest of the year skies are generally clear or lightly clouded. Easterly or south easterly winds blow during summer monsoon season but for the rest of year winds are westerly or north-westerly. Air is dry for most part of the year. Relative humidity is generally high in the mornings during monsoon season and from December to February. During summer season relative humidity is as low as 30 percent in the afternoons. Thunderstorms occur throughout the year but the highest incidence is during summer and monsoon seasons. Some of the thunderstorms are very violent, while others are dry; a few others are accompanied by heavy showers and occasionally with hail. Thunderstorms occur in winter months also with passing western disturbances

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

#### **(i) Solid Waste Management**

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, HSPCB 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. Also, as per Hon'ble NGT order dated: 16.01.2019 in O.A. No. 606/2018, District Level Monitoring Committee (DLMC) has been constituted in Haryana.

#### **a. Current status related to Solid Waste management**

Gurugram is one of the fastest growing cities in India. Rapid development and habitation in the city is generating all kinds of waste, which is becoming a serious health and sanitation hazard for its residents. It generates 1350 metric tons per day of Municipal solid waste. The Municipal Corporation of Gurugram (MCG) is the apex body responsible for waste planning and management in the city. As far as its operational role is concerned, MCG is only responsible for waste generated in its municipal area. The proposed Waste to Energy Plant site is an existing site situated in Bandhwari village on Gurugram Faridabad Road. Bandhwari WTE site is spread over an area of 30 acre approx. State of Haryana, MCG and MCF has entered into Concession

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Agreement with M/s Ecogreen Energy Gurugram, Faridabad Private Limited for ISWM in Faridabad, Gurugram cluster on 14.08.2017. Environment Clearance for same (Bandhwari landfill site) has been granted by MoEF&CC on dated 01.11.2019 M/s Ecogreen has applied further before MoEF&CC for enhancement of capacity of waste to Energy plant from 15 MW to 25 MW. Presently legacy waste is being treated (bio mined) on Bandhwari landfill site as per direction of Hon'ble NGT, New Delhi in OA 514/2018. In furtherance of which 10 Lacs MT of waste has been processed into segregated fraction of RDF, compost and inert.

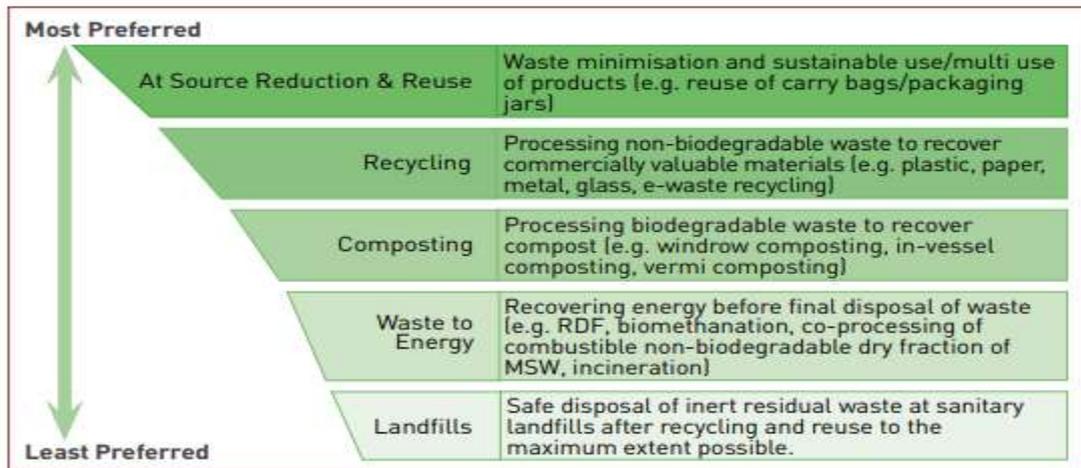
### **Key Issues of Solid Waste Management:**

- Resources, systems, and capacity for development of treatment and disposal of solid waste.
- Capital and O&M expenses without corresponding and matching revenues
- Awareness about the importance of good SWM practices especially about waste segregation.
- Policy framework in operationalizing PPP in MSWM and contract competence.
- Not in my backyard (NIMBY) phenomenon, land acquisition is major issue in SWM projects and is a major cause of delay; especially in processing & landfill facilities.
- Technical expertise and institutional arrangements.

### **Guiding Principles of the SWM Strategy**

- Defining the roles and responsibilities of various stakeholders and putting in place an operating framework.
- Greater emphasis on civic engagement by involving NGOs, women community groups, Ward Committees/Sabhas, Area Sabhas, etc., in awareness generation.

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Picture 6 Source: <http://cpheeo.gov.in/upload/uploadfiles/files/Part2.pdf>

## Strategy for SWM Management

- Establishing Institutional mechanism at State Level for planning, technical, financial and implementation support.
- Promoting PPP(Public-Private Partnership) investments for developing treatment and final disposal facilities on Regional level on Cluster based approach.

## Waste Operations in Gurugram

In Gurugram, municipal solid waste is generated from MCG localities, 37 urbanized villages under MCG, HUDA sectors and private colonies. It is estimated that in the last 10 years, waste production in Gurugram has doubled at present waste generation is around 1100 TPD. The projected solid waste generation in 2041 for Gurugram is expected to be about 2900 MT per day. The MCG is the apex body responsible for the solid waste planning and management in the city. According to a field survey carried out by MCG in September 2015, about 71, 12 and 17% is kitchen waste, inert and recyclable waste, respectively.

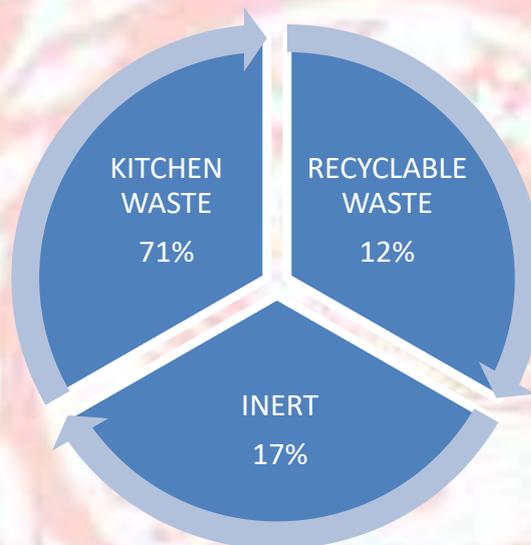


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Picture 7 Source: <https://www.wearegurgaon.com/detailed-map-masterplan-2021-gurgaon-city-haryana-gurgaon/>

Sr. No.	Zones in Gurugram	Waste generated
1.	Zone I & II Khekri Dhaula Toll to Old Railway Road on left (Zone I) and right (Zone II). Zones I and II comprising 122 colonies. The door-to-door collection is being currently undertaken by one contractor while street sweeping is being undertaken by multiple contractors.	370 TPD (Zone 1) 230 TPD (Zone 2)
2.	Zone III (Star Mall, Sector 31 towards Delhi upto MCG limits)	310 TPD
3.	Zone IV ( Star Mall, 31 towards Jaipur upto Kherki Dhaula Toll Tax)	190 TPD

**Table 12** Source: Municipal Corporation, Gurugram



**Picture 8** Source: Municipal Corporation, Gurugram

## CHARACTERISATION OF WASTE IN GURUGRAM

Apart from MCG, solid waste sector is operationally managed by multiple agencies including HUDA, HSIIDC (Haryana State Industrial and Infrastructure Development Corporation) and private colonisers such as DLF and Unitech. Over the last year, waste collection and disposal in most of the HUDA sectors has been taken over by MCG. To be sure, in all 55% of waste is collected from Old Gurugram areas maintained by MCG and 25% from HUDA sectors 1 to 57. The rest comes from the private colonies such as DLF and HSIIDC area in Udyog Vihar sector 37. Any solid waste management (SWM) scheme includes collection and storage of the waste at the sources, transportation to the treatment / processing facilities, processing of the waste for possible recovery and the final disposal. In Gurugram, waste processing and proper final disposal have not been receiving much

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attention until recently. This is especially true for the municipal solid waste (MSW). Most of the available funds are spent on the collection, transportation and final land-dumping of the MSW rather than its treatment/processing and safe final disposal. Of late, there has been much emphasis on the proper processing for recovery and safe disposal of the solid waste. When the waste is processed properly, the load on the landfills reduces considerably. Waste management operations in Gurugram primarily involve employing private agencies for waste collection and street sweeping. The authorities outsource work to contract agencies through service contracts. Tenders are floated at the time of expiry of a contract. The system of waste collection is predominantly manual (recently, mechanical sweeping has been introduced for main roads and markets). Some amount of waste sorting take place informally by the rag pickers at the transit sites. Three different types of transit points are practiced namely: community bins, refuse containers and the dumper placer containers. From these sites, large dumpers carry the waste to the Bandhwari solid waste treatment plant and the landfill site. At present the solid waste processing plant is nonfunctional at Bandhwari landfill site. Some of the waste also gets invariably thrown on the road sides and vacant plots/lands. A very small quantity of waste is treated and recycled. The infrastructure for waste comprise brooms, waste bins, wheel-barrows, tricycles, refuse collectors, dumper trucks, tractors, earth mover machines, manually pulled rickshaws and sanitation workers. A sanitation App 'Swachh Map' was launched by MCG under Swachh Bharat initiative on October 2, 2017. At present Swachh Haryana App, Swachhta App, Sameer Portal etc. are being used for redressal of citizens complaints in time bound manner.

S. No.	Name of the dumpsite	Status of legacy waste management	Capacity of waste processing (TPD)	Total quantity of waste processed from Oct,2019 to Jan,2020 (MT)	No. of trommels operational	Compliance to CPCB guidelines	Annexures of inspection report
1	Bandhwari	Under progress	600	Fresh- 2777 Legacy-1913	2	Partial	Annexure-B
				Total- 4690			

Table 13 Source:

### (i) Solid Waste Management

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

Sr. No.	UrbanLocalbodies	No. ofWard s	No. ofHousehol ds	Population	Solid WasteGene rated per day
1	Municipal Corporation, Gurugram	35	421032	Approx. 1925000	Approx. 1350 TPD

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	Municipal Corporation, Manesar	Ward Boundary Allocation in Progress. However 20 wards are proposed	1,77,000 Households approximately	5,75,000	300 Tonnes of Municipal Solid Waste generated per day(260 tons current population+40 tons floating population)
2	MC, Farukhnagar MC, Haily Mandi MC, Pataudi MC, Sohna	13 15 15 21	6925 7060 4591 13471	17065 22498 22856 59719	10 TPD 10.25 TPD 8.0 TPD 60 TPD
3	NagarPanchayats(Townarea Councils)	NA			

Sr. No.	LocalBodies	NoofVill agepanc hayats / Blocks	No.ofHo useholds	Population	Solid Waste Generated per day
2	MC, Farukhnagar MC, Haily Mandi MC, Pataudi MC, Sohna	13 15 15 21	6925 7060 4591 13471	17065 22498 22856 59719	10 TPD 10.25 TPD 8.0 TPD 60 TPD
3	Village/GramPanchayats	166	1,13,916	334465	71Mt/day

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

Sr. No.	Action points For villages / blocks/town municipalities /City corporations	Identification of gap	Action Plan	Responsible agencies	Timeline for completion of action plan
1.	<b>Segregation</b>				
(i)	Segregation of waste at source	Whether segregation at source practiced by households and other waste generators	Action plan to achieve segregation at source. Awareness programs, incentives, etc. maybe Considered	Concessionaire alongwith all Municipal Committees, MCG & MCM, Municipal Committies & Villages.	Approx. 42% of Source Segregation has been achieved by Municipal Corporation Gurugram by conducting awareness program IEC activities etc. It is estimated that 31.03.2024 by all households will be providing 100% segregating waste at source.

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		<p>Segregation of waste in kachra sheds in 5 GPs.</p> <p>Segregation is being done at source by waste generators.</p> <p><b>MCM</b> ~60% gap identified. Majority of source segregation is not carried out by BWGs for which IEC activities as well as penalizing actions are being initiated to achieve the gap</p>	<p>Action plan to achieve segregation at source.</p> <ul style="list-style-type: none"> <li>• IEC activities in Gram panchayts for awareness towards segregation at household level.</li> </ul> <p><b>MCG</b> is strictly monitoring the segregation at source through Concessionaire and officer/officials concerned.</p> <ul style="list-style-type: none"> <li>• Sanitation Field Team of Municipal Corporation Manesar (1006 sanitary workers +105 waste collection &amp; processing worker +6 MPHW+25 MTS+ 3 sanitary inspectors+ 1 SSI &amp; 1 SO) deployed for collection of waste.</li> <li>• Approximately 15,000 Households and 22-25% storied buildings and societies covered under source segregation</li> <li>• Tender (Tender Id:</li> </ul>	<p>MCG/MCM/Gram Panchayt/All Municipal Committes</p>	<p>March, 2024</p>
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# District Environment Plan

		<p><b>MCS Pataudi:-</b></p>	<p>2021_HRY_1920 24_1 &amp; Tender Ref No. MCM/EE- SBM/2021/SPL- I) for Door-to- Door collection, transportation, processing as well as disposal of solid waste has been finalized and work has already been commenced from 14.07.2022. Source segregation is an integral part of services provided under the tender.</p> <ul style="list-style-type: none"> <li>• IEC Activities like capacity building session for waste segregation, home composting awareness, waste segregation awareness across various educational institutions and societies have been carried out by MCM consistently at periodic intervals.</li> <li>• Further more, MCM has formulated an IEC action plan which also includes breakup of activities to be conducted throughout the year for source</li> </ul>		
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## District Environment Plan

		<p>engaged through private contractors for sweeping and other sanitation work in Division-1 &amp; II of Manesar. It includes 31 villages, 3 partial villages, sectors and urban areas of Manesar.</p> <p>Also Tractor-39, Rikshaw-115, JCB-4, Hywa-2, Are deployed by MC Concessionaire</p> <p>No gap as adequate number of man power and machines are deployed in MCM area.</p> <p><b>MCs Pataudi:-</b> 70 % Achieved</p> <p><b>DDPO:-</b> No, sweeping is done in villages</p> <p>Treated Waste water of STPs shall be used for sprinkling before sweeping to suppress dust emission.</p>	<p>commercial areas of MCM.</p> <ul style="list-style-type: none"> <li>Tender for Division 1 (Tender Id: 2022_HRY251387_1 &amp; Tender work order: MCM/EE-SBM/2023/1642) work order given on 03-02-2023 and work commenced on 20-02-2023</li> <li>Tender for Division 2 (Tender Id: 2022_HRY251389_1 &amp; Tender work order: MCM/EE-SBM/2023/1637) work order given on 03-02-2023 and work commenced on 20-02-2023.</li> </ul> <p>70 % Achieved</p>	<p>Previous gaps have been covered.</p> <p>31.12.2023</p>	
(ii)	Mechanical Road Sweeping & Collection	<p>Gaps if any in achieving target area or length of road identified for Mechanical Road Sweeping.</p>	<p>No gap</p> <p>All the major roads of approx. 510 KM Per Day are covered through 13 mechanical sweeping machines &amp;</p>	<p>MCG/MC, Haily Mandi/MC, Pataudi, MC, Farrukhnagar/MC Manesar</p>	<p>Already covered</p>

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		<p><b>MCM</b> No gap as adequate number of Mechanical Road Sweeping Machines (Truck mounted) has been deployed by MC Manesar.</p>	<p>manpower.</p> <p>06 No. of Mechanical Road Sweeping Machines (Truck mounted) has been deployed by MC Manesar for sweeping 180 km road length which includes highways, major roads and connecting roads.</p> <p>Mechanical sweeping is being carried out at night only.</p>		
		<p><b>MCs, Pataudi:-</b> 60 nos. of sweeper have been deployed and 100% target Achieved</p>	<p>All major road are being covered by mechanical sweeping machine</p>		Already Achieved
		<p><b>MCs, Sohna:-</b> 75 nos. of sweeper have been deployed and 100% target Achieved</p>	<p>All major road are being covered by mechanical sweeping machine</p>		Already Achieved
		<p><b>MCs, HailyMandi:-</b> 55 nos. of sweeper have been deployed and 100% target Achieved</p>	<p>All major road are being covered by mechanical sweeping machine</p>		Already Achieved
		<p><b>MCs, Farrukhnagar:-</b> 50 nos. of sweeper have been deployed and 100% target Achieved</p>	<p>All major road are being covered by mechanical sweeping machine</p>		Already Achieved
		<p><b>DDPO:-</b> No, sweeping is done in villages</p>			

3 WasteCollection

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(i)	100% collection of solid waste	<p>100% collection Achieved</p> <p><b>MCM</b> 05-10% gap (Approx.)</p> <p><b>MCs, Farrukhangar, Haily mandi, Sohna &amp; Pataudi:-</b> 100 % collection Achieved</p> <p><b>DDPO:-</b> Yes, Achieved</p>	<p>Yes 100 % collection achieved</p> <p>Tender (Tender Id: 2021_HRY_192024_1 &amp; Tender Ref No. MCM/EE-SBM/2021/SPL-I) for Door-to-Door collection, transportation, processing as well as disposal of solid waste has been finalized and work has already been commenced from 14.07.2022.</p> <p>NA</p>	<p>Concessionaire alongwith all Municipal Committees, MCG &amp; Gram Panchayat</p> <p>MCM through Concessionaire / Agency selected for door-to-door collection tender</p>	<p>Already covered</p> <p>December 2023</p> <p>Already Achieved</p>
(ii)	Arrangement for door to door collection	<p>Arrangement for door to door provided: % of blocks/wards covered</p> <p><b>MCM</b> Adequate no of vehicles are available for door to door collection.</p>	<p>Yes 100 % collection achieved</p> <p>Tender (Tender Id: 2021_HRY_192024_1 &amp; Tender Ref No. MCM/EE-SBM/2021/SPL-I) for Door-to-Door collection, transportation, processing as well as disposal of solid waste has been finalized and work has recently been commenced</p>	<p>Concessionaire alongwith all Municipal Committees, MCG &amp; MCM</p> <p>MCM through Concessionaire / Agency selected for door-to-door collection tender</p>	<p>Already covered</p> <p>Achieved</p>

## District Environment Plan

			<p>from 14.07.2022.</p> <ul style="list-style-type: none"> <li>At present 83 vehicles have been deployed for door to door collection whose details are as follows: <ul style="list-style-type: none"> <li>Waste collection Trolleys: 19</li> <li>Waste collection mini trucks: 36</li> <li>Dumpers:07</li> </ul> </li> </ul>		
		<p><b>MCs, Farrukhangar, Haily mandi, Sohna &amp;Pataudi:-</b> 100 % collection Achieved <b>DDPO:-</b> Yes, Achieved</p>	NA		Already Achieved
(iii)	Waste Collection trolleys with separate compartments	Check availability and adequacy and if it needs Upgradation	The available waste collection trolleys are adequate and all waste collection vehicles have separate compartments. Total number of compartmentalised vehicles deployed = 390 (Primary collection vehicles) and 67 Secondary collection vehicles.	Concessionaire alongwith all Municipal Committees, MCG & MCM	NA Already covered

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	<p><b>MCM</b> Adequate no. of vehicles are available.</p>	<p>Tender (Tender Id: 2021_HRY_1920 24_1 &amp; Tender Ref No. MCM/EE-SBM/2021/SPL-I) for Door-to-Door collection, transportation, processing as well as disposal of solid waste has been finalized and work has recently been commenced from 14.07.2022. At present, 19 waste collection trolleys have been deployed. Compartments in these vehicles are yet to be installed.</p>	<p>MCM through Concessionaire/ Agency selected for door-to-door collection tender</p>	<p>Achieved</p>
	<p><b>MC, Farrukhnagar:-</b> Nil (1 Tractor Trolley, 30 Hand carts available)</p> <p><b>MC, Pataudi:-</b> Nil (1 Tractor Trolley, 3 Tata Tipper with seperate compartment)</p> <p><b>MC, Haily Mandi</b> (1 Tractor Trolley, 2 Tata Tipper with seperate compartment)</p> <p><b>MC, Sohna:-</b> Nil (2 Tractor Trolley, 3 Tata Tipper with seperate compartment)</p> <p><b>DDPO:</b> Tender is under</p>	<p>NA</p> <p>NA</p> <p>NA</p> <p>NA</p>		<p>Already Achieved</p> <p>Already Achieved</p> <p>Already Achieved</p> <p>Already Achieved</p>

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		process.			
(iv)	Mini Collection Trucks with separate compartments	Adequate no. of vehicles with separate compartment are available	The available waste collection trucks are adequate and all waste collection vehicles have separate compartments.	Concessionaire alongwith all Municipal Committees, MCG.	NA Already covered
		<b>MCM</b> Adequate no. of vehicles with separate compartment are available.	Tender (Tender Id: 2021_HRY_1920 24_1 & Tender Ref No. MCM/EE-SBM/2021/SPL-I) for Door-to-Door collection, transportation, processing as well as disposal of solid waste has been finalized and work has recently been commenced from 14.07.2022. At present, 30 vehicles have been deployed with 2 compartments for collection of dry and wet waste separately. Also, 1 bin for collection of domestic hazardous waste has been installed in every vehicle.	MCM through Concessionaire/ Agency selected for door-to-door collection tender	N/A

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		<p><b>MCs, Haily Madi, Farukhnagar Pataudi &amp; Sohna:-</b> Adequate no. of collection truck with seperate compartments are available.</p> <p><b>DDPO:</b> Tender is under process</p>	Achieved		Already Achieved
(v)	Waste Deposition centers (for domestic hazardous wastes)	<p>Number of deposition centre's required and nos available Or Any alternate Arrangement.</p>	<p>The domestic hazardous waste is segregated and sent to Common Hazardous Waste Treatment &amp; Disposal facility at Pali.</p> <p>Chand Nagar Road, Ward No. 11, Farrukhnagar 0.50 TPD</p> <p>Mirzapur Road ward no 8 Haily Mandi 0.50TPD and 0.50 TPD collected and send to GEPIL, Pali, Faridabad by MCG.</p>	Concessionaire alongwith all Municipal Committees, MCG & MCM	
		<p><b>MCM</b> No such disposition center but as per scope of work of tender for door-to-door collection, transportation, treatment, and disposal of waste, concessionaire/ agency would deploy their resources for collection of domestic hazardous waste separately and shall comply with direction</p>	<ul style="list-style-type: none"> <li>As per scope of the work for door-to-door collection, transportation, treatment, and disposal of waste agency would deploy their resources for collection of domestic hazardous and biomedical waste separately and shall comply with direction issued by hon'ble NGT in future as well. Work has also been commenced</li> </ul>	MCM through Concessionaire / Agency selected for door-to-door collection tender	December 2023

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		<p>issued by hon'ble NGT in future as well.</p>	<p>from 14.07.2022.</p> <ul style="list-style-type: none"> <li>• For collection of Domestic Hazardous Waste (DHW) directly from households, collection vehicles have been customized to carry out the waste.</li> <li>• MC Manesar is spread in an area of about 124 sq. km., 6-7 such deposition centres will be established. Already, 2 centers at existing MRFs have been developed and 3 others are also proposed.</li> <li>• Effective IEC activities are being conducted and will continuously be conducted through various mediums (Print/Social media/workshops /IPCs) for generating awareness for DHW and ill effects of not segregating it.</li> </ul>		
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		<p><b>MCs Farrukhnagar :-</b> Nil (2 Waste Deposition centres)</p> <p><b>MCs Pataudi:-</b> Nil (2 Waste Deposition centres)</p> <p><b>MCs HailyMandi:-</b> 1</p> <p><b>MCs Sohna:-</b> Nil (2 Waste Deposition centres)</p> <p><b>DDPO:</b> Tender is under process</p> <p>MCs to provide 1 additional compartment with each door to door solid waste collecting vehicles for collection of domestic hazardous waste and 1 additional compartment at MRF for storage of domestic hazardous waste.</p>	<p>Achieved</p> <p>Achieved</p> <p>Achieved</p> <p>Achieved</p>		<p>Activity Completed</p> <p>Activity Completed</p> <p>Activity Completed</p> <p>Activity Completed</p> <p>Activity Completed</p>
<b>4. Waste Transport</b>					
(i)	Review existing infrastructure for waste Transport.	<p>(i) Existing fleet is inadequate</p> <p>(ii) 390 partitioned primary vehicles are deployed for primary collection of segregated waste.</p>	<p>100% waste is being transported. List of workers is attached as <b>Annexure-2</b>.</p> <p>Total compartmentalized vehicles (tractor trolley &amp; bulk waste truck) = 390 (Primary</p>	<p>Concessionaire alongwith all Municipal Committees, MCG</p>	<p>NA</p> <p>Already achieved</p>

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		collection vehicles) and 67 Secondary collection vehicles.		
	<p><b>MCM</b> Adequate number of vehicles are deployed for Primary as well as secondary collection of solid waste</p>	<ul style="list-style-type: none"> <li>Tender (Tender Id: 2021_HRY_1920 24_1 &amp; Tender Ref No. MCM/EE-SBM/2021/SPL-I) for Door-to-Door collection, transportation, processing as well as disposal of solid waste has been finalized and work has recently been commenced from 14.07.2022.</li> <li>For Primary collection, currently, there are 76 vehicles (Tractor 19, Tipper 36, Rickshaw 21) are deployed.</li> <li>For Secondary waste collection, currently, there are 7 vehicles (Dumpers and JCB).</li> </ul>	MCM through Concessionaire/ Agency selected for door-to-door collection tender	N/A
	<b>MC, Farrukhnagar:-</b>	Achieved		Already Achieved

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		<p>Yes, adequate infrastrcutre for waste transport</p> <p><b>MC, HailyMandi:-</b> Yes, adequate infrastrcutre for waste transport</p> <p><b>MC, Sohna:-</b> Yes, adequate infrastrcutre for waste transport</p> <p><b>MC, Pataudi:-</b> Yes, adequate infrastrcutre for waste transport</p> <p><b>DDPO:</b> Tender is under process</p>	<p>Achieved</p> <p>Achieved</p> <p>Achieved</p>		<p>Already Achieved</p> <p>Already Achieved</p> <p>Already Achieved</p>
(ii)	Bulk Waste Trucks	67 Secondary Vehicles	Nos. of vehicles are sufficient.	Concessionaire alongwith all Municipal Committees, MCG & MCM	Already achieved
		<p><b>MCM</b> Adequate number of Dumpers have been deployed for secondary collection.</p>	<ul style="list-style-type: none"> <li>Tender (Tender Id: 2021_HRY_1920 24_1 &amp; Tender Ref No. MCM/EE-SBM/2021/SPL-I) for Door-to-Door collection, transportation, processing as well as disposal of solid waste has been finalized and work has recently been commenced from 14.07.2022.</li> <li>7 Dumpers are currently used for secondary transportation of waste.</li> </ul>	MCM through Concessionaire/ Agency selected for door-to-door collection tender	N/A

## District Environment Plan

		<p><b>MC, Farrukhnagar&amp;Pat audi:-</b> Yes (2 Bulk WasteTrucksavailb ale)</p> <p><b>MC, HailyMandi:-</b> Yes (1 Bulk WasteTrucksavailb ale)</p> <p><b>MC, Sohna:-</b> Yes (1 Bulk WasteTrucksavailb ale)</p> <p><b>DDPO:</b> Tender is under process</p>	<p>Achieved</p> <p>Achieved</p> <p>Achieved</p>		<p>Already achieved</p> <p>Already Achieved</p> <p>Already achieved</p>
(iii)	Waste Transfer points	<p>Presently there are 03 transfer station at Beriwalla Bagh, Near Atul Kataria Chowk, Opp. Paras Hospital and 20 secondary collection points. List of collection point is attached as <b>Annexure – 3.</b></p>	<p>4 decentralized waste processing centre's are being development to process the waste</p>	<p>Concessionaire alongwith all Municipal Committees, MCG &amp; MCM</p>	<p>Already Achieved in addition to this MCG has constructed 7 MRF Centres.</p>
		<p><b>MCM</b> There are currently 3 collection points used for secondary collection.</p>	<ul style="list-style-type: none"> <li>• Due to resistance from villagers nearby decentralized processing units, processing plant operations have been affected. This has also caused interruption in services for door to door collection.</li> <li>• Thus, waste is being transported from 4 secondary collection points to decentralized processing</li> </ul>	<p>MCM through Concessionaire/ Agency selected for door-to-door collection tender</p>	<p>December 2023</p>

## District Environment Plan

			units. Once these processing plants are operationalized, all waste collection points will be eliminated.		
		<b>MC, Farrukhnagar</b> Yes (2 Waste Transferpoints)	Achieved		Already Achieved
		<b>MC, Patudi:-</b> Transported to Dumping site Near MotiDungri Ward No. 11, Pataudi.	Achieved		Already Achieved
		<b>MC, HailyMandi:-</b> Yes (1 Waste Transferpoints)	Achieved		Already Achieved
		<b>MC, Sohna:-</b> Yes (1 Waste Transferpoints)	Achieved		Achieved
		<b>DDPO:</b> Tender is under process			
		All waste transfer points be provided with boundary wall and green belt by 31.12.2022 for aesthetic view to public/ passer by	To be achieved		31.12.2023

<b>5.</b>	<b>Waste Treatment and Disposal</b>				
<b>Sr.No.</b>	<b>Action points Forvillages / blocks/town municipalities /City corporations</b>	<b>Identification ofgap</b>	<b>Action Plan</b>	<b>Responsible agencies</b>	<b>Timeline for completion ofactionplan</b>

## District Environment Plan

(i)	Wet-waste Management: On-site composting by bulk waste generators(Authority may decide on requirement as per Rules)	Yes Number of bulk waste generators have been identified for installation of compost plant	Notices have been issued to BWGs. 26 agencies have been empanelled to provide technical support to BWGs. List of empanelled agencies of BWG's as <b>Annexure – 4</b>	There are 614 BWGs within the limit of MCG who are generating more than 50 KG of waste per day. List of BWG is attached as <b>Annexure – 5</b> and 4 pit MC Park By MC, Farrukhnagar, 4 Pit MC Park & 2 Pit MRF by MC, Haily Mandi & 7 pit MC Park by MC, Pataudi	31.03.2024
		<p><b>MCM</b> Currently there are 183 identified BWGs (76 societies + 12 Hotels + 23 Banquet Halls + 47 Educational Institutes + 25 Restaurants) in MCM.</p> <p>~35% (In house composting in societies (BWGs))</p> <p>Gap of ~65% is being targeted with more effort and rigor via IEC activities, notices, seminars and promoting association of BWGs with private waste management vendors for efficient waste management</p>	<ul style="list-style-type: none"> <li>• ~12-15 TPD of wet waste is being managed through on-site composting systems installed in approximately 25 societies identified as BWGs.</li> <li>• Compost produced is utilized within premises by these BWGs.</li> <li>• Notices have been given to almost all BWGs which were in violation of SWM Rules 2016. Some BWGs were even given multiple notices.</li> <li>• Till March 2023, fine has been imposed on 50 BWGs (Societies) and 5 BWGs (Restaurants) while inspections and awareness activities have been carried out</li> </ul>	BWGs are responsible for processing and management of waste generated within their premises	December, 2023

# District Environment Plan

			<p>simultaneously.</p> <ul style="list-style-type: none"> <li>Strategies to achieve 100% wet waste processing in BWGs:</li> </ul> <p>IEC Activities regarding Waste Segregation and management</p> <ul style="list-style-type: none"> <li>Wet waste processing within their premises</li> <li>Dry waste processing by forming agreements with recyclers and private vendors.</li> </ul>		
		<p><b>MC, Farrukhnagar&amp;Patnaudi:-</b> Yes (On site composting by bulk wastegenerators is being done)</p>	<p>BWGs are responsible for processing and management of waste generated within their premises</p>		<p>Already Achieved</p>
		<p><b>MC, HailyMandi:-</b> Yes (On site composting by bulk wastegenerators is being done)</p>	<p>BWGs are responsible for processing and management of waste generated within their premises</p>		<p>Already Achieved</p>
		<p><b>MC, Sohna:-</b> Yes (On site composting by bulk wastegenerators is being done)</p>	<p>BWGs are responsible for processing and management of waste generated within their premises</p>		<p>Already Achieved</p>
		<p><b>DDPO:</b> Yes, Achieved</p>	<p>BWGs are responsible for processing and management of waste generated within their premises.</p>		<p>Already Achieved</p>

## District Environment Plan

(ii)	Wet-waste Management: Facility(ies) for central Bio-methanation / Composting of wets waste.	The facility exists and it needs further up gradation. WTE plant is to be erected	72 Pits for wet waste management, near dumping site ward no. 11 alongwith pits defined for MCG, MCM & MCs.	MCG/MCM/MCs	December, 2024 for WtE plant.
		<p><b>MCM</b></p> <p>Estimated quantity of wet waste generated: ~ 210 TPD</p> <p>Amount of Wet Waste Processed: ~ 110 TPD</p> <p>Gap in 100% Quantity of wet Waste processed : ~55%. Currently, there are 3 decentralized plants operationalized for wet waste processing while 1 processing site is functional</p>	<ul style="list-style-type: none"> <li>Tender (Tender Id: 2021_HRY_1920 24_1 &amp; Tender Ref No. MCM/EE-SBM/2021/SPL-I) for Door-to-Door collection, transportation, processing as well as disposal of solid waste has been finalized and work has recently been commenced from 14.07.2022.</li> <li>12-15 TPD (In house composting by approximately 25 societies)</li> <li>1 decentralized waste processing facility catering to 2 villages in Sector 8, Manesar with design capacity of ~4TPD.</li> <li>1 decentralized waste processing facility established in Naurangpur with a design capacity of ~30-35 TPD (33 compost pits of 1 TPD design capacity each).</li> </ul>	MCM through Concessionaire/ Agency selected for door-to-door collection tender.	Efforts are being taken to reach the intended target for wet waste processing and management on commencement of work by the concessionaire/ agency.

# District Environment Plan

			<ul style="list-style-type: none"><li>• 1 decentralized waste processing facility established in Sector-6 with a design capacity of ~30-35 TPD (38 compost pits of 1 TPD design capacity each have been constructed).</li><li>• Establishment of ~12-15 compost pits at parks and educational institutions for processing of wet waste (Horticulture waste)</li><li>• 1 site at Manesar village have been identified and is functional as a waste processing site. A trommel of capacity 300 TPD is installed at the site.</li><li>• It is pertinent to note here that 2 of the 3 decentralized processing plants at (Sector-6 and Naurangpur) and processing site at Manesar village currently Sector-6 is being used as storage facility are facing resistance from local villagers which is causing interruptions in operations of</li></ul>		
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# District Environment Plan

			<p>these plants. These plants will resume processing operations once the community cooperation is received.</p> <ul style="list-style-type: none"> <li>~9-10 Tonnes of compost produced by processing wet waste is being utilized in parks &amp; gardens and central verges located with MCM boundary.</li> </ul>		
		<p><b>MC, Farrukhnagar&amp;Pat audi:-</b> Yes (On-site composting is being done)</p> <p><b>MC, HailyMandi:-</b> Yes (On-site composting is being done)</p> <p><b>MC, Sohna:-</b> Yes (On-site composting is being done)</p> <p><b>DDPO:</b> Yes, Achieved</p> <p>Proper record mentioning the quantity of wet waste put into compost pits, quantity of manureproduced from processing of wet waste, quantity of manure sold to</p>	<p>Achieved</p> <p>Achieved</p> <p>Achieved</p>		<p>Already Achieved</p> <p>Already Achieved</p> <p>Already Achieved</p> <p>Regular activity</p>

## District Environment Plan

		farmers or distribute free of cost among the society or utilized in the parks as manure may be maintained by the MC.			
(iii)	Dry-Waste Management: Material Recovery for dry-waste fraction	<p>Yes 08 MRF facilities exist with MCG. (1 MRF Established by MCG for use of plastic to roads</p> <p>7 MRF and 3 transfer stations located at Beriwala Bagh, Near Atul Kataria Chowk and Opp. Paras Hospital.</p> <p>In addition to above 350 MRF are operated by Independent Dry Waste Collectors in city.</p>	Dry-segregated waste received in MRFs recycled by private companies	Concessionaire along with all Municipal Committees, MCG & MCM	NA
		<p><b>MCM</b></p> <p>Estimated quantity of Dry waste generated: ~ 90 TPD</p> <p>Amount of Dry Waste Processed: ~ 20 TPD</p> <p>Gap in 22-25 % Quantity of dry Waste processed: ~23%.</p> <p>Currently, there are 3 decentralized plants operationalized for dry waste processing while 1 processing site is functional. While concurrent efforts</p>	<ul style="list-style-type: none"> <li>Tender (Tender Id: 2021_HRY_1920_24_1 &amp; Tender Ref No. MCM/EE-SBM/2021/SPL-I) for Door-to-Door collection, transportation, processing as well as disposal of solid waste has been finalized and work has recently been commenced from 14.07.2022.</li> <li>1 decentralized waste processing facility (MRF)</li> </ul>	MCM through Concessionaire/ Agency selected for door-to-door collection tender.	December, 2023

# District Environment Plan

		<p>are also being made to integrate informal network of ragpickers.</p>	<p>catering to 2 villages in Sector 8, Manesar with design capacity of ~4TPD.</p> <ul style="list-style-type: none"> <li>• 1 MRF Facility at an approximate design capacity of 20 TPD has been established at Naurangpur.</li> <li>- 1 decentralized waste processing facility established in Sector-6 with a design capacity of 20-30 TPD</li> <li>• It is estimated that Approx. 30-35 TPD of Dry Waste is being processed/recycled through an informal network of ragpickers. Survey for identification and their integration into SWM chain is under process.</li> <li>• It is pertinent to note here that 2 of the 3 decentralized processing plants at (Sector-6 and Naurangpur) and processing site at Manesar village currently Sector-6 is being used as storage facility are facing resistance from local villagers which is causing interruptions in operations of these plants. These plants will resume processing operations once</li> </ul>		
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# District Environment Plan

			the community cooperation is received. <b>(Annexure-6)</b>		
		<b>MC, Farrukhnagar&amp;Patnaudi:-</b> Nil (1 Material Recovery for dry waste fraction is available)	Achieved		Already Achieved
		<b>MC, HailyMandi:-</b> (1 Material Recovery for dry waste fraction is available)	Achieved		Already Achieved
		<b>MC, Sohna:-</b> (1 Material Recovery for dry waste fraction is available)	Achieved		Already Achieved
		<b>DDPO:</b> Yes, Achieved  All the MCs may maintain proper record, w.r.t quantity of dry waste stored at MRF site and the quantity of segregated dry waste disposed of in scientific manner.			Regular activity
(iv)	Disposal of inert and non-recyclable waste: Sanitary Landfill	The agency deposits inert at SLF. Yes sanitary landfill available	SLF exists	Concessionaire along with all Municipal Committees, MCG & MCM	
		<b>MCM</b> MC Manesar does not have a sanitary landfill. MCM has entered into an agreement with MC Rewari for processing and	Tender (Tender Id: 2021_HRY_192024_1 & Tender Ref No. MCM/EE-SBM/2021/SPL-I) for Door-to-Door collection,	MCM through Concessionaire/ Agency selected for door-to-door collection tender.	August 2023

## District Environment Plan

		dumping of legacy waste at Bawal, Rewari. 1.56 lakh MT legacy waste was transported and bioremediated at MC Rewari landfill site.	transportation, processing as well as disposal of solid waste has been finalized and work has recently been commenced from 14.07.2022. • Process for identification of land for disposal of inert is in process.		
		<b>MC Farrukhnagar &amp; Pataudi:</b> Yes, Disposal of inert and non-recyclable waste is being done on dump site	NA		Already Achieved
		<b>MC, HailyMandi:-</b> Yes	NA		Already Achieved
		<b>MC Sohna:-</b> Yes, Disposal of inert and non-recyclable waste is being done on dump site	NA		Already Achieved
		All MCs may identify suitable site for development of sanitary landfill by 31.10.2022 and sanitary landfill site may be developed scientifically and made operational by 31.3.2023.	Identification		31.10.2023
			Operational		31.03.2024
(v)	Remediation of historic / legacy dumpsite	Yes existing old waste requires remediation as per rules.	MCG is working for bio remediation and bio mining of legacy waste by installing	MCG/ MCs	MCG has processed approx. 21 Lacs MT Legacy waste till now and rest quantity of

# District Environment Plan

			No. of Trommel machines, current capacity of processing is 13000 MT Per Day and same enhanced upto 20000 MT Per Day by end of Month of June 2023.		legacy waste to be processed by March 2024.
		<p><b>MCM</b></p> <p>All legacy waste of MCM is being remediated at Ramsingh Pura dumpsite, Bawal, Rewari site after approval from govt. vide memo No. EE-IV/DULB/2022/1028 dated 23.02.2022. The site at village Ramsingh Pura, Tehsil Bawal (Rewari) comes under jurisdiction of MC Rewari. This project is already over.</p>	<ul style="list-style-type: none"> <li>MCM has already lifted and transported 1.5 lakh MT of legacy waste from villages to Ramsingh Pura site, Bawal, Rewari for remediation of waste. All legacy waste of MCM is being remediated at Bawal site after approval from govt. vide memo No. EE-IV/DULB/2022/1028 dated 23.02.2022.</li> <li>As per information received from MC Rewari vide letter memo no. EE-</li> </ul>	<ul style="list-style-type: none"> <li>MCM through Concessionaire/Agency selected for door-to-door collection tender.</li> <li>MC Rewari - For carrying out the bioremediation of the transported legacy waste</li> </ul>	June 2023

# District Environment Plan

			IV/DULB/2022/1028 dated 23.02.2022, 1,04,289.259 Tonnes of legacy waste has been processed till 31 <sup>st</sup> August 2022.		
		<p><b>MC Farrukhnagarm Pataudi&amp;Sohna:</b></p> <p>- NA</p> <p>The by-products namely bio soil, C&amp;D waste, RDF and inert waste generated during remediation of legacy waste may be disposed of in an environmentally sound manner</p>	NA	Concessionaire alongwith all Municipal Committees	NA
					Regular Activity
(vi)	Involvement of NGOs	Yes,NGOshave been involved	NGOs have been involved for solid management and decentralized waste processing is being encouraged.	MCG/ MCM/MCs	Activity achieved
		<b>MCM</b>	<ul style="list-style-type: none"> <li>MCM has a tie-up with an NGO (Sahaas) for implementing IEC activities and organizing events around waste management for mass awareness.</li> <li>NGOs involvement for solid waste management is also being</li> </ul>	MC Manesar	December, 2023

## District Environment Plan

			encouraged and such possibilities will be explored.		
		<p><b>MC Farrukhnagar, Pataudi &amp; Sohna:-</b> NA</p> <p>All MCs may identify NGO's/RWAs existing in their area and NGO's/RWA may be involved in various activities of solid waste management</p>	NA	Concessionaire alongwith all Municipal Committees, MCG & MCM.	<p>NA</p> <p>30.09.2023</p>
(vii)	EPR of Producers: Linkage with Producers /Brand Owners	<p>Producers and brand-owners facilitating in collection of packaging waste</p> <p><b>MCM</b></p>	<p>Agencies have been empanelled.</p> <p>Survey in industrial area of Manesar is underway to identify producers. Once the survey is completed, producers shall be engaged for EPR agreements and compliance.</p>	MCG/MCM/ MCs & HSPCB	<p>Agreements have been signed for channelization of plastic waste and RDF to cement plants, waste to energy plants.</p> <p>December 2023</p>

## District Environment Plan

		<p><b>MC Farrukhnagar, Pataudi &amp; Sohna:-</b> NA All the MCs may identify producers/brand owners</p> <p>Plastic waste processing facility may be identified</p> <p>These brand owners/producers may be pursued to make agreement with the plastic waste processing facility under extended producers responsibility</p> <p>All the MCs may start sending plastic waste to the agency engaged by brand owners/producers with concurrence of brand owners/producers</p>	NA		<p>NA</p> <p>30.09.2023</p> <p>31.10.2023</p> <p>31.11.2023</p> <p>31.12.2023</p>
(viii)	Authorization of Waste Pickers	Yes	206 waste pickers have been integrated in the system and List of the same is uploaded on website. List is attached as <b>Annexure – 7.</b>	MCG/MCM/MCs	Already done

# District Environment Plan

		<p><b>MCM</b> Identification of Waste pickers is underway.</p>	<ul style="list-style-type: none"> <li>Survey for identification of informal waste pickers is on-going. Till now, 22 informal waste pickers have been identified so far.</li> <li>Efforts to integrate the informal workforce with Municipal Solid Waste management chain will commence after identification is complete.</li> </ul>		December 2023
		<p><b>MC Farrukhnagar &amp; Pataudi:</b> Yes (18 Waste Pickers registered)</p> <p><b>MC, Haily Mandi:-</b> Yes</p> <p><b>MC, Sohna:-</b> Yes (50 waste pickers registered)</p>	NA		Already done
(ix)	Preparation of own by-laws to comply with SWM Rules 2016	<p>By-laws have been framed and are pending before House of corporation for approval</p> <p><b>MCM</b> Bye laws are being prepared for Solid Waste Management and Bulk Waste Generators.</p> <p><b>MC Farrukhnagar, Pataudi, Haily Mandi &amp; Sohna</b> By-laws have been</p>	<p>By-laws prepared</p> <p>Under Process</p>	MCG/MCM/MCs	<p>Under Process</p> <p>Under Process</p>

## District Environment Plan

		framed and are pending before House of corporation for approval			
(x)	Solid waste from Industries				

### Treatment of Legacy MSW at Bandhwari:-

- A. Increase in MSW processing capacity from the last date of hearing:-**That considering the legacy MSW at the site, which is approximately 33 lakh MT as per CPCB report dated 14.01.2021 and in compliance of direction of Hon'ble Tribunal in various cases OA 514/2019 and OA 172/2021 MCG has installed many trommels with the processing capacity of 13000 MT Per Day. Additionally MCG has also working to enhance the capacity of processing upto 20000 MT Per Day by allotting work of processing of legacy waste.



15 Trommels of 300 TPD each are operational at Bandhwari landfill site.

Picture 9: Source MCG

# District Environment Plan

Sr. No.	Months	Total Target (MT)	Agency wise Achievement/Target									Target achieved / Target to be achieved after 14/04/2023 (MT)	Cumulative Achievement (%) (Against total waste to be processed)	Remarks			
			M/s Bhumi Green	M/s Pathya	Zigma	DCC	GCC	Aadarsh	A	B	C						
1	Jan-23	190000	90000	90000	0	0	0	0	0	0	0	0	0	0	180000	5.90%	1.) 180000 MT processed against the Target of 190000 MT
2	Feb-23	225000	80000 (Target 110000)	0 (Target 115000)	0	0	0	0	0	0	0	0	0	0	80000	8.54%	1.) Only 80000 MT processed against the target of 225000 MT. 2.) The awarded work of M/s PATHYA was not extended by the Government, so target of 1.15 Lac MT were could not be achieved. 3.) LOI issued on dated 08/02/2023 to Zigma, DCC, GCC, Aadarsh to process 02 Lac MT waste each and their plants were under
3	Mar-23	155000	104000 (Target 125000)	0	0	0	0	0	0	0	0	0	0	0	104000	11.95%	1.) 1.04 lac MT processed 2.) The work of 04 agencies delayed due to unexpected rains in the month of March 2023 & delay in installation of machinery by the agencies 3.) Three Tenders for 03 works of 05 Lac MT each floated and will be allotted by 10.05.2023 to agencies A, B & C.
4	Apr-23	320000	150000	0	20000	50000	50000	50000	0	0	0	0	0	0	176315	17.73%	1) Work will be executed by M/s Bhoomi Green, M/s Zigma, DCC, GCC & Aadarsh. 2) Tender for 03 works of 05 Lac MT each in process
5	May-23	475000	150000	0	100000	75000	75000	75000	0	0	0	0	0	0	169173 (till 23.05.2023) & 305827 will process in month of May 2023	23.28% upto 23.05.2023 (33.30% target)	1.) 05 agencies are working.
6	Jun-23	635000	150000	0	80000	75000	75000	75000	60000	60000	60000	60000	60000	60000	635000	58.95% target	1.) 08 agencies will be working
7	July-23 & Aug-23	320000	80000	0	0	0	0	0	80000	80000	80000	80000	80000	80000	320000	69.46% target	1.) 04 agencies will be working and Mansoon will be there
8	Sep-23	415000	10000	0	0	0	0	0	120000	120000	120000	120000	120000	120000	370000	81.62 % target	At least 04 agencies will be working and these may be increased as per requirement or scope of work can be enhanced to the good performer
9	Oct-23	401000	0	0	0	0	0	0	120000	120000	120000	120000	120000	120000	360000	93.45% target	At least 03 agencies will be working and these may be increased as per requirement or scope of work can be enhanced to the good performer
10	Nov-23	360000	0	0	0	0	0	0	120000	120000	120000	120000	120000	120000	360000	105.28% (Target). This includes backlog. For fresh waste processing the scope of work of the well performing agencies will be enhanced as per requirement.	At least 03 agencies will be working and these may be increased as per requirement or scope of work can be enhanced to the good performer
<b>Total</b>												3204000 (Including the backlog 206000 MT. For freshwaster processing the scope of work of well performing agencies will be enhanced as per requirement.)					

Table 14 Source: MCG

- A. **Quantity of waste processed:-** That around 2100000 MT of waste has been processed till date by putting sincere efforts. In compliance of direction of Hon'ble Tribunal day to day progress of treatment of legacy waste is being uploaded in public domain i.e Municipal Corporation, Gurugram website and Dashboard of GMDA which is being regularly monitored.
- B. **Process adopted for bio-remediation and bio-mining as per CPCB Guideline:-** Treatment & disposal of legacy waste is being done by Bioremediation and Bio-mining. The first step is to excavate legacy waste, loosen it and make windrows so that the leachate can be dried up through solar exposure and all the entrapped methane is removed from the heap before Bio-mining. The waste is stabilized which takes 4 weeks and bio-culture solution is sprayed for enhancing the decomposition after which stabilized waste is sent to screening through trommel. Till date 2100000 MT of legacy waste has been processed. CPCB in its report dated 14.01.2021 in Point No. 3.2 mentioned that test reports of fractions are complying with the limits specified in Schedule - II of SWM Rules, 2016.
- C. **Disposal of fractions obtained after bio-mining:-**
- i. Segregated fractions of Refuse Derived Fuel (RDF), compost and inert obtained after bio mining disposed as per the norms so far total 2100000 MT has been processed through bio remediation.

## District Environment Plan

- ii. The Segregated fraction of compost, Refuse-Derived Fuel (RDF) and inert are being routed through different recognized and duly authorized channels by MCG. MCG is channelizing RDF to cement industries and WTE Plant. The Compost produced by bio-mining is being utilized in parks, gardens, dividers, green-belts etc. under the jurisdiction of MCG & MCF while inert recovered from bio-mining is being utilized for filling of low-lying area and for strengthening of existing ramp at Bandhwari landfill site.
- D. **Status of Bandhwari landfill site:-** Municipal Corporation Gurugram doing their sincere efforts to process all the legacy waste dumped at site. MCG and MCF also working to identify the alternate site for fresh waste processing. Drone survey was conducted in month of March 2023, which clearly reveals that current height of dumpsite is reduced. Further area of around 6 acres has been reclaimed. Further by next quarter more cycles of bio-remediation will be completed and height of waste is expected to be reduced further and this process will be followed continuously.
- E. **Status of Waste to Energy (WTE) Plant-** Environment Clearance for setting up of Integrated WTE has been obtained from Ministry of Environment, Forest and Climate Change. Consent to establish (CTE) has also been obtained from Haryana State Pollution Control Board for construction of 15 MW Waste to Energy (WTE) Plant at Bandhwari, Gurugram. The process of treatment of legacy waste will continue simultaneously. The construction work of WTE plant is expected to be completed by December 2024. The Power Purchase Agreement has already been signed by Concessionaire and submitted to Haryana Power Purchase Centre (HPPC). After construction of WTE is completed, the MSW upto 2500 TPD will be processed which will solve the problem of piling of legacy & fresh waste.
1. **Precautionary measures taken to prevent ground water contamination and leachate treatments:-**MCG has made sufficient arrangements to collect the entire leachate generated by laying of perforated pipe grids and construction of leachate ponds lined with Geo-textile and HDPE liner for water proofing. The stored leachate is treated through leachate treatment plants and further transferred to Behrampur STP for final disposal. Leachate treatment is being carried out @ 550 KLD in two DTRO plants and one Dissolved Air Flotation (DAF) based treatment plants. Online monitoring system has also been provided for monitoring of treated Leachate through DTROs. In the CPCB report dated 14.01.2021 it is mentioned that test reports of treated leachate are meeting the standard for treated leachates specified in Schedule II of SWM Rules 2016.
  2. That sincere efforts are being made by MCG to treat legacy waste at Bandhwari in committed timeline as per action plan and simultaneously for setting up of WTE plant with sufficient budget outlays passed by Municipal Corporation Gurugram. The above schedule is planned so that waste is treated and parallel work for establishment of WTE plant is also initiated. Municipal Corporation Gurugram will further seek technical guidance from CPCB time to time for proper solution of waste treatment and to prevent ground water contamination.

### **(ii) Plastic waste Management**

The Government has notified the Plastic Waste Management Rules, 2016, in suppression of the earlier Plastic Waste (Management and Handling) Rules, 2011. The local bodies are directed to ensure that the plastic waste generated from the all the local bodies are to be segregated and

## District Environment Plan

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recyclable plastic waste are sold to the recyclers, low value plastic are utilized for road laying and the non-recyclable plastic waste is sent to co-incineration in Cement Plant and the remaining inerts are disposed for landfill. In order to give thrust on plastic waste minimization, source segregation, recycling, involving waste pickers, recyclers and waste processors in collection of plastic waste fraction either from households or any other source of its generation or intermediate material recovery facility and adopt polluters pay principle for the sustainability of the Waste Management system, MoEF&CC has notified Plastic Waste Management Rules, 2016 as amended. The development comes in the backdrop of MCG starting construction of 10-kilometre roads with plastic waste — four km in Sushant Lok 1 and six km in Palam Vihar last week. Polymers or Plastics materials rapid growth in 1970s, 1980s and 1990s growing at the rate of 2.5 times the GDP growth in India. The demand for plastic raw material got more than doubled from 3.3 Million Metric Ton to 6.8 Million Metric Tons in 2010 attributed mainly to rapid urbanization; spread of retail chains, plastics based packaging from grocery to food & vegetable products to cosmetics & consumer items. Plastics packages have its merits but due to its non-biodegradability and improper collection system they become an eyesore alongwith Municipal Solid Waste (MSW) due to its high visibility. As the synthetic & conventional plastics (petro-based) are non-biodegradable in nature, it remains in the dump-yards/ landfills for several years, if not collected properly. In India, with dense population in cities & urban areas, despite of all efforts by Municipal Corporations/Local bodies, Source segregation of waste for separation of biodegradable/non-biodegradable/recyclable waste has not been effective so far & the fact is plastics carry bags are used for packing & disposal of all kind of households, stained/soiled food or non food items & got mixed up with them. If plastics bags or packaging can be sorted or segregated from the source itself for beneficial purposes, the mixed contaminated & comingled waste would not land up at dump yards in cities.

According to the reports for year 2017-18, Central Pollution Control Board (CPCB) has estimated that India generates approximately 9.4 Million tonnes per annum plastic waste, (which amounts to 26,000 tonnes of waste per day), and out of this approximately 5.6 Million tonnes per annum plastic waste is recycled (i.e. 15,600 tonnes of waste per day) and 3.8 Million tonnes per annum plastic waste is left uncollected or littered (9,400 tonnes of waste per day).

➤ Out of the 60% of recycled plastic:

- 70% is recycled at registered facilities

## District Environment Plan

- 20% is recycled by Unorganized Sector
- 10% of the plastic is recycled at home.

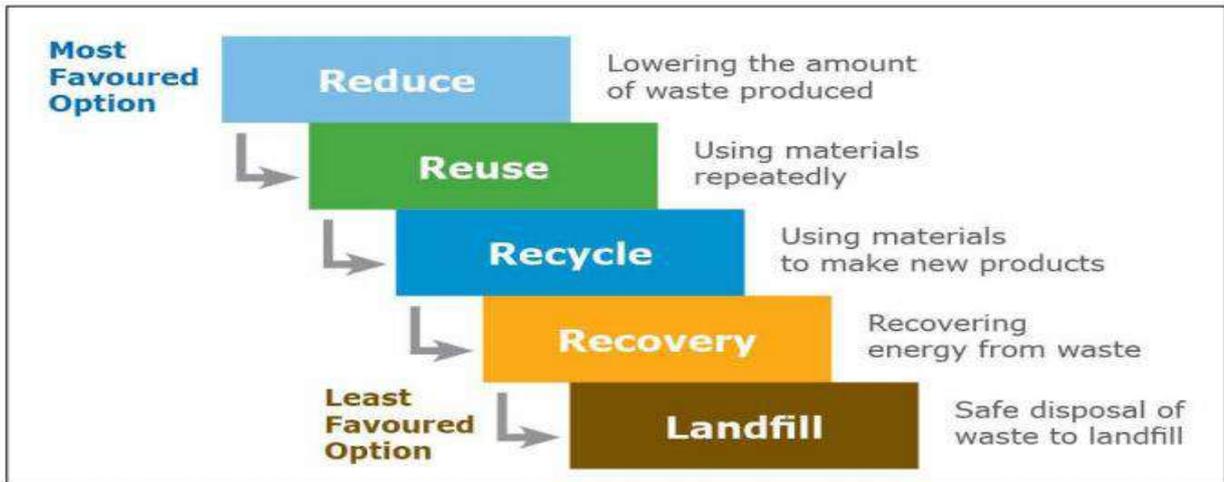
SR. NO.	SOURCE CODE	NAME OF PLASTIC	FEW APPLICATIONS
1.	PET	Polyethylene Terephthalate (PET)	Drinking water Bottles, Soft drink Bottles, Food jars, Jelly pickles, Plastics Films, Sheets
2.	HDPE & LDPE	High Density Polyethylene (HDPE) Low Density Polyethylene (LDPE)	Plastics bags, Food containers, woven sacks, Bottles, Plastics Toys, Milk Pouches & Shopping Bags, Metalized Pouches
3.	PVC	Polyvinyl Chloride (PVC)	Pipes, Hoses, Sheets, Wire, cable insulations, Multilayer Tubes
4.	PP	Polypropylene (PP)	Disposable Cups, Bottle caps, Straws,
5.	PS	Polystyrene (PS)	Disposable Cups, glasses, Plates, spoons, trays, CD Covers, Cassette Boxes, Foams
6.	OTHER	Thermoset, Poly Carbonate (PC), Poly urethane (PU) FRP	CD, Melamine Plates, Helmets, Shoe soles.

Table 15 Source: CPCB.nic.in

### Strategies for Plastic Waste Management

- **Sustainable alternative choices based on the principle of 4Rs (Reduce, Reuse, Recycle, and Recover):** Focus should be on implementing policies which help reduce waste from societies, like fewer and reusable packaging, buyback schemes to put back plastics into circular economy loops, and initiatives like agriculture residues as alternate packaging, that target reduction of stubble burning as well as plastics in the environment. It also need further research and development to develop products that have similar barrier properties and are easily biodegradable under standard temperature and pressures and leave lesser water and carbon footprint with a lifecycle assessment approach. It will be, however, equally important to develop ways to tackle the newly developed products. This would, however, require regulation supporting incentive structure to make alternatives affordable for large-scale adoption and use. The government can target implementing these strategies in phases, with the first phase targeting products, which are major contributors to marine litter.

# District Environment Plan



Picture 10

- **Simply banning single-use plastics might not result in completely eliminating plastic waste challenges from society:** Strengthening the waste management practices (segregated collection and processing waste through material recovery facilities in cities) can help put plastic waste back to circular economy loop. The companies based on their recycling targets (under EPR mandate) can be issued plastic recycling credits which they can trade in the future. This will also ensure the collection of difficult-to-collect low-value and difficult-to-recycle products like multi-layer plastics. There is also a need that packaging for specific product is designed in a manner that it is easy to recycle and has standard characteristics (via BIS standards).



Picture 11

- **Upcycling the plastic waste, rather than downcycling, help obtain sustainability in management:** This would need substantial design and functional improvement to make these alternatives viable. As a last resort, cities should work towards using non-recyclable plastics to make roads or recover energy from non-reusable and non-recyclable plastics, using them as alternate fuels to replace fossil fuel.

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Picture 12 Source: CPCB report on Plastic Waste Management

- **Appropriate and effective awareness among various stakeholders ranging from waste generators, collectors including city managers, recyclers, till consumers for recycled/upcycled products to be strengthened:** A design benchmark will have to be developed by the Bureau of Indian Standards for quality control and creating a market for products produced from the recycled feedstock.



Picture 13

- **Interventions are required for strengthening the reverse logistics chain and mainstreaming informal recycling with formal recycling as per the circular economy approach:** It can be achieved through PROs funded by organizations who can provide incentives to the informal sector for collection of low-value plastics and tie-up with existing recycling infrastructure companies to produce products with higher economic potential. Local bodies and state governments will also have to play a vital role in establishing infrastructure that can help with a consistent supply of raw materials to recyclers and also

## District Environment Plan

establish recycling units closer to the cities (to reduce energy involved in transportation).

The government will also have to come up with better strategies to identify mechanisms for integrating informal sector actors into formal chains and implement better waste management.

- **EPR implementation through PROs that help deliver the produced plastic waste back to the recycling chain need to be strengthened— appropriately implemented and monitored:** The Indian government will have to leverage finances in mechanisms that allow segregation and segregated waste collection from cities and strongly apply EPR policies in consensus with state urban development bodies. Increasing the sustainability of plastics can bring new opportunities for modernization, competitiveness, and job creation, consistent with global economic, energy, and environmental objectives. We will have to adopt strategies which align with socio-economic upliftment of our informal sector and transit plastic waste management from a challenge to an opportunity.

### Status of Plastic Waste in the District

It is estimated around 230.5TPD is generated. There are around 341 recyclers in MC limits and these informal recyclers channelize around 45 TPD of plastic and Dry Waste. Further around 60 TPD of single use plastic has been utilized in construction of road. MCG in compliance of OA 247/2017 has created Special Environmental squad and has collected collected around Rs. 30,79,000/- for non compliance of PWM Rules, 2016 during 2022-2023. The development comes in the backdrop of MCG starting construction of 10-kilometre roads with plastic waste - four km in Sushant Lok 1 and six km in Palam Vihar last year. The first-ever plastic road in the city, a 100-metre stretch in Sector 51. It was found that plastic roads are extremely durable. The use of plastic lowered the maintenance costs as it does not allow water to stagnate and form potholes. MCG has made a provision in contract document to make the use of plastic mandatory in construction of bituminous roads in MCG area.

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

Sr.No	Urban Local bodies	Estimated quantity of Plastic Waste Generated per day
1	Municipal corporations	170 MT
2	Municipalities (Nagar Palikas)	2.5 (MC. F) 6.5 (MC.H) 0.04-0.05 TPD (MC.P)
3	Nagar Panchayats (Town area Councils)	Municipal Council, Sohna, 0.25 TPD

Sr.No	Local Bodies	Plastic Waste Generated per day
1	Block/Taluk/ Mandal Tehsils	--
2	Village/Gram Panchayats	51 Mt Per day 0.25 TPD (MC, Sohna)

# District Environment Plan

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

Sr.No.	Action points For village panchayats/blocks/municipalities/corporations	Identification of gap	Action plan	Agencies Responsible	Target time for Compliance
1.	Door to Door collection of dry waste including PW	No gap	NA	Municipal Corporation Gurugram	NA Already complied
		15%	<ul style="list-style-type: none"> <li>Action plan:- To provide transportation facility in under process in remain GPs</li> <li>IEC activities is being organized on regular basis to spread awareness towards solid waste in community engagement of safai karamchri in kachra sheds</li> </ul>	DDPO	
		<b>MCM</b> 10-15 %	Door to door tender has been awarded for the 100% waste collection including PW. The work has been commenced.	Concessionaire through MCM.	December, 2023
2.	Facilitate organized collection of PW at Waste transfer pointer Material Recovery Facility	No gap	Its continuous process. At present 07 MRF functional.	Municipal Corporation Gurugram	Already Complied
		This infrastructure is linked to SW management. May check gaps with respect to: kachra sheds are constructed in 52			

# District Environment Plan

		<p>GPs as collection center of plastic waste at GP level.</p> <ul style="list-style-type: none"> <li>• Availability of transfer point sand material recovery facility</li> <li>• Involvement of informal sector /NGO.</li> <li>• Register in g waste pickers</li> <li>• Linkage with PW recyclers</li> </ul> <p>Involvement of producers and brand-owners</p>			
		<p><b>MCM</b></p> <p>1. Availability of transfer point sand material recovery facility</p> <p>2. Involvement of informal sector /NGO.</p> <p>3. Linkage with PW recyclers</p> <p>Involvement of producers and brand-owners</p>	<p>1. 1 decentralized waste processing facility catering to 2 villages in Sector 8, Manesar with design capacity of ~4TPD.</p> <p>2. 1 decentralized waste processing facility established in Naurangpur with a design capacity of ~30-35 TPD (33 compost pits of 1 TPD design capacity each).</p> <p>3. 1 decentralized waste processing facility established in Sector-6 with a design capacity of ~30-35 TPD (38 compost pits of 1 TPD design capacity each have been constructed).</p> <p>4. 1 site at Manesar village have been identified and is</p>	<p>ULB</p>	<p>December 2023</p>

# District Environment Plan

			<p>functional as a waste processing site. A trommel of capacity 300 TPD is installed at the site.</p> <p>5. At present, some quantity plastic waste (35-40%) is being segregated via 3 MRF facilities and recycled through an informal network of ragpickers.</p> <p>6. MCM has done a survey to identification the ragpickers, 53 ragpicker are brought in formal SWM chain.</p> <p>7. A survey is being conducted by MCM to identify plastic producers/recyclers /stockiest in industrial area. For the industries identified during the survey, Municipal Corporation Manesar is conducting inspections to ensure compliance of Plastic Waste Management Rules, 2016.</p>		
3.	PW collection Centers	03 agencies have been empanel to collect the plastic waste and more agencies will be empanelled in near future	07 Nos. of MRF in city in which approx. 350 MT of Waste processed on daily basis.	MCG/HSPCB	Ongoing Task
		Local Bodies may set-up own centers and also involve producers and brand-owners or their PROs to	Plastic waste collection centre should be established inadequate numbers. Coordination with	Concessionaire alongwith all Municipal Committees , MCG &	Already Complied

# District Environment Plan

		facilitate setting up of collection centers.	State Urban Department maybe necessary	MCM.	
		<b>MCM</b>	<ol style="list-style-type: none"> <li>1. Tender (Tender Id: 2021_HRY_192 024_1 &amp; Tender Ref No. MCM/EE-SBM/2021/SPL-I) for Door-to-Door collection, transportation, processing as well as disposal of solid waste (including PW) has been finalized and work has already been commenced on 14.07.2022.</li> <li>2. 1 decentralized waste processing facility catering to 2 villages in Sector 8, Manesar with design capacity of ~4TPD.</li> <li>3. 1 decentralized waste processing facility established in Naurangpur with a design capacity of ~30-35 TPD (33 compost pits of 1 TPD design capacity each).</li> <li>4. 1 decentralized waste processing facility established in Sector-6 with a design capacity</li> </ol>	MC Manesar	December, 2023

# District Environment Plan

			<p>of ~30-35 TPD (38 compost pits of 1 TPD design capacity each have been constructed).</p> <p>5. 1 site at Manesar village have been identified and is functional as a waste processing site. A trommel of capacity 300 TPD is installed at the site.</p>		
4.	Awareness and education programs implementation	Awareness program and IEC activities is conducted in various areas of MCG	Yes being done through mass media, schools, Producer / brand owner campaigns and other channels	MCG/HSPCB	It is a continuous process
		<p><b>MCM</b> MC Manesar has taken initiatives like</p> <ol style="list-style-type: none"> <li>1. Bartan Bank</li> <li>2. Thaila Bank</li> <li>3. Har Ghar Thaila Abhiyan</li> </ol> <p>for promotion of alternatives to plastic and disseminating the message of plastic reduction. MCManesar has established ~7-8 facilities in total and establishment of more of these facilities is underway</p>	<ol style="list-style-type: none"> <li>1. Municipal Corporation Manesar is also organizing campaigns to promote awareness about ban of single use plastic as well as encouraging citizens to switch to alternatives like Jute and Paper. Several initiatives in this respect have been taken by MCM.</li> <li>2. Initiative of Bartan Bank for promotion of reusing of crockery and reduction of plastic appliances while</li> </ol>	MC Manesar	December, 2023

## District Environment Plan

			<p>e encouraging community participation.</p> <p>3. Conducting plastic waste management workshop for commercial establishments.</p> <p>4. Initiative of Jhola Bank for promotion of cloth bags over plastic bags and encourage reduction of Plastic across municipal corporation.</p> <p>5. Wall Paintings and Posters have been created to generate awareness on stop using plastic products.</p> <p>6. Fines have been imposed by MCM for non-compliance of PWM Rules 2016.</p> <p>7. MC Manesar has taken an active effort to involve an NGO for creating awareness and promotion of alternatives to plastic waste. NGO is also involved in campaigns related to Source Segregation of Waste and promotion of home composting of wet waste</p>		
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# District Environment Plan

			<p>generated</p> <p>8. MC Manesar has taken new initiative <b>Har Ghar Thaila Abhiyan</b> and engaging the School students to reach out to every household of rural area.</p> <p>9. MC Manesar has set up 5 RRR centres in various location in MC Area to collect dry segregated waste including plastic.</p>		
		<p><b>MCG Farrukhnagar &amp; Pataudi:</b> Awareness and education programs implementation are being done on regular intervals to aware peoples</p>	NA	-	
5.	Access to Plastic Waste Disposal Facilities	<p>Road constructed in Gurugram using shredded plastic waste. Use of shredded plastic waste.</p>	<p>PW recycling facilities are available at reasonable distance in surrounding area of MCG Site is 1.5 km from the main city.</p>	MCG / HSPCB	NA
		<p><b>MCM</b> MC Manesar has floated a survey for identification plastic recyclers operating along with their corresponding capacity of disposal facilities located within the</p>	<p>1. As per HSPCB records, 1 registered recycler has been identified which is near Manesar - 1 (Trust Me Recycle Private Limited). 2. A survey is also being</p>	MC Manesar	December, 2023

## District Environment Plan

		<p>municipal boundary. The survey would also help identify informal workforce employed in the recycling chain which would be formalized into SWM chain by the administration</p>	<p>conducted by MCM to identify all plastic recyclers in industrial area of Manesar.</p> <p>3. Once all registered recyclers have been identified, efforts shall be made by MCM to do agreements with these recyclers for plastic waste recycling.</p>		
		<p><b>MC, Farrukhnagar &amp; Pataudi:</b> Accessible (Door to door collection is being done)</p> <p>All MCs may identify plastic waste processing facility within or outside state.</p> <p>Necessary agreement with plastic waste processing facility for processing of plastic waste may be made by each MC.</p> <p>All MCs may start sending plastic waste to plastic waste processing facility.</p>			<p>30.09.2023</p> <p>31.10.2023</p> <p>30.11.2023</p>

# District Environment Plan

## (iii) C&DWasteManagement

### Introduction of Construction & Demolition Waste

Construction and demolition (C&D) waste is debris or inert waste from construction, renovation, and demolition of structures such as buildings, roads, and bridges.

#### Action points:

- ❖ C&D waste management as part of Low Carbon Green Growth Strategies.
- ❖ Laws for step-by-step demolition and utilization of recycled aggregates.
- ❖ Separate building codes for various recycled aggregates and road pavements. Fast track the formation of BIS codes on recycled material.
- ❖ Standard building construction specifications that recommend greater use of recycled materials.
- ❖ A construction waste charge on developers to reduce disposal at landfills and subsidize waste recycling centers.
- ❖ Standards for Aggregates that focus on fitness of use and do not discriminate between resources.
- ❖ Recycling waste concrete, asphalt and sludge for road construction, and extensive use of recycled products in non-structural frameworks.
- ❖ Promote the use of alternative construction material Include recycled C&D waste products in the Central Public Works Department's (CPWD) Schedule of Rates (SOR) Promote construction management practices to minimize waste Introduce tax policies to minimize waste and prevent unsafe disposal.

#### MAJOR THRUST AREAS:

- ❖ The booming construction industry, expected to develop about 104 billion sq ft of land by 2030.
- ❖ The lack of a systematic database and official data creates serious problems for debris collection and treatment.
- ❖ The changes to the Bureau of Indian Standards (BIS) regarding codes that permit the use of recycled building components are yet to be implemented
- ❖ Taxes on recycled C&D products increase their cost relative to virgin products.

#### a.CurrentstatusrelatedtoC&D Waste

The MCG has started door to door collection for construction and demolition (C&D) waste across the city

Details of Data Requirement	Present Status
Total C &D waste generation in MT per day(As per data from Municipal Corporations/Municipalities)	3000 TPD (MCG) 0.5 TPD (MC. Pataudi)
Doesthe District has access to C&D waste recycling facility?	Yes (MCG)

#### Strategies to manage Construction & Demolition Waste

Construction and demolition waste is a big challenge for the city which sees rampant construction activities. On an average, Gurugram generates around 3000 tonnes of

## District Environment Plan

construction waste on a daily basis. In an effort to clear the city of construction and demolition (C&D) debris, the Municipal Corporation Gurugram has started C&D waste plant at Basai. According to the civic body, the C&D activities are very high in Gurugram due to which debris is generated in large quantities.

C&D waste management unit has been started by IL&FS at Basai. The processed waste will be used in making tiles, bricks, crushers, etc. A total of 1,00,000 tonnes of debris lying at various places in the city have been picked up so far. The MCG and the district administration have taken the issue seriously. The plant has a capacity to process 1000 tonnes of debris per day. Vehicles illegally dumping debris will be impounded under Section 292 (2) of Haryana Municipal Corporation Act 1994. Illegal dumping of debris will also be considered as a punishable offense under Section 188, 269, 278. Action will also be taken under sections 290 and 336 of Environment Protection Act-1986 and Section 15 (1) and (2) of Air (Prevention and Control of Pollution) Act-1981. Agency (Contractor) for door-to-door debris collection of debris is operational, Authorized vehicles of the agency collect the debris from the site (Door to Door).

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

S. No.	Action points for blocks / town municipalities / City corporations	Identification of Gaps	Action Plan	Responsible agency	Timeline for completion of action plan
1.	Arrangement for separate collection of C&D waste to C&D waste deposition point.	<p>Yes we have</p> <ul style="list-style-type: none"> <li>Separate collection point of C&amp;D Waste</li> </ul> <p><b>MCM</b> Yes, there exists a separate collection point from C&amp;D Waste</p> <p><b>MC, Farrukhnagar &amp; Pataudi:</b> Separate collection point of C&amp;D Waste is being done 1 tractor trolley available with MC for collection &amp; disposal</p> <p>Suitable site for deposition of C &amp; D waste may be identified</p> <p>The number of vehicles deployed for collection of C&amp;D waste=11</p>	<p>NA</p> <p>Already complied</p> <p>NA</p> <p>NA</p>	<p>MCG through its contractor.</p> <p>MC Manesar</p>	<p>NA</p> <p>Already complied</p> <p>31.10.2023</p>

## District Environment Plan

		<p>C &amp; D waste disposal site may be developed scientifically.</p> <p>Grinding machinery, for grinding/ crushing of C&amp;D waste to make C&amp;D waste recyclable, may be setup.</p> <p>The recyclable C&amp;D waste may be started sending for useful usage like paving blocks, lower layers of road pavements and rural road etc.</p>			<p>31.12.2023</p> <p>28.02.2024</p> <p>31.03.2024</p>
2.	<p>Whether local authority have fixed user fee on C&amp;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?</p>	<p>Yes MCG has fixed user fees.</p> <p>Permission system for Bulk Waste Generator yet to be implemented</p> <p><b>MCM</b> MC Manesar is yet to determine the user fees and establish a permission system for BWGs</p> <p><b>MC, Farrukh nagar &amp; Pataudi:</b> No BWG in MC area</p> <p>User fee on C&amp;D waste may be fixed.</p>	<p>C &amp; D waste processing facility has been developed by MCG. Where C&amp;D waste is being processed. The capacity of the Plant at present 1000 TPD which will be increased to 3000 TPD shortly.</p> <p>District has one C&amp;D Recycling facility of 1000 TPD at Basai</p>	<p>MCG</p> <p>MC Manesar</p> <p>Concessionaire alongwith all Municipal Committees, MCG &amp; MCM.</p>	<p>NA</p>

## District Environment Plan

3.	C&D recycling Facility	Yes district has C&D waste recycling facility at Basai	NA Facility already created	MCG/MCM	NA
4.	Usage of recycled C&D waste in non-structural concrete, paving blocks, lower layers of road pavements, colony and rural roads	Yes there is policy on usage or promotion on usage of C&D waste.  <b>MCM</b> Policy on usage or promotion on usage of C&D waste is yet to be implemented  <b>MC, Farrukhnagar &amp; Pataudi:</b> Usage of recycled C&D waste is being done by local residents & in filling low lying areas,	NA Recycled material like stone dust and other products are being used for road pavement and other work.  NA	MCG  MC Manesar	NA
5.	IEC on C&D waste management	Yes there is system of creating awareness among local communities.  <b>MCM</b> Yes, MC Manesar organizes campaigns and seminars in periodic intervals to create awareness among local communities	Various public notices has been issued for creating awareness for non dumping of C&D waste on road side etc.  Various ICE Initiatives like: - Campaigns - Seminars - Wall Paintings - Hoardings are implemented for creating awareness for proper management of waste	MCG  MC Manesar	NA  On going Task

## District Environment Plan

		<b>MC, Farrukhnagar &amp; Pataudi:</b> Awareness programs are being done on regular intervals			On going Task
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### (iv) Bio medical Waste Management

Gurugram generates around 5,000 kg of hazardous biomedical waste daily. And as per rules, all healthcare facilities operating in the city, irrespective of the method of treatment and the quantity of biomedical waste must seek authorization from HSPCB.

#### Segregation and treatment method for BMW:-

Color of Bin	Waste	Treatment
Yellow Bin	Soiled waste, Infectious waste Swabs, Gauze, Bandages, Linen, Body parts, Discarded Medicines etc	Incineration
Red Bin	Infected plastics Catheters, tubing's, IV bottles, Gloves, Blood Bags etc	Autoclaving & recycling
White Bin	Needles with or without syringes, scalpels, blades etc	Autoclaving & recycling to foundries
Blue Bin	broken glass, vials & ampoules etc	Autoclaving and recycling
Green Bin	Food waste , Fruit peels/seeds with no <u>polythenes</u> etc	Composting

**Table 15** Source: BMW rules, 2016

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

Inventory of BMW in the District	Quantity
Total no.of Bedded Healthcare Facilities	478 (HSPCB)
Totalno.of non-bedded HCF	1057 (HSPCB)

## District Environment Plan

No.of HCFs authorized by SPCBs/PCCs	1535 (HSPCB)
No of Common Biomedical Waste Treatment and Disposal Facilities(CBWTFs)	1 (HSPCB)
Capacity of CBWTFs	20 Ton/Day (HSPCB)
No. of Deep burials for BMW if any	NA (HSPCB)
Quantity of bio-medical waste generated per day	7.5 ton approx (including COVID waste) (HSPCB)
Quantity of biomedical waste treated per day	7.5 ton approx (HSPCB)



# District Environment Plan

## Common Bio Medical Waste Treatment & Disposal Facility (CBMWTF)

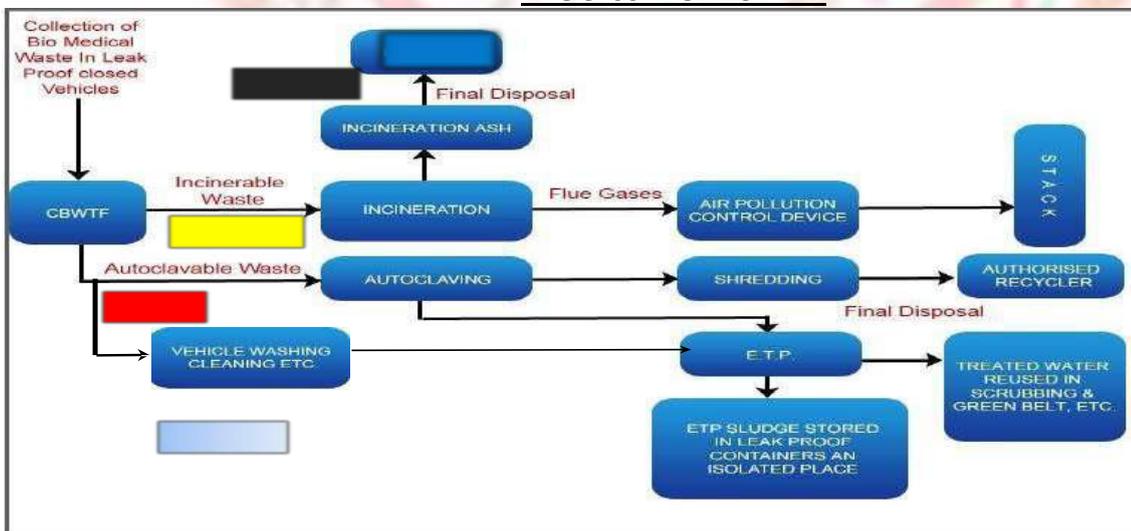
HSPCB has authorized M/s Biotic Waste Limited, Plot no 725, Pace City-II, Sector 37 Industrial Area, Gurugram, Haryana for treatment of Bio Medical Waste generated from the Health Care Facilities (HCFs) in Gurugram District

- Total Treatment Capacity - 20 Tons/day
- Incinerator Capacity - 500 kg/hr (Rotary)
- Autoclave Capacity - 500 kg/batch (300 kg/batch & 200 kg/batch)
- Shredder - 250 kg/hr
- ETP - 6 KLD
- APCS - Dry air pollution control system with
  - Lime reactor
  - Gas cooler
  - Sodium bi carbonate injection system
  - Activated carbon injection system
  - Ceramic Bag filter house (World Class Filters)
  - Packed bag scrubber & Mist Eliminator
- Vehicles - 15 Nos (GPS Enabled)

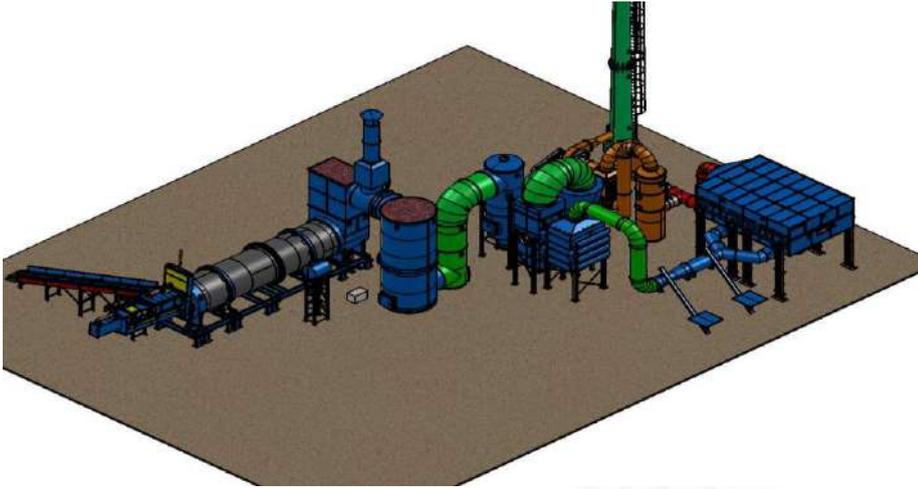
The incineration technology (Rotary Kiln) is installed as per BMW Management Rules 2016,. The Basic features of the new technology is as under:

- **2 seconds** residence time of flue gas in secondary chamber.
- 7 stage flue gas cleaning system with **Ceramic Bag FilterHouse**, Imported from Germany.
- Latest air pollution control device to comply with the revised emission standards specially with respect to **SPM**.
- Equipment design and Air Pollution Control System (Dry) to control the emissions of **Dioxins and Furans**.
- Equipped with **online air monitoring system** to check the efficiency of Air Pollution Control System.
- SCADA based **fully automated operating system**.

### PROCESS FLOW CHART



# District Environment Plan



**ROTARY KILN INCINERATOR**

**AUTOMATIC HYDRUALIC FEEDING SYSTEM**

**ROTARY KILN-PRIMARY CHAMBER TEMPERATURE MAINTAINED- MINIMUM 800 DEGREES**



**AUTOMATIC FEEDING SYSTEM WITH ROTARY**

## District Environment Plan



**GAS COOLER (INDIRECT COOLING WITH WATER)**



**CERAMIC BAG FILTER HOUSE CERAMIC FILTERS IMPORTED FROM GERMANY**



**LARGE VACCUM AUTOCLAVE**

## District Environment Plan



**SHREDDER TO CUT WASTE AFTER AUTOCLAVING**

### **Status of District during COVID-19**

During COVID-19 pandemic since beginning all BMW disposal guidelines specific to COVID-19 was properly followed in district. As and when CPCB guidelines amended time to time was properly conveyed and strict adherence to these guidelines was ensured from all health institutions under direct monitoring and supervision by Civil Surgeon Gurugram. Till as of now district Gurugram has done 1874868 COVID samples and strict disposal of COVID waste was ensured as per guidelines till now we have organized 54 training sessions since last year regarding BMW management of COVID waste. All health workers have been trained on BMW management. All health institutions have signed MoU with Biotic waste management. Regular awareness sessions and IEC regarding BMW management, COVID protocol have been done at all facilities and community.

All villages have been mapped with their respective sub-centers, sub-centers are further mapped with respective PHCs and proper BMW disposal at outreach camps have been ensured. Till now we have COVID vaccinated 2435768 persons. Monthly orientation on BMW has been ensured in monthly clinical meeting of all doctors. Some institutions have been upgraded as mentioned below:

Sr. No.	Name of Institution	Status	Remarks
1.	District Civil Hospital	Declared unsafe, Premise vacated	Planning of new complex in process.
2.	Civil Hospital Sector-10	New 100 bedded block to be constructed	Work in process.
3.	50 Bedded Hospital, Farrukhnagar	Up-gradation of CHC to 50 bed hospital	Construction under process
4.	PHC Nakhrola	New PHC	Construction under process

**Table 16**

# District Environment Plan

## b. Identification of gaps and Action plan

S. No.	Actionpoints	Gaps	ActionPlan	Responsible agency	Timeline for completion of action plan
1.	Inventory and Identification of Health care Facilities	NA	Being Complied	HSPCB	Activity Achieved
2.	Adequacy of facilities to treat bio medical waste	Complied	Complied	HSPCB	Adequate facility available
3.	Tracking of BMW	55 % Complied	Being Complied	HSPCB	31.12.2023
4	Awareness and education of healthcare staff	Awareness program is being done by HSPCB, MCG.  The trainings w.r.t safety of workers during handling, recycling and disposal of hazardous waste may be imparted on quarterly basis and PPEs may be provided to the workers from time to time.	Being Complied	HSPCB/MCG/ Health Department	Quarterly
5	Adequacy of funds	Yes	Yes	Health Department	Ongoing process
6	Compliance to Rules by HCFs and CBWTFs	Mandatory inspections are being conducted to check the compliances.	HSPCB may make surprise inspection of HCFs to check the compliance of Biomedical Waste Management Rules, 2016 twice in a year and action against the defaulting HCFs may be taken as per the provisions of the said rules. Similarly, surprise inspection of CBWTFs may be conducted on quarterly basis and incase non-compliances are observed, action under the provisions of said rules may be taken.	HSPCB	Ongoing process

## District Environment Plan

7	District Level Monitoring Committee	Yes	Complied	HSPCB	Complied
8.	Waste water Treatment	As per BMW rules, 2016 those HCF which are to be installed ETP has installed the same.	Remaining HCFs to install ETP.	HSPCB	31.12.2023



# District Environment Plan

## (v) Hazardous Waste Management

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

Major source of hazardous waste (HW) is industries and facilities located in the districts, who are required to be regulated under Water (P&CP) Act 1974, Air (P&CP) Act 1981 and E(P) Act, 1986 and the Rule notified thereof. Many commercial establishments like automobile repair shops, paint workshops, stores, etc. may also generate small quantities of hazardous waste. The district administration should be aware of the type of hazardous waste generation in their district and adequacy of facilities for safe handling and disposal within or outside District. Linkage of district administration with common TSDFs in the State is necessary to establish system for safe disposal of domestic hazardous waste

Details of Data Requirement	Present Status
No. of Industries generating HW	1591 (HSPCB)
Quantity of HW in the District	27939 MT/Annum (HSPCB)
(i) Quantity of Incinerable HW	12245 MT/Annum (HSPCB)
(ii) Quantity of land-fillable HW	2223 MT/Annum (HSPCB)
(iii) Quantity of Recyclable/ utilizable HW	6485 MT/Annum (HSPCB)
No of captive/common TSDF	NA
Contaminated Sites or probable Contaminated sites	3 Nos (HSPCB)

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

S. No.	Action points	Identification of Gaps	Action Plan	Responsible agency	Timeline for completion of action plan
1.	Regulation of industries and facilities generating Hazardous Waste	1358 nos. industries has made agreement with M/s Gujrat Environment Protection & Infrastructure Ltd., Faridabad (GEPIL) and authorized recyclers for used oil & ETP sludge.	Complied	HSPCB	Ongoing process
2.	Establishment of collection centers	M/s Gujrat Environment Protection & Infrastructure Ltd., Faridabad	Complied	HSPCB	Complied

## District Environment Plan

		(GEPIL) is having storage facility for collected hazardous waste from the industries and also provided GPS enabled vehicles for transportation of HW.			
3.	Training of workers involved in handling/recycling/disposal of HW	M/s Gujrat Environment Protection & Infrastructure Ltd., Faridabad (GEPIL) and all industries are providing training to their workers	Complied	GEPIL	Ongoing process
4.	Availability/Linkage with common TSDF or disposal facility	GEPIL has provided facility of transportation of Hazardous waste	Complied	GEPIL	Ongoing process
5.	Contaminated Sites	Complied	Complied	HSPCB	Already in process

### **Conclusion & Recommendations**

- i. All the hazardous waste generator, processor, user etc. should take proper permission/ authorization from HSPCB.
- ii. All the hazardous waste should be stored as per CPCB guidelines.
- iii. All the Hazardous Waste should be channelized to dispose to board authorized agencies only.

## District Environment Plan

### **(vi) E-Waste Management**

E-waste describes as discarded electrical or electronic devices. Used electrical & electronic items which are destined for refurbishment, reuse, resell, recycling through material recovery are considered as E-Waste. It is created when an electrical & electronic product is discarded after the end of its useful life.

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.

### **Strategies for E-Waste Management**

HSPCB has authorized following e-waste recycler/dismantler/refurbishes under E-Waste Management Rules, 2016 for proper management of e-waste generated from Gurugram District. MCG has also empanelled authorized E-waste recycling agency, M/s Deswal waste management for E-waste recycling programme around the city. E-waste collection bins has been installed at more than 35 RWAs and regular collection drives are been organized by MCG.

<b>Sr. No.</b>	<b>Name &amp; Address</b>	<b>Installed Capacity (MTA)</b>
1.	M/s Green Vortex Waste Management, (P),Ltd.,P. No.177/7,IMT,Manesar,Gurgaon	1500
2.	M/s SMS Enterprises, Plot No.544 D,1 <sup>st</sup> Floor,Sec- 7,Part-II,Pace City,Gurgaon	360
3.	M/s Earth Sense Recycle, Pvt .Ltd., Plot No.100, Sector-5,IMT,Manesar,Gurgaon	2160
4.	M/s Nirvana Recycling Pvt. Ltd.,Plot No.D-6,Udyog, Vihar,Phase-VI,Sector-37,Gurugram	6030
5.	M/s Deshwal Waste Management Pvt. Ltd.,Plot No. 292,Sector-7,IMT,Gurgaon	10000
6.	M/s 3R Recyclers, PlotNo.266,Sector-8,IMT ManesarGurgaon	850
7.	M/s 3R Recycler,Plot No.392,Sector-8, IMT Manesar Gurgaon	2994
8.	M/s Dlila Systems, 1stFloor, Plot No.61,Sector-8, IMT Manesar,Gurugram	474
9.	M/s Apicem Recyclers Pvt. Ltd., Plot No.359, Sector- 8, IMT Manesar,Gurugram,Haryana	510
10.	M/s KM Global E-Waste Private Limited, GroundFloorPlotno.-359, Sector-8,IMTManesar, Gurugram,Haryana	510

## District Environment Plan

11.	CUREARTH INDIA E WASTE RECYCLING Plot No. 22,Sector-8, IMT Manesar, Gurugram	510
12.	Ecoverva Waste Recycling Private Limited, Plot No. 350 Block C Village Pathreri Ansal Pioneer Industrial Park, Distt. Gurgaon	353.07
13.	Pegasus Waste Management Pvt. Ltd. 125//16/2,17/2,24/2,25,126//20/2/2,2 1/2,128//1/1,129, Village-Bhora Kalan, Gurugram	13134
14.	GREENHOLICS RECYCLERS PVT LTD, PLOT NO 234, SEC 8, IMT Manesar, Gurugram	322.24
15.	SGS Teknics Manufacturing Private Limited, Plot No-174,sector-4 ,IMT Manaser ,Gurugram	26.52
16.	Trust Me Recycler Pvt. Ltd., Plot No544-D, Basement, Pace City-II, Sector-37, Gurugram	750
17.	KTS Recycler Pvt. Ltd., Plot No129C, Sector-4, IMT Manesar, Gurugram	3200

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

DetailsofDataRequirement	PresentStatus
Inventory of E-Waste in MT/year	<b>130 MT/Year</b>
Collection centers established by ULBs in theDistrict	15 Nos. (HSPCB) Yes 24 (RWAs, Schools and Societies)
Collection centers established by Producers or their PROs	No
No authorized E-Waste recyclers /Dismantler	17 (HSPCB)

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

Sr. No.	Action points	Gaps in implementation	Action Plan	Responsible agency	Timeline for completion of actionplan
1	Inventory / Generation of E-Waste / Bulk-waste generators	Inventory regarding E-Waste in the Districthas to be prepared.  <b>MCM</b> Check whetherSPCB/PCC hascomplete inventory ofE-Waste in the District.Inventory of	Completion of inventory  Circulating the notices for the Recyclers/BWGs and Informal sectors	MCG/ HSPC B  MC Manesar	30.09.2023  December 2023

## District Environment Plan

		bulk wastegenerators	players for the inventory purpose of E-waste		
2	E-Waste collectionpoints	MCG authorized agency has set up collection center 24 (RWAs, Schools and societies)  <b>MCM</b> Availability of E-Wastecollection points / callcenters / kiosks invillages - Blocks//towns / Cities	MCs to establish e-collection points within MC area for facilitation of public.  <ul style="list-style-type: none"> <li>5 RRR Collection centres have been Established by MC Manesar where E-waste is also being collected.</li> </ul>	HSPCB/MCG  MCM	31.12.2022  December 2023
3	Linkage among Stakeholders to channelize E-Waste	Authorised agency engaged in recycling/dismantling /processing of e-waste may be identified.  Agreement with authorized agency may be made by MCs.  Collection of e-waste and sending to authorized agency	Identified  Agreement be made  Collection and sending	HSPCB  MCs  MCs	30.09.2023  31.10.2023  30.11.2023
4	Regulation of Illegal E-Waste recycling /dismantling	Action yet to be prepared for prevalence of informaltrading, dismantling,and recycling of E-wasteis inDistrict.  All MCs may identify illegal E-waste recycling/ dismantling facility and informal sectors existing within MC area.  Informal sectormay be integrated.	Action plan incoordination withMCG, HSPCB andDistrict Administration yet to be prepared.  MCs  MCs	HSPCB/MCG/Distt. Administration	31.10.2023  31.10.2023  30.11.2023

## District Environment Plan

5	Integration of informal sector	<p>Yet to be developed the mechanism for bringing in formal sector into main stream in collection and recycling of E-Waste</p> <p><b>MCM</b> Mechanism for bringing in formal sector into mainstream in collection and recycling of E-Waste yet to be established</p>	<p>Yet to be prepared by MCG</p> <p>53 Rag pickers we have been identified so far.</p> <p>Efforts will be taken to integrate them in to E-waste chain with the provision of livelihood opportunities.</p>	<p>MCG</p> <p>MCM</p>	<p>31.03.2023</p> <p>December 2023</p>
6	Awareness and Education	<p>Yes regular IEC activities like nukkadnatak and workshops are conducted</p>	<p>1. Raising awareness regarding impact of E-waste pollution.</p> <p>2. Educating the stakeholder regarding individual contribution towards sustainability.</p> <p>3. Inculcating the culture of waste segregation and importance of 3Rs of waste management</p> <p>4. Raising awareness about the role of young generation to change the status quo in terms of waste management in the households, Especially E- Waste</p>	HSPCB	It is a continuous process

### **Conclusion & Recommendations**

- i. E waste (Management) Rules 2016 should be stringently complied.
- ii. All E waste generator, processor, user etc. should take proper permission/ authorization from HSPCB.
- iii. All the E waste should be stored as per CPCB guidelines and Form 2 and 3 must be maintained by generator.

## District Environment Plan

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- iv. All the E-Waste should be channelized to dispose to board authorized agencies only.



# District Environment Plan

## Air Quality Management

### Introduction of Air Quality Management

The term air quality refers to the degree to which the air in a particular place is free from pollutants. Air pollutants are substances present in the atmosphere at concentrations above their normal background levels which can have a measurable effect on humans, animals and vegetation.

Sl. No.	Location / address of the station	City	Latitude & longitude	Type of Station (Manual / CAAQMS)	Monitoring agency	Parameters Monitored	Station operational since (Year)
1	HSPCB, Vikas sadan,	Gurugram	LAT.- 28.44869 Log-77.02784	CAAQMS	ESAIPL	PM2.5,CO,SO2,NO X,OZONE, VOC,WS,WD, VWS,TEMP,RH,AP, SOLAR RADIATION ,RAIN	2012
2	TERI GRAM Near Gwal Pahari	Gurugram	Lat- 28° 26' 43.368"N Log.- 77° 1' 3.9" E	CAAQMS	ESAIPL	PM10,PM2.5, SO2,OZONE, CO,VOC,NOX, NH3,WS,WD, TEMP,RH,SOLAR RADIATION, RAIN	Feb,2020
3	GURUGRAM UNIVERSITY SEC.51	Gurugram	Lat.-28.4227° N Log.- 77.0667° E	CAAQMS	ESAIPL	PM10,PM2.5, SO2,OZONE, CO,VOC,NOX, NH3,WS,WD, TEMP,RH,SOLAR RADIATION, RAIN	Feb,2020
4	Sector 2, IMT Manesar , Gurugram	Manesar	Lat: - 28.367900 Log :- 76.938950	CAAQMS	ESAIPL	PM10,PM2.5, SO2,OZONE, CO,VOC,NOX, NH3,WS,WD, TEMP,RH,SOLAR RADIATION, RAIN	Feb,2020

### Status of Industrial Air Quality Management in the District

All air polluting industries has installed Online Continuous Emission Monitoring System on pollution control devices installed by the unit which are connected CPCB & HSPCB service and data of the same are being regularly monitored by the HSPCB.

#### Industrial Clusters in Gurugram

- i. Udyog Vihar Phase I to V
- ii. Sector-18 & IDC
- iii. IMT Manesar
- iv. Sector-37 & Khandasa
- v. Sector 34 & Behrampur

# District Environment Plan

## a. Current Status related to Air Quality Management

DetailsofDataRequirement	PresentStatus
Number of Automatic Air Quality monitoringstationsintheDistrict. - Operated by SPCB / State Govt. / Central Govt./PSUagency: - OperatedbyIndustry:	4 Nos.
Number of manual monitoring States operatedbySPCBs	Nil
Nameoftowns/citieswhicharefailing to comply with national ambient air qualitystations	NA

No ofairpollutionindustries	301
Prominentairpollutingsources	Industries, Brick Kilns & Stone Crushers, unpaved roads, burning of waste /garbage/ stubble burning, construction project/vehicular pollution.

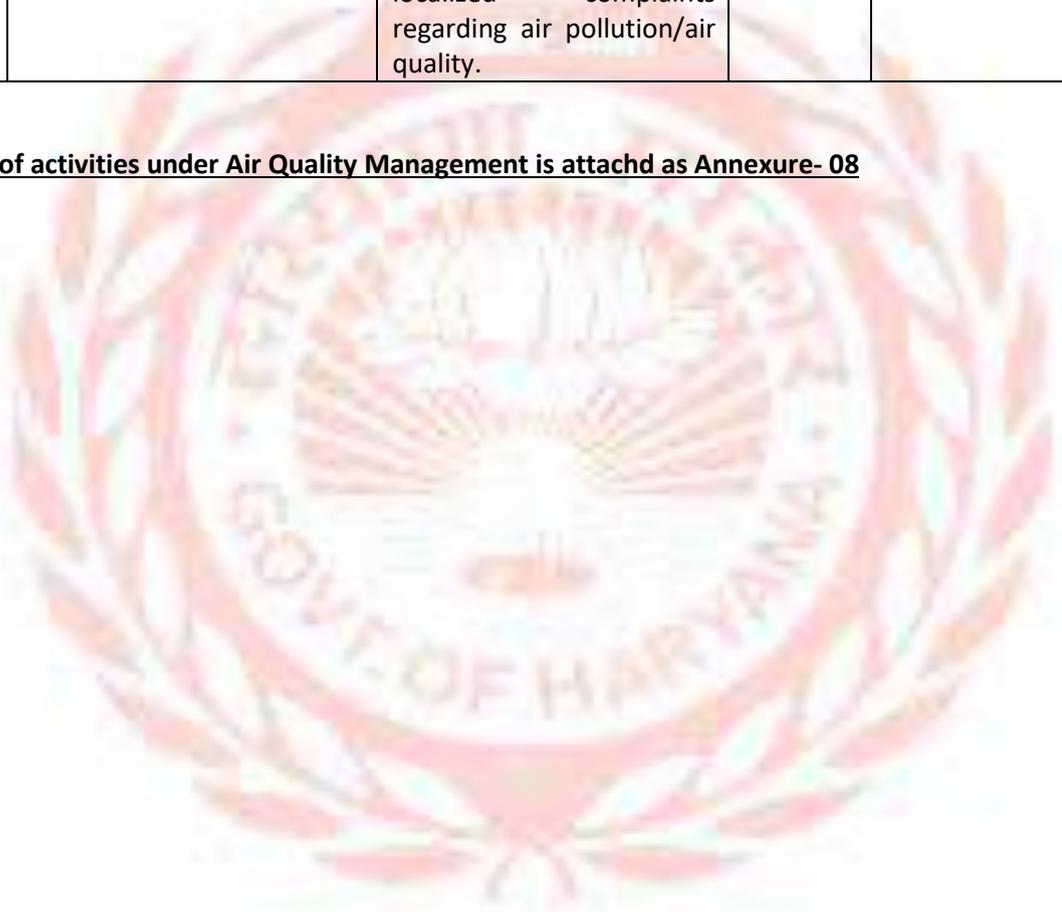
## b. Identificationofgapsandactionplan:

S. No.	Action points	IndicativeActionPlan	Responsi ble agency	Timelineforcompleti onof actionplan
1.	Identification of prominent air polluting sources ?	Inventory of air polluting sources has been prepared	HSPCB	Complied
2.	AmbientAirquality data?	There is an access toavailableairqualitymonit oring stations in theDistrict. Data generated by the CAAQMS being displayed on the website of HSPCB.	HSPCB	Complied
3.	Settingup of ContinuousAmbient Air QualityMonitoringStat ion	Already complied  01 More CAAQMS to be installed in the District.	HSPCB  HSPCB	4 nos. CAAQMS already installed at Vikas sadan, Gurugram, Gurugram University, Sector-51, Teri Gram, NearGwal Pahari &IMT Manesar, Gurugram.  30.06.2024

## District Environment Plan

4.	District Level Action Plan for Air Pollution	An Action plan has been prepared for both improvement of existing air quality.	HSPCB/GMDA	Low quality air sensors has been installed in the city by GMDA.
5.	Hot spots of air pollution in District	Hotspot with respect to air pollution (such as stubble burning, illegal waste burning, unauthorized operations, cluster activities, forest fires etc.) has been identified including localized action plan for mitigation of same.	HSPCB/MCG/Forest/HSII DC /ULB	Ongoing process
6.	Awareness on Air Quality	Awareness program are being done by HSPCB/MCG/GMDA. Sameer APP has been devised by the CPCB for localized complaints regarding air pollution/air quality.	HSPCB/GMDA/MCG	Ongoing process

**The details of activities under Air Quality Management is attached as Annexure- 08**



# District Environment Plan

## Water Quality Management

Systematic management of water resources is necessary to ensure the required balance between development pressures and the safeguarding of the natural and built environment for future generations. The purpose of Water Quality Management Plan (WQMP) is to reduce discharge of pollutants into urban runoff from development projects by reducing or eliminating sources of pollutants, and managing site runoff volumes and flow rates through best Management Practices.

The Master Water Supply has been designed with the responsibility of supplying bulk drinking water supply to the city for its present and prospective population demand as per the Master plan. The final published Development Plan i.e. Gurugram-Manesar Urban Complex (GMUC) 2031 was notified on 15-11-2012 for a total area of 33,872 hectares. The Development Plan projects a population of 42.5 lakh over the notified area. The total water requirement for the year 2019 is 420 MLD and for the prospective water demand shall be 570 MLD by year 2023.

## Water Quality Monitoring

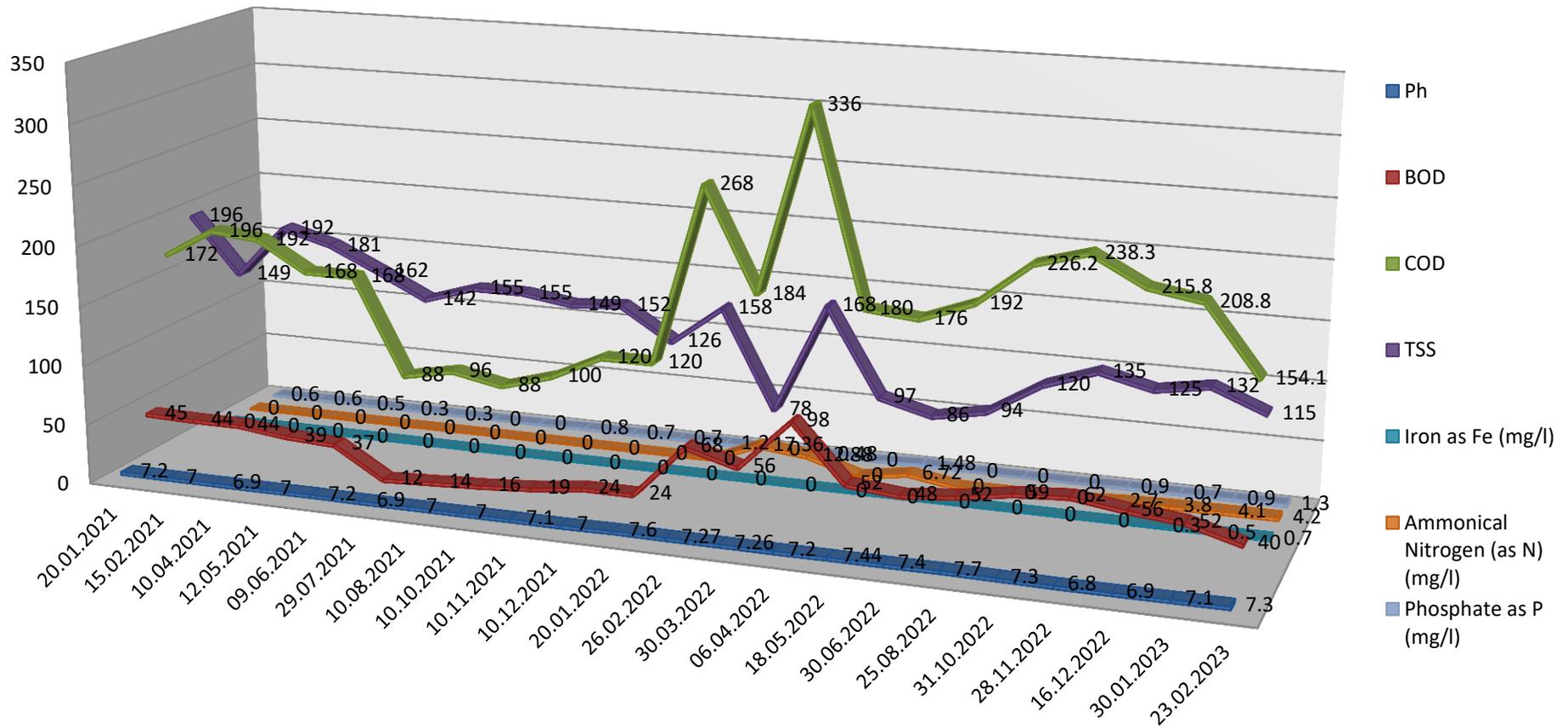
### a. Current Status related to Water Quality Management

DetailsofDataRequirement	PresentStatus
Rivers	Nil
Lengthof Coastline(if any)	Nil
Nalas/Drains/Creeks meeting Rivers	03 Nos.(MCG/GMDA) Leg-III (Badshahpur Drain)
Lakes/Ponds	75 Nos. Pond (MCG) Lake -1, Area- 70.99 Acres,
Total Quantity of sewage from towns and cities in District.	474 MLD & 4.9 MLD [Gurugram] (GMDA) 50 MLD MCM 12.20 MLD (PHED) 120.9 MLD (MCG) Total 662 MLD
Quantity of industrial waste water	13.27 MLD (HSPCB) 38 MLD [Manesar] (HSIIDC)
Percentage of untreated sewage	18%
Details of bore wells and numberofpermissionsgivenforextraction of groundwater	865 Nos. (PHED)
Ground water polluted areas ifany	-
Polluted river stretches if any	-

# District Environment Plan

## Qualitative & Quantitative analysis of Leg-I, Leg-II & Leg-III Drains

### Qualitative analysis of Leg-I Drain



# District Environment Plan

Leg I (Up stream i.e. before meeting Najafgarh Drain) at Village Bajghera Distt. Gurugram Latitude:- 28.531019

Longitude:- 77.001858

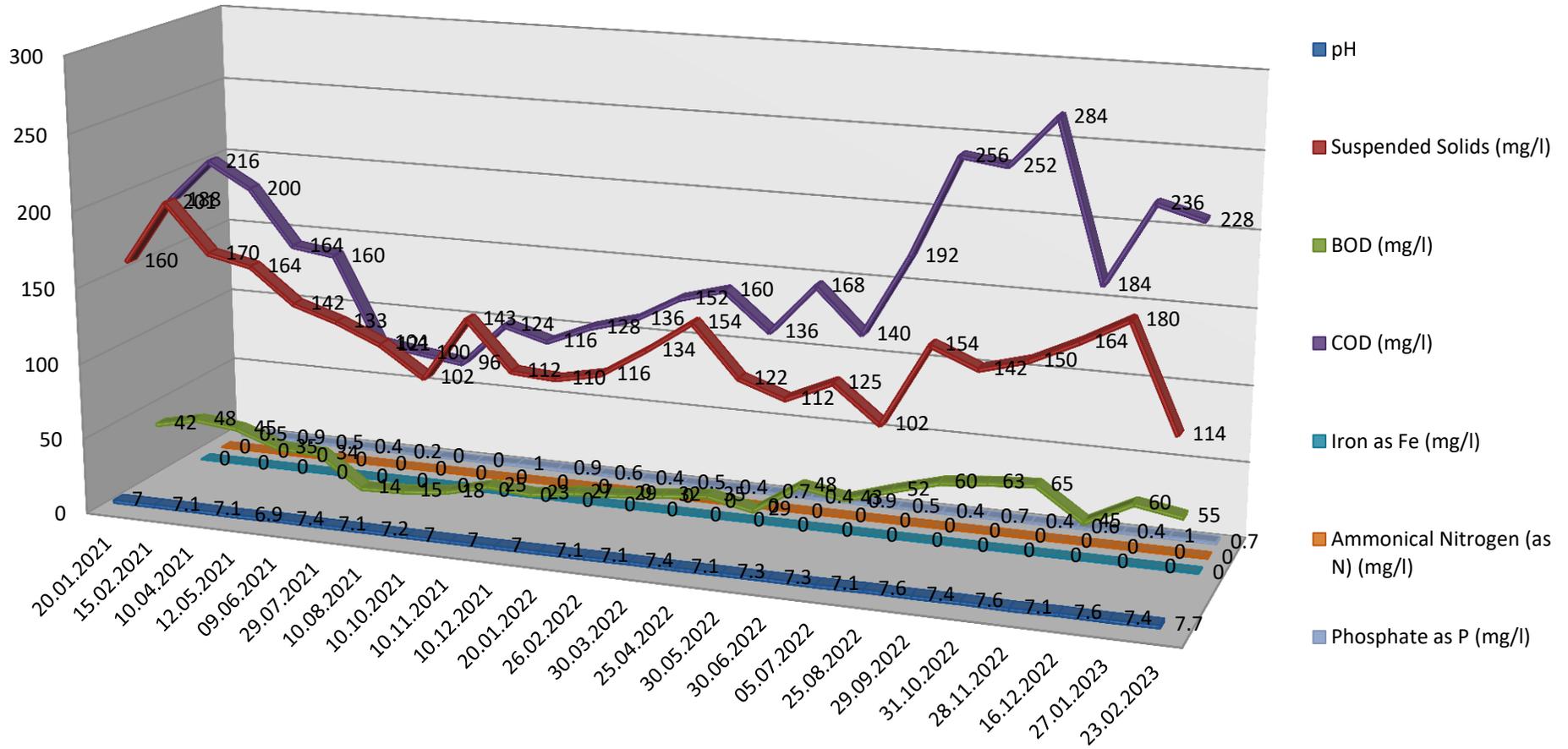
Date of sample collection	Colour	Odour	pH	Suspended Solids (mg/l)	BOD (mg/l)	COD (mg/l)	O & G (mg/l)	Conductivity (us/cm)	Iron as Fe (mg/l)	Hexavalent Chromium as Cr+6 (mg/l)	Total Chromium as Cr (mg/l)	Nickel as Ni (mg/l)	Zinc as Zn (mg/l)	Ammonical Nitrogen (as N) (mg/l)	Phosphate as P (mg/l)
20.01.2021	Greyish	Bad	7.2	196	45	172	ND	1560	ND	ND	ND	ND	ND	-	0.6
15.02.2021	Greyish	Bad	7	149	44	196	ND	1630	ND	ND	ND	ND	ND	-	0.6
10.04.2021	Greyish	Bad	6.9	192	44	192	ND	1940	ND	ND	ND	ND	ND	-	0.5
12.05.2021	Greyish	Bad	7	181	39	168	ND	1890	ND	ND	ND	ND	ND	-	0.3
09.06.2021	Greyish	Bad	7.2	162	37	168	ND	1850	ND	ND	ND	ND	ND	-	0.3
29.07.2021	Slight Greyish	Bad	6.9	142	12	88	ND	1510	ND	ND	ND	ND	ND	-	ND
10.08.2021	Slight Greyish	Bad	7	155	14	96	ND	1580	ND	ND	ND	ND	ND	-	ND
10.10.2021	Slight Greyish	Bad	7	155	16	88	ND	1580	ND	ND	ND	ND	ND	--	0.8
10.11.2021	Slight Greyish	Bad	7.1	149	19	100	ND	1210	ND	ND	ND	ND	ND	--	0.7
10.12.2021	Slight Greyish	Bad	7	152	24	120	ND	1370	ND	ND	ND	ND	ND	--	0.7
20.01.2022	Greyish	Bad	7.6	126	24	120	4	1610	BDL	BDL	BDL		BDL	--	1.2
26.02.2022	Blackish	Bad	7.27	158	68	268	8.5	1715	--	--	--	--	--	17.36	--
30.03.2022	Greyish	Mild	7.26	78	56	184	7.5	1835	--	--	--	--	--	12.88	0.48
06.04.2022	Blackish	Bad	7.2	168	98	336	14.5	--	--	--	--	--	--	--	--
18.05.2022	Greyish	Mild	7.44	97	52	180	4	2470	--	--	--	--	--	6.72	1.48
30.06.2022	Greyish	Mild	7.4	86	48	176	5	1950	--	--	--	--	--	--	--
25.08.2022	Greyish	Mild	7.7	94	52	192	4	1810	--	--	--	--	--	--	--
31.10.2022	Blackish	Bad	7.3	120	59	226.2	4.4	1490	--	--	--	--	--	--	--
28.11.2022	Greyish	Bad	6.8	135	62	238.3	4.6	2370	ND	ND	ND	ND	ND	2.7	0.9
16.12.2022	Greyish	Mild	6.9	125	56	215.8	4.2	2410	0.3	ND	ND	ND	ND	3.8	0.7
30.01.2023	Greyish	Mild	7.1	132	52	208.8	3.6	2590	0.5	ND	ND	ND	ND	4.1	0.9
23.02.2023	Blackish	Bad	7.3	115	40	154.1	2.6	2130	0.7	ND	ND	ND	ND	4.2	1.3

Table 17



# District Environment Plan

## Qualitative analysis of Up stream (i.e before meeting leg-1)



# District Environment Plan

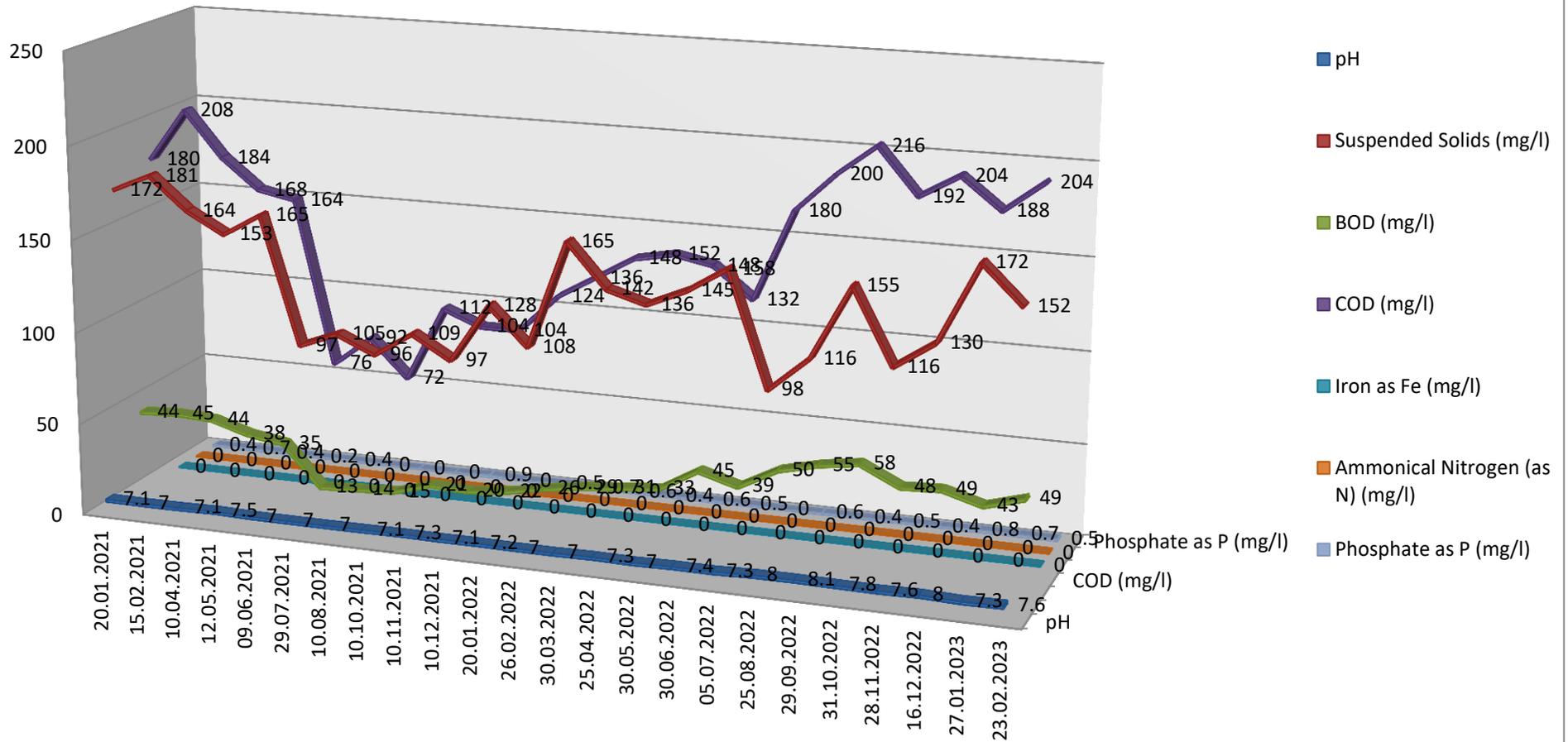
Najafgarh Drain, at Village Bajghera Distt. Gurugram Up stream (i.e. before meeting Leg I) Latitude 28.530603 Longitude:- 77.001181

Date of sample collection	Colour	Odour	pH	Suspended Solids (mg/l)	BOD (mg/l)	COD (mg/l)	O & G (mg/l)	Conductivity (us/cm)	Iron as Fe (mg/l)	Hexavalent Chromium as Cr+6 (mg/l)	Total Chromium as Cr (mg/l)	Nickel as Ni (mg/l)	Zinc as Zn (mg/l)	Ammonical Nitrogen (as N) (mg/l)	Phosphate as P (mg/l)
20.01.2021	Greyish	Bad	7	160	42	188	ND	1640	ND	ND	ND	ND	ND	--	0.5
15.02.2021	Greyish	Bad	7.1	201	48	216	ND	1710	ND	ND	ND	ND	ND	--	0.9
10.04.2021	Greyish	Bad	7.1	170	45	200	ND	1650	ND	ND	ND	ND	ND	--	0.5
12.05.2021	Greyish	Bad	6.9	164	35	164	ND	1740	ND	ND	ND	ND	ND	--	0.4
09.06.2021	Greyish	Bad	7.4	142	34	160	ND	1790	ND	ND	ND	ND	ND	--	0.2
29.07.2021	Slight Greyish	Bad	7.1	133	14	104	ND	1520	ND	ND	ND	ND	ND	--	ND
10.08.2021	Slight Greyish	Bad	7.2	121	15	100	ND	1610	ND	ND	ND	ND	ND	--	ND
10.10.2021	Slight Greyish	Bad	7	102	18	96	ND	1480	ND	ND	ND	ND	ND	--	1
10.11.2021	Slight Greyish	Bad	7	143	25	124	ND	1390	ND	ND	ND	ND	ND	--	0.9
10.12.2021	Slight Greyish	Bad	7	112	23	116	ND	1280	ND	ND	ND	ND	ND	--	0.6
20.01.2022	Greyish	Mild	7.1	110	27	128	3	1360	BDL	BDL	BDL	--	BDL	--	0.4
26.02.2022	Slight Blackish	Bad	7.1	116	29	136	ND	1320	ND	--	ND	ND	ND	--	0.5
30.03.2022	Slight Blackish	Bad	7.4	134	32	152	ND	1350	ND	--	ND	ND	ND	--	0.4
25.04.2022	Slight Blackish	Bad	7.1	154	35	160	ND	1350	ND	--	ND	ND	ND	--	0.7
30.05.2022	Slight Blackish	Bad	7.3	122	29	136	ND	1310	ND	--	ND	ND	ND	--	0.4
30.06.2022	Slight Blackish	Bad	7.3	112	48	168	2	1750	ND	--	ND	ND	ND	--	0.9
05.07.2022	Slight Blackish	Bad	7.1	125	43	140	ND	1350	ND	--	ND	ND	ND	--	0.5
25.08.2022	Slight Blackish	Bad	7.6	102	52	192	4	1680	ND	--	ND	ND	ND	--	0.4
29.09.2022	Slight Blackish	Bad	7.4	154	60	256	5	1750	ND	--	ND	ND	ND	--	0.7
31.10.2022	Slight Greyish	Bad	7.6	142	63	252	3	1710	ND	--	ND	ND	ND	--	0.4
28.11.2022	Slight Greyish	Bad	7.1	150	65	284	4	1790	ND	--	ND	ND	ND	--	0.6
16.12.2022	Slight Greyish	Bad	7.6	164	45	184	3	1950	ND	--	ND	ND	ND	--	0.4
27.01.2023	Slight Greyish	Bad	7.4	180	60	236	5	1690	ND	--	ND	ND	ND	--	1
23.02.2023	Slight Greyish	Bad	7.7	114	55	228	3	2350	ND	ND	ND	ND	ND	--	0.7

Table 18

# District Environment Plan

## Qualitative analysis of down stream (i.e after meeting Leg-I)



# District Environment Plan

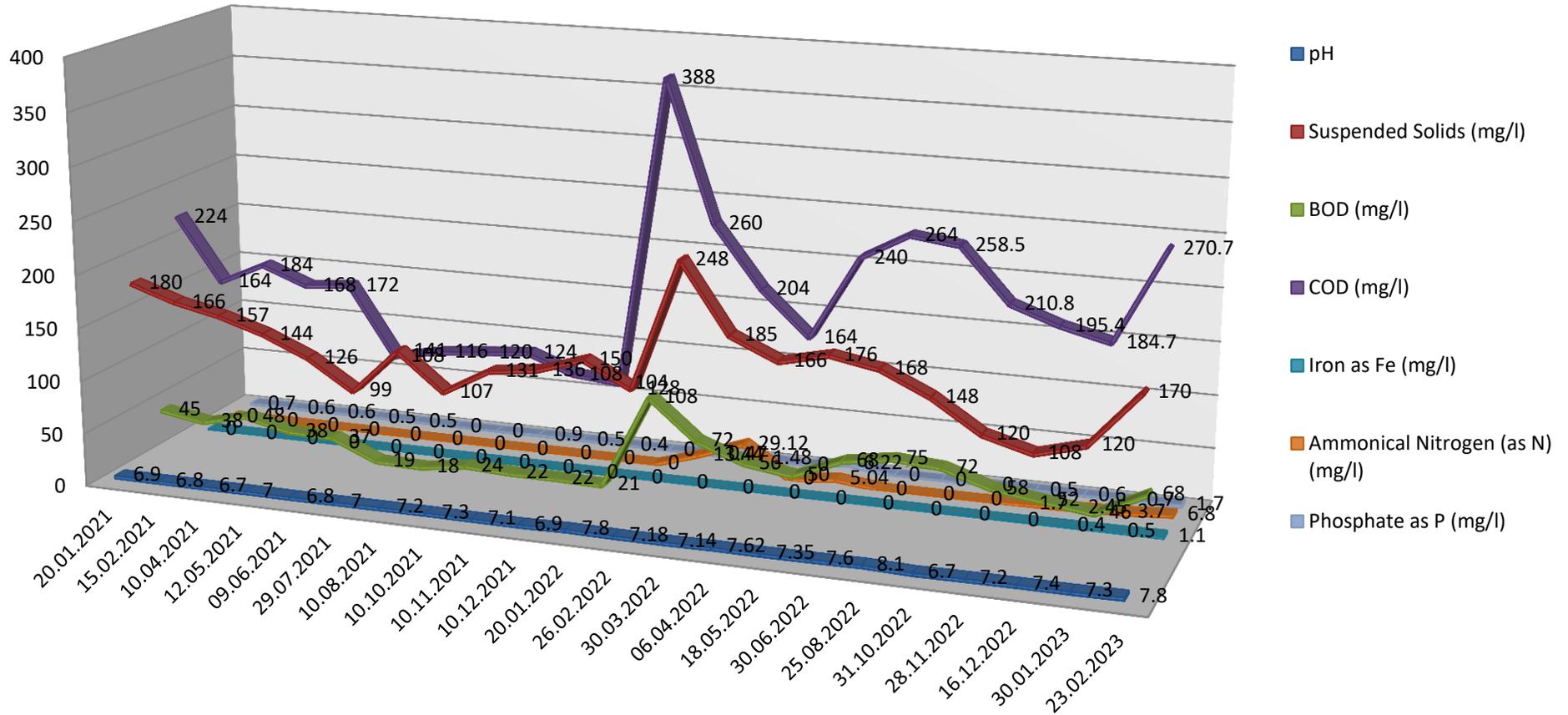
Najafgarh Drain, Gurugram down stream (i.e. after meeting Leg I) Latitude 28.532579 Longitude: 77.000662

Date of sample collection	Colour	Odour	pH	Suspended Solids (mg/l)	BOD (mg/l)	COD (mg/l)	O & G (mg/l)	Conductivity (us/cm)	Iron as Fe (mg/l)	Hexavalent Chromium as Cr+6 (mg/l)	Total Chromium as Cr (mg/l)	Nickel as Ni (mg/l)	Zinc as Zn (mg/l)	Ammonical Nitrogen (as N) (mg/l)	Phosphate as P (mg/l)
20.01.2021	Greyish	Bad	7.1	172	44	180	ND	1590	ND	ND	ND	ND	ND	--	0.4
15.02.2021	Greyish	Bad	7	181	45	208	ND	1610	ND	ND	ND	ND	ND	--	0.7
10.04.2021	Greyish	Bad	7.1	164	44	184	ND	1640	ND	ND	ND	ND	ND	--	0.4
12.05.2021	Greyish	Bad	7.5	153	38	168	ND	1580	ND	ND	ND	ND	ND	--	0.2
09.06.2021	Greyish	Bad	7	165	35	164	ND	1620	ND	ND	ND	ND	ND	--	0.4
29.07.2021	Slight Greyish	Bad	7	97	13	76	ND	1410	ND	ND	ND	ND	ND	--	ND
10.08.2021	Slight Greyish	Bad	7	105	14	92	ND	1450	ND	ND	ND	ND	ND	--	ND
10.10.2021	Slight Greyish	Bad	7.1	96	15	72	ND	1290	ND	ND	ND	ND	ND	--	
10.11.2021	Slight Greyish	Bad	7.3	109	21	112	ND	1340	ND	ND	ND	ND	ND	--	0.9
10.12.2021	Slight Greyish	Bad	7.1	97	20	104	ND	1310	ND	ND	ND	ND	ND	--	ND
20.01.2022	Greyish	Mild	7.2	128	22	104	4	1310	BDL	BDL	BDL	--	BDL	--	0.5
26.02.2022	Slight Greyish	Bad	7	108	26	124	ND	1250	ND	ND	ND	ND	ND	--	0.7
30.03.2022	Slight Greyish	Bad	7	165	29	136	ND	1290	ND	--	ND	ND	ND	--	0.6
25.04.2022	Slight Greyish	Bad	7.3	142	31	148	ND	1250	ND	--	ND	ND	ND	--	0.4
30.05.2022	Slight Blackish	Bad	7	136	33	152	ND	1290	ND	--	ND	ND	ND	--	0.6
30.06.2022	Slight Blackish	Bad	7.4	145	45	148	3	1820	ND	--	ND	ND	ND	--	0.5
05.07.2022	Slight Blackish	Bad	7.3	158	39	132	ND	1380	ND	--	ND	ND	ND	--	ND
25.08.2022	Slight Blackish	Bad	8	98	50	180	3	1640	ND	--	ND	ND	ND	--	0.6
29.09.2022	Slight Blackish	Bad	8.1	116	55	200	4	1720	ND	--	ND	ND	ND	--	0.4
31.10.2022	Slight Greyish	Bad	7.8	155	58	216	5	1670	ND	--	ND	ND	ND	--	0.5
28.11.2022	Slight Greyish	Bad	7.6	116	48	192	6	1680	ND	--	ND	ND	ND	--	0.4
16.12.2022	Slight Greyish	Bad	8	130	49	204	2	1890	ND	--	ND	ND	ND	--	0.8
27.01.2023	Slight Greyish	Bad	7.3	172	43	188	3	1710	ND	--	ND	ND	ND	--	0.7
23.02.2023	Slight Greyish	Bad	7.6	152	49	204	5	1960	ND	--	ND	ND	ND	--	0.5

Table 19

# District Environment Plan

## Qualitative analysis of Leg-II Drain



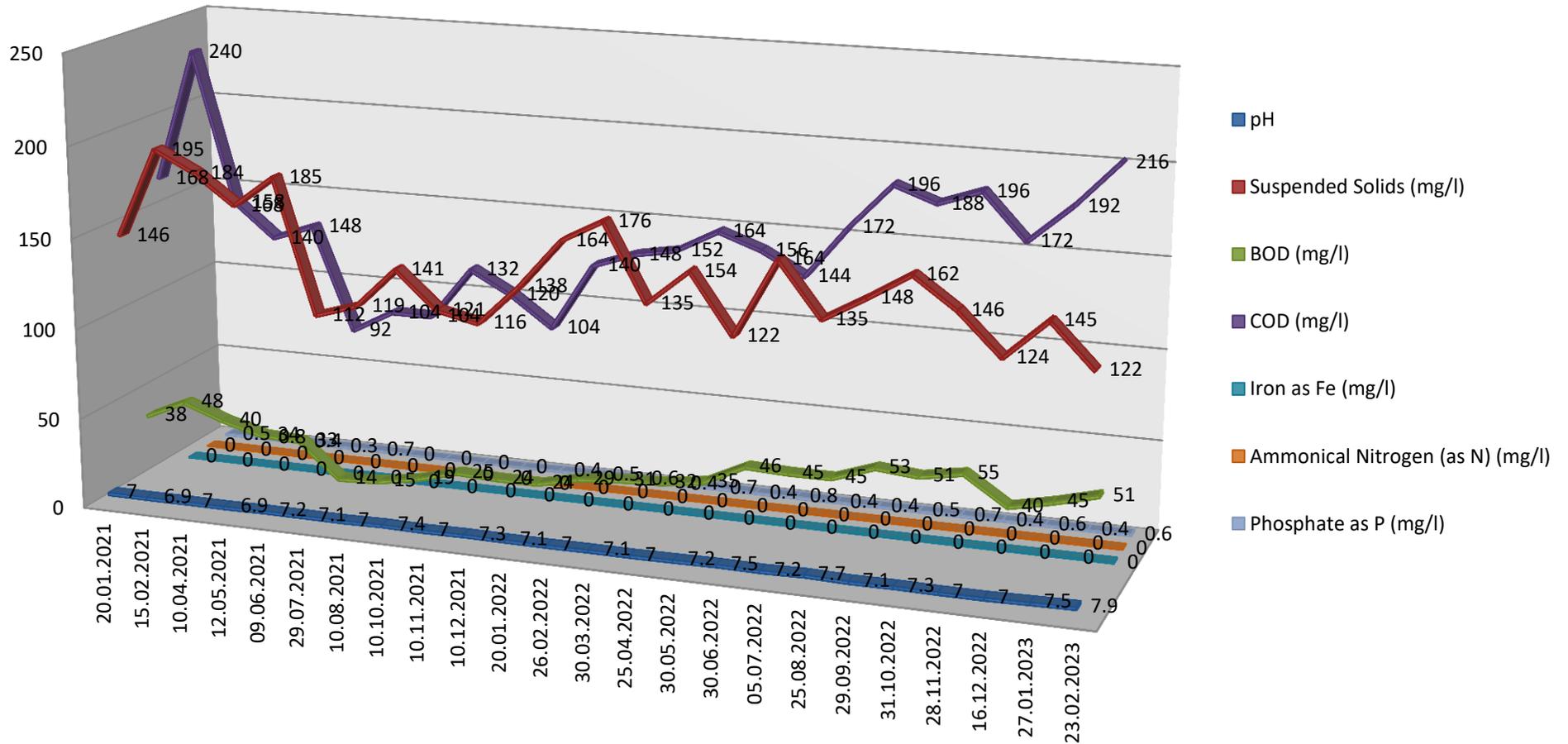
# District Environment Plan

Leg II (Up stream i.e. before meeting Najafgarh Drain) at Village Dharampur Distt. Gurugram Latitude:- 28.508322 Longitude:- 76.975010															
Date of sample collection	Colour	Odour	pH	Suspended Solids (mg/l)	BOD (mg/l)	COD (mg/l)	O & G (mg/l)	Conductivity (us/cm)	Iron as Fe (mg/l)	Hexavalent Chromium as Cr+6 (mg/l)	Total Chromium as Cr (mg/l)	Nickel as Ni (mg/l)	Zinc as Zn (mg/l)	Ammonical Nitrogen (as N) (mg/l)	Phosphate as P (mg/l)
20.01.2021	Greyish	Bad	6.9	180	45	224	ND	1610	ND	ND	ND	ND	ND	--	0.7
15.02.2021	Greyish	Bad	6.8	166	38	164	ND	1610	ND	ND	ND	ND	ND	--	0.6
10.04.2021	Greyish	Bad	6.7	157	48	184	ND	1650	ND	ND	ND	ND	ND	--	0.6
12.05.2021	Greyish	Bad	7	144	38	168	ND	1580	ND	ND	ND	ND	ND	--	0.5
09.06.2021	Greyish	Bad	6.8	126	37	172	ND	1610	ND	ND	ND	ND	ND	--	0.5
29.07.2021	Slight Greyish	Bad	7	99	19	108	ND	1450	ND	ND	ND	ND	ND	--	ND
10.08.2021	Slight Greyish	Bad	7.2	141	18	116	ND	1510	ND	ND	ND	ND	ND	--	ND
10.10.2021	Slight Greyish	Bad	7.3	107	24	120	ND	1320	ND	ND	ND	ND	ND	--	0.9
10.11.2021	Slight Greyish	Bad	7.1	131	22	124	ND	1390	ND	ND	ND	ND	ND	--	0.5
10.12.2021	Slight Greyish	Bad	6.9	136	22	108	ND	1510	ND	ND	ND	ND	ND	--	0.4
20.01.2022	Grey	Bad	7.8	150	21	104	5	1720	BDL	BDL	BDL	--	BDL	--	BDL
26.02.2022	Blackish	Bad	7.18	128	108	388	BDL	1760	--	--	--	--	--	13.44	0.47
30.03.2022	Blackish	Bad	7.14	248	72	260	14	2210	--	--	--	--	--	29.12	1.48
06.04.2022	Blackish	Bad	7.62	185	56	204	12.5	--	--	--	--	--	--	--	--
18.05.2022	Blackish	Bad	7.35	166	50	164	3.5	2380	--	--	--	--	--	5.04	6.22
30.06.2022	Greyish	Mild	7.6	176	68	240	5	1950	--	--	--	--	--	--	--
25.08.2022	Greyish	Mild	8.1	168	75	264	3	1780	--	--	--	--	--	--	--
31.10.2022	Blackish	Bad	6.7	148	72	258.5	3.6	1510	--	--	--	--	--	--	--
28.11.2022	Hazy	Mild	7.2	120	58	210.8	2.6	730	ND	ND	ND	ND	ND	1.7	0.5
16.12.2022	Blackish	Bad	7.4	108	52	195.4	2.8	940	0.4	ND	ND	ND	ND	2.45	0.6
30.01.2023	Greyish	Mild	7.3	120	46	184.7	2.4	1120	0.5	ND	ND	ND	ND	3.7	0.7
23.02.2023	Blackish	Bad	7.8	170	68	270.7	3.4	1690	1.1	ND	ND	ND	ND	6.8	1.7

Table 20

# District Environment Plan

## Qualitative analysis of Up stream (i.e before meeting Leg-II)



# District Environment Plan

Najafgarh Drain, at Village Dharampur Distt. Gurugram Up stream (i.e. before meeting Leg II) Latitude 28.510928 Longitude 76.961191

Date of sample collection	Colour	Odour	pH	Suspend ed Solids (mg/l)	BOD (mg/l )	COD (mg/l )	O & G (mg/l )	Conducti vity (us/cm)	Iron as Fe (mg/l)	Hexavalent Chromium as Cr+6 (mg/l)	Total Chromium as Cr (mg/l)	Nickel as Ni (mg/l)	Zinc as Zn (mg/l)	Ammonical Nitrogen (as N) (mg/l)	Phosphate as P (mg/l)
20.01.2021	Slight Greyish	Bad	6.9	140	40	184	ND	1570	ND	ND	ND	ND	ND	--	0.6
15.02.2021	Slight Greyish	Bad	7.1	149	38	144	ND	1610	ND	ND	ND	ND	ND	--	0.6
10.04.2021	Slight Greyish	Bad	6.9	132	40	188	ND	1590	ND	ND	ND	ND	ND	--	0.6
12.05.2021	Slight Greyish	Bad	7.4	118	38	164	ND	1690	ND	ND	ND	ND	ND	--	0.4
09.06.2021	Slight Greyish	Bad	7.1	135	35	160	ND	1660	ND	ND	ND	ND	ND	--	0.5
29.07.2021	Slight Greyish	Bad	7.4	121	17	92	ND	1140	ND	ND	ND	ND	ND	--	ND
10.08.2021	Slight Greyish	Bad	7.3	105	15	100	ND	1290	ND	ND	ND	ND	ND	--	ND
10.10.2021	Slight Greyish	Bad	7.4	141	19	104	ND	1510	ND	ND	ND	ND	ND	--	ND
10.11.2021	Slight Greyish	Bad	7	121	25	132	ND	1550	ND	ND	ND	ND	ND	--	ND
10.12.2021	Slight Greyish	Bad	7.3	116	24	120	ND	1350	ND	ND	ND	ND	ND	--	0.4
20.01.2022	Greyish	Mild	7.1	138	24	104	2	1340	BDL	BDL	BDL	--	BDL	--	0.5
26.02.2022	Slight Greyish	Bad	7	164	29	140	ND	1290	ND	--	ND	ND	ND	--	0.6
30.03.2022	Slight Greyish	Bad	7.1	176	31	148	ND	1310	ND	--	ND	ND	ND	--	0.4
25.04.2022	Slight Greyish	Bad	7	135	32	152	nd	1330	ND	--	ND	ND	ND	--	0.7
30.05.2022	Slight Blackish	Bad	7.2	154	35	164	nd	1350	ND	--	ND	ND	ND	--	0.4
30.06.2022	Slight Blackish	Bad	7.5	122	46	156	2	1780	ND	--	ND	ND	ND	--	0.8
05.07.2022	Slight Blackish	Bad	7.2	164	45	144	ND	1390	ND	--	ND	ND	ND	--	0.4
25.08.2022	Slight Blackish	Bad	7.7	135	45	172	4	1690	ND	--	ND	ND	ND	--	0.4
29.09.2022	Slight Blackish	Bad	7.1	148	53	196	6	1740	ND	--	ND	ND	ND	--	0.5
31.10.2022	Slight Greyish	Bad	7.3	162	51	188	4	1810	ND	--	ND	ND	ND	--	0.7
28.11.2022	Slight Greyish	Bad	7	146	55	196	6	1750	ND	--	ND	ND	ND	--	0.4
16.12.2022	Slight Greyish	Bad	7	124	40	172	2	1940	ND	--	ND	ND	ND	--	0.6
27.01.2023	Slight Greyish	Bad	7.5	145	45	192	3	2010	ND	--	ND	ND	ND	--	0.4
23.02.2023	Slight Greyish	Bad	7.9	122	51	216	4	1950	ND	--	ND	ND	ND	--	0.6

Table 21





# District Environment Plan

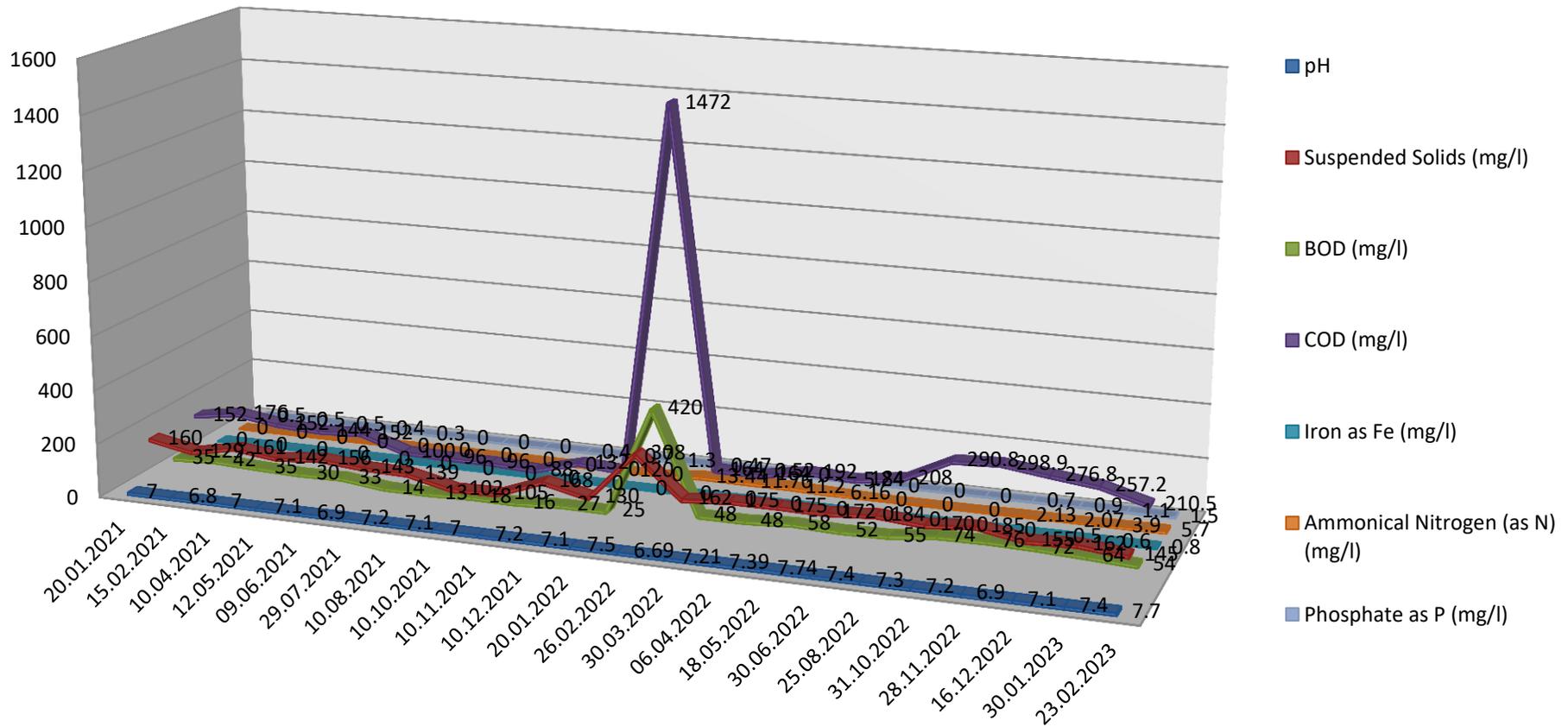
## Najafgarh Drain, at Village Dharampur Distt. Gurugram down stream (i.e. after meeting Leg II) Latitude 28.517001 Longitude 76.971370

Date of sample collection	Colour	Odour	pH	Suspended Solids (mg/l)	BOD (mg/l)	COD (mg/l)	O & G (mg/l)	Conductivity (us/cm)	Iron as Fe (mg/l)	Hexavalent Chromium as Cr+6 (mg/l)	Total Chromium as Cr (mg/l)	Nickel as Ni (mg/l)	Zinc as Zn (mg/l)	Ammonical Nitrogen (as N) (mg/l)	Phosphate as P (mg/l)
20.01.2021	Greyish	Bad	7.1	154	44	192	ND	1580	ND	ND	ND	ND	ND	--	0.4
15.02.2021	Greyish	Bad	6.9	171	42	208	ND	1640	ND	ND	ND	ND	ND	--	0.7
10.04.2021	Greyish	Bad	7	178	46	204	ND	1610	ND	ND	ND	ND	ND	--	0.7
12.05.2021	Greyish	Bad	7.5	185	36	160	ND	1720	ND	ND	ND	ND	ND	--	0.4
09.06.2021	Greyish	Bad	7.8	196	33	164	ND	1770	ND	ND	ND	ND	ND	--	0.3
29.07.2021	Slight Greyish	Bad	7.2	127	16	104	ND	1470	ND	ND	ND	ND	ND	--	ND
10.08.2021	Slight Greyish	Bad	6.9	161	17	108	ND	1510	ND	ND	ND	ND	ND	--	ND
10.10.2021	Slight Greyish	Bad	7.2	110	19	108	ND	1370	ND	ND	ND	ND	ND	--	0.5
10.11.2021	Slight Greyish	Bad	7	124	18	104	ND	1270	ND	ND	ND	ND	ND	--	0.7
10.12.2021	Slight Greyish	Bad	7.1	142	21	108	ND	1240	ND	ND	ND	ND	ND	--	0.7
20.01.2022	Greyish	Mild	7.3	156	23	136	4	1330	BDL	BDL	BDL	--	BDL	--	0.9
26.02.2022	Slight Greyish	Bad	7.3	125	31	144	ND	1270	ND	ND	ND	--	ND	--	0.7
30.03.2022	Slight Greyish	Bad	7.2	148	35	172	ND	1290	ND	--	ND	ND	ND	--	0.6
25.04.2022	Slight Greyish	Bad	7.1	128	29	136	ND	1310	ND	--	ND	ND	ND	--	0.5
30.05.2022	Slight Blackish	Bad	7.1	168	31	140	ND	1340	ND	--	ND	ND	ND	--	0.6
30.06.2022	Slight Blackish	Bad	7.2	139	50	172	3	1610	ND	--	ND	ND	ND	--	0.6
05.07.2022	Slight Blackish	Bad	7.1	108	44	152	nd	1450	ND	--	ND	ND	ND	--	0.6
25.08.2022	Slight Blackish	Bad	8	168	55	204	3	1750	ND	--	ND	ND	ND	--	0.7
29.09.2022	Slight Blackish	Bad	8	126	65	256	5	1720	ND	--	ND	ND	ND	--	0.4
31.10.2022	Slight Greyish	Bad	7.7	118	69	272	4	1770	ND	--	ND	ND	ND	--	0.5
28.11.2022	Slight Greyish	Bad	7.4	139	59	248	5	1840	ND	--	ND	ND	ND	--	0.7
16.12.2022	Slight Greyish	Bad	7.5	156	54	228	5	1510	ND	--	ND	ND	ND	--	0.4
27.01.2023	Slight Greyish	Bad	7.4	160	49	212	4	2070	ND	--	ND	ND	ND	--	0.9
23.12.2023	Slight Greyish	Bad	7.1	146	45	192	5	2160	ND	--	ND	ND	ND	--	0.4

Table 22



### Qualitative analysis of Leg-III Drain



# District Environment Plan

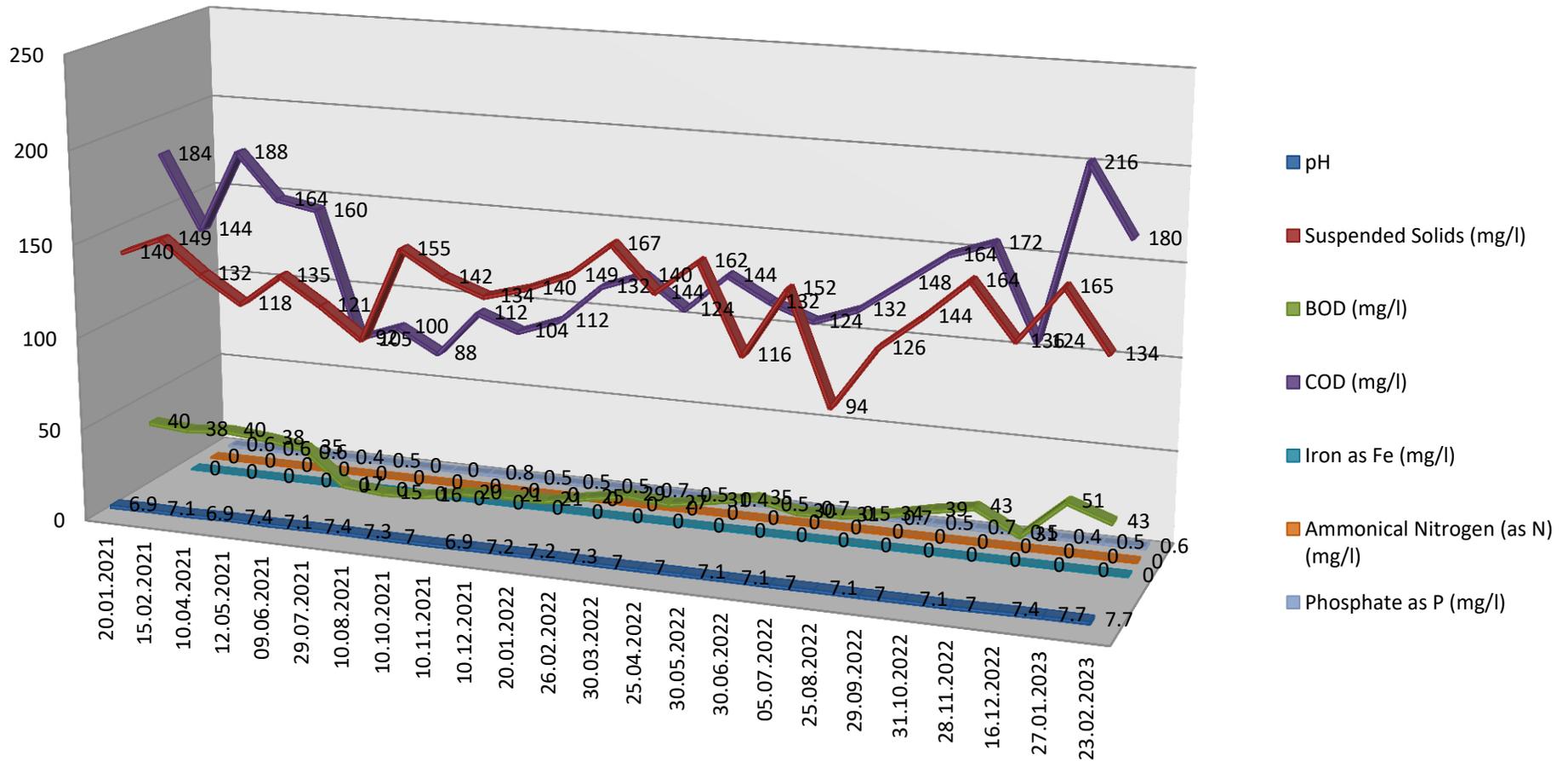
Leg III (Up stream i.e. before meeting Najafgarh Drain) at Village KherkiMajra Distt. Gurugram Latitude:- 28.484470 Longitude:- 76.953334

Date of sample collection	Colour	Odour	pH	Suspended Solids (mg/l)	BOD (mg/l)	COD (mg/l)	O & G (mg/l)	Conductivity (us/cm)	Iron as Fe (mg/l)	Hexavalent Chromium as Cr+6 (mg/l)	Total Chromium as Cr (mg/l)	Nickel as Ni (mg/l)	Zinc as Zn (mg/l)	Ammonical Nitrogen (as N) (mg/l)	Phosphate as P (mg/l)
20.01.2021	Slight Greyish	Bad	7	160	35	152	ND	1590	ND	ND	ND	ND	ND	--	0.5
15.02.2021	Slight Greyish	Bad	6.8	129	42	176	ND	1630	ND	ND	ND	ND	ND	--	0.5
10.04.2021	Slight Greyish	Bad	7	161	35	152	ND	1620	ND	ND	ND	ND	ND	--	0.5
12.05.2021	Slight Greyish	Bad	7.1	142	30	144	ND	1590	ND	ND	ND	ND	ND	--	0.4
09.06.2021	Slight Greyish	Bad	6.9	156	33	152	ND	1620	ND	ND	ND	ND	ND	--	0.3
29.07.2021	Slight Greyish	Bad	7.2	143	14	100	ND	1210	ND	ND	ND	ND	ND	--	ND
10.08.2021	Slight Greyish	Bad	7.1	139	13	96	ND	1250	ND	ND	ND	ND	ND	--	ND
10.10.2021	Slight Greyish	Bad	7	102	18	96	ND	1480	ND	ND	ND	ND	ND	--	ND
10.11.2021	Slight Greyish	Bad	7.2	105	16	88	ND	1250	ND	ND	ND	ND	ND	--	0.4
10.12.2021	Slight Greyish	Bad	7.1	168	27	132	ND	1440	ND	ND	ND	ND	ND	--	0.7
20.01.2022	Grey	Bad	7.5	130	25	120	3	1010	BDL	BDL	BDL	--	BDL	--	1.3
26.02.2022	Blackish	Bad	6.69	308	420	1472	8	1760	--	--	--	--	--	13.44	0.47
30.03.2022	Greyish	Bad	7.21	162	48	164	6.5	2680	--	--	--	--	--	11.76	0.52
06.04.2022	Greyish	Bad	7.39	175	48	164	7.5	2510	--	--	--	--	--	11.2	--
18.05.2022	Greyish	Bad	7.74	175	58	192	4.5	2530	--	--	--	--	--	6.16	5.24
30.06.2022	Greyish	Mild	7.4	172	52	184	7	1860	--	--	--	--	--	--	--
25.08.2022	black	Bad	7.3	184	55	208	5	1890	--	--	--	--	--	--	--
31.10.2022	Blackish	Bad	7.2	170	74	291	6.2	1910	--	--	--	--	--	--	--
28.11.2022	Greyish	Bad	6.9	185	76	299	6.8	2070	ND	ND	ND	ND	ND	2.13	0.7
16.12.2022	Greyish	Mild	7.1	155	72	277	5.4	1940	0.5	ND	ND	ND	ND	2.07	0.9
30.01.2023	Greyish	Mild	7.4	162	64	257	4.8	1750	0.6	ND	ND	ND	ND	3.9	1.1
23.02.2023	Blackish	Bad	7.7	145	54	211	4.2	1240	0.8	ND	ND	ND	ND	5.7	1.5

Table 23

# District Environment Plan

## Qualitative analysis of Up stream (i.e before meeting Leg III)



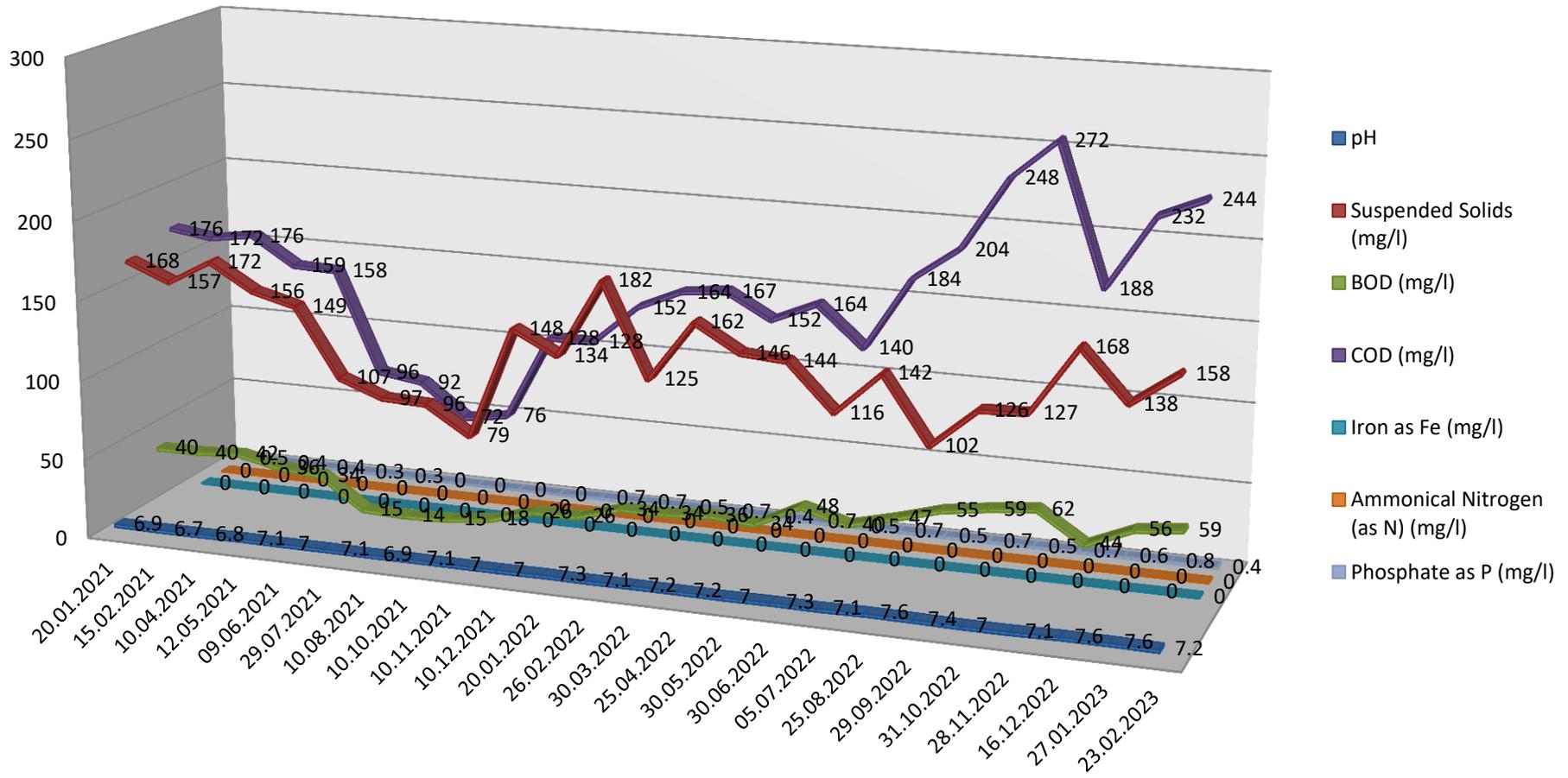
# District Environment Plan

Najafgarh Drain, Gurugram Up stream (i.e. before meeting Leg III) Latitude 28.508642 Longitude 76.937123															
Date of sample collection	Colour	Odour	pH	Suspended Solids (mg/l)	BOD (mg/l)	COD (mg/l)	O & G (mg/l)	Conductivity (us/cm)	Iron as Fe (mg/l)	Hexavalent Chromium as Cr+6 (mg/l)	Total Chromium as Cr (mg/l)	Nickel as Ni (mg/l)	Zinc as Zn (mg/l)	Ammonical Nitrogen (as N) (mg/l)	Phosphate as P (mg/l)
20.01.2021	Slight Greyish	Bad	6.9	140	40	184	ND	1570	ND	ND	ND	ND	ND	--	0.6
15.02.2021	Slight Greyish	Bad	7.1	149	38	144	ND	1610	ND	ND	ND	ND	ND	--	0.6
10.04.2021	Slight Greyish	Bad	6.9	132	40	188	ND	1590	ND	ND	ND	ND	ND	--	0.6
12.05.2021	Slight Greyish	Bad	7.4	118	38	164	ND	1690	ND	ND	ND	ND	ND	--	0.4
09.06.2021	Slight Greyish	Bad	7.1	135	35	160	ND	1660	ND	ND	ND	ND	ND	--	0.5
29.07.2021	Slight Greyish	Bad	7.4	121	17	92	ND	1140	ND	ND	ND	ND	ND	--	ND
10.08.2021	Slight Greyish	Bad	7.3	105	15	100	ND	1290	ND	ND	ND	ND	ND	--	ND
10.10.2021	Slight Greyish	Bad	7	155	16	88	ND	1580	ND	ND	ND	ND	ND	--	0.8
10.11.2021	Slight Greyish	Bad	6.9	142	20	112	ND	1490	ND	ND	ND	ND	ND	--	0.5
10.12.2021	Slight Greyish	Bad	7.2	134	21	104	ND	1280	ND	ND	ND	ND	ND	--	0.5
20.01.2022	Greyish	Mild	7.2	140	21	112	3	1310	BDL	BDL	BDL	--	BDL	--	0.5
26.02.2022	Slight Greyish	Bad	7.3	149	25	132	ND	1310	ND	ND	ND	--	ND	--	0.7
30.03.2022	Slight Greyish	Bad	7	167	29	140	ND	1370	ND	--	ND	ND	ND	--	0.5
25.04.2022	Slight Greyish	Bad	7	144	27	124	ND	1350	ND	--	ND	ND	ND	--	0.4
30.05.2022	Slight Blackish	Bad	7.1	162	31	144	ND	1380	ND	--	ND	ND	ND	--	0.5
30.06.2022	Slight Blackish	Bad	7.1	116	35	132	3	1560	ND	--	ND	ND	ND	--	0.7
05.07.2022	Slight Blackish	Bad	7	152	30	124	2	1490	ND	--	ND	ND	ND	--	0.5
25.08.2022	Slight Blackish	Bad	7.1	94	31	132	3	1640	ND	--	ND	ND	ND	--	0.7
29.09.2022	Slight Blackish	Bad	7	126	34	148	2	1590	ND	--	ND	ND	ND	--	0.5
31.10.2022	Slight Greyish	Bad	7.1	144	39	164	3	1620	ND	--	ND	ND	ND	--	0.7
28.11.2022	Slight Greyish	Bad	7	164	43	172	2	1650	ND	--	ND	ND	ND	--	0.5
16.12.2022	Slight Greyish	Bad	7.4	136	31	124	2	1750	ND	--	ND	ND	ND	--	0.4
27.01.2023	Slight Greyish	Bad	7.7	165	51	216	4	2290	ND	--	ND	ND	ND	--	0.5
23.02.2023	Slight Greyish	Bad	7.7	134	43	180	5	2510	ND	--	ND	ND	ND	--	0.6

Table 24

# District Environment Plan

## Qualitative analysis of down steam (i.e after meeting Leg III)



# District Environment Plan

Najafgarh Drain, Gurugram down stream (i.e. after meeting Leg III) Latitude 28.505676 Longitude 76.943089															
Date of sample collection	Colour	Odour	pH	Suspended Solids (mg/l)	BOD (mg/l)	COD (mg/l)	O & G (mg/l)	Conductivity (us/cm)	Iron as Fe (mg/l)	Hexavalent Chromium as Cr+6 (mg/l)	Total Chromium as Cr (mg/l)	Nickel as Ni (mg/l)	Zinc as Zn (mg/l)	Ammonical Nitrogen (as N) (mg/l)	Phosphate as P (mg/l)
20.01.2021	Greyish	Bad	6.9	168	40	176	ND	1580	ND	ND	ND	ND	ND	--	0.5
15.02.2021	Greyish	Bad	6.7	157	40	172	ND	1590	ND	ND	ND	ND	ND	--	0.4
10.04.2021	Greyish	Bad	6.8	172	42	176	ND	1610	ND	ND	ND	ND	ND	--	0.4
12.05.2021	Greyish	Bad	7.1	156	36	159	ND	1750	ND	ND	ND	ND	ND	--	0.3
09.06.2021	Greyish	Bad	7	149	34	158	ND	1720	ND	ND	ND	ND	ND	--	0.3
29.07.2021	Slight Greyish	Bad	7.1	107	15	96	ND	1320	ND	ND	ND	ND	ND	--	ND
10.08.2021	Slight Greyish	Bad	6.9	97	14	92	ND	1350	ND	ND	ND	ND	ND	--	ND
10.10.2021	Slight Greyish	Bad	7.1	96	15	72	ND	1290	ND	ND	ND	ND	ND	--	ND
10.11.2021	Slight Greyish	Bad	7	79	18	76	ND	1210	ND	ND	ND	ND	ND	--	ND
10.12.2021	Slight Greyish	Bad	7	148	26	128	ND	1390	ND	ND	ND	ND	ND	--	0.7
20.01.2022	Greyish	Mild	7.3	134	26	128	2	1420	BDL	BDL	BDL	--	BDL	--	0.7
26.02.2022	Slight Greyish	Bad	7.1	182	34	152	ND	1410	ND	ND	ND	--	ND	--	0.5
30.03.2022	Slight Greyish	Bad	7.2	125	34	164	ND	1450	ND	--	ND	ND	ND	--	0.7
25.04.2022	Slight Greyish	Bad	7.2	162	36	167	ND	1420	ND	--	ND	ND	ND	--	0.4
30.05.2022	Slight Blackish	Bad	7	146	34	152	ND	1440	ND	--	ND	ND	ND	--	0.7
30.06.2022	Slight Blackish	Bad	7.3	144	48	164	2	1640	ND	--	ND	ND	ND	--	0.5
05.07.2022	Slight Blackish	Bad	7.1	116	40	140	2	1460	ND	--	ND	ND	ND	--	0.7
25.08.2022	Slight Blackish	Bad	7.6	142	47	184	5	1710	ND	--	ND	ND	ND	--	0.5
29.09.2022	Slight Blackish	Bad	7.4	102	55	204	5	1780	ND	--	ND	ND	ND	--	0.7
31.10.2022	Slight Greyish	Bad	7	126	59	248	6	1750	ND	--	ND	ND	ND	--	0.5
28.11.2022	Slight Greyish	Bad	7.1	127	62	272	5	1710	ND	--	ND	ND	ND	--	0.7
16.12.2022	Slight Greyish	Bad	7.6	168	44	188	3	1790	ND	--	ND	ND	ND	--	0.6
27.01.2023	Slight Greyish	Bad	7.6	138	56	232	5	2310	ND	--	ND	ND	ND	--	0.8
23.02.2023	Slight Greyish	Bad	7.2	158	59	244	6	2240	ND	--	ND	ND	ND	--	0.4

Table 25

# District Environment Plan

## Action taken against violators:-

Sr. No.	No. of units prosecuted	No. of units imposed Environmental Compensation	No. of unit deposited Environmental Compensation	Amount of Environmental Compensation imposed	Amount of Environmental Compensation collected
1	36	19	7	1,768,031,538/-	3,81,74,063/-

Table 26

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

S. No.	Action points	Gaps and Action Plan	Responsible agency	Timeline for completion of action plan
1.	Inventory of water bodies	<p>Total no. of ponds in District are 769. There are 75 ponds in MCG jurisdiction. MCG has developed 44 ponds and 21 work is in progress for restoration and remaining 11 ponds work will start very soon and other rest of ponds/ water bodies are being looked after by Gurujal.</p> <p><b>MCM</b> An environmental monitoring cell shall maintain data of all waterbodies (rivers / canals / natural drains / creeks / estuaries / groundwater / ponds / lakes / etc.) in district including its water quality</p>	<p>MCG/Gurujal</p> <p>Horticulture Department of MC Manesar periodically monitors the status of 50 ponds and 28 rainwater harvesting structures established within the municipal boundary.</p> <p>Tender for construction of 20 Rainwater Harvesting Structures is in process.</p>	<p>31.12.2023.</p> <p>-</p>

## District Environment Plan

2.	Quality of water bodies in the district	<p>Rejuvenation of ponds is being done by Gurujal.</p> <p>Quality of water bodies is being monitored on a monthly basis.</p> <p>Data to be displayed on the website of HSPCB</p> <p>Display Board for the relay of data to be installed at prominent places of District</p>	<p>GMDA/Gurujal /MCG/DDPO</p> <p>HSPCB</p> <p>HSPCB</p> <p>HSPCB</p>	<p>Ongoing process</p> <p>Monthly. Being Complied</p> <p>Ongoing Process. Being complied.</p> <p>31.12.2023</p>
3.	Hotspots of water contamination	Ground water quality is being monitor by HSPCB every 6 month.	MCG/HSPCB/ GMDA	Ongoing process
4.	Protection of river/lake waterfront	<p><b>MCM</b></p> <p>Action plan should be prepared for control river side open defecation,dumping of Solid waste on river banks,for idol Immersion etc.</p>	<p>Several IEC Activities and Hoardings have been installed at local water bodies at various places prohibiting solid waste discharge as well as littering of waste near such water resources.</p> <p>An action plan has not been prepared yet in this regard.</p>	December 2023
5.	Inventory of sources of water pollution	Inventory regarding all sewage and waste water discharge points into water bodies in the district has been prepared.	MCG/GMDA/ HSPCB	Complied
6.	Oil spill disaster management(for coastal districts)	<p>Whether district oil spill crisis management group and District Oil Spill Disaster Contingency Plan has been created? If not, create District Oil Spill Crisis Management Group and District Oil Spill Disaster Contingency Plan for the district.</p>	NA	NA

## District Environment Plan

7.	Protection of floodplains	Action plan has been prepared	GMDA/MCG	Complied
8.	Rejuvenation of groundwater	Action plan has been prepared	Gurujal/MCG/C GWA/GMDA/H SPCB	Actitivity Achieved
		Deputy Commissioner Gurugram shall hold meeting with concerned departments for implementation of plan.	DC and Concerned Departments	Ongoing activity
		Implementation of action plan  MCM Rejuvenation of 01 pond (Nawada Pond) and 28 Rainwater Harvesting Structures has been done by Horticulture Department	Gurujal/MCG/C GWA/GMDA/H SPCB	Ongoing activity
9.	Complaints redressal system	Complaint redressal system has been provided.	Administration / CGWA	Already complied.



# District Environment Plan

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## Domestic Sewage

### Introduction of Domestic Sewage Management

There are three different types of wastewater (a polite way to say sewage!): domestic sewage, industrial sewage, and storm sewage. Domestic sewage is the used water from houses and apartments, mostly coming from the kitchen, bathroom, and laundry sources. Things like dishwashing, the garbage disposal, and of course baths and showers are included in the mix.

### Status of Domestic Sewage Management in the District

#### Master watersupply:

The Master Water Supply has been designed with the responsibility of supplying bulk drinking water supply to the city for its present and prospective population demand as per the Master plan. The final published Development Plan i.e Gurgaon-Manesar Urban Complex (GMUC) 2031 was notified on 15-11-2012 for a total area of 33,872 hectares. The Development Plan projects a population of 42.5 lakh over the notified area. The total water requirement for the year 2019 is 420 MLD and for the prospective water demand shall be 570 MLD by year 2023.

#### Master sewerage

The sewage generation is 80% (approx.) of water supply and accordingly 491 MLD sewage will be generated from the total water supply by year 2023. The master sewerage network is divided into two major Zones. There are three STPs at Dhanwapur in Sector 104 of total 218 MLD capacity and two STPs at Behrampur in Sector 48 of total 170 MLD capacity. Sewer lines in Zone I comprising Sector 1 to 24, 34, 37 and 81 to 115 lead to the STP at Dhanwapur and sewer lines of Zone-II comprising Sectors 25 to 80 lead to Behrampur STP. The existing capacity of the plants in operation is sufficient to meet the current sewage flow & balance capacity will be utilized for diversion of untreated waste from storm water drainage (SWD) systems.

Common Effluent Treatment Plant (CETP) in Industrial Area, Manesar is having 55 MLD capacity and available discharge is 47MLD. The balance capacity of 8 MLD will be utilized for upcoming industries in IMT Manesar.

Considering all untreated influent Master sewer line as well as diverted discharge from SWD. The ultimate available discharge shall be 491 MLD corresponding to population of 2023. The details of Phase wise future planning of STP's is as under: -

**Construction of 20 MLD STP at Jahajgarh:** - It has been proposed to construct 20 MLD capacity STP at village Jahajgarh, to treat the untreated waste of Leg-I SWD and discharge of Sectors 102 to 115. The site survey has been made and found feasible for construction of STP and 3 acres land is available through

## District Environment Plan

Municipal Corporation Gurugram. The work is progress against an agreement tune to Rs. 31.99 Crores and likely to be completed by 30-06-2022.

**Construction of 20 MLD CETP at Sector-34, Gurugram:** CETP of 20 MLD capacity will be constructed by GMDA on land being made available by Haryana State Industrial & Infrastructure Development Corporation Ltd. (HSIIDC). The land acquisition is presently the subject matter of a court case / dispute. The acquisition has been made by the State and award announced. The owner of the land i.e M/s Hallmark Health Ltd is under liquidation and liquidator filed a suit in the Hon'ble High Court vide CP No. 38 of 2012 titled M/s Hallmark Health Ltd. vs. Land Acquisition Collector (LAC), Gurugram and others. The litigation is regarding payment of land compensation announced by LAC to Hallmark, whereas there is no litigation regarding acquisition of the said land. The joint application on behalf of GMDA and HSIIDC has been filed in the Hon'ble High Court and next date of hearing is 14-12-2021 to make the land available for construction of the CETP. Work will be taken up after availability of land and will be completed two years thereafter.

**Construction of 100 MLD STP at Dhanwapur:** - The sewage of newly developing sectors 81 to 101 for sewage discharge of 30 MLD by GMDA & 20 MLD by Colonizers will be tapped at the junction of Sector 101 & 104 & the discharge will be diverted to existing STP at Dhanwapur. 100 MLD capacity STP has been proposed to be constructed at Dhanwapur, for which sufficient land is already available. The approximate cost for this project will be come out to Rs. 210.00 Crores.

**Construction of Micro STPs by MCG:** - Micro STPs having a cumulative capacity of 13 MLD are under construction by MCG. The treated effluent will be used in the same area for non-potable purposes.

**The details of proposed STPs/CETP to meet the deficit by 2023 are as under: -**

Action Plan to Meet the Deficit by 2023											
Area	Sec. 1 to 57	Sec. 58 to 80	Sec. 81 to 101	Sec. 102 to 115	Leg-I	Leg- II	Leg- III	Other drains	Additional treatment capacity required (MLD)	Existing treatment Capacity	Total treatment Capacity in 2023
Jahaj-Garh				10	10				20	0	20
Behrampur										170	170
Dhanwapur			3			42		5	100	218	318
Sec 34							20		20	0	20
Micro STPs by MCG							13		13	0	13
	0		3	10	10	42	33	5	153	388	541

Table 27 Source

# District Environment Plan

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

Details of Data Requirement	Present Status
No. of Class-II towns and above	5
No. of Class-I towns and above	1
No. of Towns STPs installed	5
No. of Towns needing STPs	-
No. of ULBs having partial underground Sewerage network	6
No of towns not having sewerage network	-
Total Quantity of Sewage generated in District From Class II cities and above	570 MLD
Quantity of treated sewage flowing into Rivers(directly or indirectly)	-
Quantity of untreated or partially treated sewage(directly or indirectly)	466 MLD
Quantity of sewage flowing into lakes	-
Quantity of treated sewage water flowing into Drain	400 MLD (Najafgarh drain)
Total available Treatment Capacity	492 MLD

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

S. No.	Action points	Gaps and Action Plan	Responsible agency	Timeline for completion of action plan								
1.	Sewage Treatment Plants(STPs)	<table border="1"> <thead> <tr> <th>Capacity of Existing STPs</th> <th>Capacity of proposed STPs</th> </tr> </thead> <tbody> <tr> <td>Behrampur = 170 MLD (120 + 50) Dhanwapur= 218 MLD Total = 388 MLD</td> <td>                     Dhanwapur = 100 MLD                      Jahajgarh = 20 MLD                      Manesar = 25 MLD                      Dhankot = 2 MLD                      Bajghera = 2 MLD                      Micro STPs = 9 MLD                      Total = 153 MLD                       2 No. MBBR based STPs at Sohna &amp; Pataudi are to be upgraded for the latest notified parameters.                 </td> </tr> </tbody> </table>	Capacity of Existing STPs	Capacity of proposed STPs	Behrampur = 170 MLD (120 + 50) Dhanwapur= 218 MLD Total = 388 MLD	Dhanwapur = 100 MLD Jahajgarh = 20 MLD Manesar = 25 MLD Dhankot = 2 MLD Bajghera = 2 MLD Micro STPs = 9 MLD Total = 153 MLD  2 No. MBBR based STPs at Sohna & Pataudi are to be upgraded for the latest notified parameters.	<table border="1"> <thead> <tr> <th>Capacity of Existing STPs</th> <th>Capacity of proposed STPs</th> </tr> </thead> <tbody> <tr> <td>Behrampur = 170 MLD (120 + 50) Dhanwapur= 218 MLD Total = 388 MLD</td> <td>                     Dhanwapur = 100 MLD                      Jahajgarh = 20 MLD                      Manesar = 25 MLD                      Dhankot = 2 MLD                      Bajghera = 2 MLD                      Micro STPs = 9 MLD                      Total = 153 MLD                       PHED                 </td> </tr> </tbody> </table>	Capacity of Existing STPs	Capacity of proposed STPs	Behrampur = 170 MLD (120 + 50) Dhanwapur= 218 MLD Total = 388 MLD	Dhanwapur = 100 MLD Jahajgarh = 20 MLD Manesar = 25 MLD Dhankot = 2 MLD Bajghera = 2 MLD Micro STPs = 9 MLD Total = 153 MLD  PHED	31.12.2024
Capacity of Existing STPs	Capacity of proposed STPs											
Behrampur = 170 MLD (120 + 50) Dhanwapur= 218 MLD Total = 388 MLD	Dhanwapur = 100 MLD Jahajgarh = 20 MLD Manesar = 25 MLD Dhankot = 2 MLD Bajghera = 2 MLD Micro STPs = 9 MLD Total = 153 MLD  2 No. MBBR based STPs at Sohna & Pataudi are to be upgraded for the latest notified parameters.											
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# District Environment Plan

		Upgradation of Existing STPs not meeting with prescribed standards				30.06.2023
2.	Underground sewerage network	Master Sewerage Network			GMDA	31.03.2024
		Sector	Total Length in Km	Balance Network		
		1 to 67	158 Km	Complete		
		68 to 115	95 Km	65 Km		
		The 4 towns under PHED are covered with sewerage network as at <b>present. Maps with details attached.</b> Sohna—89.50 KM Pataudi—34 KM Haily Mandi—55 KM FarrukhNagar-30.50 KM			PHED	The 2 No. MBBR based STPs at Sohna & Pataudi are to be upgraded for the latest notified parameters by HSPCB. The work will be completed by 30.06.2022  100% sewerage network may be completed by 30.06.2023.



# District Environment Plan

## Industrial waste water management

### Introduction of Industrial Waste Water Management

Industrial wastewater has very variable quality and volume depending on the type of industry producing it. It may be highly biodegradable or not at all, and may or may not contain compounds recalcitrant to treatment. These include organic synthetic substances or heavy metals whose content in developing countries' wastewater may be considerably different (in quantity and quality) from that of developed ones. The main concern with industrial wastewater is the increasing amount (in quantity and variety) of synthetic compounds contained in and discharged to the environment.

### Status of Industrial Waste Water Management in the District

#### Industry classification and distribution in Gurugram

Sr. No.	Description	Total
1.	Total No. of units covered under consent management	1454
2.	Total Industrial effluent generation	188.31 MLD
3.	Total Domestic effluent generation	457.91 MLD
4.	Total No. of individual ETP required and installed	643
5.	Total No. of individual STP required and installed	667
6.	Total Hazardous Waste Generation which is treated and disposed off scientifically by Common Hazardous Waste Treatment, Storage & Disposal Facility situated at Pali, Faridabad for whole of the State Haryana.	20666.75 MT/Annum
7.	Total Hospital/HCF/Units covered under BMW rules, 2016	1014
8.	Total Bio Medical Waste Generated which is treated and disposed off scientifically by Common Bio Medical Waste Treatment Facility situated at Sector 37, Gurugram with having total installed capacity of 20 Ton/Day	5.5 Ton/Day
9.	Total E Waste Generation for which E – waste dismantling and recycling facility installed throughout the State	372.2 MT/Annum

#### Industrial Clusters in Gurugram

- i. Udyog Vihar Phase I to V
- ii. Sector-18 & IDC
- iii. IMT Manesar
- iv. Sector-37 & Khandasa
- v. Sector 34 & Behrampur

# District Environment Plan

## a. Current Status related to Industrial Waste water Management

Number of Red, Orange, Green and White industries in the District	Red - 710 Orange - 861 Green - 274
No. of Industries discharging waste water	775 Nos. (HSPCB)
Total Quantity of industrial waste water generated	13.27 MLD (HSPCB) 38 MLD (GMDA)
Quantity of treated industrial waste water discharged into Nalas/ Rivers	38 MLD (GMDA)
Common Effluent Treatment Facilities	2Nos (30 + 25 MLD) (GMDA)
No. of Industries meeting Standards	762 Nos. (HSPCB)
No. of Industries not meeting discharge Standards	13 non complying

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

S. No.	Action points	Gaps and Action Plan	Responsible agency	Timeline For completion of action plan
1.	Compliance to discharge norms by Industries	Frequent inspections are being done by HSPCB regarding compliance of discharge norms as per policy of the Board.	HSPCB	Ongoing process
2.	Complaint redressal system	Complaint redressal system has been provided.	HSPCB	Already complied.

### Conclusion & Recommendation:-

- i. Every industry should have proper waste water management facility.
- ii. CETP can be installed for Industrial Areas.
- iii. Treated sewage may be utilized for sprinkling on dust emitting sources for gardening and other non-potable purposes.

# District Environment Plan

## **Mining Activity Management plan**

### **Introduction of Mining Activity Management & Status of Industrial Mining Activity Management in the District**

The Hon'ble National Green Tribunal(PB),New Delhi in order dated 08.04.2019 in O.A.No.673 of 2018 has mentioned in para15(ix)'The Task Force will also ensure that no illegal mining takes place in river of such polluted stretches.

Government of Haryana has constituted the District Level Task Force vide Financial Commissioner & Principal Secretary,Department of Mines & Geology office Endst No 5/1/28-21 BII-2005 dated 10.02.2006,to examine,collect/review the information/cases/issue relating to the illegal mining at district level,with following members:-

1.	District Collector of concerned district	Chairman
2.	Superintendent of Police of concerned district	Member
3.	Assistant Mining Engineer/Mining Officer of concerned district.	Member Secretary
4.	District Forest Officer of concerned district	Member
5.	State Pollution Control Board official of concerned district	Member
6.	District Transport Official of concerned district.	Member

### **Sand Sources in District**

There is no scope of sand mining in district Gurugram but the nearby source of sand in the state, is legal sand mines in Yamuna river in district Sonapat, Karnal and YamunaNagaretc.

### **Stone Source in District**

Aravali is the main source of stone in district Gurugram but as per order of Hon'ble Supreme Court of India mining is lying closed/banned in district Gurugram,Nuh and Faridabad since 2002.

There is no organized illegal mining in district but some cases of theft of mineral/stone by nearby villagers for their personal/domestic use and transportation of illegal minerals from adjoining state i.e Rajasthan & U.P are also noticed . To control such theft of mineral and transportation of illegal mineral from other state ( Rajasthan& U.P etc),day and night surprise checking is being done by official of mines & geology department,police official as well as by other members of District Level Task Force Committee.

All the stone crushers in district Gurugram has installed after getting consent to operation (CTO) from Haryana State Pollution Control Board and are under surveillance of Haryana State Pollution Control Board as well as other concerned department also. Crusher owners are purchasing raw material (stone) from legal mines in Narnaul,Dadri,Bhiwani District of Haryana and from legal mines in Bhartpur,Alwar district of Rajasthan state.

# District Environment Plan

## Strategies for Mining Activity Management

Action Plan preventing illegal mining is given below:

Responsibility of DLTF Committee	Plan of Action	Responsible Department
Preventing illegal mining and transportation of illegal minerals	<ul style="list-style-type: none"> <li>i. Identification of area where there are chances of illegal mining.</li> <li>ii. Frequent surprise Checking in said hilly area.</li> <li>iii. Setup checking point/ Nakas as required.</li> <li>iv. Day &amp; Night Checking on road to control the transportation of illegal minerals from other states.</li> <li>v. Recovery of heavy Amount of fine along with environment damage compensation amount in compliance of order dated 19.02.2019 passed by Hon'ble National Green Tribunal, New Delhi, in O.A.No.44/2016, M.A.No.16/2020.</li> </ul>	District Level Task Force Committee 1. District Collector 2. Police Deptt. 3. Mines & Geology Deptt. 4. Forest Deptt. 5. Transport Deptt. 6. State Pollution Control Board. 7. Revenue Deptt. 8. Irrigation Deptt. 9. Block Development and Panchayat Deptt.

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

Details of Data Requirement	Existing Mining operations
Type of Mining Activity	Nil
No. of licensed Mining operations in the District	Nil
% Area covered under mining in the District	Nil
Area of Sand Mining	Nil
Area of sand Mining	NA

Mining activity in District Gurugram has been banned since 16.12.2002 by the order of Hon'ble Supreme Court of India.

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

S. No.	Action points	Gaps and Action Plan	Responsible agency	Timeline for completion of action plan
1.	Monitoring of Mining activity	A district level task team may be identified to identify mining activity	Mining Department	In future if Hon'ble Supreme Court allow Mining in District Gurugram. District Level

## District Environment Plan

		and to monitor status wither respect to environmental compliance		Task Force Committee has already been constituted.
2.	Inventory of illegal mining if any mining	Actionplanto identify illegal land and other mining activity in the District through surveillance, patrolling and enforcement. District Level task Force may be constituted for Control of illegal mining activity	Mining Department	District Level Task Force Committee has already been constituted under the Chairmanship of Deputy Commissioner.
3.	Environment compliance by Mining industry	Action plan for periodic verification of compliance to environmental conditions stipulated by SPCBs/PCC, MoEF&CC department of mines etc. SPCBs/PCC may be involved in this activity.	Mining Department	NA

### **Conclusion & Recommendations:-**

Arawali is the main source of stone in district Gurugram but as per order of Hon'ble Supreme Court of India mining is lying closed/banned in district Gurugram since 2002. To control theft of mineral and transportation of illegal mineral from other state ( Rajasthan & U.P etc), day and night surprise checking is being done by official of mines & geology department, police official as well as by other members of District Level Task Force Committee.

# District Environment Plan

## Noise Pollution Management plan

### Introduction of Noise Pollution Management

Noise pollution is generally defined as regular exposure to elevated sound levels that may lead to adverse effects in humans or other living organisms. According to the World Health Organization, sound levels less than 75 dB are not damaging to living organisms, regardless of how long or consistent the exposure is.

Main Sources of Noise Pollution are:

- ☐ Traffic noise.
- ☐ Industrial noise.
- ☐ Construction sites.

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

Details of Data Requirement	Measurable Outcome
No. of noise measuring devices available with various agencies in district	6 nos. (HSPCB & ULB)

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

Sr. No.	Action points	Gaps and Action Plan	Responsible agency	Timeline for completion of action plan
1.	Availability of Sound/Noise Level Meters.	Adequate no. of noise level meters are available with HSPCB.  Department of Police may procure adequate number of Noise Level Meters	HSPCB/ULB  Police Department	Already complied.  31.12.2023
2.	Ambient Noise Level monitoring.	Monitoring of ambient noise level in Noise Zone, Silence Zone, Sensitive Zone & Display the results at prominent locations.	HSPCB/ULB	02 times in a year
3.	Sign boards in Noise zones	Adequate no. of sign boards to be installed in the sensitive zone of the city.	ULB	Ongoing Task
4.	Complaint redressing system	Complaint redressal system has been provided.	HSPCB/ULB	Already complied

### Conclusion & Recommendations

- i. HSPCB may undertake snapshot monitoring of Noise Level in a phased manner covering all cities and towns for wider coverage..
- ii. Surveillance squads/ task forces may be set up at Ward and Circle level to prohibit DG & other Noisy activity during functions and parties.

### **Other Environmental Issues:**

**(i) Management of Waste Water and solid waste generated by the unauthorized colonies/ residential complex/ commercial Complex developed by Private Colonizers.**

There is need to provide sewerage system and sewage treatment plant for treatment of wastewater and solid waste management system for treatment of solid waste by the MCs for the unauthorized colonies/ residential complex/commercial complex existing within MC limits and by DDPO/CEO Zila Parishad for the unauthorized colonies/residential complex / commercial complex existing outside MC limits.

- a. MCs may make sewerage connectivity of untreated discharge of unauthorized colonies/commercial complex located within MC limits with the nearby existing STPs by 31.03.2023.
- b. For the management of solid waste generated by these unauthorized colonies, existing within MC areas, MCs may make agreement with these unauthorized colonies for management of solid waste with suitable user charges to be paid by unauthorized colonies to MCs by 31.10.2022.
- c. DDPO/CEO Zila Parishad may pursue the unauthorized colonies/ commercial complex existing outside MC areas to either lay sewerage network and install individual STPs for treatment of wastewater or provide any other mechanism for treatment and disposal of untreated sewage of these colonies/commercial complex by 31.03.2023.
- d. For management of solid waste, generated by unauthorized colonies/commercial complex existing outside MCs areas, the necessary agreement may be got made with MCs/Village Panchayats for scientific disposal of solid waste (wet and dry waste) with suitable user charges to be paid to MCs/Village Panchayats by the unauthorized colonies/commercial complex by 31.10.2022.

**(ii) Plantation of trees along highways/drains/ponds/vacant sites.**

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

**(iii) Removal of solid waste along highways/railway lines/rural roads/drains/ponds.**

MCs, DDPOs, HSIIDC, HSVP, PWD (B&R) and any other concerned department under the guidance of Deputy Commissioner, Gurugram may make necessary arrangements for removal of solid waste lying dumped along highways/railway lines/rural roads/drains/ponds as special drive by 30.09.2022 and regular practice may be adopted in this regard from time to time so that these roads/drains/canals/ponds may give aesthetic view to the public.

**(iv) Reuse of treated wastewater of the towns for agricultural purpose and other usage**

Qualitative treated wastewater is being discharged into drains/nallahs, whereas, it can be utilized for irrigation, construction activities, sweeping of roads, washing of motor

## District Environment Plan

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vehicles etc. There is need to fix the priority for utilization of treated sewage based on the quality of treated effluent.

The concerned departments to fix the priority of the activity, where, treated wastewater of STPs can be utilized and accordingly treated wastewater may be utilized for the prioritized activity to save ground water and energy.

### **Conclusion:-**

Efforts have been made to make a District Environmental Plan with inclusion of all stakeholder in line with the model District Environment Plan of CPCB covering all the environmental issues of the. The users of this Plan should- bear in mind that this plan is not a substitute to Govt. rules and regulations but a skeletal framework with action points and roles and responsibilities of stakeholders. These are only suggestive but not exhaustive. Every stakeholders need to implement the plan in true letter and spirit to achieve the target.

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# District Environment Plan

## Annexure-1

### IEC Activity Plan

Comments	Medium of Communication	Key Areas	Category	Sub Category	No of Citizens	Duration	Total Quantity	Unit Cost	Total Cost
Reduce Tender Value and Posit that	Mass Media	Solid Waste Management	SUP	Number of Places wall paintings to be done	3,00,000	Half Yearly	8	1,00,000	8,00,000
Already Done	Mass Media	Solid Waste Management	GFCs	No of locations hoardings to be placed	2,00,000	Quarterly	10	50,000	5,00,000
Can be organised with MCM Officials	Mass Media	Safe and Dignity of Sanitation Workers	Be Responsible and report Hazardous cleaning of Sewer and Septic Tanks	No of events organised in collaboration with state (Marathon, Shramdaan etc.)	10,000	Annually	3	1,00,000	3,00,000
Posters	Mass Media	Sustainable Sanitation	Source Segregation	Number of Posters to be developed	2,50,000	Half Yearly	5	50,000	2,50,000
Audio Video	Mass Media	Solid Waste Management	Source Segregation	Audio Video	2,50,000	Annually	1	1,00,000	1,00,000

Comments	Medium of Communication	Key Areas	Category	Sub Category	No of Citizens	Duration	Total Quantity	Unit Cost	Total Cost
IEC in Societies and Villages, demonstrating Gala bins and 3 bin technique	Mid Media	Solid Waste Management	Home Composting	No of Brand Ambassadors engaged	1,00,000	Quarterly	6	50,000	3,00,000

## District Environment Plan

Associate 3R Waste NGO also, Waste to Art Exhibitions, Competitions between schools	Mid Media	Sustainable Sanitation	3R	No of Brand Ambassadors engaged	1,50,000	Quarterly	6	75,000	4,50,000
Street Plays and Dances	Mid Media	ODF	No open urination, keep your city swachh	No of Brand Ambassadors engaged	2,50,000	Half Yearly	2	75,000	1,50,000

Comments	Medium of Communication	Key Areas	Category	Sub Category	No of Citizens	Duration	Total Quantity	Unit Cost	Total Cost
Why Not Memes and Small Cartoon Posters also	Social and Digital Media	Solid Waste Management	SUP	Number of Digital Comics to be developed	3,00,000	Monthly	4	50,000	2,00,000
Why Not Memes and Small Cartoon Posters also	Social and Digital Media	Swacchhta App	Swachhta App	Number of Digital Comics to be developed	3,00,000	Monthly	4	50,000	2,00,000

Comments	Medium of Communication	Key Areas	Category	Sub Category	No of Citizens	Duration	Total Quantity	Unit Cost	Total Cost
Educational Institutions	Inter Personal Communication	Solid Waste Management	Source Segregation	No of places Waste to Wealth competitions to be organised	3,00,000	Bi Monthly	4	50,000	2,00,000
RWAs	Inter Personal Communication	Solid Waste Management	Sanitation	No of Brand Ambassadors engaged	1,00,000	Quarterly	4	50,000	2,00,000

## District Environment Plan

<b>Swachh Ranking of Villages</b>	Inter Personal Communication	Solid Waste Management	Sanitation	Village Sanitation Competitions	3,00,000	Quarterly	1	1,50,000	1,50,000
<b>Conferences, seminars for 3R for knowledge, competition for promoting 3R, Waste to Wonder</b>	Inter Personal Communication	Sustainable Sanitation	3R	Number of citizen competitions especially schools	3,00,000	Half Yearly	2	1,50,000	3,00,000
<b>Help from Brand Ambassadors?</b>	Inter Personal Communication	Used Water and Faecal Sludge Management	Safai Mitras	Number of local influencers identified to spread the message	50,000	Annually	1	1,00,000	1,00,000
<b>Village Level Campaigning</b>	Inter Personal Communication	Solid Waste Management	Home Composting	Number of door to door triggering campaigns	3,50,000	Monthly	8	1,00,000	8,00,000

# District Environment Plan

ANNEXURE-2

## District Environment Plan of Gurugram

### List of Dry Waste Pickers Integrated in Municipal Corporation, Gurugram

Sr.no	Name	Age	Gender	Type of warker	Location	Adhar ID/Voter ID/Other	Phone Number
1	Jahirul Islam	26	Male	Collector	Wazirabad	GCL 1437032	6000274907
2	Sobursk	30	Male	Collector	Wazirabad	7553 5673 1338	7428644053
3	Gajal Shaikh	45	Male	Collector	Wazirabad	6917 4433 8252	9069672793
4	Jiyarul Mondal	35	Male	Collector	Wazirabad	6787 5353 0840	9069672793
5	Ali Aktersk	51	Male	Collector	Wazirabad	799922845208	9093979545
6	AnarulMolla	42	Male	Collector	Wazirabad	4626 3661 8429	7718135519
7	Hachil Mondal	37	Male	Collector	Wazirabad	2539 6609 8744	9515211235
8	Sirajul Islam	22	Male	Collector	Wazirabad	9740 5832 9901	9971632744
9	Sukursk	32	Male	Collector	Wazirabad	6698 7691 2845	9091381490
10	Selim sk	25	Male	Collector	Wazirabad	THC1727726	9540929066
11	Mer Ali Shek	36	Male	Collector	Wazirabad	2150 7520 6596	9911149182
12	Hamida Bibi	37	Female	Collector	Wazirabad	7637 0602 3634	9891995236
13	Jakirsekh	31	Male	Collector	Wazirabad	3665 1699 6303	8586086504
14	Jayedali Shaikh	46	Male	Collector	Wazirabad	6559 0295 9081	7838838397
15	Malek Ali	27	Male	Collector	Wazirabad	GJP 1493476	9365919664
16	Rajkumar	36	Male	Collector	Wazirabad	2269 7676 0254	9871536316
17	Harmujali	34	Male	Collector	Wazirabad	4947 7592 9311	7896246326
18	Mallkntibai	42	Male	Collector	Wazirabad	8189 7638 7141	8860594675
19	Lutfar mandal	48	Male	Collector	Wazirabad	8530 1641 0037	8860594675
20	Surabaddinsk	36	Male	Collector	Wazirabad	5734 6096 5649	9818296497
21	Alimaddin mandal	65	Male	Collector	Wazirabad	7392 6015 4115	8348660255
22	Saleraddinsekh	58	Male	Collector	Wazirabad	5502 6651 7339	7407997242
23	Khokan Khan	61	Male	Collector	Wazirabad	6851 9046 9812	8001931593
24	SkShukurali	46	Male	Collector	Wazirabad	7635 2655 9795	9205911837
25	Samad Mollah	19	Male	Collector	Wazirabad	4123 6377 4315	7042122890
26	Riazul Islam	19	Male	Collector	Wazirabad	2888 5781 7824	7638870726
27	Nur Alom	32	Male	Collector	Wazirabad	9798 1720 7768	6901106438
28	LaltuSekh	36	Male	Collector	Wazirabad	9922 9202 5019	7289066129
29	NiyamatSekh	41	Male	Collector	Wazirabad	4359 3939 9727	9716922911
30	Jalil Mondal	53	Male	Collector	Wazirabad	4961 3190 9448	9990877693
31	Kajal Sekh	48	Male	Collector	Wazirabad	5423 2314 9186	7289062432
32	Saiful hoque	25	Male	Collector	Wazirabad	GML0495135	7703992265
33	Bahar Jan Khatun	35	Female	Collector	Wazirabad	GCL0212506	7703992265
34	Sahara Begum	32	Female	Collector	Wazirabad	3226 5046 4354	9654796956
35	Abdul hoque	19	Male	Collector	Wazirabad	BHFPH 4911N	9319928959
36	Asay Mondal	45	Male	Collector	Wazirabad	5815 9416 0680	9717300191
37	Yeanus Mondal	32	Male	Collector	Wazirabad	6618 1153 6347	9134236765
38	BasadulMolla	23	Male	Collector	Wazirabad	7746 4487 1240	8447991173
39	BaytollaMolla	31	Male	Collector	Wazirabad	3761 3659 5726	8447991173
40	Sekh Arman	49	Male	Collector	Wazirabad	6274 5640 2324	9002423681
41	Jamat Ali Sekh	48	Male	Collector	Wazirabad	4707 7252 7996	7289870722

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42	Sanowar Ali	37	Male	Collector	Wazirabad	9716 6038 1829	9911849590
43	Tokayel Shaikh	33	Male	Collector	Wazirabad	5961 9784 8070	9136345797
44	Amirul Sekh	28	Male	Collector	Wazirabad	8492 5217 1145	8882297631
45	MafejurRohman	19	Male	Collector	Wazirabad	4398 9186 6602	7042564819
46	HabibulMolla	29	Male	Collector	Wazirabad	8930 5771 0174	7042581430
47	Naskar S k	54	Male	Collector	Wazirabad	837663547298	9899690552
48	Asnara Khatun	25	Female	Collector	Wazirabad	8477 1913 0496	9620475397
49	Shahojoddin Khan	37	Male	Collector	Wazirabad	6466 1520 7500	7797906406
50	JibraillSekh	17	Male	Collector	Wazirabad	9111 8022 6565	9315443278
51	Sahin Mandal	19	Male	Collector	Wazirabad	5219 4178 6148	8368735481
52	SekhShuki	51	Male	Collector	Wazirabad	5509 9462 3971	7838816372
53	Kesmatk	25	Male	Collector	Wazirabad	597425217153	8328975523
54	AkkachSekh	38	Male	Collector	Wazirabad	7700 4215 8115	8328975523
55	GiyasuddinSekh	42	Male	Collector	Wazirabad	7940 5545 2904	7838816372
56	Abdul Hashem	24	Male	Collector	Wazirabad	5850 5467 5628	8860594675
57	Abdul Hannan	21	Male	Collector	Wazirabad	9742 7985 6495	9999432515
58	Manjula Begum	25	Female	Collector	Wazirabad	GJP0202861	7838626853
59	SekhChandmaham mad	56	Male	Sorter	Wazirabad	8191 8987 5476	6901994513
60	Raosnara Bibi	33	Female	Sorter	Wazirabad	2438 4433 0248	8486466020
61	Mojammelsk	36	Male	Collector	Wazirabad	8722 4745 0446	9091865434
62	Jinnat Ali Sekh	56	Male	Collector	Wazirabad	636143328056	9315964398
63	Muslim Sekh	23	Male	Collector	Wazirabad	786458986235	8101810283
64	TafajulSekh	19	Male	Collector	Wazirabad	944801831166	7318838500
65	AzzizulSk	53	Male	Collector	Wazirabad	628120363147	9564425306
66	PatuSekh	56	Female	Sorter	Wazirabad	958860271278	9002423681
67	SariyatSekh	22	Male	Sorter	Wazirabad	704063465595	9555619314
68	TapanHazra	28	Male	Collector	Wazirabad	772432313360	8588000375
69	AtikulSekh	59	Male	Collector	Wazirabad	909600948339	9654975158
70	NuralamSekh	35	Male	Collector	Wazirabad	281547740305	8001492279
71	Nilibibi	31	Female	Sorter	Wazirabad	442633360345	7679897836
72	Firoz sekh	29	Male	Collector	Wazirabad	583450612934	7679897836
73	JiyarulSk	34	Male	Collector	Wazirabad	340753699113	9318448771
74	GaniDafadar	49	Male	Sorter	Wazirabad	813123476736	8145423839
75	Patai dafadar	66	Male	Collector	Wazirabad	874312082915	8145423839
76	Sheikh Baitulla	55	Male	Sorter	Wazirabad	682119237303	7797677798
77	Ohidulislam	22	Male	Collector	Wazirabad	609685483302	9707526077
78	DebuNaskar	44	Male	contract or	Wazirabad	437437379107	9319930802
79	Anup Hazra	30	Male	collector	Wazirabad	719032363187	9717141255
80	Lalita Hazra	25	Male	Sorter	Wazirabad	472732719511	9717141255
81	HazraSapan	39	Male	Sorter	Wazirabad	223139518989	9871536331
82	Daya das	56	Female	Collector	Wazirabad	974129246709	8389947909
83	Hiru das	23	Male	Collector	Wazirabad	740602196585	
84	Biplab das	25	Male	Collector	Wazirabad	826794667953	9910436670
85	JillurRahamanSekh	37	Male	Sorter	Wazirabad	243920878726	9873665335
86	Hekmatk	45	Male	Collector	Wazirabad	426061283773	7430059243

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87	FajluRahaman	22	Male	Collector	Wazirabad	963736141426	9599325576
88	IbajulSekh	43	Male	Collector	Wazirabad	235395946235	8448060897
89	AnarulSekh	71	Male	Sorter	Wazirabad	577985620614	8860513130
90	Chhakina Bibi	66	Female	Sorter	Wazirabad	735571024847	8860513130
91	Tahar Ali Sk	52	Male	Collector	Wazirabad	651672890779	9711281783
92	AjirulSk	48	Male	Collector	Wazirabad	974065634656	8376963375
93	Murchhalim mir	31	Male	Collector	Wazirabad	916156851755	8927346512
94	Papay Das	23	Male	Collector	Wazirabad	960231860052	8768448979
95	Mondal Mojammel	53	Male	Sorter	Wazirabad	735634828151	6295485369
96	Abdul Sk	61	Male	Sorter	Wazirabad	891461907080	6295485369
97	Hemanta Das	54	Male	Sorter	Wazirabad	644740902631	9064877110
98	Lokhi Das	32	Female	Sorter	Wazirabad	742985227410	9064877110
99	Rahul Kumar	19	Male	Sorter	Wazirabad	710137296647	8375956142
100	jamirulsk	27	Male	Collector	Wazirabad	749196160762	9891680424
101	Sekh Sanu	51	Male	Collector	Wazirabad	938888773062	8586076498
102	Samad Ali Mondal	22	Male	Collector	Wazirabad	427520885735	9667741104
103	Subal Ojha	44	Male	Collector	Wazirabad	530625675097	9667244762
104	Shahid Mondal	26	Male	Collector	Wazirabad	CLTPM1628L	9945862497
105	SekhNasimuddin	55	Male	Collector	Wazirabad	688465781294	8373950877
106	Abalnossain	45	Male	Collector	Wazirabad	900160505718	9870531356
107	IsrailSekh	50	Male	Contract or	Wazirabad	719590533083	7042112695
108	Binod Biswas	60	Male	Contarct or	Wazirabad	GFY199832	9599130362
109	FayjulSk	35	Male	Contract or	Wazirabad	807721643716	8929650866
110	Biswas Asadul	52	Male	Contract or	Wazirabad	960624190376	9953038584
111	Surabuddin Ali	41	Male	Collector	Wazirabad	921123334629	8929026839
112	Sekh Sanu	50	Male	Collector	Wazirabad	938888773062	8586076498
113	SahaAlam	32	Male	Collector	Wazirabad	444399049147	7029031013
114	Altulla Sardar	40	Male	Collector	Wazirabad	GNN2210136	8583055706
115	Chand MahannadSk	36	Male	Collector	Wazirabad	288552322848	8447095966
116	SanowarMolla	28	Male	Collector	Wazirabad	489229981042	9620475397
117	MD Millan Sekh	28	Male	Collector	Wazirabad	906454584587	8582985556
118	Ziyadur Islam	24	Male	Collector	Wazirabad	918303891247	8134830902
119	Khoshed Shaikh	24	Male	Collector	Wazirabad	757107362587	9717686562
120	Samar Ali Mondal	22	Male	Collector	Wazirabad	427520885735	9667741104
121	SarikulSk	20	Male	Collector	Wazirabad	722093869193	8391957081
122	Kamal Sk	35	Male	Collector	Wazirabad	658682332012	9593980724
123	BakirulSk	17	Male	Collector	Wazirabad	964161821593	9711823621
124	Sunil Singh	30	Male	Collector	Wazirabad	444648742841	9992077911
125	HasibulSk	17	Male	Collector	Wazirabad	996176344777	6304338468
126	MartujaSekh	38	Male	Collector	Wazirabad	UJM0119131	9560629256
127	Abal Hossain	35	Male	Collector	Wazirabad	900160505718	9870531356
128	shahid Mondal	26	Male	Collector	Wazirabad	CLTPM1628L	9945862497
129	Eliyas Mandal	40	Male	Collector	Wazirabad	531786229155	8942984903
130	PalekhanSk	32	Male	Collector	Wazirabad	920017302457	9582389294

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131	Shabuddin	26	Male	Collector	Wazirabad	893492036594	7701804835
132	MojammelSk	28	Male	Collector	Wazirabad	616745520863	7827237833
133	Subal Ojha	43	Male	Collector	Wazirabad	530625675097	9667244762
134	Mallik Habibur	43	Male	Collector	Wazirabad	994353979245	9995170679
135	SekhNasimuddin	55	Male	Collector	Wazirabad	688465781294	8373950877
136	IiyasSk	23	Male	Collector	Wazirabad	262739974700	9311724392
137	SekhRayhan	43	Male	Collector	Wazirabad	361927011781	9773647062
138	AjirulSk	47	Male	Collector	Wazirabad	974065634656	8376963375
139	SekhSaltu	45	Male	Collector	Wazirabad	362453513977	8826936269
140	Rupchand Biswas	27	Male	Collector	Wazirabad	442434687066	7585980781
141	Majahar Ali	30	Male	Collector	Wazirabad	975555064453	9707878221
142	Uttam Mistry	32	Male	Collector	Wazirabad	UPW1295823	9650599319
143	Shyamal Das	22	Male	Collector	Wazirabad	802087912139	9650599319
144	AlaminSk	26	Male	Collector	Wazirabad	376748180016	7866973790
145	Ajad Mallik	33	Male	Collector	Wazirabad	457311198683	8506845344
146	Sanowar Ali	23	Male	Collector	Wazirabad	289672048614	6002241446
147	SarfalKhondekar	47	Male	Collector	Wazirabad	964131711961	9971311459
148	FariyajSekh	22	Male	Collector	Wazirabad	605891082422	9654517514
149	Heba Fakir	34	Male	Collector	Wazirabad	330333745459	8207224888
150	Arijulla Mandal	53	Male	Collector	Wazirabad	527010146336	8101881817
151	Jugol Das	43	Male	Collector	Wazirabad	633758446129	9560834385
152	Aynul Islam	20	Male	Collector	Wazirabad	656700863230	9101530457
153	JahiruddinSk	18	Male	Collector	Wazirabad	998870619802	7042040186
154	Shukhchand Biswas	31	Male	Collector	Wazirabad	605946197958	9953038584
155	Ekbal Hossain	32	Male	Collector	Wazirabad	891059850471	9958028950
156	InarulSk	33	Male	Collector	Wazirabad	334900670907	9667016650
157	MD SarifulSekh	33	Male	Collector	Wazirabad	501227357407	7838494133
158	BaychhaddinSekh	36	Male	Collector	Wazirabad	796969801968	7365907116
159	Amjad Mollah	40	Male	Collector	Wazirabad	690119794235	8586936357
160	KabilSekh	34	Male	Collector	Wazirabad	549447366121	9625088863
161	Babar Ali	21	Male	Collector	Wazirabad	505536997300	8448964588
162	Dilbar Khan	31	Male	Collector	Wazirabad	351770642030	7838030972
163	Rahis Uddin	26	Male	Collector	Wazirabad	991599417188	9643277153
164	Salim Sekh	25	Male	Collector	Wazirabad	686407458447	9560357993
165	Ajmat Khan	50	Male	Collector	Wazirabad	493374992482	8388077593
166	SkMannaj	50	Male	Collector	Wazirabad	WB11070396742	8860616430
167	Arjun Das	33	Male	Collector	Wazirabad	711190329224	8586376498
168	MarfatSekh	37	Male	Collector	Wazirabad	647816406163	9311065499
169	Abdul Alim Sekh	39	Male	Collector	Wazirabad	820794640630	8167530999
170	Resmina Bibi	45	Female	Sorter	Wazirabad	967614936123	7042112695
171	SkMunsad	53	Male	Collector	Wazirabad	403130468100	8343953180
172	Krishna Majumdar	23	Female	Sorter	Wazirabad	632209292569	9599130362
173	Das Sunil	67	Male	Collector	Wazirabad	647057042996	9958028950
174	Das Namita	55	Male	Collector	Wazirabad	724778225957	9958028956
175	Nasir Mondal	50	Male	Collector	Wazirabad	425187448975	No
176	HayadasSekh	33	Male	Collector	Wazirabad	310627512257	7827393158

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177	AnjuraSk	37	Female	Sorter	Wazirabad	355175333223	8860616430
178	Bishwjit	37	Male	Collector	Wazirabad	586548285736	8376098652
179	Noori	51	Female	Sorter	Wazirabad	914078828913	No
180	Bilkis Bibi	31	Female	Sorter	Wazirabad	762657846394	9870531356
181	Kurchia Bibi	28	Female	Sorter	Wazirabad	846270814245	9310176752
182	Kartik Biswas	31	Male	Sorter	Wazirabad	927996260661	9667436419
183	KurmanSk	27	Male	Collector	Wazirabad	305509602444	7289064826
184	SajjatSekh	31	Male	Collector	Wazirabad	479288853844	9641654794
185	Abdur Rahim	31	Male	Collector	Wazirabad	GCL1436266	6000482610
186	Anna Bibi	52	Female	Sorter	Wazirabad	487376946462	8929026839
187	Samsul Haque	45	Male	Collector	Wazirabad	583693398580	9350745173
188	MeherunNesa Khatun	27	Female	Sorter	Wazirabad	447443169053	8700045098
189	MD SarifulSk	26	Male	Collector	Wazirabad	RJG1438910	7982018916
190	Arshad Ali	31	Male	Sorter	Wazirabad	423717552010	8373956029
191	Afjal Hosen Shaikh	39	Male	Sorter	Wazirabad	HHK1956247	9871697348
192	MagibarRahaman	25	Male	Collector	Wazirabad	795746426720	7908290383
193	Pervanu Khatun	50	Female	Sorter	Wazirabad	871595354818	8826936269
194	Shah Alam	43	Male	Collector	Wazirabad	210458251820	6003000412
195	Ratikanta Das	36	Male	Collector	Wazirabad	238613813437	No
196	Asabuddinsek	23	Male	Collector	Wazirabad	5577733882787	9773647062
197	Dipankar Roy	29	Male	Collector	Wazirabad	451704801265	7291806586
198	LalchandSekh	23	Male	Collector	Wazirabad	965863761848	7701957386
199	TajibSeikh	31	Male	Collector	Wazirabad	289999997475	8250902951
200	Pradeep Mondal	44	Male	Collector	Wazirabad	319546555729	9899690552
201	KonikaMundal	39	Male	Collector	Wazirabad	680326396841	6294092800
202	Intaj Khan	39	Male	Collector	Wazirabad	Gmy2762003	704277461
203	SentuMolla	24	Male	Collector	Wazirabad	775480126965	9667228477
204	IntajulSekh	32	Male	Collector	Wazirabad	902163723484	9205741380
205	Jahangir Mondal	35	Male	Collector	Wazirabad	XMB1217777	7303869731
206	Ayes Rehman	38	Male	Collector	Wazirabad	237163313481	8447894443

**District Environment Plan of Gurugram  
List of Secondary Point in Municipal Corporation, Gurugram.**

Sr. No.	Secondary Point Name	Zone name	Land
1	Dhanwapur Near Community Centre	Zone 1	Govt. MCG
2	Daulatabad Under Flyover	Zone 1	Govt. MCG
3	Gadolikalan Near Pullia	Zone 1	Govt. MCG
4	Near GMDA Bus Stop Harsaru Village	Zone 1	Private
5	Near Minda Company Mohammadpur Village	Zone 1	Govt. MCG
6	Umang Bhardwaj Chowk	Zone 1	Govt. Forest
7	Near Sector 9 Huda Market	Zone 1	Govt. DHBVN
8	Sector 9A	Zone 1	Govt. DHBVN
9	Opp. Police Station Pataudi Road	Zone 1	Govt. MCG
10	Sector 12 Chowk	Zone 2	Govt.
11	IndiseSheetla Mata Mandir	Zone 2	Govt. Mata Mandir
12	At Sheetla Mata Mandir	Zone 2	Govt. Mata Mandir
13	Shere Punjab Hotel Kapashera Border	Zone 2	Govt. PWD
14	Chhipi Colony Dundahera Village	Zone 2	HUDA Govt.
15	Nihal Colony	Zone 2	HUDA Govt.
16	Choma Village	Zone 2	Govt.
17	Shani Mandir Near Maruti Parking Sector 18	Zone 2	Govt. PWD
18	Harijan Basti Sector 18 Sahroul Village	Zone 2	Govt.
19	Ranbaxy Sector 18 Sahroul Village	Zone 2	Govt. MCG
20	Near Union Bank Indian Oil Sector 18	Zone 2	Govt. MCG Road

**District Environment Plan of Gurugram  
List of Empanelled Agency of BWGs in Municipal Corporation, Gurugram.**

Sr.NO.	NAME OF AGENCY	Contact No	E-mail id
1	M/S Balancing Bits	9811715808	rahul@balancingbits.com
2	M/S Eco Santulan Renewable Energy LLP	8130784466 9958221276	info@ecosantulan.com gupta1120@gmail.com
3	M/S Green Bandhu	9818167932 9810843278	greenbandhu@gmail.com
4	Gurgaon Waste Management System Pvt. Ltd.	9999901916	gwmsystem1@gmail.com
5	M/S Green Bricks Solutions Pvt. Ltd.	9717920100	info@gbes.in
6	M/S Organic Solution	9810590101	organicsolutions@gmail.com
7	M/S Human Kind Foundation	9873661681	humankindfoundation@hotmail.com sharmamonica1972@gmail.com
8	M/S Green Rich Grow India Private Limited	8285730000	aditya.chaudhary@hotmail.com
9	M/S Bijson Innovations	7297099998 8233333000	info@bijson.com
10	M/S Sai Industrial Aiders	9811555998	saiindustrialaiders@yahoo.com
11	M/S Green Planet Waste Management Pvt. Ltd.	9910049185	ravikapoor20@gmail.com
12	M/S Gogreen Facility Services	9999197319 9599188501	servicesgogreen@gmail.com sohitboken04@gmail.com
13	M/S Eswachh Integrated Solutions Pvt Ltd	8178472226	contact@eswachh.world
14	M/s Alfa Therm Limited	9818635933 9650111613	compostmachines@alfatherm.in
15	M/S Green Motive Facilities	9873657995	greenmotivefacilities2002@gmail.com
16	M/s Organica Biotech Pvt. Ltd.	8882345733	info@organicbiotech.com
17	M/s Vulture Innovation Private Limited	7665869550	info@vultureinnovation.com
18	M/s Reddonatura India Pvt. Ltd	7760987934	info@reddonatura.com delhi@reddonatura.com
19	M/s Greenenviro Smart Solution	8368943266	greenenviross@gmail.com
20	M/s Sidharth Enterprises	9871922533	siddharthcleaningservices@yahoo.com
21	M/s Tresgreen Technology Pvt. Ltd	9999669978	tresgreen@outlook.com abirara@live.com
22	M/s Green Karma And Associates LLP	9999997258	greenkarma.in@gmail.com
23	M/s Aarvi Ventures	7428341717 7206146717	aarventure@gmail.com
24	M/s Daya Charanand Company	9871698969	saurabhagarwal2020@gmail.com
25	M/s Alfa Green Solution	9717873600 9911360000	dagarravi51r@gmail.com ravidagar51r@gmail.com
26	M/s Summit Security and Manpower Services	9873984700	sumitsmitghata@gmail.com

# District Environment Plan

## Annexure-5

Sr. No.	BWG Name/BWG □□□□□	Contact Detail Person/□□□□□ □□□□□□□□□□ □□□□	Contact Person Name/□□□□□□ □□□□□□□□□□ □□□	Contact Number	Zone	Ward	Area	Address
1	THE PERCH ARBOR	Manager	Khaki	8742952321	3	33	Sec 43	Sec 43 C 988
2	Daddy of teste	Owner	Kulpreet	9728999444	3	34	Sec 29	Sco 33 Daddy of teste
3	Vatika business park	Manager	Mr. Rajesh	9871319497	4	26	Sec-49	Vatika business park sec-49
4	Down Town	Manager	Ashu	9716285499	3	34	Sec 29	Sco 34
5	Decode bar	Manager	Anil visht	8377879550	3	34	Sec 29	Sco 39
6	Sankritiappartment	Manager	BB tiwari	9315262113	3	33	Sec 43	Sec 43 GH 5 Sanskritiapp artment
7	Chull	Manager	Mahesh	7042070540	3	34	Sec 29	Sco 11/12
8	Nirvana the close South sector 50	Manager	R P kaushik	9821580387	4	26	Tigra road	Nirvana the close South sector 50
9	Unitech cyber park	State Manager	Rajesh kumar	9821976500	4	28	Set. 39	Set. 39 Village jhadsa
10	Reliance fresh	Manager	Rajbir Singh	7011603897	1	13	Kadipur	Pataudi road yadav market kadipur
11	Sukda Hospital	Owner	Virender Nain	7840025151	1	13	Kadipur Industri al Area	KadipurIndus trial Area
12	Baani square sec 50	Manager	Randhir Singh	9711005083	4	26	Mayfield garden	Baanisqaure sec 50 Mayfield garden
13	Lilac A2 residential welfare association	Manager	Sushil kumar	8178195627	4	26	South City 2	South City 2 ,sohna road lilac 2
14	Cisco india ltd.	Manager	R.c.Bhatiya	9717179634	1	10	Laxman Vihar	Railway Road Laxman vihar Near By Railway Station
15	The Kitchen Pvt. Ltd.	Manager	Shivkumar Verma	9818961799	4	27	Infocity 2	Infocity 2 plot number 25 sector 33
16	V.p international	Manager	Siridher	9818443030	4	27	Infocity	Plot no13/33
17	Zara Houses	Manager	Rajender	8447564972	1	11	Surat Nagar	Zara Houses
18	Yadvanshishiksha Niketan	Manager	Jaiparkash	9315457467	4	27	Sec 33	Sec33
19	Pasco motors	Manager	Ajay	9910993364	1	24	Pasco motors	Pasco motors service road Narsinghpur
20	Bestech Park view spa next	Manager	Neeraj Kumar	9899712412	4	25	Sector 67	Sector 67
21	Walking street bar	Manager	Gyan singh	8512072412	3	34	Sec 29	Sco 20 sec 29
22	Adda by striker	Manager	Rohit	8800666007	3	34	Sec 29	Sco 24 sec 29
23	TFR NH8	Owner	Rahul	7056000098	1	24	Nh-8 TFR sec 74 near skyview	Narsinghpur
24	Tata auto camp gy battery Pvt.ltd	Manager	Suresh	9211188842	1	24	Narsing hpur Chowk	Tata auto comp gy battery NH-8

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25	Subhash chandadlakha	Manager	Subhash chandadlakha	9911490100	1	22	Khandsa road	Dav. Sr. Sec khandsa road, gurgaon
26	Balverde tower	Manager	Amer singh	8130133701	3	35	DLF phase 2	DLF phase 2 balverde tower
27	Rail vihar	State Manager	Satvir	8076342385	4	29	Sec 47	Rail vihar
28	Gurgaon Central mall	Manager	Deepak	8920402313	3	34	DLF 1 Gurgaon Central mall	Gurgaon Central mall sec 25
29	Ganga Appartment	President	Rohit	9582230337	1	20	Shanti Nagar	Ganga Appartment shanti nagar
30	Essel tower	State Manager	Charko	9654128022	3	34	Essel tower	Essel tower
31	Balverde park	Manager	Ajay yadav	9946489016	3	35	DLF phase 2	DLF
32	Uniworlddardan 2	NA	NA	NA	4	29	Sector 47	Uniworlddardan 2
33	Stella Indusstriles Limited	Manager	Suparna	9650022529	1	24	Near Shani mandir kherkid hola	Stella Industries ltd.
34	Ild Green	Manager	Dk Thakur	9821794053	1	13	Basai	Basai
35	Raheja mall	Manager	Pardeep	8130099236	4	29	Sector 47	Raheja mall
36	Mico glass	Manager	Suresh duby	NA	4	26	Begampurkhatola	Sector 35 begampurkhatola
37	Vipul belmonte	Manager	□□□□□□□□	9650017581	3	32	Sec 53 golf course road	Sec 53 golf course road
38	D.A.V. Public School	Manager	Sushila	NA	1	23	NA	NA
39	Westin hotel	Manager	Jitendra	8826392270	3	34	Sec 29	Westin hotel sec 29
40	Home	Owner	Sachinsoni	9818543939	3	33	Sector 43 h.no 188	Gril pg h.no 188 sector 43
41	NBCC	Manager	Ravinder	9467700509	1	13	Sector 37D	Sector 37D
42	Pluse dust collector	Manager	Sarfaj	8700505840	1	23	Pase 6	Plot no 5d phase 6
43	The icon	Manager	Chabilal	8130033594	3	32	DLF phase 5	The icon
44	Vipul Trade center sector48	Manager	Narayan raghunandan	+911242666001	4	26	Sector 48 Sohna Road	Vipul Trade centre Sector 48sohna road Gurgaon
45	Raju yadev	Manager	Raju yadev	7011243536	1	23	Khandsa village sctor 37	648/649 pasccitysector 37
46	M&m machine craft pvt.ltd	Manager	A.k sing	9871122266	1	24	Darbari purhasa npur road	Vill.kherkidaula, gurugram
47	Pushpender	Manager	Pushpender	8527624510	1	23	Khandsa	Cryovivaindi a plot no129 sector 37
48	PY welcome	Owner	Sukhbir Singh	8800161666	3	33	Sec 43	H.No 328 sec 43
49	Bestech park view spa	State Manager	Indraneel	7042322331	4	29	Sector 47	Park view spa
50	TATA parimanti	State Manager	Dheeraj Kumar	9650199010	4	26	Sector 72	Sector 72
51	Terupati residence	Owner	Deepak sing	9599390423	3	32	Tirupati residen cy	Triupati residency c1-2780, Dushyanta lok-1

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52	Sincere marketing services	Manager	Op Yadav	8588847063	1	24	Near by Volvo company	Sincere marketing services LTD Narsinghpur
53	The perch arbor	Manager	Madhu singh	9899805197	3	32	Sushant lok-1 block c	C-988, sector 43 sushant lok-1 ggn
54	Agarwal packets & movers	Manager	Niranjan	8595482697	1	24	Service road Narsinghpur	Agarwal packers and movers
55	Riz wood apartment	Manager	Nitin Kumar	9810464883	3	33	Dlf phase 4	Dlf phase 4
56	Malibu towan	President	Sumit	8168090544	4	29	Sector 47	Malibu towan
57	Malibu towan	President	Vijay	9810128540	4	29	Malibu towan	Malibu towan
58	Malibu towan	President	Manjeet Singh	8700927723	4	29	Sector 47	Malibu towan
59	Malibu towan	President	Sanjay satyawart	9717699446	4	29	Sector 47	Malibu towan
60	Malibu towan	President	D B misra	9818856853	4	29	Sector 47	Malibu towan
61	Om sweets	Manager	Vijay	8860144483	1	23	Khande shroode	Om sweets huda market sec 10a
62	Omaxe City center sector 49	Manager	Rampaliya	9711800898	4	26	Sohna road near fazilpur chock	Omaxe City center sector 49
63	Gautam hospital	Manager	M. K. Bhal	9650085765	1	23	Old khands ha rood	Gautam hospital sec 10a
64	Corporate park	Manager	Manoj Kumar	7290053118	3	35	Ward 35 zone 3	Ward 35 zone 3 corporate park
65	DPSG school	Manager	Satyaviryadav	9785814130	3	32	Sushant lok c block	Sushant lok c block
66	Ekta Apartment	Manager	Sateender	7753059586	1	23	Sec10a	Ekta apartment gh10 sec 10a
67	Idpl apartment	Manager	Krishna	9999643436	1	23	Sec 10a	Idpl sec 10a
68	Universal trad tower sector49	Manager	Pardeep Kumar	+911244037504	4	26	Sohana road near speze	Universal trad tower sector49
69	The lord shiva Apartment	Manager	Ashwani	9873076119	1	23	Sec 10a	The Lord shiva Apartment sec10a
70	Exclusive floors	General Secretary	Salonisharma	9971666998	3	32	DLF phase 5	DLF phase 5
71	Deepmala apartment	Manager	Manmohan Singh	9811450329	1	23	Sec 10a	Deepmala apartment sec 10a
72	Bhardwaj public School	Manager	Pawan	9899064841	1	13	Krishna Nagar	Krishna Nagar
73	Wellington estate	Manager	Naresh	9310368058	3	32	DLF phase 5	DLF phase 5
74	Vasant apartment	Manager	Vijay thakur	9811687701	2	6	Sec 14 old delhi road sec 14	Sec 14
75	Carlton 4	Manager	Mahesh saini	+911242572048	3	32	DLF phase 5	DLF phase 5
76	Laxmi pg	Owner	Rajesh	9718322913	4	28	Islampur colony	Islampur colony
77	Kanti Devi Hospital	Manager	Dr.Chandan	9818828963	1	13	Sector 37C	Sector 37C
78	Ambience mall	Manager	Jagvinder	8700883151	3	35	DLF phase 3	Ambience mall phase 3

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79	Ahooja Eye & Dental Institute	State Manager	Subash khurana	9818244000	2	8	Dayana nd colony	New railway road Dayanand colony
80	Aashirwad PG	Owner	Akshay	9873912588	4	28	Islampur colony	Islampur colony
81	Eros City square sec-49	State Manager	Rajveer Singh	9999426028	4	26	Rose wood city	Eros City square sec-49
82	Pine tree hospitality	Manager	Rampershad	8860709864	2	6	Sec 14	Sec 14 near bysyam sweet.
83	Virvyasa guest house	Manager	Surender	7065394089	4	29	Islampur colony	Islampur colony
84	Bestech park view	Manager	Jitender kumar	NA	2	2	Sec 3 Gurgaon	Sec 3 bestech park view Gurgaon
85	Lagoon apartment	Manager	Mr pal	+911244369950	3	35	DLF phase 3	Lagoon apartment DLF phase 3
86	The league hotel	Manager	Sukeshsingh	9555484175	2	6	Sec 14	Sec 14 near by Air Force satsion
87	One horizon centre	Manager	Nishant	9899747155	3	32	Sec 43	Sec 43
88	Billu	Owner	Billu	9990344581	2	3	Sec-22	Vill_mulahera near gurudewara
89	Aashrayaapartment	Manager	M. K gupta	9820599190	1	23	Sec 10a	Aashrayaapartment sec 10a
90	Anshalpalza	Manager	Gouravseth	9810287380	2	2	Palam vihar sec 23	Anshalpalza palamvihar sec 23
91	Global Hospital	Manager	Sohan	9810908401	2	9	Sheetla colony	Opposite rivoli garden near Mata Mandir Sheetla colony
92	Om sweet	Manager	Anand Mohan thakur	8527497557	2	6	Sec 14	Sec 14 main market
93	Express Engineering	Manager	Naveen	9810622009	1	24	Service road Narsinghpur	Express Engineering Narsinghpur
94	Uma Sanjeeveni Hospital	Manager	Kiran	7835870740	3	30	Sector 55	NH 1 Uma sanjeeveni hospital
95	JTEKT	General Secretary	Sushil	9555337167	1	24	Service road Narsinghpur	JTEKT ROAD NARSINGHPUR
96	Tulip hotel	Manager	Laxman SINGH	9958988562	2	6	Sec 14	Sec 14
97	Aravali homes	Manager	Faguyadav	9958215296	3	30	Sector 54	Plot num 89 sec 54 Aravali home
98	Kalu	Owner	Rekha	9650246489	2	3	Sec-22	Vill-mulahera
99	Bansiwala	Owner	Subhash	9810782744	2	9	Ashok vihar phase 3	Ashok vihar phase 3 sec 5 Najafgarh road near sheetala colony part 2
100	Colombia asia hospital	Manager	Milan puri	9711208746	2	2	Palam vihar	Palam viharcolombia asia hospital Gurgaon
101	The brother apartment	Manager	Rakesh	7678645269	3	30	Sector 55	Plot Num 86 Sec 55 brothers apartment

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102	Ridge view apartment	Manager	Dharmbir	9818326755	3	32	Sector 54	Plot num gh 87 sector 54 ridgeview apartment
103	The habitarehotel	Manager	Pawan kumar	8800017234	2	6	Sec 14	Sec 14 near by girl clg
104	Essential logistics Pvt.ltd.	Manager	Adesh	7455871796	1	24	Near cng pump kherkid aula service road	Khrsa no.33 kherkidaula
105	Adani Oyster grande	State Manager	Salender	9205088442	1	12	Sec.102	Sec.102 near D.P.S school
106	Auto needs hero	Manager	SANDEEP	7838930335	2	6	Sec 14	Sec 14 near plot no 41 47
107	G.s.s.school	President	Sunil sharma	9911554273	2	18	Zacbpur a	Zacbpura near main bazar
108	Tuacoz Health care solutions -505	Manager	Brijmohanpatkh	8448292477	2	5	Udyog viharph ase -5	Tuacoz Health care solutions - 505
109	Aarvy hospital	Manager	Suman sani	8130564792	2	18	Aarvyho spital nearnehruru stadium	Barfkhana ward 18 near nehru hospital AARVY HOSPITAL
110	Blue Lion	Manager	Vikas	9560156660	2	5	Udyog viharph ase -5	Blue Lion-836
111	Kiwi enterprises	Manager	Nikhil	9992304748	1	23	Sec37 plot no734	Kiwi enterprises plot 734
112	Krishan swets	Manager	Vikas	9811754004	2	18	Sitaram singla chock	Mor chock civil line krishana sweets
113	Jak grup	Manager	Bhupinder	9990684002	1	23	Sec 37	Jak group pvt ltd729pace city2sec37
114	Ocus Medley	Manager	Narender kumar	9815183363	1	12	Sector 99	Sector 99
115	Jindal stainless consultancy service Sector 32	State Manager	Bhim singhkheta	9717147531	2	19	Sector 32	Sector 32
116	Xion international convent school	Manager	Snehlata	9818289828	2	9	Sec.5 part 3	Sec.5 part 3 near labour chowk
117	Radison apartment	Owner	Rajesh yadav	9711777768	3	35	DLF phase 3	DLF phase 3 u block
118	Two horizon centre	Manager	Vishnu	8130055319	3	32	Dlf phase5 sec44	Dlf phase5 sec44
119	Sun City Society	NA	Avnishkumar	8920424679	1	12	Sector 102	Sector 102
120	Sobha limited	Manager	Mohit singh	9650744228	2	2	Sec 44	Rider house sec 44
121	Orchid Petals	Manager	Sanjeet Choudhary	9643804290	4	26	Gasola road sapphir e mall	Orchid Petals Resident Association Sector 49
122	Bird automotive pvt Ltd	Manager	Babu laal	9999963486	2	6	ldc sec 14 road	IDCsec14 plot no 4
123	Kiwi enterprises	Manager	Ajay kumar	9540324446	1	23	Pace city 2sec 37	Kiwi enterprises pace city 2sec37

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124	Radhaswami public school	Manager	Rajesh Kumari Tanwer	7838124265	2	9	Sheetal a colony	Sheetala colony block A gali no 6
125	Kiwi enterprises	Manager	Suraj	9582790835	1	23	Khandsha	Kiwi enterprises4 23pase city2sec37
126	IBIS	Manager	Purshotam	9999061115	3	33	Sec 53	Sec 53 golf course road
127	South end floor c block	Manager	Sheeluyadav	9643413981	4	26	Sector 49	Sector 49
128	Janta filling station	Manager	Maruti nandan	9899659638	3	35	Ward 35 zone 3	Janta filling station
129	Sonakshi industries	Manager	Kitu	9953073898	1	23	Kahandsha	Sonaksi industry 446pase2sec 37
130	Ardee Mall	Manager	Hement	8851491005	3	31	Sec 52	Ardee Mall near ardee gate number 1 Sec 52
131	Green wood city	Manager	Neeraj	9311602014	4	29	Sec46	Green wood city
132	Residency park 1,2	Manager	Madhan singh	9990145611	3	33	DLF phase 4	Residency park 1,2 DLF phase 4
133	Manjilmotarptv Ltd	Manager	Pawan	9716131274	2	6	Sec 14	Sec 14 IDC 9A
134	Green wood city	Manager	Neeraj	9311725505	4	29	Sector 46	Green wood city
135	Dsm fresh food 452pace city	Manager	Durga	NA	1	23	Sec 37	Dsm fresh food
136	St Xaviars high school	Manager	Samay Singh	8058882803	4	26	Sector 49	Sector 49
137	Aksai creation 478	Manager	Rajender Singh	9899000558	2	5	Udyog vihar	Udyog vihar phase 5
138	Richmond park	Manager	Surendra Yadav	+911244044628	3	33	DLF phase 4	Richmond park
139	Vatika business centre	Manager	Amarjeet	9810343512	3	34	Vatika business centre	Vatika business centre
140	Om Sweets	Manager	Parveen singh	8527497518	2	19	Sector 31	Sector 31 market
141	Parsvanath Greenville	Manager	Pramod chauhan	9711233234	4	26	Sohana road Gurgaon	Parsvanath Greenville Sector 49
142	Ardee City	Manager	Hariomyadav	8950577675	3	31	Ardee City	Ardee city Sec 52
143	D.B.R.C	Manager	Denise singh	+911244766300	2	5	Udyog vihar	Udyog vihar phase 5
144	Adiflex industries pt ltd	Manager	Dixver	9910995299	1	23	Sec37	Adiflexindustriespt ltd
145	Vista villa	Manager	Nuredin	9915040947	4	29	Sector 46	VISTA villa
146	Sujanvihar	Manager	B.lyadav	8743893976	3	33	Sector 43	Sector 43
147	Tirakappartment	Manager	Narendra Kumar	9855294774	3	33	Tarikaapartment	Sector 43
148	Surbhi CGHS	Manager	Suresh Yadav	+911243513761	3	33	Sector 43	Gh.10 sector 43 Surbhi apartment
149	Defy motarsptv LTD	Manager	Harvindr paal	NA	2	6	Sec 14	Sec14 IDC 2A 3A
150	Palm Grove Height	Manager	Shardanandsingh	9810844637	3	31	Ardee City	Palm Grove height ardee city Sec 52 gurugram
151	Unitech Arcadia sec 49	Manager	Vipin yadav	9717438292	4	26	Southcity 2	Unitech Arcadia Sector 49
152	Garden estate	Manager	Karnelashok	+911244061804	3	34	Ward034	Ward034

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153	Yaadram	Owner	Yaadram	9971210870	2	4	Sec-21	Vill- dundahera
154	Ramlal	Owner	Ramlal	9810017716	2	4	Sec-21	Bill dundahera
155	Rohit enterprise	NA	Devi singhchaudhary	9711215408	2	6	Sec 14 IDC	Sec 14 plot no8 A
156	The palm drive	Manager	Sudhir Kumar	7428708004	4	26	Sector6 6	Sector 66
157	Satguru Apartment	Manager	Attar singh	8287376053	3	31	Sec 52	Satguru Apartment sec 52,gh 52
158	Emmar	Manager	NA	NA	3	34	Emmar	Emmar Sikander pur
159	Orchid business park	State Manager	S. Naqvy	9310088125	4	29	Sector 48	Orchid business park
160	Goodluck apartment	President	Sukhbir	8178276100	3	31	Sec 52	Goodluck apartment sec 52
161	West point export	Manager	Sugar singh	8506017507	2	5	Udyog vihar phase 4	Plot no.185 udayovihar phase 4
162	Start mall	Manager	Chelaran	9650656875	3	32	Sector 30	Sector 30
163	Shree ram hotel	Owner	Anup	9911227051	2	6	Near Bus stand kesam esri Ram hotel	Bus stand kesamne Sri Ram Hotel
164	La lagune Apartments	Manager	Vinod	9311958404	3	32	Sector 53	Golf course road sector 53
165	Vandana enterprises	Manager	Bilal	9999381222	2	5	Udyog vihar	Udyog vihar phase 5
166	V k n p designs Pvt Ltd	Manager	Dalip Kumar	9718576088	2	5	Udyog vihar	Udyog vihar phase 05 plot no 516
167	Gamaca garment	Manager	Rajpal singh	9910995239	1	23	Khands ha	Gamaca garments 591pase ctiy 2sec10a
168	IBM	Manager	Kartarchandshar ma	8130666392	3	32	Sector 30	Sector 30
169	Bestech park viev business tawar sec 48	State Manager	S k Anad	9711797133	4	26	Sohna road	Bestech park viev business tawarsec 48
170	Pushpanjali hospital	Manager	Harisaauhja	9899780066	2	19	Civil line	Civil line GURUGRAM pushpanjali hospital ward 19
171	Golf view corporate tower	Manager	Sumit Sharma	8448188650	3	32	Sec 53	Golf course road sec53
172	D. B. M marketing	Manager	Ravender	8076141618	1	23	Khands ha	D. B. M markrtng 676pace city 2sec37
173	Vipul medcorp insurance tpa Pvt Ltd	Manager	Vikerantsangwan	9467547504	2	5	Udyog vihar	Udyog vihar phase 5
174	M/s namo fiber pvt Ltd	Manager	Bhartprasd	+91124472900 0	1	23	Khands ha	M/s namo fibers pvt ltd 707/708pase ctiy 2sec37
175	Centre court	Manager	Tejpal aggerwal	NA	3	35	Ward 35	Center court ward 35
176	Ost	Manager	Tarunyadav	9313311474	2	5	Udyog vihar	Udyog vihar phase 5 plot no 512
177	City centre mall	Manager	Subanker	9811099514	3	32	MG road	MG road

## District Environment Plan

178	Partiba	Owner	Partiba	9891049987	3	30	Sun city sector 54	Shop n. 02 lal gum
179	Ishu public school	Manager	Susmasethi	9213428103	2	8	Aman puragru gaon village	Word 8
180	Viney	Manager	Viny	7763061242	3	30	Sec 54	Sec 54 dana choga shop no 2
181	Atria	Manager	Naveen	8130699519	3	35	Ward 35 dlf phase 2	DLF phase 2 ward35
182	Ci form	NA	Sushil	9311528663	2	5	Udyog vihar	Udyog vihar phase 05 plot no 507
183	Omaxenile Sector 49	State Manager	Dilbagsingh	9810412174	4	26	Uppal South end near ghashola village	Omaxenile Sector 49 Gurgaon
184	Henkel anandpvt Ltd plot no 74	Manager	Vivek	9643804108	2	6	Idc	IDC
185	A-one public school	NA	Anita Singh	9999367493	2	9	Sheetla colony B block gali no 1	Sheetla colony B block polit no 35
186	Kunwar salvations	Owner	Mohit	9899650888	2	2	Dharam colony	Dharam colony palamvihar
187	Malkhan	NA	Rajiv kumartugnata	9871865866	3	30	Sector 56	Sukrititgh 58
188	Malkhan	General Secretary	Malkhan	9999898766	3	30	Sec 56	Sec 56
189	Orient craft 760pace city 2sec37	Manager	Nitsh	+911244540850	1	23	Khands ha	Orint craft ltd 760pace city 2sec37
190	Divine material pvt Ltd plot no 80 A	Manager	Sanjay	9910715957	2	6	IDC	IDC
191	Mayfildgardan sec 51	President	Amit	9871127473	4	29	Mayfield garden sector 51	Mayfield garden sector 51 block m
192	Golf link apartment	Manager	SB Singh	9811188852	3	32	Sec 54	Golf Link Apartment Sec 54
193	Sawagat	Manager	Indraj	8800560908	3	34	Sec 29	Sco 16/17 sec 29
194	The north close	Manager	Gopal Pandey	9811368645	4	26	Sector 50	Sector 50
195	Amit kumar	Manager	Amit kumar	8800191058	3	35	35	DLF phase 2
196	Where house	Manager	Dharmendra	9718600666	3	34	Sec 29	Sco 11 12
197	Concrete planners	Manager	NA	NA	2	5	Udyog vihar	Plot no 524 udyogvihar phase 5
198	Rakesh	Manager	Sbesingh	9911188852	3	30	Sector 56	Plot n. 53 sector 56 sahyogsoctiy
199	Galaxy appartment	Manager	Deepak	8118829774	3	33	Sector 43	Sector 43 plot no gh-0
200	21 shots	Manager	Dharmendra	NA	3	34	Sec 29	Sco11 12 sec 29
201	With u hospital ity private limited	Manager	Dharmendra	9718600666	3	34	Sec 29	Sco 11/ 12 sec 29
202	M/s braver India's plot no 86	Owner	Vinit	9810016605	2	6	IDC	IDC plot no 86
203	South point Mall	Manager	Ashuparaser	8800174837	3	32	Sec 53	Golf course road sec53

## District Environment Plan

204	Hevo apartments	Manager	Ajit	8077515639	2	19	Hivoapp artamnt	Sec 15 part 2 hero appratmant
205	Alfa associates	Manager	Ankit	9873243660	1	23	Khands ha	Alfa associates 509pase city 2sec37
206	Rail vihar	Manager	Jagjivan	7053293171	2	19	Rail vihar	Rail viharappranant
207	21 shots	Manager	Lalit	9718166304	3	34	Sec 29	Sco 11/12
208	Shiv charan	President	Shiv charan	9650383557	3	30	Sec 56	Sec 56 plot no 56 block b
209	Shakti Appartment	Manager	Dhrambir	9416890249	2	19	Sector 15 part 2	Sector 15 part 2
210	Rolta tower	Manager	Yogesh kumar	9810029561	4	5	Udhyog vihar phase - 1 ,plot no. 185	Udhyogvihar phase-1
211	Chull	Manager	Hari singh	8742986051	3	34	Sec 29	Chull sec 29
212	Adarsh Apartment	President	Dheeraj	9873083676	3	30	Sec 55	Plot num 67 Adarsh Apartment Sec 55
213	Monga industries plot no 49	Manager	Ajay	9810497386	2	6	IDC	IDC PLOT NO 49
214	Emerald estate	Manager	Balram	7732957015	4	25	Sector 65	Sector 65
215	Vatika tower	Manager	Deepak	9213090531	3	32	Sec54	Sec54
216	Contitel hotels and resorts	Manager	Shambu	8851746762	2	19	Kirti nagar sector 15 part 1	Sector 15 part 1
217	Explorer media network Pvt Ltd	Manager	Kashavsingh	9968738082	2	5	Udyog vihar	Udyog vihar phase 5 plot no 553
218	MLS company	Manager	Mukesh Sharma	NA	2	6	IDC	IDC plot no 51
219	Mayfield garden sector 51 block n	President	Shiva	9910443456	4	29	Sector 51 mehfil garden block n	Mayfield garden block n
220	Lasco runner	Owner	SUNIL datta	9811073379	2	6	IDC	IDC plot no 52
221	Salcon the vernadas	Manager	Dimpakar Chakravarty	9873238991	3	32	Sector 54	Sector 54
222	Dtic pens ltd 542	Manager	Uday Kumar	9555484791	2	5	Udyog vihar	Udyog vihar phase 5 stic pens ltd 542
223	Vijay	General Secretary	Vijay	9718706167	3	30	Sec 56	Golden height school sec 56
224	Clarks inn	Manager	Vikram	8447757015	2	19	Civil line	Civil line
225	SinCity business tower mall	Manager	Pragya	9999613248	3	32	Se54	Golf course road sector 54
226	Shoe Busy	Manager	Triveni	NA	1	23	Sector 37	Sector 37 gurgaon
227	Paramount powders	Manager	Yatin	9999916104	2	6	Idc	IDC plot no 58
228	Amit	Manager	Amit	9899587350	3	30	Sec 56	Plot no 62 sec 56
229	Namita	President	Namita	9999700160	3	30	Sector 56	Sector 56 near byjalyaye tower
230	Tree house queens pearls	Manager	Abash	9717658883	2	19	Civil line	Civil line near Rajiv

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231	The grills restaurant	Manager	Jagmohan	9891573899	2	19	Sidhdes ver mandir sohnac hok	Sec 11 shonachok Grills restaurant
232	Sky view corporate park	State Manager	Birender Singh	9873277941	4	26	Sector 74a	Sector 74a
233	Ambuja cement	Manager	Mukul tiwari	9540560401	2	5	Udyog vihar phase - 1 plot no. -228	Udyog viharphase-1
234	Induslynktraning services private limited	Manager	Goutam Chaudhary	9958292775	3	32	Sector 44	Sector 44
235	Orchid center	Manager	Bhupender Singh	9310088151	3	32	Sec53	Golf course road sec53
236	Avinas	Manager	Avinas	8076488467	3	30	Gwalph ari	Sector 2 value state gwalpharifari dabad
237	Sudarshan indiapvt LTD	Manager	Narendra Kumar	8800119409	3	32	Sector 44	Sector 44
238	Ranjit kumarrajan	Manager	Ranjit kumarrajan	9871682688	3	30	Sector 2 gwalpah ari	Sector 2 BSF operative house building valley state
239	Paras down town center	Manager	Acharya	8376821008	3	32	Sector 53	Golf course road sec53
240	Augusta point	Manager	Sunil Kumar	9873119700	3	32	Sec 53	Golf course road sec53
241	Ete robotic system integrator	Manager	Jainendra	8005769255	1	23	Khands a sec 37	Plot no 698sector 37pace City 2gurugram
242	Starr Residency	Manager	Dinesh	8130317900	3	31	Artemis hospital sector 52	Artemis hospital sector 51
243	Umkal hospital	Manager	Richa	8860077509	3	32	Sushant lok 1	Sushant lok 1
244	Colours International	Owner	Dilsher Singh	9560261661	2	5	Udyog vihar	Udyog vihar phase 5 plote number 559
245	Rajat International	Manager	Amit	9711432229	2	5	Udyog vihar	Udyog vicar phase 5 plot no 472
246	Naresh kumar	General Secretary	Naresh kumar	9560222006	3	30	Sector 56	Bhagwanti apartment sector 56
247	Pan in Tellecomeplote no 569	Manager	Kdbakshi	7042591210	2	5	Udyog vihar	Udyog vihar phase 5 plote no 569
248	The palm springs apartments	Manager	Govind	7290003854	3	32	Sec53	Golf course road sec53
249	Quest merchant s	Manager	Vidya kant	7982243527	2	5	Udyog vihar	Udyog vihar phase 05 plot 467
250	Trinity towers	Manager	Rajiv	9717009319	3	32	DLF phase 5	DLF phase 5
251	Narender singh&sonspvt ltd	Manager	Dp Singh	9810701241	2	5	Udyog vihar	Udyog Vihar
252	Pds towers	Manager	Rajpal yadav	+91124465149 02	2	5	Udyog vihar	Udyog vihar phase 1
253	Gracious Tower	Manager	Babul Singh	9958625394	3	30	Plot no- gh 12, sector 56	Ward 30 plot no-gh 12 sector 56
254	Emaar plaza	Manager	Paritoshbakshi	9958563464	3	32	Sector	Golf course

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							53	road sec53
255	Fair lady exports plote no 576	Manager	Vishal	9810412844	2	5	Udyog vihar	Udyog vihar phase 5 plote no 576
256	Cloud nine hospital	Manager	Kartik	8260794675	4	29	Sector 47	Sector 47 near SS PLAZA
257	Milestone switch gears plote no 97	Manager	Om parkashchowdari	9811413930	4	5	Udhyog vihar	Udyog vihar phase 1
258	Pinnacle	Manager	Jay yadav	8130728913	3	32	DLF phase 5	DLF phase 5
259	Omaxe celebration mall	State Manager	Ram paliya	9711800898	4	29	Sector 48	Omax mall
260	Abhinav fashion s	Owner	Rohil	NA	2	5	Udyog vihar	Udyog vihar phase 5 plot no 489
261	Orchid gardens apartments	Manager	Hemant	8384052048	3	32	Sec54	Suncity sec54
262	Good earth Mall	Manager	Tarun Kumar	8800588094	4	26	Malibu town	Malibu town
263	C Zentris	NA	Rakesh	7065504041	2	5	UdyodV ihar	Udyog Vijay phase 5
264	Roop Rubber mills Ltd.	Manager	Dhiraj Attri	9999127640	4	27	Begampurkhatola Road Behram pur	Begampurkhatola Road Behram pur Gurgaon
265	Prashant	Manager	Retish	9810748372	3	32	Sector 53	Sector 53
266	Dharmendar	Manager	Dharmendar	9811974176	3	30	Sector 56	Plot n. 29 sector 56 anandmultisp ecialiry
267	Cuirinde	Manager	Kuldeep Sharma	7557464996	4	26	Behrum pur road khandasa	Begampurkhatola
268	Bristal hotel	Manager	Trendera Singh	8826433826	3	34	Dlf1	Dlf1
269	Kara automobile 4A	Owner	Kamal sachdeva	9910069085	2	6	IDC sec 16	IDC Plot 4A
270	Kadimi tools mfg company	Manager	Ss chouwan	9540006707	2	5	Udyog vihar	Udyog vihar phase 1
271	Cartoon estate	State Manager	Rajiv	9311052283	3	32	Sec53	Sec53
272	Datta industrial guarment	Owner	Rajan	9311087618	2	5	Udyog vihar	Udyog vihar phase 5
273	Global business park	Manager	NA	NA	3	34	Sikander pur	Global business park Sikander pur
274	Realm Clothing	NA	Javibeer	8929789816	2	5	Udyog Vihar	Udyog Vihar phase 5 plot no.790
275	Sachin	Manager	Aditya khna	9971266773	3	30	Sector 55 plot no 73	City cooperative group plot n 73
276	Royal tech engineers	Manager	Vinod	7982356262	2	6	IDC	IDC plot no 70
277	JMD garden Sohna road	State Manager	Arun kumar	9311850206	4	29	Sohna road Subhas h chowk	JMD garden Sohna road
278	AdorFontech	NA	Vinod pandey	9873720528	2	5	Udyog vihar	Udyog Vihar phase 5 plot no.789
279	Krishna industry	Manager	Suraj	9871724598	1	23	Kadipur chok	Kirshna industry kadipur chok sec 10a

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280	Shree shayam enterprise	Manager	Parveen	9911435366	1	23	Kadipur chok	Shree shayamenter peiskadipur hok sec 10a
281	Cas Weighing	NA	Sanjay	+911244922800	2	5	Udyog Vihar	Udyog Vihar phase 5
282	Sns foundation	Manager	Hemant gour	9968915628	2	6	IDC	IDC plot no 88.89
283	Glanz windows pvt. Ltd.	Manager	Sanjeev bhargava	9650096990	4	27	Behram pur set 34 khasara no 136/16	Behrampur set 34 khasara no 136/16 gurugram
284	Ag Apparels	Manager	Sourav	9910218608	2	5	Udyog Vihar	Udyog Vihar phase 5
285	Core innovations designs llp	Manager	RadhayShyam	8527004526	2	5	Udyog Vihar	Udyog Vihar phase 5 plot no.775
286	Shivankudyog ltd 672	Manager	Akleshchoudhary	NA	2	5	Udyog vihar	Udyog vihar phase 5 plot no 672
287	Pasco Automobiles	Manager	Deepak thakur	7290089866	2	19	HANS ENCLAVE	Pasco Automobiles dineshjin complex NH-8 Rajiv Chowk
288	RjtApolis	Manager	NA	NA	2	5	Udyog Vihar	Udyog Vihar phase 5 plot no.736
289	Krishna regency	Owner	Dinesh Yadav	9540577577	3	32	Sector 45	Sector 45
290	Patal car cars	Manager	Dlwakar	9810332222	2	6	IDC	IDC plot no 14/15
291	Pardeep	Owner	Pardeep	9910584183	2	5	Sec-20	Udyog vihar phase 1
292	Mark exhaust	Owner	Parveen Kumar	9999875417	4	26	Begamp urkhatol a	39/7 Delhi Jaipur highway
293	Decode	Manager	Kiran	7838392844	3	34	Sec 29	Sco 39 sec 29
294	The palm apartments	General Secretary	Naresh	9717877533	3	32	South City 1	South City 1
295	Rishabh Embroideries	NA	Ravinder Singh	9891965836	2	5	Udyog Vihar	Udyog Vihar phase 5 plot no.741
296	Prerna rex	Manager	Manoj Bhandari	7053052771	4	26	Khandsa	Behrampur road khandsa
297	Asian hobbie craft llp	Manager	Abhilash	9634556102	2	5	Udyog vihar	Udyog vihar phase 5
298	Sector 39 huda	Vice President	Mahesh Kumar	9999494150	4	28	Sector 39	Sector 39 huda
299	21 gun salute	Manager	Ramesh	9650286063	3	34	Sec29	Sco 35/36
300	Biosphere sign ad plot no 313	Owner	S. Aggarwal	9891946051	2	4	Udyog vihar phase 2	Plot no 313 udyogvihar phase 2
301	PNG TExiles	Manager	Sonukumar	9650776841	2	5	UDyoG vihar phase 5	Udyog vhiarnear byplot no 615
302	McDonald's	Manager	Ravindra	NA	3	34	Sec 29	McDonald's sec 29
303	The retreat appartments	Manager	Suresh Kumar	9560428600	3	32	South City 1	South City 1
304	Rooppolymerise Ltd	Manager	Surender nayak	9899590538	2	6	IDC	IDC plot no 27
305	Dawn Town	Manager	Mahram	9717525894	3	34	Sec29	Sec 29
306	Rr partners 633 C 1 st floor	Manager	Pvjain	9911422533	2	5	Udyog vihar	Udyog vihar phase 5
307	Mrs. Sunita Trehan	Manager	Buneswer	9311573839	2	4	Udyog vihar phase 2	Plot no 312 udyogvihar phase 2 near ICICI Bank

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308	Maa durga industry	Manager	Manoj	9891710491	1	23	Kadipur chok	Maa durga industry kadipur chok sec 10
309	Evergreen international	Manager	Narender	9560271847	4	26	Behram pur road khandsa	Delhi Jaipur highway behrampur road khandsa
310	Duty free	Manager	Sachin	7038533373	3	34	Sec 29	Sec 29
311	Chines panda	Manager	Amar	8433622140	3	34	Sec29	Sec29
312	Veegee faucets pvt Ltd	Owner	Lakshay	8527045250	2	6	IDC	IDC plot no 36
313	Allport	Manager	Gurmeet	+91124460700 0	2	4	Udyog vihar phase 2	Plot no 333 udyogvihar phase 2
314	Mectekknitfabs Pvt Ltd	Manager	Sanjeetyadav	9582045851	2	4	Udayog vihar phase 2	Udayogvihar phase 2 plot no 330
315	Globel center	Manager	Aanand	9015565659	2	4	Udyog vihar phase 2	Plot no 327 udayogvihar phase 2
316	Friction	Manager	Amit	8800811667	3	34	Sec 29	Sco 28
317	Gung the palace	Manager	Sanjay	9958148924	3	34	Sec 29	Sco 27 sec 29
318	Infox	Manager	Sanjay Jha	9910768257	2	4	Udyog vihar phase 2	Plot no 334 udyogvihar phase 2
319	Balaji engineering works	Owner	Bhart Gupta	9310396880	2	6	IDC	IDC plot no 27B
320	Values home	Manager	Rajesh	9696962828	3	34	Sec 29	Value homes sev 29
321	Topaz it service	Manager	Tarun	9773970440	2	4	Udayog vihar phase 2	Udayogvihar phase 2 plot no.348
322	Moulecule air bar	Manager	Deepak	9716011540	3	34	Sec 29	Sco 53 sec 29
323	Unitech limited	Manager	Ravinder Singh	8130611488	3	32	South City 1	L block south City 1
324	Panasonic	Manager	Rajnish	8586023627	3	35	Ward 35 ambience mall	Ward 35 ambience mall
325	Rightech stamping	Manager	Jagdish	9599519310	1	23	10a	Rightech stamping sec10a
326	Spice Jet	NA	Parmodkumar	9899262485	2	5	Udyog Vihar 5	Udyog Vihar plot no 693
327	Flavor town	Manager	Sanjeev tyagi	9899759788	3	32	Sushant lok1	Sushant lok1
328	Axis Telecom Inc	Manager	Skjha	6203001245	2	5	Udyog Vihar	Udyog Vihar phase plot no 879
329	Abc leathers	Manager	Nitadand Singh	7859985988	2	5	Udyog Vihar	Udyog Vihar phase 5 plot no 875
330	Digital web solution p.v.t LTD	Manager	Sachin	8920004763	2	5	Udyog vihar phase 1	Sector 20 udyogvihar phase 1
331	Katraina	Manager	Manpreet	9560120148	3	35	Ambience mall	Ward 35 ambience mall
332	Bahia Enterprises	Manager	Hariom Sharan	9212066428	2	5	Udyog Vihar	Udyog Vihar phase 5 plot no 883
333	Shri bankebihari garments	Manager	Rajender Singh	8010116466	2	5	Udyog vihar	Udyog vihar phase 5
334	Rokana herbal care pvt ltd	Manager	Rishwan	9205351168	2	5	Udyog vihar phase 1	Udyog vihar
335	INDMAG REMEDIES PVT LTD 209	Manager	Mahesh	+91124400215 1	2	5	Udyog vihar	Udyog vihar phase 5
336	Mapple height	Manager	Manoj Kumar	NA	3	32	Sector	Sector 43

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							43	
337	Domino printechindiallp	Manager	Kamal Choudhary	9868627685	2	5	Udyog vihar phase 1	Grugaon word 5
338	Nepbroadcast Solution pvt.Ltd	Manager	Rupesh	9871507548	2	5	Udyog vihar	Udyog Vihar phase 5 plot no 873
339	Richa Global	Manager	Arambh	9717696706	2	5	Udyog Vihar	Udyog Vihar phase 5 plot no 871
340	Shiva international	Manager	Rana singh	8874778880	2	5	Phase 1 udlluyag vihar	Udiyavihar
341	Ras Software solution pvt.Ltd	NA	Purostam Tiwari	9716774969	2	5	Udyog Vihar	Udyog Vihar phase 5 plot no 856
342	Chokola 131	Manager	Chandra bhandari	8826456779	2	5	Udyog vihar	Udyog vihar phase 1
343	Orchid overseas	Manager	Pankaj	8802670052	2	5	Udhyog vihar phase 1	Udhyogvihar phase 1
344	M/S Riri Fashions Consultants	Manager	Ajay	7701910440	2	5	Udyog Vihar	Udyog Vihar phase plot 855
345	Orchid overseas	Manager	Pankaj huda	NA	2	5	Udyog vihar phase 1	Udyog vihar phase 1
346	Raj mahal	Manager	Sanjay	9818031823	2	5	Udyog vihar	Udyog Vihar phase 5 plot no 849
347	DLF plaza tower	Manager	Pankaj	8527188592	3	32	DLF City phase 1	DLF City phase 1
348	Cowi 121 udyogvihar phase 1	Manager	Sunil Kumar	NA	2	5	Udyog vihar	Udyog vihar phase 1
349	Gravity entertainment	Manager	Ganesh	9818769716	2	5	Udyog vihar	Udyog Vihar plot 840 phase 5
350	Mod serap industries begumpurkhatola road village khandsagurugram	Manager	Adeshkumar	9818131813	4	27	Begumpurkhatola road khandasa	Begumpurkhatola road khandsagurugram
351	Arjan auto Pvt Ltd 81	Manager	Daniesh	7456052105	2	5	Udyog vihar	Udyog vihar phase 1
352	Singh exports	Manager	Ashim	9891013233	2	5	Udyog vihar phase -1	Udyog vihar phase -1 plot no. -211
353	Hindustan switch	Manager	Santosh	7982091031	2	5	Udyog vihar	Udyog vihar phase 1
354	Richa & co	Manager	Jatin	9999734367	2	5	Udyog vihar phase 1	Gurgaon udyogvihar phase 1
355	Sigma industries	Manager	Jhon	9810513213	2	5	Udyog vihar	Udyog Vihar phase5 plot no 769
356	Daksh tools & appliances	Manager	Pawan	9810121992	2	5	Udyog vihar	Udyog vihar phase 1
357	Internet indiaptvt ltd	Manager	Manish mohrol	NA	2	5	Udyog vihar phase 1	Intertek indiaptvt.ltd 68 udyogvihar phase 1
358	Van export	Manager	Ramnivash	8426908940	2	5	Udyog vihar	Udyog vihar phase5 plot no826
359	FAB CAFE 39	Manager	Surrender kumar	9311415281	2	5	Udyog vihar	Udyog vihar phase 1
360	Mani centra	Manager	Vishnu dev jha	9891071824	2	5	Udyog vihar	Udyogvihar phase -1 plot no. - 212
361	Alubuild Engineer 24	Manager	Shail	9999855215	2	5	Udyog vihar	Udyog vihar phase 1

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362	Interface	Manager	Bijendersingh	9540172015	2	5	Udyog vihar phase 1	Udyog vihar phase 1 plot no. 180
363	Arvind construction co pvt LTD	Manager	Mohit chaudhary	9810954506	2	6	Sec 14	Seco 2 ,3 sec 14
364	Omtara design Pvt ltd	Manager	Joginder kumar	9871208514	2	5	Udyog vihar	Udyog vihar phase 4
365	Emergency assembly area change name perfect clothing	Manager	Aanandkumar	9643984602	2	5	Udhyog vihar	Udyog vihar phase 4
366	Dencareindiapvt ltd	Manager	Pawan	7310049655	2	5	Udyog vihar	Udyog vihar phase 4
367	Clareins hotel	Manager	Rahul malik	NA	3	34	Sec29	Clareinns hotel sec 29
368	Iffco tower	Manager	Ashok	9910045304	3	34	Sec29	IFFCO tower sec 29
369	Sebi desing	Manager	Bejyebhadurgupta	9773704412	2	5	Udyog vihar phase 3	Udyog vihar phase 3
370	Gaurav internationl	Manager	Partapsingh	9717696797	2	5	Phase 3	Udyog vihar phase 3
371	Pearl global Ltd 274	Manager	Devender Kumar	9810362236	2	5	Udyog vihar	Udyog vihar phase 2
372	Ram partapyadhav	Manager	Bunty bisht	9868510992	2	5	Electronic city sector 18	Aithentechnologiesv plot n. 8-9
373	Master infrastructure private	Manager	Suresh Kumar	9717699257	2	5	Udyog vihar	Udyog vihar phase 2
374	Ingenious appliances& packing plote no 371	Manager	Usha	9818702177	2	5	Udyog vihar	Udyog vihar phase 2
375	S. A. N international	Manager	NA	NA	2	5	Udyog vihar phase 3	Udyog vihar phase 3
376	Shivankudyog limited 370	Manager	Mahesh	9313921888	2	5	Udyog vihar	Udyog vihar phase 2
377	M. S kaushik	Manager	M. S kaushik	9999644910	2	5	Sec 18	Election city sec 18
378	M/S ARC ARORA PROJECT PVT. LTD 17-18	Manager	Gurjant	7838867765	2	5	Udyog vihar	Udyog vihar phase 4 plot no 17-18
379	Canara Bank 303	Manager	Rakesh Yadav	+911242657514	2	5	Udyog vihar	Udyog vihar phase 2
380	S spvt.ltd 437	Manager	Dinesh	9810511324	2	5	Udyog vihar phase 3	Udyog vihar phase 3
381	Clover Global Services Pvt Ltd	Manager	Manoj kumar	9868505243	2	5	Udhyog Vihar	Shed # 15 Hartron Complex, Electronic City, Udyog Vihar, Sector 18, Gurugram
382	Asian handicrafts pvt ltd 305	Manager	Ashok	8448789132	2	5	Udyog vihar	Udyog vihar phase 2
383	Arjun khanna	Manager	Amit	NA	2	5	Udyog vihar phase 3	Udyog vihar phase 3
384	Geochem laboratory -306	Manager	Bhuwanes	+911246250500	2	5	Udyog vihar	Udyog vihar phase 1
385	SGS WEATHER & ENVIRONMENT 36	Manager	Sanjeev	9582440374	2	5	Udyog vihar	Udyog vihar phase 4
386	Anil	Manager	Anil	+911244100669	2	5	Udyog vihar 5	Pcl industries electronic city sec 18

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387	ELCON COMPONENTS PVT LTD 50	Manager	Mohit Kumar	9991028182	2	5	Udyog vihar	Udyog vihar phase 4
388	Sandeep tiwari	Manager	Sandeep tiwari	8588869343	2	5	Sec 18	Electronic city udyogviharm etadesign solution s pvt 28-29
389	Ritcokirti associates	Manager	Roshan	9810631200	2	5	Udyog vihar	Udyog vihar phase 2
390	Cienaindiapvt. Limited	State Manager	Balraj singh	9953100192	2	19	Sector 32	Sector 32
391	Authbridge research Pvt Ltd	Manager	Ranjeet Kumar Singh	8810537116	2	5	Udyog vihar	Udyog vihar phase 4
392	Choice clothing company	Manager	Sukhbir	9911682182	2	5	Udyog vihar	Udyog vihar phase 2
393	Fortuna colours prints	Manager	Rakesh	+911242372077	1	23	Sec37	Fortuna colours prints
394	International trade organization 85	Manager	Raj kumar	9911640080	2	5	Udyog Vihar	Udyog Vihar phase 4 palot 85
395	Kunvar-overseas	Manager	Mustao	9311113169	2	5	Udyog vihar phase 3	Udyog vihar phase 3
396	Chanderkantashakdher 359	Manager	Papuyadav	7678491164	2	5	Udyog vhiar	Udyog vihar phase 2
397	Chanderkanta	Manager	Ashok Kumar	9868414412	2	5	Udyog vihar	Udyog vihar phase 2
398	Arjun ojha	Manager	Arjun ojha	8130475359	2	5	Sec 18 electronic city	ltp electronics pvt Ltd _27
399	Winter wear india 352	Manager	mohan Rawat	9873724513	2	5	Udyog vihar	Udyog vihar phase 2
400	Cellugen	Manager	Inderjeetyadav	9711713489	2	5	Udyog viharph ase -1	Udyog vihar phase -1 plot no. 62
401	Kohli enterprises	Manager	Vikash	9817548633	1	23	Sec 37	Src 37old khandsh
402	Master components	Manager	Manoj tiwari	9958445097	2	5	Udyog vihar phase -v	Shed no - 57D Udyog vihar phase _v
403	Manav Ahuja	Manager	Parveen kumar	9560828238	2	5	Udyog vihar	Udyog vihar phase 2
404	Nangia associates pvt 345	Manager	Parveen Kumar	9560828238	2	5	Udyog vihar	Udyog vihar phase 2
405	Texcorp private limited	Manager	Pankaj	9205884067	1	24	Moham madpur	Mohammadpur khandsa road
406	Nottoactive industries	Manager	Brigna Thakur	7428401765	1	23	Sce37	Sce37
407	Somany home appliances ltd.	Manager	Manoj	8295366224	2	19	Sector 32	Sector 32
408	Orion conmix	Manager	Pavnish	8744868999	2	5	Udyog viharph ase-1	Udyog vihar phase-1 plot no. - 101
409	Iffco Tower	Manager	Salan	8826877070	2	19	Sector 32	Sector 32
410	T&T	Manager	Mukesh	8168554998	4	26	Begamp urkhatola	Begampurkhatola
411	Alliance merchandising	Manager	Zafer hamet	9810483790	2	6	Udyog vihar	Udyog vihar
412	Tuli international	Manager	Na	NA	2	5	Udyog vihar	Udyog vihar phase 4 plot no 90
413	Manoj	Manager	Manoj	9667387875	2	5	Sector 18	Dunmag controls plt. 33 ectronic city

## District Environment Plan

414	Gp global energy 301	Manager	Gunjan	9416055599	2	5	Udyog vihar	Udyog vihar phase 2
415	SHIVAN & NARRESH	Manager	Kishor	9953069818	2	5	Udyog vihar phase - v	Udyog vihar D- 63 Phase - V
416	The shashi state cghs ltd	General Secretary	Subash singla	8588845924	2	19	Sector 31 housing board colony	Sector 31
417	Asmara apparels India	Manager	Kheemanand	NA	2	5	Udyog vihar	Udyog vihar phase 2
418	Safdurjangmotirs	Manager	Binod Kumar	NA	2	6	Udyog vihar	Udyog vihar
419	Information and design technocraft	Manager	Sksharma	9910209037	2	5	Udyog vihar phase 1	Udyog vihar phase-1 plot no - 150
420	Hewo 31	Manager	Krishan	+911244284527	2	19	Sector 31	Sector 31
421	Milagrow	Manager	Saravanans	9811330292	2	5	Udyog vihar 796 phase - v	Milagrow business & knowledge solution 796 Udyog vihar phase _ v
422	Ashish	Manager	Ashish	7011253746	2	5	Udyog vihar phase - 5	Manalieexpo rts 18 block-c Udyog vihar phase - 5
423	Quattro global services	Manager	Pawan panday	8920863135	2	5	Udyog vihar phase-1	Udyog vihar phase-1 plot no -160
424	Rashmikanta rout	Manager	Rashmikanta rout	9811121905	2	5	Udyog vihar phase-1	Udyog vihar phase-1 plot no 252
425	Rs lebal	Manager	Yusuf	9953797716	2	5	Udyog Vihar	Udyog Vihar phase 4 plot no 198
426	Goldflake auto parts Pvt Ltd	Manager	Narayan Tripathi	9811499593	2	5	Udyog vihar	Udyog vihar phase 4
427	Jyoti apparels	Manager	Jitender kumar	8851564449	2	5	Udyog Vihar phase 4	Udyog Vihar phase 4 plot no 124
428	Auth bridge research pvt ltd	Manager	Raghuvanshi	9911174386	2	5	Udyog Vihar	Udyog vihar phase 4 plot no 123
429	Dhr holding indiaptvt ltd	Manager	Nikesh	7678326154	2	5	Udyog vihar	Udyog vihar phase 4 plot no 121
430	Aashirwad Global	Manager	Harinder	9891993611	2	5	Udyog vihar phase 4	Plot No. 357, Phase 4, UdhogVihar
431	S.S. INTERNATIONAL	Manager	Manoj Joshi ji	9971616233	2	5	Udyog vihar	Udyog vihar phase 4
432	Tower vision	Manager	Manish Sharma	9650590479	2	5	Udyog vihar phase 4	Udyog vihar phase 4
433	Anu industry Pvt Ltd	Manager	Bhart	7290068803	2	5	Udyog vihar	Udyog vihar phase 4
434	Sumitsu Apparel Pvt Ltd	Manager	Anju	9312244671	2	5	Udyog vihar phase 4	324 udyogvihar phase 4 Gurgaon
435	Global tele radiology	Manager	Navdeep	9810101613	2	5	Udyog vihar phase 4	Udyog vihar phase 4 plot no 107
436	Princeton tower, royalton estate	State Manager	Mahesh shamra	9899446432	3	32	Dlfphase -5	Dlf phase -5 princeton tower, Royalton tower
437	Karigars	Manager	Gorakhnath	9899005283	2	5	Udyog vihar	Udyog vihar phase 4 plot no 130

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438	Oscarwearpvt ltd	Manager	D.ksingh	9990013021	2	5	Udyog vihar	Udyog vihar phase 4 plot 132
439	Pictursque ART Farming	Manager	Gyanendra	8510069790	2	5	Udyog vihar phase 4	Udyog vihar phase 4
440	Grand prints Pvt Ltd 134	Manager	Rohin	9818450927	2	5	Udyog vihar	Udyog vihar phase 4 plot no 134
441	Rita clothing Pvt Ltd	Manager	Shivam	8929112727	2	5	Udyog vihar phase 4	Udyog vihar phase 4
442	Sachin Garg 75c	Manager	Raghunath	7290033235	2	5	Udyog vihar	Udyog vihar sec 18
443	A&A Enterprises	Manager	Parveen kumar	9971655872	2	5	Udyog vihar phase 4	Udyog vihar phase 4
444	Corporate serve solution Pvt ltd	Manager	Amar shing	9891986917	2	5	Udyog vihar phase 4	NA
445	Mambrane group pvt ltd udyogvihar 217	Manager	Gurmeet	8527998884	2	5	05 udyogvi har	Udyog vihar ward 5
446	Orix auto infrastructure services	Manager	PL patkh	+911244956425	2	5	Udyog vihar	Udyog vihar sec 18
447	Spring over	Manager	Atul dev	9899844992	2	5	Udyog vihar	Udyog vihar
448	Yaskawa	Manager	Harsh	9599110795	2	5	Udyog vihar phase 4	Udyog vihar phase 4
449	Navarro	Manager	Preamchand	9873666985	2	5	Udyog	Udyog vihar sec 18
450	Vasistha pharmaceuticals	Manager	Joyadratha	9873288610	2	5	Udyog viharph ase-1	Udyog vihar phase-1 plot no.-173
451	Royal packs	Manager	Deepak	9654368626	2	5	Udyog viharph ase-1	Udyog vihar phase-1 plot no.-256
452	Anand brothers udyogvihar	Owner	Alkhanerizen	9650868598	2	5	Sec-22	Udyog vihar phase 2
453	Kiran associates 45	Manager	Rahul	9213911375	2	5	Udyog vihar	Udyog vihar sec 18
454	Confederation of India industry 249f	Manager	Vidyaram	9818459666	2	5	Udhoyg viharph ace 4, 249F C.I.I	249F phace5 udhyogvihar rgurugraam
455	Kalyani infotech	Manager	Jiten	8826941736	2	5	Udyog vihar	Udyog vihar sec 18
456	Mgrm	Manager	Digvijay	9999377211	2	5	Udyagvi har	Udyog vihar
457	PCI limited	Owner	NA	NA	2	5	Sec-22	Udyog vihar
458	Orga Earth	Manager	Bushki	8709935873	2	5	Udyog vihar	Udyog vihar sec 18
459	Pulse	Manager	Manoj Kumar	9899138604	2	5	Udyog vihar	Udyog vihar
460	Gsmbajaj	State Manager	Pawan Yadav	7838774480	4	28	Sohna road Islampur	Sohna road Islampur
461	VM tower 54A	Manager	Hansraj	9565215352	2	5	Udyog vihar	Udyog vihar sec 18
462	LSL tolls pvt. Ltd.	Owner	Arvind	+911244000608	2	5	Sec-22	Udyog vihar
463	Sh retail pvt ltd	Manager	Ramkumar	9871327619	2	5	Udyog viharph ase-1	Udyog vihar phase-1 plot no -85
464	NIPA PVT LTD	Manager	Irshad ahmad	9971199223	2	5	Udhoyg vihaar	Udyog vihar phase 4
465	Forme communication tecnology	Owner	Pawan	9910730800	2	5	Sec-22	Udyohvihar

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466	Tessile clothing Pvt Ltd company	Manager	Aziz	9650676823	2	5	Udhyog vihaar	Udhyogvihar 120 phase 4
467	Richa and company	Owner	Lokesh	+911244286281	2	5	Sec-22	Udyog vihar
468	Cosmic house	Manager	Vikrant	9811067234	2	5	Udyog vihar	Udyog vihar phase 4
469	Viney corporation	Owner	Rampal	7503897379	2	5	Udyog vihar	Udyog vihar sec 18
470	Akriti creations pvt ltd	Manager	Amit kumar	7838580703	2	5	Udyog viharph ase-3	Udyog vihar phase-3 plot no-410
471	Platinum tower	Manager	NA	NA	2	4	Udayog vihar phase 1	Plot no 184 platinum tower udayogvihar phase 1
472	Prestionenginerring company pvt. Ltd	Owner	Laxman	9871542750	2	5	Sec-22	Udyog vihar phase 3
473	S and R exports	Owner	Ranveer singh	+911244003625	2	5	Sec-22	Udyog vihar phase 2
474	Radnik	Manager	Om Parkash yadav	9540993439	2	4	Udayog vihar phase 1	Plot no 186
475	Adsplay international	Manager	Waqar	8826315674	2	5	Udyog vihar	Udyog vihar phase 4
476	DHL express pvt. Ltd	General Secretary	Ajit	9871726903	2	5	Sec-22	Udyog vihar phase 2
477	nippom express indiaptvt ltd.	Manager	Rajinder singh	9911304266	2	5	Udyog viharph ase-3	Udyog vihar phase-3 plot no. - 445
478	Baani international	General Secretary	Surender	+911244222264	2	5	Sec-22	Udyog vihar phase 2
479	Enrich agro food products Pvt.Ltd.	Manager	Ram Naresh	9650791213	2	4	Udayog vihar phase 2	Plot no 276-277
480	Chelsea mills llp	Manager	Vivek kaushik	9634205120	2	5	Udhyog vihaar	Udhoygvihar phase 4
481	Thomas cook	Manager	Ranjan	9991809075	2	5	Udyog viharph ase-3	Udyog vihar phase-3 plot no.-520
482	S.Pal enterprises	Manager	Aman kumaryadav	9911312694	2	5	Udhyog vihaar	Udhoygvihar phase 4 s.palinterpris es plot 378,379
483	Jay switches	Manager	Rakesh	8383013702	2	4	Udayog vihar phase 3	Plot no 407
484	Yespire	Manager	Roshan	9899952342	2	4	Udayog vihar phase 3	Plot no 486&487
485	Knitcraft apparels	Manager	Sunil	8595417309	2	4	Udayog vihar phase 3	Plot no 490&491 udayogvihar phase 3
486	Superior glass N design 303udyog vihar phase 4	Manager	Ashok Batra	9810860040	2	5	Udyog viharph as 4	Superior glass n design 303
487	S.A.N.international	Manager	Monuyadav	9717256093	2	5	Udyog vihar phase 4	Udyog vihar phase 4
488	Alok international 264	Manager	Anil kumar	9899463001	2	5	Udyog vihar	Udyog vihar phase 4
489	Support mart	Manager	Sanjeev	9716105205	2	5	Udyog vihar	Udyog vihar phase 1 plot no 30
490	Ms ken life stylepvt ltd	Manager	Rajiv	+911246710600	2	5	Udyog vihar	Udyog vihar
491	Sh impex pvt ltd	Manager	Nandlal	8920532910	2	5	Udyog vihar	Udyog vihar phase 1 plot no 20
492	Nextra	Manager	Shaayam	7535097814	2	5	Udyog vihar	Udyog vihar phase 1 plot no

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493	Six Sigma infrastructure providers 262	Manager	Achhelal	8295476473	2	5	Udyog vihar	Udyog vihar phase 4
494	Family health plan insurance thalmt 277	Manager	Sandeep	9599447568	2	5	Udyog vihar phase 4	Udyog vihar phase 4
495	Bhurjiplastek solution	Manager	Muktyaar	9717979890	2	5	Udyog vihar	Udyog vihar phase 1 plot no 34
496	Karigrs	Manager	Satynarayentiwar i	8130684896	2	5	Udyog Vihar	Udyog vihar phase 1 plot no 52
497	AWHO sispalvihar sec 49	State Manager	Karnal Vikram Singh	9205277241	4	26	Caption bhagat singhth akranro ad sec 49	AWHO sispalvihar sec 49
498	Dewan chand	Manager	Akram	NA	2	5	Udyog vihar	Udyog vihar
499	Internet exports	Manager	Avdesh	9818688083	2	5	Udyog vihar	Udyog vihar phase 1 plot no 202
500	Telitecspvt ltd	Manager	Ramkaran	9560325106	2	5	Udyog vihar	Udyog vihar phase 4 ward no d
501	Pankaj overseas 226	Manager	Sandeep	9999865002	2	5	Udyog vihar	Udyog vihar phase 4
502	Kholi enterprise	Owner	Nishant kholi	8447782110	1	24	Sector 37	Sector 37
503	Macromedia digital imaging pvt	Manager	Nigam	NA	2	5	Udyog vihar	Udyog vihar phase 4
504	Packfieldpvt ltd	Manager	Satish	7860145005	2	5	Udyog vihar	Udyog vihar phase 4
505	Haveusaerotechpvt	Manager	Dinesh	7827905061	2	5	Udyog vihar phase 4	Udyog vihar phase 4
506	Myndpvt ltd	NA	Rajesh	+911244646000	2	5	Udyog vihar	Udyog vihar phase 4
507	Shiv industrises	Manager	Parmanand singh	9818335812	1	24	Sector 37	Sector 37 plot no 957
508	Trim india	Manager	Asemsarkar	NA	1	23	Narsing hthur ser36	Sec 36narsighur
509	Bajaj motors ltd.	Manager	Himanshu goel	9810889363	4	27	39-40KM stone Delhi-jaipur highway Narsing hpur	39-40KM stone Delhi-jaipur highway Narsinghpur Gurugram
510	Kiwi interprises	Manager	Nikhil	9810179603	1	24	Sector 37	Sector 37 plot 734
511	Choraria industries Pvt Ltd	Manager	Rajesh	+911244275173	1	24	Sector 37	Sector 37 plot no 578
512	Adglobal360	Manager	Shiv	9205898196	2	5	Udyog viharph ase-5	Udyog vihar phase-5 plot no. -685
513	Platinum moterworks,gracetoyno	Manager	Sahil kataria	9899969495	1	24	Sector 37	Sector 37 plot no 131
514	Union bank of india	Manager	Uttemkumar	7010291235	2	5	Udyog vihar	Udyog vihar phase 4
515	Himanshu embroidery	Owner	Mahendrabansal	7988764920	1	24	Sector 37 pace city1	Sector 37 pace city1
516	Richa and company	Manager	Mr. Vikram	8826630073	2	5	Udyog viharph ase-3	Udyog vihar phase-3 plot no.- 479
517	Tuvrheinlandindiapvt ltd	Manager	Rambir	9711139869	2	5	Udhyog vihaar	Udhyogvihar phase 4 tuvrheinland pvt Ltd plot

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								no 417
518	Pasco automobile Silverstone tower sec 50	Manager	Mr Ajay Singh	9911446069	4	26	Sector 50 Near Dps school	Pasco automobile Silverstone tower sec 50
519	DR interprises	Manager	Deepak	9215780321	2	5	Udhoyg vihar	Phase 4 plat no 424
520	Sunrider	Manager	Kamalendu	+911244005068	2	5	Udyog viharph ase-3	Udyog vihar phase-3 plot no. 495
521	Taurus home furnishings LTD	Manager	Vikash chotani	9811474293	2	5	Udhoyg vihaar	Plot no 431,432 udhyogvihaar phase 4
522	Lamba packing works	Owner	Sonulamba	9810103311	2	5	Udhoyg vihaar	Plont no 433,434 phase 4 udhyogvihaar
523	SRV appearls	Manager	Ved Parkash shrma	9990129828	2	5	Udhoyg vihar	Plot no 409 phase 4 udhyogvihaar
524	Anv exports	Manager	Kanika	9999848719	2	5	Udyog viharph ase-3	Udyog vihar phase-3 plot no.-425
525	VNS accessories	Manager	Sanjay yadav	9711869927	2	5	Udhoyg vihar	Plono 442 A udhyogvihaar phase 4 Gurgaon
526	Asian handicrafts private ltd	Manager	Rajeev bahl	9818488113	2	5	Udyog viharph ase-2	Udyog vihar phase-2 plot no.-310
527	Haryana industries	Manager	Kundan	9818692334	2	5	Udyog viharph ase-2	Udyog vihar phase-2 plot no.-314
528	G.s cooperate greens	Manager	Angad bhatia	8368613261	2	5	Udyog vihar phase-1	Udyog vihar phase-1 plot no-112
529	Classic dials	Manager	Kishan dev	9911399472	2	5	Udyog viharph ase-2	Udyog vihar phase-2 plot no.-367
530	Times india	Manager	Amrinder	9891923132	2	5	Udyog viharph ase-3	Udyog vihar phase-3 plot no.-391
531	Suzuki motors	Manager	Arvind	9958143777	4	25	Darbari pur	Link road Badshahpur arbaripur
532	M3M cosmopolitian	State Manager	S K Gulia	9205988013	4	25	Sector 66	Sector 66
533	Punchline energy pvt ltd	Manager	Visvasraut	9821582318	2	5	Udyog vihar phase-2	Udyog vihar phase -2 plot no. 328
534	Sukuindia	Manager	Raghuvirshukla	7802068100	2	5	Udhoyg vihaar	Sukuindia plot no 82A udhyogvihaar rgurugraam
535	Communique marketing solution Pvt Ltd	Manager	Arun	8130393858	2	5	Udhoyg vihar	Plot no 83 phase 4 Gurgaon udhyogvihaar
536	Current print production	Manager	Dinesh	9650207804	2	5	Udyog viharph ase-4	Udyog vihar phase-4 , plot no.-76c
537	Femella fashion pvt ltd	Manager	Surender	NA	2	5	Udhoyg vihar	Plot no 312 phase 4 Gurgaon
538	Wapcos limited	Manager	Hitesh	9812977999	2	5	Sec 18	Plot no 76-C sec.18sarhol
539	The Nirvana country sector 50	Manager	Rakesh kunwer	9871707414	4	26	24 pargana road	The Nirvana country sector 50

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540	Siemens	Manager	Umesh	8800519817	2	5	Sec 18	Plot no 6-A sec.18 opposite Bikaner sweet Shop
541	Desiccant Rotors International Pvt Ltd (DRI)	Manager	Skmohanty	8826338955	2	5	Udyog vihar phase-4	Udyog vihar phase-4, plot no - 100-101
542	Molded dimensions rubber components	Manager	Dinesh singh	9810926270	2	5	Udhoyg vihar	Phase 4 plot no 186 udhyogvihar Gurgaon
543	West point export	Manager	Ashok malhotra	9810244944	2	5	Udhoyg vihar	Phase 4 plot no 185
544	Malrik seam	Manager	Udit tiwari	9711169025	2	5	Udyog vihar phase-4	Udyog vihar phase-4 plot no. 211
545	Aegis customer support pvt ltd	Manager	Manoj Kumar jha	9999536267	2	5	Udyog vihar phase-4	Udyog vihar phase-4 , plot no. -247
546	Intellect design	Manager	Gayadhar	9582970442	2	5	Udyog vihar phase-4	Plot no.249
547	Incedo	Manager	Charanjitsingh	9971109357	2	5	Udyog vihar phase-4	Udyog vihar phase-4 plot no.-248
548	Multi techno service	General Secretary	Ranjeet	7027456725	2	5	Sec-22	Udyog vihar
549	Bureau vertial consumer	General Secretary	NA	NA	2	5	Sec-22	Udyog vihar
550	Sri ganesheterprise	General Secretary	Ramkhilawan	9811183357	2	5	Sec-22	Udyog vihar
551	Vinayak jakards	Manager	Vinod thakur	9311172808	2	5	Sec-22	Udyog vihar
552	Baksonind	State Manager	Malay das	+911244745230	2	5	Sec -22	Udyog vihar
553	Sistema shyam teleservice ltd.	General Secretary	Gulsan	+911244812500	2	5	Sec-22	Udyog vihar
554	Pinakis creation	General Secretary	Pawan	NA	2	5	Sec-22	Udyog vihar
555	Clover global service ltd	General Secretary	Heriram	9540465374	2	5	Sec-22	Udyog vihar
556	Web date system parivate limited	General Secretary	Pankaj	8860060230	2	5	Sec-22	Udyog vihar
557	Grofers	General Secretary	NA	NA	2	5	Sec-22	Udyog vihar
558	Park view spa next condominium association	Manager	Neeraj Kumar	9899712411	4	25	Sec 67 main Gujjar road	Park view spa next condominium association sec-67 ggn
559	Ansal App essencia sector 67	State Manager	Lokesh Tehlan	7836888666	4	25	Golf course Extn Road sec 67	Ansal App essencia sector 67
560	ASF tower	Manager	NA	NA	2	5	Udyog vihar phase-4	Udyog vihar phase-4 plot no. 249D&E
561	Delhi impex	Manager	Sandeep	9899990241	2	5	Udyog vihar phase-4	Udyog vihar phase-4 plot no.-386
562	Ravels	Manager	Sunil	9810357001	2	5	Udyog vihar	Udyog vihar phase 5 plot no 688
563	Imu technologies	Manager	Suraj	NA	2	5	Udyog vihar	Udyog vihar phase5 plot no 750
564	Eon technologies	Manager	Raam dev	9354478712	2	5	Udyog vihar	Udyog vihar phase5 plot no 733
565	Instakart services pvt ltd	Manager	Nishant dixit	8851874948	2	5	Sarol	NA

## District Environment Plan

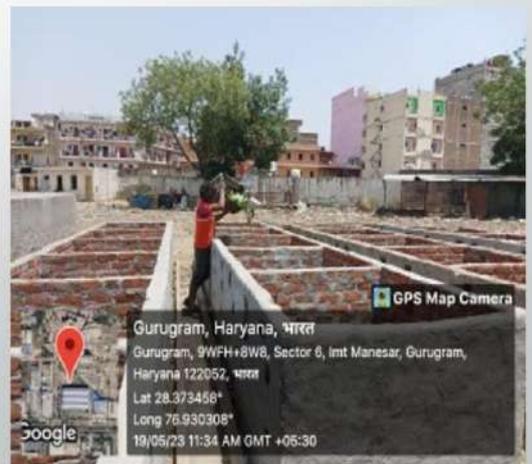
566	Bptp park prime sector 66	Manager	Narender Bhardwaj	8920998236	4	25	Kaderpur road Badsha hpur sec 66	Bptp park prime sector 66
567	Batra association	Manager	Bharat	9268255309	2	5	Udyog vihar phase 5	Udyog vihar phase 5 plot 83
568	Gypsum structural India Pvt Ltd	Manager	Brij Kumar	9540871607	2	5	Udyog vihar phase 5	Udyog vihar phase 5 plot 84 B
569	Donna apprealpvt ltd	Manager	Naagmani	+911244854860	2	5	Udyog vihar	Udyog vihar phase5 plot no 782
570	Avitech nutrition pvt ltd	Manager	Raju	+911244749062	2	5	Udhyog Vihar	GP-37, Udyog Vihar, Sector-18
571	Shiv exports	Manager	Pushpender	7500086868	2	5	Udyog vihar	Udyog vihar phase 5
572	Abexo exports	Manager	Phaguni bhagat	9711028679	2	5	Udyog vihar phase 5	Udyog vihar phase 5 plot 581
573	Pearl global industries Pvt Ltd	Manager	Bagwan das yadav	9182945834	2	5	Udyog vihar phase 5	Udyog vihar phase 5 plot 581
574	AVR	Manager	Uma Shanker Yadav	9643579694	2	5	Udyog vihar	Udyog vihar phase 5
575	Punjabi by nature 766	Manager	Ramdhani	9625093741	2	5	Udyog vihar	Udyog vihar phase 5
576	Bio sphere	Manager	Varun	8860399671	2	5	Udyog vihar phase-2	Udyog vihar phase-2 plot no.-313
577	Panache india international	Manager	Sumit	7428711008	2	5	Udyog vihar	Udyog vihar phase5 plot no 804
578	Himansu apparels Pvt Ltd	Manager	Sanjay	9599315988	2	5	Udyog vihar phase 5	Udyog vihar phase 5 plot 454-455
579	Paradise	NA	Rafik	9667148958	2	5	Udyog vihar phase 5	Udyog vihar phase 5 plot 67A
580	Usha fabs pvt ltd	Manager	Shankar	9891788062	2	5	Udyog vihar phase-3	Udyog vihar phase-3 plot no.- 484-485
581	Ireo uptown sector 66	State Manager	Mosam Kumar	9818986390	4	25	Golf course Extn Road	Ireo uptown, Sector 66
582	Shyam and co.northpvt ltd	Manager	N.kkashap	NA	2	5	Udyog vihar	Udyog vihar phase5 plot no 607
583	Travells boutique online	Manager	Harvinder	9999977352	2	5	Udyog vihar phase 5	Udyog vihar phase 5 plot 728
584	Taurus home furnishing limited	Manager	Vikash	9811474493	2	5	Udyog vihar phase-3	Udyog vihar phase-3 plot no. 418
585	Moderan hitch	Manager	Adishakumar	9818131813	2	5	Sec 18	Mordenhites h
586	Fashion club global	Manager	Surdher	9675315290	2	5	NA	Sec 18
587	Trident hotel	Manager	Garouv	7718070955	2	5	Udyog	Udyog vihar phase 5
588	Mhk exports	Manager	Parveen	9971306926	2	5	Udyog vihar phase-5	Udyog vihar phase-5 plot no.729
589	M3m tea point sector 65	State Manager	Bhupinder Singh	8826610484	4	25	Smarat Mihir Bhoj Road, sec 65	M3M Tee Point, Golf course Extn Road, Sec. 65 Gurgaon
590	Oberoi hotel	Manager	Gouravyadav	8646934200	2	5	Udyog vihar	Udyog vihar phase 5
591	Shiv kirti	Owner	Ajay soni	+911244234476	2	5	Udyog vihar	Udyog vihar phase 5
592	Sunray globaltxpvt	Manager	Raju	9310034915	2	5	Udyog	Udyog vihar

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	ltd						vihar	phase 5
593	Friends garments	Manager	Bramdatsharma	+91124400420 4	2	5	Udyog vihar	Udyog vihar phase 5
594	Space club	Manager	Satish kumar	9873551862	2	5	Udyog vihar phase-5	Udyog vihar phase-5 plot no. 530
595	Mawadia infotech	Manager	Sudhir jha	9717518426	2	5	Udyog vihar	Udyog vihar phase 5
596	Tenon facility management Pvt Ltd	Manager	Qulin jefre	NA	2	5	Udyog vihar	Udyog vihar phase 5
597	Though bubble cons	Manager	Amit kumar	+91124400959 2	2	5	Udyog vihar	Udyog vihar phase 5
598	Freight system	Manager	Manish	8417024992	2	5	Udyog vihar	Udyog vihar phase 5
599	Healthian labs	Manager	Neelam	8750051851	2	5	Udyog vihar	Udyog vihar phase 4
600	Denyoiindiapvt ltd	Manager	Rahul	9810174174	2	5	Udyog vihar	Udyog vihar phase5 plot no d45
601	Cosmic kitchen	Owner	Suresh Kumar	8448467340	2	5	Udyog vihar	Udyog vihar phase 1
602	Paras Trinity Sec 63	State Manager	Shrikant	9971296633	4	25	Golf course extention road, sec 63, Gurugram	Paras Trinity, sec 63, Gurugram
603	Rishi vastravyapar pvt ltd	Manager	Sandeep	9810488789	2	5	Udyog vihar	Udyog vihar phase5 plot no d55
604	Anton paarindiapvt ltd	Manager	Monika	9971014808	2	5	Udyog vihar	Udyog vihar phase5 plot no 582
605	A.G.Industries	Manager	Vikash Kumar	7065010840	2	5	Udyog vihar	Udyog vihar sec 18
606	Nyscuisineartpvt ltd	Manager	Ashok	9310091692	2	5	Udyog vihar	Udyog vihar phase5 plot no 23 b
607	Universal implex	Manager	Amit sharma	9891220072	2	5	Udyog vihar phase-5	Udyog vihar phase-5 plot no.-541
608	<a href="http://Jabong.com">Jabong.com</a>	Manager	Happy	8826445877	2	5	Sector 18	Sector 18 plot 82A
609	An buying services	Manager	Sarwan	9015769584	2	5	Udyog vihar phase-5	Udyog vihar phase-5 plot no. 590
610	Conscient Heritage one sec 62	President	Col Retd Maniramyadav	8826115050	4	25	Kadarpur road sec 62	Conscient Heritage one sec 62
611	Hughes communication pvt ltd	Manager	Ravin gulia	8373903669	2	5	Udyog vihar phase-5	Udyog vihar phase-5 plot no. 1
612	1point17sec18udyog vihar gurugram	Manager	Mahbersingh	8800188415	2	5	Sec 18udyog vihar	Sec 18 udyogvihar
613	Aucticoindia	Manager	Rajkumar	9468011499	3	5	Aucticoindia	Sec 18
614	BPTP Astaire Garden sector 70A	Manager	Kuldeep Sharma	9650073063	4	25	SPR road	Bptp Astaire Garden sector 70A

MRF Site Sector - 6

- Type - Manual MRF
- Capacity - 50 TPD
- Composting Pits - 38



# District Environment Plan

## MRF Site Sector - 8

- **Type - Semi-automatic MRF**
- **Capacity - 4-6 TPD**
- **Weighbridge/ Weighing Scale, Loader, Conveyor System, Baler, OWC**



## Processing Site Near Manesar Village

- **Capacity - 100 TPD**
- **Windro Composting**
- **Trommel 300 TPD, Gen Set**



## MRF Site Naurangpur

- **Type – Semi-automatic MRF**
- **Capacity – 50 TPD**
- **Composting Pits – 33**
- **Weighbridge/ Weighing Scale, Loader, Conveyor System, Baler, OWC, Mini Trommel**



# District Environment Plan

ANNEXURE-7

## District Environment Plan of Gurugram

### List of Dry Waste Pickers Integrated in Municipal Corporation, Gurugram

Sr.no	Name	Age	Gender	Type of warker	Location	Adhar ID/Voter ID/Other	Phone Number
1	Jahirul Islam	26	Male	Collector	Wazirabad	GCL 1437032	6000274907
2	Sobursk	30	Male	Collector	Wazirabad	7553 5673 1338	7428644053
3	Gajal Shaikh	45	Male	Collector	Wazirabad	6917 4433 8252	9069672793
4	Jiyarul Mondal	35	Male	Collector	Wazirabad	6787 5353 0840	9069672793
5	Ali Aktersk	51	Male	Collector	Wazirabad	799922845208	9093979545
6	AnarulMolla	42	Male	Collector	Wazirabad	4626 3661 8429	7718135519
7	Hachil Mondal	37	Male	Collector	Wazirabad	2539 6609 8744	9515211235
8	Sirajul Islam	22	Male	Collector	Wazirabad	9740 5832 9901	9971632744
9	Sukursk	32	Male	Collector	Wazirabad	6698 7691 2845	9091381490
10	Selim sk	25	Male	Collector	Wazirabad	THC1727726	9540929066
11	Mer Ali Shek	36	Male	Collector	Wazirabad	2150 7520 6596	9911149182
12	Hamida Bibi	37	Female	Collector	Wazirabad	7637 0602 3634	9891995236
13	Jakirsekh	31	Male	Collector	Wazirabad	3665 1699 6303	8586086504
14	Jayedali Shaikh	46	Male	Collector	Wazirabad	6559 0295 9081	7838838397
15	Malek Ali	27	Male	Collector	Wazirabad	GJP 1493476	9365919664
16	Rajkumar	36	Male	Collector	Wazirabad	2269 7676 0254	9871536316
17	Harmujali	34	Male	Collector	Wazirabad	4947 7592 9311	7896246326
18	Mallkntibai	42	Male	Collector	Wazirabad	8189 7638 7141	8860594675
19	Lutfar mandal	48	Male	Collector	Wazirabad	8530 1641 0037	8860594675
20	Surabaddinsk	36	Male	Collector	Wazirabad	5734 6096 5649	9818296497
21	Alimaddin mandal	65	Male	Collector	Wazirabad	7392 6015 4115	8348660255
22	Saleraddinsekh	58	Male	Collector	Wazirabad	5502 6651 7339	7407997242
23	Khokan Khan	61	Male	Collector	Wazirabad	6851 9046 9812	8001931593
24	SkShukurali	46	Male	Collector	Wazirabad	7635 2655 9795	9205911837
25	Samad Mollah	19	Male	Collector	Wazirabad	4123 6377 4315	7042122890
26	Riazul Islam	19	Male	Collector	Wazirabad	2888 5781 7824	7638870726
27	Nur Alom	32	Male	Collector	Wazirabad	9798 1720 7768	6901106438
28	LaltuSekh	36	Male	Collector	Wazirabad	9922 9202 5019	7289066129
29	NiyamatSekh	41	Male	Collector	Wazirabad	4359 3939 9727	9716922911
30	Jalil Mondal	53	Male	Collector	Wazirabad	4961 3190 9448	9990877693
31	Kajal Sekh	48	Male	Collector	Wazirabad	5423 2314 9186	7289062432
32	Saiful hoque	25	Male	Collector	Wazirabad	GML0495135	7703992265
33	Bahar Jan Khatun	35	Female	Collector	Wazirabad	GCL0212506	7703992265
34	Sahara Begum	32	Female	Collector	Wazirabad	3226 5046 4354	9654796956
35	Abdul hoque	19	Male	Collector	Wazirabad	BHFPH 4911N	9319928959
36	Asay Mondal	45	Male	Collector	Wazirabad	5815 9416 0680	9717300191
37	Yeanus Mondal	32	Male	Collector	Wazirabad	6618 1153 6347	9134236765
38	BasadulMolla	23	Male	Collector	Wazirabad	7746 4487 1240	8447991173
39	BaytollaMolla	31	Male	Collector	Wazirabad	3761 3659 5726	8447991173
40	Sekh Arman	49	Male	Collector	Wazirabad	6274 5640 2324	9002423681
41	Jamat Ali Sekh	48	Male	Collector	Wazirabad	4707 7252 7996	7289870722

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42	Sanowar Ali	37	Male	Collector	Wazirabad	9716 6038 1829	9911849590
43	Tokayel Shaikh	33	Male	Collector	Wazirabad	5961 9784 8070	9136345797
44	Amirul Sekh	28	Male	Collector	Wazirabad	8492 5217 1145	8882297631
45	MafejurRohman	19	Male	Collector	Wazirabad	4398 9186 6602	7042564819
46	HabibulMolla	29	Male	Collector	Wazirabad	8930 5771 0174	7042581430
47	Naskar S k	54	Male	Collector	Wazirabad	837663547298	9899690552
48	Asnara Khatun	25	Female	Collector	Wazirabad	8477 1913 0496	9620475397
49	Shahojoddin Khan	37	Male	Collector	Wazirabad	6466 1520 7500	7797906406
50	JibraillSekh	17	Male	Collector	Wazirabad	9111 8022 6565	9315443278
51	Sahin Mandal	19	Male	Collector	Wazirabad	5219 4178 6148	8368735481
52	SekhShuki	51	Male	Collector	Wazirabad	5509 9462 3971	7838816372
53	KesmatSk	25	Male	Collector	Wazirabad	597425217153	8328975523
54	AkkachSekh	38	Male	Collector	Wazirabad	7700 4215 8115	8328975523
55	GiyasuddinSekh	42	Male	Collector	Wazirabad	7940 5545 2904	7838816372
56	Abdul Hashem	24	Male	Collector	Wazirabad	5850 5467 5628	8860594675
57	Abdul Hannan	21	Male	Collector	Wazirabad	9742 7985 6495	9999432515
58	Manjula Begum	25	Female	Collector	Wazirabad	GJP0202861	7838626853
59	SekhChandmaham mad	56	Male	Sorter	Wazirabad	8191 8987 5476	6901994513
60	Raosnara Bibi	33	Female	Sorter	Wazirabad	2438 4433 0248	8486466020
61	Mojammelsk	36	Male	Collector	Wazirabad	8722 4745 0446	9091865434
62	Jinnat Ali Sekh	56	Male	Collector	Wazirabad	636143328056	9315964398
63	Muslim Sekh	23	Male	Collector	Wazirabad	786458986235	8101810283
64	TafajulSekh	19	Male	Collector	Wazirabad	944801831166	7318838500
65	AzzizulSk	53	Male	Collector	Wazirabad	628120363147	9564425306
66	PatuSekh	56	Female	Sorter	Wazirabad	958860271278	9002423681
67	SariyatSekh	22	Male	Sorter	Wazirabad	704063465595	9555619314
68	TapanHazra	28	Male	Collector	Wazirabad	772432313360	8588000375
69	AtikulSekh	59	Male	Collector	Wazirabad	909600948339	9654975158
70	NuralamSekh	35	Male	Collector	Wazirabad	281547740305	8001492279
71	Nilibibi	31	Female	Sorter	Wazirabad	442633360345	7679897836
72	Firoz sekh	29	Male	Collector	Wazirabad	583450612934	7679897836
73	JiyarulSk	34	Male	Collector	Wazirabad	340753699113	9318448771
74	GaniDafadar	49	Male	Sorter	Wazirabad	813123476736	8145423839
75	Patai dafadar	66	Male	Collector	Wazirabad	874312082915	8145423839
76	Sheikh Baitulla	55	Male	Sorter	Wazirabad	682119237303	7797677798
77	Ohidulislam	22	Male	Collector	Wazirabad	609685483302	9707526077
78	DebuNaskar	44	Male	contract or	Wazirabad	437437379107	9319930802
79	Anup Hazra	30	Male	collector	Wazirabad	719032363187	9717141255
80	Lalita Hazra	25	Male	Sorter	Wazirabad	472732719511	9717141255
81	HazraSapan	39	Male	Sorter	Wazirabad	223139518989	9871536331
82	Daya das	56	Female	Collector	Wazirabad	974129246709	8389947909
83	Hiru das	23	Male	Collector	Wazirabad	740602196585	
84	Biplab das	25	Male	Collector	Wazirabad	826794667953	9910436670
85	JillurRahamanSekh	37	Male	Sorter	Wazirabad	243920878726	9873665335
86	HekmatSk	45	Male	Collector	Wazirabad	426061283773	7430059243

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87	FajluRahaman	22	Male	Collector	Wazirabad	963736141426	9599325576
88	IbajulSekh	43	Male	Collector	Wazirabad	235395946235	8448060897
89	<b>AnarulSekh</b>	<b>71</b>	<b>Male</b>	<b>Sorter</b>	<b>Wazirabad</b>	<b>577985620614</b>	<b>8860513130</b>
90	Chhakina Bibi	66	Female	Sorter	Wazirabad	735571024847	8860513130
91	Tahar Ali Sk	52	Male	Collector	Wazirabad	651672890779	9711281783
92	AjirulSk	48	Male	Collector	Wazirabad	974065634656	8376963375
93	Murchhalim mir	31	Male	Collector	Wazirabad	916156851755	8927346512
94	Papay Das	23	Male	Collector	Wazirabad	960231860052	8768448979
95	Mondal Mojammel	53	Male	Sorter	Wazirabad	735634828151	6295485369
96	Abdul Sk	61	Male	Sorter	Wazirabad	891461907080	6295485369
97	Hemanta Das	54	Male	Sorter	Wazirabad	644740902631	9064877110
98	Lokhi Das	32	Female	Sorter	Wazirabad	742985227410	9064877110
99	Rahul Kumar	19	Male	Sorter	Wazirabad	710137296647	8375956142
100	jamirulsk	27	Male	Collector	Wazirabad	749196160762	9891680424
101	Sekh Sanu	51	Male	Collector	Wazirabad	938888773062	8586076498
102	Samad Ali Mondal	22	Male	Collector	Wazirabad	427520885735	9667741104
103	Subal Ojha	44	Male	Collector	Wazirabad	530625675097	9667244762
104	Shahid Mondal	26	Male	Collector	Wazirabad	CLTPM1628L	9945862497
105	SekhNasimuddin	55	Male	Collector	Wazirabad	688465781294	8373950877
106	Abalnossain	45	Male	Collector	Wazirabad	900160505718	9870531356
107	IsrailSekh	50	Male	Contract or	Wazirabad	719590533083	7042112695
108	Binod Biswas	60	Male	Contarct or	Wazirabad	GFY199832	9599130362
109	FayjulSk	35	Male	Contract or	Wazirabad	807721643716	8929650866
110	Biswas Asadul	52	Male	Contract or	Wazirabad	960624190376	9953038584
111	Surabuddin Ali	41	Male	Collector	Wazirabad	921123334629	8929026839
112	Sekh Sanu	50	Male	Collector	Wazirabad	938888773062	8586076498
113	SahaAlam	32	Male	Collector	Wazirabad	444399049147	7029031013
114	Altulla Sardar	40	Male	Collector	Wazirabad	GNN2210136	8583055706
115	Chand MahannadSk	36	Male	Collector	Wazirabad	288552322848	8447095966
116	SanowarMolla	28	Male	Collector	Wazirabad	489229981042	9620475397
117	MD Millan Sekh	28	Male	Collector	Wazirabad	906454584587	8582985556
118	Ziyadur Islam	24	Male	Collector	Wazirabad	918303891247	8134830902
119	Khoshed Shaikh	24	Male	Collector	Wazirabad	757107362587	9717686562
120	Samar Ali Mondal	22	Male	Collector	Wazirabad	427520885735	9667741104
121	SarikulSk	20	Male	Collector	Wazirabad	722093869193	8391957081
122	Kamal Sk	35	Male	Collector	Wazirabad	658682332012	9593980724
123	BakirulSk	17	Male	Collector	Wazirabad	964161821593	9711823621
124	Sunil Singh	30	Male	Collector	Wazirabad	444648742841	9992077911
125	HasibulSk	17	Male	Collector	Wazirabad	996176344777	6304338468
126	MartujaSekh	38	Male	Collector	Wazirabad	UJM0119131	9560629256
127	Abal Hossain	35	Male	Collector	Wazirabad	900160505718	9870531356
128	shahid Mondal	26	Male	Collector	Wazirabad	CLTPM1628L	9945862497
129	Eliyas Mandal	40	Male	Collector	Wazirabad	531786229155	8942984903
130	PalekhanSk	32	Male	Collector	Wazirabad	920017302457	9582389294

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131	Shabuddin	26	Male	Collector	Wazirabad	893492036594	7701804835
132	MojammelSk	28	Male	Collector	Wazirabad	616745520863	7827237833
133	Subal Ojha	43	Male	Collector	Wazirabad	530625675097	9667244762
134	Mallik Habibur	43	Male	Collector	Wazirabad	994353979245	9995170679
135	SekhNasimuddin	55	Male	Collector	Wazirabad	688465781294	8373950877
136	IiyasSk	23	Male	Collector	Wazirabad	262739974700	9311724392
137	SekhRayhan	43	Male	Collector	Wazirabad	361927011781	9773647062
138	AjirulSk	47	Male	Collector	Wazirabad	974065634656	8376963375
139	SekhSaltu	45	Male	Collector	Wazirabad	362453513977	8826936269
140	Rupchand Biswas	27	Male	Collector	Wazirabad	442434687066	7585980781
141	Majahar Ali	30	Male	Collector	Wazirabad	975555064453	9707878221
142	Uttam Mistry	32	Male	Collector	Wazirabad	UPW1295823	9650599319
143	Shyamal Das	22	Male	Collector	Wazirabad	802087912139	9650599319
144	AlaminSk	26	Male	Collector	Wazirabad	376748180016	7866973790
145	Ajad Mallik	33	Male	Collector	Wazirabad	457311198683	8506845344
146	Sanowar Ali	23	Male	Collector	Wazirabad	289672048614	6002241446
147	SarfalKhondekar	47	Male	Collector	Wazirabad	964131711961	9971311459
148	FariyajSekh	22	Male	Collector	Wazirabad	605891082422	9654517514
149	Heba Fakir	34	Male	Collector	Wazirabad	330333745459	8207224888
150	Arijulla Mandal	53	Male	Collector	Wazirabad	527010146336	8101881817
151	Jugol Das	43	Male	Collector	Wazirabad	633758446129	9560834385
152	Aynul Islam	20	Male	Collector	Wazirabad	656700863230	9101530457
153	JahiruddinSk	18	Male	Collector	Wazirabad	998870619802	7042040186
154	Shukhchand Biswas	31	Male	Collector	Wazirabad	605946197958	9953038584
155	Ekbal Hossain	32	Male	Collector	Wazirabad	891059850471	9958028950
156	InarulSk	33	Male	Collector	Wazirabad	334900670907	9667016650
157	MD SarifulSekh	33	Male	Collector	Wazirabad	501227357407	7838494133
158	BaychhaddinSekh	36	Male	Collector	Wazirabad	796969801968	7365907116
159	Amjad Mollah	40	Male	Collector	Wazirabad	690119794235	8586936357
160	KabilSekh	34	Male	Collector	Wazirabad	549447366121	9625088863
161	Babar Ali	21	Male	Collector	Wazirabad	505536997300	8448964588
162	Dilbar Khan	31	Male	Collector	Wazirabad	351770642030	7838030972
163	Rahis Uddin	26	Male	Collector	Wazirabad	991599417188	9643277153
164	Salim Sekh	25	Male	Collector	Wazirabad	686407458447	9560357993
165	Ajmat Khan	50	Male	Collector	Wazirabad	493374992482	8388077593
166	SkMannaj	50	Male	Collector	Wazirabad	WB11070396742	8860616430
167	Arjun Das	33	Male	Collector	Wazirabad	711190329224	8586376498
168	MarfatSekh	37	Male	Collector	Wazirabad	647816406163	9311065499
169	Abdul Alim Sekh	39	Male	Collector	Wazirabad	820794640630	8167530999
170	Resmina Bibi	45	Female	Sorter	Wazirabad	967614936123	7042112695
171	SkMunsad	53	Male	Collector	Wazirabad	403130468100	8343953180
172	Krishna Majumdar	23	Female	Sorter	Wazirabad	632209292569	9599130362
173	Das Sunil	67	Male	Collector	Wazirabad	647057042996	9958028950
174	Das Namita	55	Male	Collector	Wazirabad	724778225957	9958028956
175	Nasir Mondal	50	Male	Collector	Wazirabad	425187448975	No
176	HayadasSekh	33	Male	Collector	Wazirabad	310627512257	7827393158

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177	AnjuraSk	37	Female	Sorter	Wazirabad	355175333223	8860616430
178	Bishwjit	37	Male	Collector	Wazirabad	586548285736	8376098652
179	Noori	51	Female	Sorter	Wazirabad	914078828913	No
180	Bilkis Bibi	31	Female	Sorter	Wazirabad	762657846394	9870531356
181	Kurchia Bibi	28	Female	Sorter	Wazirabad	846270814245	9310176752
182	Kartik Biswas	31	Male	Sorter	Wazirabad	927996260661	9667436419
183	KurmanSk	27	Male	Collector	Wazirabad	305509602444	7289064826
184	SajjatSekh	31	Male	Collector	Wazirabad	479288853844	9641654794
185	Abdur Rahim	31	Male	Collector	Wazirabad	GCL1436266	6000482610
186	Anna Bibi	52	Female	Sorter	Wazirabad	487376946462	8929026839
187	Samsul Haque	45	Male	Collector	Wazirabad	583693398580	9350745173
188	MeherunNesa Khatun	27	Female	Sorter	Wazirabad	447443169053	8700045098
189	MD SarifulSk	26	Male	Collector	Wazirabad	RJG1438910	7982018916
190	Arshad Ali	31	Male	Sorter	Wazirabad	423717552010	8373956029
191	Afjal Hosen Shaikh	39	Male	Sorter	Wazirabad	HHK1956247	9871697348
192	MagibarRahaman	25	Male	Collector	Wazirabad	795746426720	7908290383
193	Pervanu Khatun	50	Female	Sorter	Wazirabad	871595354818	8826936269
194	Shah Alam	43	Male	Collector	Wazirabad	210458251820	6003000412
195	Ratikanta Das	36	Male	Collector	Wazirabad	238613813437	No
196	Asabuddinsek	23	Male	Collector	Wazirabad	5577733882787	9773647062
197	Dipankar Roy	29	Male	Collector	Wazirabad	451704801265	7291806586
198	LalchandSekh	23	Male	Collector	Wazirabad	965863761848	7701957386
199	TajibSeikh	31	Male	Collector	Wazirabad	289999997475	8250902951
200	Pradeep Mondal	44	Male	Collector	Wazirabad	319546555729	9899690552
201	KonikaMundal	39	Male	Collector	Wazirabad	680326396841	6294092800
202	Intaj Khan	39	Male	Collector	Wazirabad	Gmy2762003	704277461
203	SentuMolla	24	Male	Collector	Wazirabad	775480126965	9667228477
204	IntajulSekh	32	Male	Collector	Wazirabad	902163723484	9205741380
205	Jahangir Mondal	35	Male	Collector	Wazirabad	XMB1217777	7303869731
206	Ayes Rehman	38	Male	Collector	Wazirabad	237163313481	8447894443

### Annexure for Air Quality Management

#### Actions taken by Gurugram Metropolitan Development Authority for improvement of Air Quality and Monitoring in Gurugram City:-

A number of steps have been undertaken by Gurugram Metropolitan Development Authority(GMDA)for improvement of Air Quality and further monitoring of Air Quality in the city as mentioned under:

#### A. Development and maintenance of Greenery:

1. **Development and maintenance of greenbelts:** GMDA has formulated Standard Operating Guidelines for Development & Maintenance of Greenbelts in the city. Copy enclosed. The work is in progress and a target of plantation of one lakh trees and two lakhs shrubs have been fixed during the year 2021-22. The survival of plantation will be ensured by watering the plants with Treated Waste Water. An App has been developed for Geo-tagging of plantation on various sites for monitoring purposes. Another App has been developed for Census of Trees in Green belts. The total length of roads managed by GMDA is about 350 kms and the work of development/maintenance of green belts is in progress.
2. **Maintenance of Parks/Green spaces:** GMDA is maintaining major chunk of green spaces like Tau Devi Lal Botanical Garden, Sector-52 (40 acres); Maharana Pratap Swaran Jayanti Park (Leisure Valley Park) Sector-29 (35 acres); Tau Devi Lal Park Sector-22(30 acres), Silver Jubilee Park, Sector-31(10 acres). These parks are acting as urban lungs. Green spaces like Sikanderpur waterbody have been developed under CSR around 50 acres. Badshahpur Drain is also being developed as Green Corridor under CSR.
3. **Development of Nagar Van (Urban Forest):** GMDA is developing Urban Forest in Sikanderpur/Chakkarpur on an area of 250 acres under CSR for development of urban lungs and for biodiversity conservation.

#### B. Steps undertaken for Improvement of Air Quality:

1. **Installation of Air Purifiers:** GMDA has installed 71 Air Purifier units at eight locations in the city for improvement of air quality in the city under CSR at following locations:

S.No.	Location	No of Units
1	Sikanderpur Metro	12
2	Arya Samaj Chowk	6
3	IFFCO Chowk	11
4	Max Hospital Road	7
5	Bakhtawar Chowk	8
6	Medanta Hospital Road	8
7	AIT Chowk	8
8	Sec 54 Chowk Metro	6
9	GMDA office	1
	Total	71

# District Environment Plan

Table 16 Source: GMDA

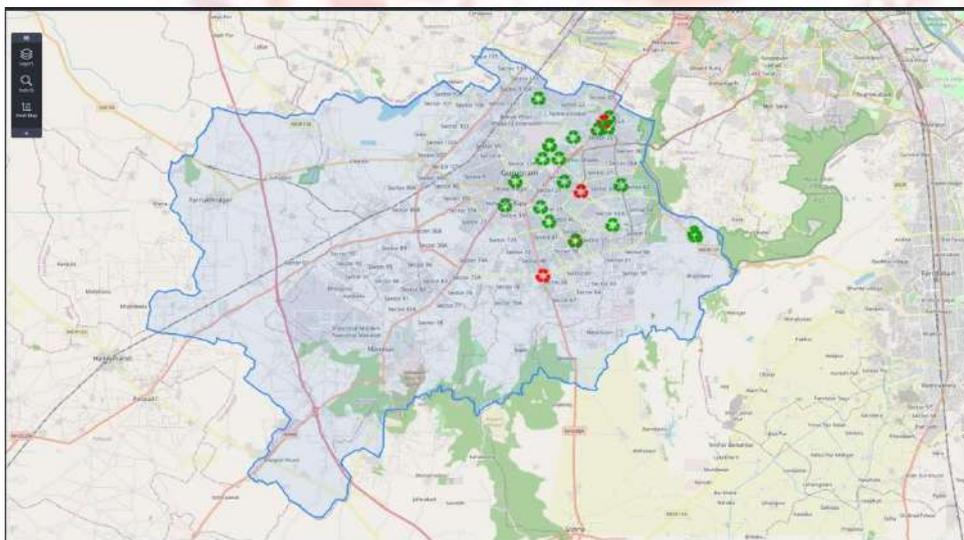


Picture 14 Source: GMDA

- C. **Installation of Low Cost Air Quality Sensors:** GMDA has installed Air Quality Monitoring sensors at 23 locations in the city for monitoring of Air Quality. The data is displayed on Dashboard of GMDA daily and compared with BAM site data.



Picture 15 Source: GMDA



Picture 16 Source: GMDA

# District Environment Plan

**D. Installation of Digital Display Screens at five locations under CSR:** GMDA has installed Digital Display Screens at 05 locations in the city for monitoring of AirQuality.



Picture 17 Source: GMDA

**E. Setting up of Dust Control & Management Cell by Road Construction Agencies:** GMDA has setup Dust Control & management Cell vide letter No. GMDA/Infra-I/2021/221 Dated 26.08.2021 for control of dust pollution while road construction.

Source group (for example)	Action	Implementation period (Short/mid/long-term)	Time target for implementation	Responsible agency (ies)	Any other information
Vehicles	Ban on registration of diesel vehicles of more than 10 years old & Petrol vehicles of more than 15 years old in the district of Gurugram and Impounding of diesel vehicles older than 10 years and petrol vehicles older than 15 years	Short term	<b>Traffic:-</b> Already implemented and continuously in the process.	(RTA & Traffic Police)	<b>RTA:-</b> Ban on registration already has been imposed on diesel vehicles of more than 10 years old & Petrol vehicles of more than 15 years old by this office campaign are launch on time to time against the diesel and petrol vehicles which has attaining the life of 10 years old diesel and 15 years old petrol vehicles in our respective jurisdiction as per direction issued by Govt. of Haryana vide Memo No. 12/325/2018/2T(1) dated 31.10.2018.
					<b>Traffic:-</b> Traffic Police should be provided a suitable space for parking such vehicles.
	Enforcement for stopping of running of Diesel autos more than 10 years old on the roads of Gurugram	Short term	<b>Traffic:-</b> Already implemented and continuously in the process.	(RTA & Traffic Police)	<b>RTA:-</b> During the time of checking which is conducted on daily basis the diesel auto attaining the life more than 10 years old in the jurisdiction are impounded by the enforcement staff. <b>Traffic:-</b> Traffic Police should be provided a suitable space for parking such vehicles.
	Introduction of cleaner fuels (CNG/LPG) for vehicles		<b>RTA:-</b> Already implemented and continuously in the process.	(RTA)	<b>RTA:-</b> Awareness regarding using of vehicles with cleaner fuels such as CNG /Electricity is being done by RTA, HSPCB and Distt Administration.
	Regular checking of vehicular emission and issue of Pollution under Control Certificate (PUC). Improve PUC testing system improving the testing frequency and compliance with reducing fake PUC certification. To Develop digital PUC checking procedure using	Short term	<b>RTA:-</b> Already implemented and continuously in the process.	(RTA)	<b>RTA:-</b> Regular checking of pollution check centre are conducted by this office further. Government of India has introduced online system for pollution check centre and in future the centre will run online norms implemented by Government of India.

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	Remote sensing technology for checking on road (running vehicle) emissions				
	Planning for control of overloaded vehicles running in Gurugram Distt	Short term	<b>RTA:-</b> Already implemented and continuously in the process.	(RTA)	<b>RTA:-</b> Regular Day/Night checking is conducting by the enforcement staff to control the overloaded caring by the vehicles in our jurisdiction.
	Repair and maintenance of unserviceable roads / cracks /Pit holes and unmetalled roads and Rationalize road space utilization by prioritizing road space for NMT (Walking/Cycling), Emergency vehicles/Buses and other public transportation means, and then very limited space for private vehicles respectively	Mid term	<b>GMDA:-</b> A regular/ continuous activity on GMDA Roads	(PWD B&R, NHAI, HSIIDC, MCG, GMDA, HSVP & HSRDC)	<b>PWD:-</b> There is no Road of PWD B&R within the Gurugram City Portion. However all the roads under the jurisdiction of this office in Gurugram Distt. are in good condition.
<b>HSVP:-</b> All the roads in Sec-29 Gurugram have been repaired and also footpath is provided along the roads. All other sectors of Gurugram under the jurisdiction of this office have been handed over to MCG. The estimate amounting to Rs 237.90 Lacs for 24 Mtr wide road & Rs 113.10 Lacs for 12.00 Mtr wide road has been prepared for repairing of roads in Sector 1 at Pataudi which are under process for approval.					
<b>MCG:-</b> Road maintenance is being taken up at Engineering Division Level in MCG area. All the Eight Divisional Officers are responsible for upkeep of road to maintain them pot hole free throughout the year.					
<b>NHAI:-</b> Repair and maintenance is being carried out by concessionaire at his own cost. NMTs, Bus Bays and other facilities are already provided.					
<b>HSRDC:-</b> There is no road under HSRDC in city portion Gurugram. However, all the roads under jurisdiction of DGM-I, HSRDC in Gurugram District are in good condition.					
<b>HSIIDC:-</b> Appx. 100000 sq. mtr. (25 Acre) land is available with HSIIDC as 50 mtr. Wide green belt along KMP Expressway falling in Transport Hub at IMT Manesar. The green belt can be used to “increase the green cover within the city to keep overall ambient temperature low to avoid dust formation” as per action plan for control of air pollution in non attainment cities under the head miscellaneous of action plan meeting dated 05.08.2019 held under the Chairmanship of ADC, Gurugram. The dense tree plantation including three years maintenance etc. will be done in the above area and tentative cost will be Rs. 25 lacs only.					
					<b>GMDA:-</b> Maintenance of roads is a regular activity of Infra-I Division. Plan and design of NMT is taken up by the Chief Town planner.
	Good traffic management including identification of congested points / re-direction of traffic movement to avoid congestion and creating Car free/Vehicle free	Short term	<b>Traffic:-</b> Already implemented and continuously in the process.	Traffic Police	<b>Traffic:-</b> Traffic Congestion is monitored 24x7 by Traffic Control Room & Traffic Alerts are issued.

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	zones near major market places and public spaces to start with and then replicating it to other areas in the city				
	Restriction on plying and phasing out of 15 years old commercial diesel vehicles and Promoting usage of biogas generated from sewage and bio-waste to be used as fuel for running public transport/buses	Short term	<b>Traffic:-</b> Already implemented and continuously in the process.	(RTA & Traffic Police)	<b>RTA:-</b> Ban on registration already has been imposed on diesel vehicles of more than 10 years old & Petrol vehicles of more than 15 years old by this office campaign are launch on time to time against the diesel and petrol vehicles which has attaining the life of 10 years old diesel and 15 years old petrol vehicles in our respective jurisdiction as per direction issued by Govt. of Haryana vide Memo No. 12/325/2018/2T(1) dated 31.10.2018.
	Promotion and operationalisation of E-rickshaw such as All delivery services in the city to be shifted to E-Vehicle's (Two Wheelers/NMT (Non-Motorized Transport)-Cycling, Installation of Electric Vehicle charging stations based on Renewable Energy generation at public, private building/spaces and societies across city etc.	Mid term	<b>Traffic:-</b> In this regard necessary advisory/directions are issued by the Traffic Police to common people.	(RTA, Traffic Police)	<b>RTA:-</b> The registration of e-ricksaw as passenger vehicle and e-cart as goods vehicle is being made in the office there are already authorized dealer in our jurisdiction for selling the electronic vehicle.
	Development of Multi-layer parking, metalizing the parking areas by laying out tiles in areas like sector-29 market, industrial areas, Mini Sectt., Civil Hospital, Bus Stand, Shopping Malls etc. Come-up with a comprehensive parking policy, frees public spaces, footpaths and cycle tracks etc. from illegal parking and making those spaces available to NMT.	Mid term	<b>GMDA:-</b> One year	(MCG, GMDA, HSVP)	<p><b>HSVP:-</b> Multilevel parking accommodate for 996 cars has been constructed in Sec-29, Gurugram. All other sectors of Gurugram under the jurisdiction of this office have been handed over to MCG on 30.04.16.</p> <p><b>MCG:-</b> The multilevel car parkings are being constructed in Kaman Sarai, (for 1079 Vehicles), Sadar Bazar (for 291 vehicles) &amp; Near Post office (for 300 Vehicles) including facilities of multiplex and retail outlets.</p> <p><b>GMDA:-</b> More space for NMT will be considered in GMDA roads and green belts.</p>
	Retrofitting of particulate filters in diesel driven vehicle and Install vapor recovery systems at fuel refilling stations	Mid term	<b>Traffic:-</b> This point is not related to Traffic Police.	(RTA, DFSC)	<b>RTA:-</b> This work is related to the Director, Food and Supply Controller.
	Proper system for fuel quality testing for controlling fuel adulteration	Short term	<b>Traffic:-</b> This point is not related to Traffic Police.	(RTA & DFSC)	<p><b>RTA:-</b> This work is related to the Director, Food and Supply Controller.</p> <p><b>DFSC:-</b> Surprise checking are done on monthly basis. Samples are drawn from petrol pumps and send to Laboratory for ascertaining as to whether any adulteration is being done.</p>
	Monitoring on vehicle	Short term	<b>Traffic:-</b> Already	(RTA & Traffic	<b>RTA:-</b> The passing is granting fitness

## District Environment Plan

	fitness		implemented and continuously in the process.	Police)	certificate to the vehicle is conducted 4 days in a week by RTA office.
	Periodic calibration test of vehicular emission monitoring instrument	Short term	<b>Traffic:-</b> This point is related to RTA	(RTA & Traffic Police)	<b>RTA:-</b> The vehicle emission monitor installed at pollution check centre are regularly monitored/checked by this office
	Ensure proper implementation of Bharat VI norms for fuel and vehicles running in the city	Mid term	<b>Traffic:-</b> Already implemented and continuously in the process.	(RTA & Traffic Police)	<b>RTA:-</b> Any instruction issued by the Government of India regarding implementation of Bharat VI will be followed by this office.
	Development of Gurgaon E mobility and net zero emission transport sector plan and its roll out	Mid term		(RTA & District Administration)	<b>RTA:-</b> The Registration of e-rickshaw for passengers and e-cart for goods vehicle is being made in this office on regular bases. Authorized Dealer in our jurisdiction for selling the electrical vehicles. <b>MCG:-</b> In compliance of the above directions, Municipal Corporation Gurugram is planning to phase out diesel operated three-wheelers and replace them with electric vehicles. In the first phase, 2000 diesel vehicles are being targeted to be phased out. An incentive scheme has been devised for the same wherein MCG shall be giving out subsidy of Rs. 30,000 for each diesel auto replaced by electric vehicle in addition to the subsidy given by Govt. of India under FAME Scheme. In furtherance of the these objectives and to give boost to electric mobility in the city, the operation of the E-Vehicles i.e. Rickshaws, Autos etc. is intensified through authorized concessionaire in certain areas / specified rules within the limits of MC, Gurugram starting from IFFCO Chowk to Sikanderpur Metro Station – Ambience Mall – Mousary Avenue – DLF City Club – Govt. Secondary School, Nathupur – Neelkanth Hospital – U Turn near Delhi Border – Guru Dronacharya Metro Station – Galleria Market and HUDA City Centre Metro Station.
	Every metro station/market areas/public spaces/RWAs & Societies etc. should be provided with Cycle hire/renting services with monthly and longer membership options at very cheap rate using apps etc.	Mid term		GMDA, MCG & Distt Administration	<b>MCG:-</b> IT is being dealt by GMDA. <b>GMDA:-</b> No intervention of GMDA in cycle hiring/renting etc.
	Provide last mile connectivity in form of metro electric feeder buses to all relatively large RWAs, Societies, villages, market places etc. from all metro stations.	Mid term		RTA	<b>RTA:-</b> Installation of GPS is mandatory in all passenger busses which are checked while issuing fitness certificate to vehicles.
	Provide easy access to information on public transport Bus/Metro arrival time and live tracking using GPS and mobile apps to increase ridership on public transportation	Mid term	<b>Traffic:-</b> This point is not related to Traffic Police.	(RTA & Traffic Police)	<b>RTA:-</b> GPS already installed in new buses of GMCBL Gurugram and Haryana Roadways buses.
	Consumption cap on polluting fuels both for	Mid term	<b>RTA:-</b> Already implemented and	RTA & Automobile & DG set	<b>RTA:-</b> While issuing fitness certificate to the vehicle it is insured.

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	cars or DG sets or any thing		continuously in the process.	manufacturing co.	
	Pollution tax on car purchase or adopt trees/ green spaces in order to purchase car: or just levy a heavy tax for parking as 95% of the time of a car's life it is parked only found an expert research study	Mid term	<b>Traffic:-</b> This point is not related to Traffic Police.	RTA & Traffic Police	<b>RTA:-</b> This point is not relate to this office.
	Increase public transport and incentivize the same for some routes and duration; rethink the metro according to road network plan; as many localities can't access the metro due to distance from home. either station is generally far from home or if close, in some cases it becomes far due to no entries & one ways: reduce the distance from home to public transport station based on UTTIPEC guidelines	Mid term	<b>Traffic:-</b> This point is not related to Traffic Police.	Transport department, Traffic Police	<b>RTA:-</b> The matter is related to GMDA, HSVP, MCG and Haryana Roadways.
	Incentivize walking & cycling; support the cause by enforcing & implementing policies - infra etc as 45% trips are done on foot and fall between 0-2 kms only.	Regular	2 Years	Distt Administration	Awareness progamme being conducted by Distt. Administration regarding walking & cycling.
	Implement NCR wide seamless bus system and paratransit system and remove tolls and tax barriers across borders for public transport within a year under reciprocal agreement	Long term	2 Years	RTA	<b>RTA:-</b> For seamless bus system in NCR reciprocal agreement is under process with Secy. Pollution Control Board, New Delhi.
<b>Road Dust</b>	Regular mechanized cleaning of roads of Gurugram to control dust emitting from the roads and road shoulders	Regular	<b>DDPO:-</b> Twice in Month	(MCG, DDPO, HSIIDC & HSVP)	<b>HSVP:-</b> The work for cleaning of roads is in progress. <b>MCG:-</b> 13 Nos. Mechanical Sweeping Machine have been deployed for regular cleaning of main roads with in MCG limit. This covers 550 km. of road length on daily basis and manual sweeping is being done on internal roads on regular basis.

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					<p><b>DDPO:-</b>Water spraying on Rural Approach Road by GPs and Plantation under Jal Shakti Abhiyan and sweeperappointed in rural areas doing work with accountability.</p> <p><b>HSIIDC:-</b>Appx. 100000 sq. mtr. (25 Acre) land is available with HSIIDC as 50 mtr. Wide green belt along KMP Expressway falling in Transport Hub at IMT Manesar. The green belt can be used to “increase the green cover within the city to keep overall ambient temperature low to avoid dust formation” as per action plan for control of air pollution in non attainment cities under the head miscellaneous of action plan meeting dated 05.08.2019 held under the Chairmanship of ADC, Gurugram. The dense tree plantation including three years maintenance etc. will be done in the above area and tentative cost will be Rs. 25 lacs only.</p>
	Control of emissions due to unserviceable roads / cracks /Pit holes and unmetalled roads	Short term	<p><b>DDPO:-</b> During Monsoon</p> <p><b>GMDA:-</b> A regular/ continuous activity on GMDA Roads</p>	(PWD B&R, DDPO, NHAI, HSIIDC, MCG, GMDA, & HSRDC)	<p><b>PWD:-</b> There is no Road of PWD B&amp;R within the Gurugram City Portion. However all the roads under the jurisdiction of this office in Gurugram Distt. are in good condition.</p> <p><b>MCG:-</b> Road maintenance is being taken up at Engineering Division Level in MCG area. All the Eight Divisional Officers are responsible for upkeep of road to maintain them pot hole free throughout the year.</p> <p><b>DDPO:-</b>Road Side Plantation done inRural Area underJalShaktiAbhiyanand repair the crack roads timely</p> <p><b>HSRDC:-</b>There is no road under HSRDC in city portion Gurugram. However, all the roads under jurisdiction of DGM-I, HSRDC in Gurugram District are metalled road.</p> <p><b>HSIIDC:-</b>Appx. 100000 sq. mtr. (25 Acre) land is available with HSIIDC as 50 mtr. Wide green belt along KMP Expressway falling in Transport Hub at IMT Manesar. The green belt can be used to “increase the green cover within the city to keep overall ambient temperature low to avoid dust formation” as per action plan for control of air pollution in non attainment cities under the head miscellaneous of action plan meeting dated 05.08.2019 held under the Chairmanship of ADC, Gurugram. The dense tree plantation including three years maintenance etc. will be done in the above area and tentative cost will be Rs. 25 lacs only.</p> <p><b>GMDA:-</b>Road repair carried out by Infra-I division regularly.</p>
	Water spraying on road through portable tankers on regular basis	Regular	<b>DDPO:-</b> Twice in Month	(DDPO, HSIIDC) MCG,	<b>MCG:-</b> Water spraying is being done on Road berms through water tankers and even on trees to control dust air pollution through spraying machines.

# District Environment Plan

					<p><b>DDPO:-</b>Water spraying on Rural Approach Road by GPs and Plantation under Jal Shakti Abhiyan and sweeperappointed in rural areas doing work with accountability</p> <p><b>HSIIDC:-</b> Appx. 100000 sq. mtr. (25 Acre) land is available with HSIIDC as 50 mtr. Wide green belt along KMP Expressway falling in Transport Hub at IMT Manesar. The green belt can be used to “increase the green cover within the city to keep overall ambient temperature low to avoid dust formation” as per action plan for control of air pollution in non attainment cities under the head miscellaneous of action plan meeting dated 05.08.2019 held under the Chairmanship of ADC, Gurugram. The dense tree plantation including three years maintenance etc. will be done in the above area and tentative cost will be Rs. 25 lacs only.</p>
	Construction of pucca pavement along the roads	Short term	<b>GMDA:-</b> A regular/continuous activity on GMDA Roads	(PWD B&R, MCG, GMDA, HSIIDC)	<p><b>PWD:-</b> There is no Road of PWD B&amp;R within the Gurugram City Portion. However all the roads under the jurisdiction of this office in Gurugram Distt. are in good condition.</p> <p><b>MCG:-</b> Standard cross section of roads have been fixed for Const. of roads from wall to wall.</p> <p><b>HSIIDC:-</b>Appx. 100000 sq. mtr. (25 Acre) land is available with HSIIDC as 50 mtr. Wide green belt along KMP Expressway falling in Transport Hub at IMT Manesar. The green belt can be used to “increase the green cover within the city to keep overall ambient temperature low to avoid dust formation” as per action plan for control of air pollution in non attainment cities under the head miscellaneous of action plan meeting dated 05.08.2019 held under the Chairmanship of ADC, Gurugram. The dense tree plantation including three years maintenance etc. will be done in the above area and tentative cost will be Rs. 25 lacs only.</p> <p><b>GMDA:-</b> Carried out by Infra-I division regularly.</p>
	Tree plantation along the roads	Mid Term	<p><b>GMDA:-</b>Three years</p> <p><b>DFO:-</b> Regular activity of the Forest Department</p>	(DFO, MCG, HSIIDC, GMDA)	<p><b>MCG:-</b> 80000 trees have already been planted at various locations in Gurugram. The target for tree plantation is at least two lakhs.</p> <p><b>HSIIDC:-</b> Appx. 100000 sq. mtr. (25 Acre) land is available with HSIIDC as 50 mtr. Wide green belt along KMP Expressway falling in Transport Hub at IMT Manesar. The green belt can be used to “increase the green cover within the city to keep overall ambient temperature low to avoid dust formation” as per action plan for control of air pollution in non attainment cities under the head miscellaneous of action plan meeting dated 05.08.2019 held under the Chairmanship of ADC, Gurugram. The dense tree plantation including three years maintenance etc. will be done in the above area and tentative cost will be Rs. 25 lacs only.</p>

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					<p><b>GMDA:-</b> Undertaken by GMDA on GMDA roads, consent given to MCG for greenbelt development on some GMDA roads.</p> <p><b>DFO:-</b>                  About 1.50 lakh saplings will be distributed under Paudhagiri to school children                  About 1.00 lakh saplings will be distributed to panchayats and general public under Jal Shakti Abhiyan                  About 2.00 lakh saplings will be distributed to RWAs in the city                  About 1.00 lakh saplings will be planted under different schemes of Forest Department i.e. Institutional lands, forest areas, panchayat lands. 550 saplings in each educational institute i.e. University, College, Polytechnic, ITI etc will be planted on the occasion of 550<sup>th</sup> Birth Anniversary of Guru Nanak Dev ji.                  City Forest has been announced at Sakatpur, Shikohpur, Gairatpur Bas, Naurangpur panchayat lands on an area of 1000 acres. About 50000 saplings will be planted in City Forest                  Protection of Aravallis will be ensured in compliance of different court orders which are important green lungs for the city. Tree felling is prohibited in the region.                  Companies will be encouraged to carry out plantation in Aravallis under Corporate Social responsibility</p>
	Development of green belt in open areas, gardens, parks/ community places, schools & housing societies	Short term	<p><b>DDPO:-</b> School, VyamShala, Panchayat</p> <p><b>GMDA:-</b> A regular/ continuous activity on GMDA Roads</p> <p><b>Traffic:-</b> This point is not related to Traffic Police.</p> <p><b>DFO:</b> Regular activity of the Forest Department</p>	(DFO, DDPO, MCG, HSIIDC & GMDA)	<p><b>MCG:-</b> Trees are being planted in open areas and road side greenbelts are also being maintained by various institutions under CSR.</p> <p><b>DDPO:-</b> Tree Plantation along the road side under Jal Shakti Abhiyan.</p> <p><b>HSIIDC:-</b> Appx. 100000 sq. mtr. (25 Acre) land is available with HSIIDC as 50 mtr. Wide green belt along KMP Expressway falling in Transport Hub at IMT Manesar. The green belt can be used to “increase the green cover within the city to keep overall ambient temperature low to avoid dust formation” as per action plan for control of air pollution in non attainment cities under the head miscellaneous of action plan meeting dated 05.08.2019 held under the Chairmanship of ADC, Gurugram. The dense tree plantation including three years maintenance etc. will be done in the above area and tentative cost will be Rs. 25 lacs only.</p> <p><b>GMDA:-</b> Greenery maintained/ increased in GMDA Parks.</p> <p><b>DFO:</b> Following activities will be carried out by Forest Department during 2019-20:                  About 1.50 lakh saplings will be distributed under Paudhagiri to school children                  About 1.00 lakh saplings will be distributed to panchayats and general public under Jal Shakti Abhiyan                  About 2.00 lakh saplings will be distributed to RWAs in the city                  About 1.00 lakh saplings will be planted under different schemes of Forest Department i.e. Institutional lands, forest areas, panchayat lands. 550 saplings in</p>

# District Environment Plan

					<p>each educational institute i.e. University, College, Polytechnic, ITI etc will be planted on the occasion of 550<sup>th</sup> Birth Anniversary of Guru Nanak Dev ji.</p> <p>City Forest has been announced at Sakatpur, Shikohpur, Gairatpur Bas, Naurangpur panchayat lands on an area of 1000 acres. About 50000 saplings will be planted in City Forest</p> <p>Protection of Aravallis will be ensured in compliance of different court orders which are important green lungs for the city. Tree felling is prohibited in the region.</p> <p>Companies will be encouraged to carry out plantation in Aravallis under Corporate Social Responsibility</p>
	<p>Providing of wind breaking walls, regular sprinkling by fixed sprinklers around the site, covering of vehicles carrying construction material/excavated sand, facility of cleaning of vehicles, proper operation of heavy earth movers etc. at the site (along the road sides or on the roads) where laying down work of Public Sewer, Gas Pipe line, Oil pipe lines, Telephone lines, Electric lines etc. is in progress</p>	Short term		<p>(PWD B&amp;R, NHAI, HSIIDC, MCG, GMDA, HSVP, HSRDC, PHED, Gas &amp; Oil Companies, DHBVNL &amp; Distt. Administration)</p>	<p><b>PWD:-</b> Same is being executed at site.</p> <p><b>MCG:-</b> Water sprinkling on const. material, covering of vehicles carrying const. material etc. are being taken care by MCG through Challaning of offenders/ violators. The detail of penalty imposed challan issued and revenue collected from violators under SWM Rules-2016, PWM Rules-2016 .</p> <p><b>DHBVN:-</b>While carrying out work of lying down of underground cable due care is being taken when execution is done with the help of earth movers to control pollution due to dust.</p> <p><b>PHED:-</b> Under the Jurisdiction of PHED Gurugram, there is no work in Gurugram town. However, the instruction has been issued to the contractors to provide wind breaking walls, regular sprinkling of fixed sprinklers around the site, covering of vehicles carrying construction material/excavated sand &amp; proper operation of heavy earth movers etc at the site.</p> <p><b>NHAI:-</b>Mentioned short term measures being taken by concessionaire/contractors for the project under consideration.</p> <p><b>HSRDC:-</b>There is no road under HSRDC in city portion Gurugram and instructions are being followed</p> <p><b>HSIIDC:-</b> Appx. 100000 sq. mtr. (25 Acre) land is available with HSIIDC as 50 mtr. Wide green belt along KMP Expressway falling in Transport Hub at IMT Manesar. The green belt can be used to "increase the green cover within the city to keep overall ambient temperature low to avoid dust formation" as per action plan for control of air pollution in non attainment cities under the head miscellaneous of action plan meeting dated 05.08.2019 held under the Chairmanship of ADC, Gurugram. The dense tree plantation including three years maintenance etc. will be done in the above area and tentative cost will be Rs. 25 lacs only.</p> <p><b>GMDA:-</b>No intervention of GMDA in cycle hiring/renting etc.</p>

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	Development and construction of new roads instead of Kaccha Rasta within the city as well as in the District.	Mid term	<b>DDPO:-</b> As required	(PWD B&R, MCG, GMDA, HSIIDC, HSRDC, DDPO, NHAI & HSVP)	<p><b>PWD:-</b> All the roads are being constructed metalled ones.</p> <p><b>HSVP:-</b> Not required</p> <p><b>MCG:-</b> Wall to wall pucca roads are being provided to avoid dust air pollution.</p> <p><b>DDPO:-</b>Estimates sent to Govt time to time in this regard.</p> <p><b>HSRDC:-</b> There is no road under HSRDC in city portion Gurugram. However, all the roads under jurisdiction of DGM-I, HSRDC in Gurugram District are metalled road.</p> <p><b>HSIIDC:-</b>Appx. 100000 sq. mtr. (25 Acre) land is available with HSIIDC as 50 mtr. Wide green belt along KMP Expressway falling in Transport Hub at IMT Manesar. The green belt can be used to “increase the green cover within the city to keep overall ambient temperature low to avoid dust formation” as per action plan for control of air pollution in non attainment cities under the head miscellaneous of action plan meeting dated 05.08.2019 held under the Chairmanship of ADC, Gurugram. The dense tree plantation including three years maintenance etc. will be done in the above area and tentative cost will be Rs. 25 lacs only.</p> <p><b>GMDA:-</b>No intervention of GMDA in case of local roads.</p>
	Maintaining lane driving with pothole free road design for smooth and consistent running of roads, Avoiding heavy vehicles into the city limits during day time and Implement vehicle/truck loading guidelines.	Short term	<b>Traffic:-</b> Already implemented and continuously in the process	Traffic Police, RTA.	<p><b>RTA:-</b> Relates to Traffic Police.</p> <p><b>Traffic:-</b>Gurugram has a well established No-Entry system and heavy challaning is done on a daily basis.</p>
<b>Biomass and garbage burning</b>	Restriction on open burning of municipal solid waste, Biomass, plastic, horticulture waste, garbage etc.	Short term	<b>DDPO:-</b> During Paddy Crop Harversting	DDPO, MCG, HSIIDC)	<p><b>MCG:-</b> There is a total ban on open burning of Solid Waste Biomass leaves garbage horticulture waste and plastic waste, zone wise special teams have been deputed to monitor, enforce &amp; challan the violators. In year 2020 total 51 challan amounting Rs. 255000/- was imposed of open burning.</p> <p><b>DDPO:-</b> Penalty imposed on accused farmers if any such case found in Rural Area.</p> <p><b>HSIIDC:-</b>Appx. 100000 sq. mtr. (25 Acre) land is available with HSIIDC as 50 mtr. Wide green belt along KMP Expressway falling in Transport Hub at IMT Manesar. The green belt can be used to “increase the green cover within the city to keep overall ambient temperature low to avoid dust formation” as per action plan for control of air pollution in non attainment cities under the head miscellaneous of action plan meeting dated 05.08.2019 held under the Chairmanship of ADC, Gurugram. The dense tree plantation including three years maintenance etc. will be done in the above area and tentative cost will be Rs. 25 lacs only.</p>

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	Immediate lifting of solid wastes generated from de-silting and cleaning of municipal drains for its disposal	Short term	<b>DDPO:-</b> Every Month	(DDPO, MCG, HSIIDC)	<p><b>MCG:-</b> Desilting of drains etc. is being taken up at Engineering Division Level in MCG area. All the Eight Divisional Officers are responsible for upkeep of drains. All the majors drain are de-silted before the rainy season every year.</p> <p><b>DDPO:-</b>De-silting of ponds and Drains through MGNREGA and Panchayat fund and FFC and Jal Shakti Program.</p> <p><b>HSIIDC:-</b>Appx. 100000 sq. mtr. (25 Acre) land is available with HSIIDC as 50 mtr. Wide green belt along KMP Expressway falling in Transport Hub at IMT Manesar. The green belt can be used to “increase the green cover within the city to keep overall ambient temperature low to avoid dust formation” as per action plan for control of air pollution in non attainment cities under the head miscellaneous of action plan meeting dated 05.08.2019 held under the Chairmanship of ADC, Gurugram. The dense tree plantation including three years maintenance etc. will be done in the above area and tentative cost will be Rs. 25 lacs only.</p>
	Transportation of municipal solid wastes, construction materials and debris in covered system	Short term		(MCG, HSIIDC & RTA)	<p><b>MCG:-</b> MCG has engaged M/s Eco-green for Lifting, Transportation &amp; Processing of Municipal Solid Waste generated in MCG area as per the concession agreement in covered vehicles, it is clearly mentioned that all the municipal solid waste should be transported in covered system; otherwise heavy penalties will be imposed on the agency. All the secondary vehicles transports the waste in covered vehicles or otherwise covered with tarpoline.</p> <p><b>HSIIDC:-</b>Appx. 100000 sq. mtr. (25 Acre) land is available with HSIIDC as 50 mtr. Wide green belt along KMP Expressway falling in Transport Hub at IMT Manesar. The green belt can be used to “increase the green cover within the city to keep overall ambient temperature low to avoid dust formation” as per action plan for control of air pollution in non attainment cities under the head miscellaneous of action plan meeting dated 05.08.2019 held under the Chairmanship of ADC, Gurugram. The dense tree plantation including three years maintenance etc. will be done in the above area and tentative cost will be Rs. 25 lacs only</p> <p><b>RTA:-</b> During the checking of any vehicle found construction material and not fully covered with tarpaulin has been challaned under the provision of Motor Vehicle Act.</p>
	Ensuring promotion & use of cleaner fuel for commercial purposes like local Dhaba/ eateries	Mid term		(Oil companies, Distt. Administration & DFSC)	<p><b>DFSC:-</b> This is a Continuous process. No financial assistance required.</p>
	Identification of hotspots where municipal solid waste, Biomass, plastic,	Short term	<b>DDPO:-</b> Monitoring Weekly Basis	(DDPO, MCG, HSIIDC)	<p><b>MCG:-</b> MCG is working towards the goal to close all open khattas and garbage venerable points. In this regard many GVPs have been converted to parks. For</p>

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	<p>horticulture waste, garbage etc has been dumped and chances of burning are more and Ensure horticulture waste is collected or composted at the decentralized level with other wet waste from institutions, hotels and apartments</p>				<p>exampleback of MCG old office. MCG is encouraging bulk waste generators to establish their own in house composting plants for processing of municipal solid waste, as per the provisions of solid waste management Rules-2016. Out of 36 Open secondary collection points (Khata) 16 secondary collection have been eliminated. Copy of eliminated secondary point (Khatta) and GVP are attached as <b>Annexure-VI</b>.</p> <p><b>DDPO:-</b>Gram Panchayat regularly monitoring such activities and set up SLW project.</p> <p><b>HSIIDC:-</b> Appx. 100000 sq. mtr. (25 Acre) land is available with HSIIDC as 50 mtr. Wide green belt along KMP Expressway falling in Transport Hub at IMT Manesar. The green belt can be used to “increase the green cover within the city to keep overall ambient temperature low to avoid dust formation” as per action plan for control of air pollution in non attainment cities under the head miscellaneous of action plan meeting dated 05.08.2019 held under the Chairmanship of ADC, Gurugram. The dense tree plantation including three years maintenance etc. will be done in the above area and tentative cost will be Rs. 25 lacs only.</p>
<p>Identification and control of stubble burning in the Fields</p>	<p>Short term</p>	<p><b>DFO:-</b> 01-09-2019 to 31.10.2019. 01.02.2020 to 30.04.2020</p> <p><b>DDPO:-</b> During Crop Harvesting</p> <p><b>HSPCB:-</b> Being complied regularly</p> <p><b>Traffic:-</b> This point is not related to Traffic Police.</p>	<p>(DDPO, DDA, DFO &amp; HSPCB)</p>		<p><b>DDPO:-</b> Penalty imposed on alleged farmers if any such case found in Rural Area</p>
<p>Implement Solid Waste Management Rules, 2016 aggressively in the region and decentralize waste management at the level of generation, i.e., institutions, hotel and apartments etc.</p>	<p>Short term</p>	<p><b>DDPO:-</b> Twice in a Week</p> <p><b>Traffic:-</b> This point is not related to Traffic Police.</p>	<p>MCG, GMDA, DDPO</p>		<p><b>MCG:-</b> MCG is dealing with the Municipal Solid Waste, as per the directions of Municipal Solid Waste Management Rules-2016 and encouraging bulk waste generators to establish their own in house composting plants for processing of biodegradable component of municipal solid waste, as per the provisions of solid waste management rule-2016. 26 agencies has also been empanelled by MCG to assist BWGs. At present 185 BWG’s are doing on-site composting out of 696 identified BWGs, efforts are being made to encourage and implement wet waste on site composing in all remaining BWG’s.</p> <p><b>DDPO:-</b> SLW Project are set up in Rural AreastomanagethesolidLiquid Waste under SBMScheme.</p>

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					<b>GMDA:-</b> No intervention of GMDA.
	Encourage 5 R policy Refuse: refuses the unnecessary waste i.e., packaging Reduce- reduce the consumption of materials which are packaged and try to use materials locally produced and sold Reuse- reuse the materials as many times as possible for original use of alternate use Recycle- Recycle the material as raw material for up cycling or for replacing the need of virgin raw material to produce some materials, i.e., metals etc. Rot- Compost the organic material for compost and biogas generation at decentralized level.	Short term	<b>DDPO:-</b> During Gram Sabha  <b>GMDA:-</b> One year	MCG, GMDA, DDPO,	<b>MCG:-</b> IEC activities are being organized by MCG in letter and spirit in all the schools markets and with bulk waste generators by encouraging through the defined policies.  Reuse-MCG has signed an MOU with M/s KK Plastic to utilize the waste plastic and process it to be utilized in bituminous roads being constructed by MCG.  Recycle- MCG has signed an agreement with M/s Deshwal Waste Management to collect e-waste and recycle it. Similarly MCG has identified waste recyclers to recycle pet bottles and tetra-packs. Total capacity of these recyclers is 20 tonne per day.  <b>DDPO:-</b> Gram Panchayats are encouraging Villagers about 5 R policy (Refuse, Reduce, Reuse, Repurpose, Recycle) <b>GMDA:-</b> Composting units for dry leaves being set-up in every GMDA Park.
	Promote & incentivize composting; both dry leaves and bio-degradable waste plus segregation & management enforcement  Integrate waste segregation at a household and community level as a way of life, discuss methods of segregation at community gatherings, RWAs to conduct segregation trainings by getting experts to advise them.  RWAs to report open dumping sites, uncovered garbage lying or burning in the vicinity, and collectively voice until appropriate action is taken	Short term	<b>DDPO:-</b> During Weekly Basis	MCG, GMDA, DDPO	<b>MCG:-</b> As per Solid Waste Management Rules, 2016 RWAs are also included in the BWG. MCG is also encouraging them to do composting and source segregation. To encourage community composting MCG has declared 4 wards as model wards and are in process of developing decentralized model in these wards, with composting and ward level and MRF etc.  <b>DDPO:-</b> Bio Degradable Waste is using in farming by Villagers. Solid Garbage is

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	<p>immediately. Regular awareness sessions with RWAs to become watchdogs for such practices, and the ill effects of burning garbage on human health will sensitise communities</p> <p>RWAs to prepare and practice alternative heating methods for security staff etc during winters to discourage dry leaf burning as a means of attaining warmth</p> <p>Practice community level composting methods specially designed for dry leaves to be carried out specifically during the fall season. Involve leaf burners in the practice to build awareness and sense of belonging leading to behavioral change.</p>				<p>segregated by Villagers . Villager are discourage about to leaf burning and motivate for dumping garbage at appropriate Place as decided by Gram Panchayats.</p> <p><b>GMDA:-</b> Composting units for dry leaves being set-up in every GMDA Park.</p>
<b>Industries</b>	Ensuring proper installation and operation of air pollution control devices in all the industries –	Implemented	<b>HSPCB:-</b> Complied and being monitored Regularly	HSPCB	
	Ensuring usage of legal fuels in the industries	Implemented	<b>HSPCB:-</b> Complied and being monitored Regularly	HSPCB	
	Ensuring emission standards (already laid down by the HSPCB) in industries and taking action against the violators as per the law	Implemented	<b>HSPCB:-</b> Complied and being monitored Regularly	HSPCB	
	Adoption of cleaner technology instead of old conventional technology in brick kilns and restriction of usage of illegal fuel for burning in the Brick Kilns	Implemented	<b>HSPCB:-</b> Complied and being monitored Regularly	DFSC & HSPCB.	<p><b>DFSC:-</b> Coal and tudi. This is a Continuous process. No financial assistance required.</p> <p><b>HSPCB:-</b> Already all the brick kilns have been converted into improved zig zag technology from old FCBTk</p>
	Installation of online monitoring devices by 17 /Red Category L&M units and ensuring connection of the same with the official website of CPCB and HSPCB	Implemented	<b>HSPCB:-</b> Complied and being monitored Regularly	HSPCB	
	Complete ban on CTE to new tyre pyrolysis plants throughout the State	Implemented	<b>HSPCB:-</b> Already complied and banned by HSPCB.	HSPCB	
	Use of retrofitted emissions control	Mid term	<b>HSPCB:-</b> 3 Years (Phase wise	CPCB & HSPCB	

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	Equipment in the DG sets installed by societies, colonies, industries, commercial buildings, shopping malls etc. with a minimum specified PM capturing efficiency of atleast 70%, type approved by one of the five CPCB recognized labs		based upon capacities of DG sets)		
	Shifting to gas based generator by employing new gas based generator or retrofitting the existing DG sets for partial gas usage	Mid term	<b>HSPCB:-</b> 3 Years (Phase wise based upon capacities of DG sets)	CPCB & HSPCB	
	Adoption of greener raw resources & cleaner ways to generate power. Promote, incentivize and certify good practices to use renewable sources for power generation. Adopt renewable sources of power like solar energy.	Mid term		DHBVNL	<b>DHBVN:-</b> The work of incentivized to use renewable sources of power generation lies is preview of HAREDA. However, DHBVN provides net metering for solar generation on request of consumers under the prevailing policy (Instruction no. – Sales circular no. D-23/2019.
<b>Public Awareness Programmes</b>	Awareness for school children on harmful effects of pollution and conducting rallies of School children through Eco clubs	Regular activity	<b>DEO:-</b> Every year month of November  <b>HSPCB:-</b> Being Complied Regularly	(DEO, CMO & HSPCB).	<b>CMO:-</b> All Medical Officers and Health workers with RBSK teams will sensitize the schools children about the harm full effect of pollution
	Awareness in leading news papers during peak harvest season on ban on stubble /garbage burning	Regular activity	<b>DDA:-</b> Kharif 01.09.2019 to 30.10.2019 Rabi 01.12.2019 to 30.04.2020  <b>HSPCB:-</b> Being Complied Regularly	(Distt. Administration, DDA & HSPCB).	
	Awareness for general public and school children regarding harmful effects of open burning of municipal solid waste, Biomass, plastic, horticulture waste, garbage etc through special drives, news papers, Radio channels, News channels, Social Media, Nukkad Natak, Rallies etc	Regular activity	<b>DEO:-</b> Completion every Saturday.  <b>HSPCB:-</b> Being Complied Regularly	(DEO & HSPCB).	<b>DEO:-</b> Awareness morning assembly to student and awareness of parents and community through mega PTM and SMC meeting every month, motivation of sweeper in school no to burn garbage and plastic and use three dustbin for segregation of garbage

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	<p>Awareness for general public on harmful effects of Air pollution from various sources through install hoardings on prominent places of Gurugram Town like Govt. &amp; Private schools, Shopping Malls, Gates of Big societies, Bus stand, Railway Station, Metro Stations, Civil Hospital, Mini Secretariat, MCG office, Village Bus Stands &amp; congested chowks (Rajiv Chowk, Vatika Chowk etc.</p>	<p>Regular activity</p>	<p><b>DDPO:-</b> Twice in Month</p>	<p>(DEO, CMO, MCG, DDPO &amp; HSPCB).</p>	<p><b>MCG:-</b> IEC activities are being carried out by MCG. through NukkadNataks, Hoardings, Banners and pledges of awareness to the children in School.</p>
			<p><b>HSPCB:-</b>Being Complied Regularly</p>		<p><b>DDPO:-</b>Awareness camp organized by Gram Panchayats about the harmful effects of Air Pollution through Nookad Sabha, Prabhat Pheri, Gram Sabha.</p>
					<p><b>DEO:-</b>Air pollution from various sources through install boardings on Govt. &amp; Private schools by Pollution Department.</p>
	<p>Awareness for General Public and School Children on Tree plantation through special drives on occasions like World Environment Day, Earth Day and other festivals etc -</p>	<p>Regular activity</p>	<p><b>DEO:-</b>Completion every Saturday.</p>	<p>(DEO, &amp; HSPCB).</p>	<p><b>DEO:-</b>Awareness morning assembly to student and awareness of parents and community through mega PTM and SMC meeting every month, motivation special drives on occasions like world environment day earth day and other festivals etc.</p>
			<p><b>HSPCB:-</b>Being Complied Regularly</p>		
	<p>Awareness for General Public and School Children on Tree plantation in the houses and development of Green belts on the periphery of their houses /Schools/Road side/Periphery of play grounds etc. through special drives, news papers, Radio channels, News channels, Social Media, Nukkad Natak, Rallies etc</p>	<p>Regular activity</p>	<p><b>DEO:-</b>Completion every Saturday</p>	<p>(DEO, DFO &amp; HSPCB).</p>	<p><b>DEO:-</b>Awareness morning assembly to student and awareness of parents and community through mega PTM and SMC meeting every month, motivation special drives on occasions like world environment day earth day and other festivals etc.</p>
			<p><b>HSPCB:-</b>Being Complied Regularly</p>		<p><b>DFO:</b> About 1.50 lakh saplings will be distributed to school children under Paudhagiri Scheme in collobration of Education Department. Regular awareness programmees are organized by Forest Department, Haryana Forest Development Corporation and Pollution Control Board for school children in nature camp located at Bhondsi, Gurugram</p>
	<p>Awareness for General Public, industries and School Children for use of no cost and cleaner technology such as using electric vehicles instead of Diesel vehicles, using CNG Auto rickshaws/Vehicles instead of Diesel autos / vehicles and using PNG in households/industries etc</p>	<p>Regular activity</p>	<p><b>DEO:-</b>Completion every Saturday</p>	<p>(DEO, RTA, Police Deptt., &amp; HSPCB).</p>	<p><b>DEO:-</b>Awareness morning assembly to student and awareness of parents and community through mega PTM and SMC meeting every month, motivation use of no cost and cleaner technology such as using electric vehicles instead of Diesel vehicles, using CNG auto Rickshaw /Vehicles instead of Diesel autos/vehicles and using PNG in households / industries etc.</p> <p>RTA:- The Registration of e-rickshaw for passengers and e-cart for goods vehicle is being made in this office on regular bases. Authorized Dealer in our jurisdiction for selling the electrical vehicles.</p>
			<p><b>HSPCB:-</b>Being Complied Regularly</p>		
			<p><b>Traffic:-</b> This Point is not related to Traffic Police</p>		

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	Awareness for General Public and School Children on using public transport / sharing transport / bicycles / vehicles using clean fuel such as CNG, Electricity etc. through special drives, news papers, Radio channels, News channels, Social Media, Nukkad Natak, Rallies etc	Regular activity	<b>DEO:-</b> Completion every Saturday.  <b>HSPCB:-</b> Being Complied Regularly	(DEO, CMO & HSPCB)  <b>HSPCB:-</b> Being Complied Regularly	<b>CMO:-</b> Through newspapers, Radio, Nukkadnatak.  <b>DEO:-</b> Awareness morning assembly to student and awareness of parents and community through mega PTM and SMC meeting every month, motivation Children on using public transport /sharing transport / bicycles/vehicles, using clean fuel such as CNG, Electricity etc. through special drives, news papers, radio channels, News channels, Social medical, Nukkad Natak, Rallies, etc.
	Issuing health advisory to public, hospitals and schools	Regular activity		CMO	<b>CMO:-</b> Will be circulated through News paper for the public and for hospitals and schools via e-mail
	Access to distribute N 95 (PM2.5) masks for sensitive groups and people who will be impacted by occupation. i.e., traffic police, bus conductors and drivers, Safai workers, etc.	Regular activity		CMO	<b>CMO:-</b> All workers engaged in outdoor activities will be provided
	Enhance parking fee for vehicles by 3-4 times to encourage public transportation and Reduce fares of public transportation to enhance public transportation during pollution episodes.	Regular activity	<b>GMDA:-</b> One year	MCG, GMDA	<b>MCG:-</b> MCG is planning for the same in the upcoming new projects of parking.  <b>GMDA:-</b> GMDA will consider it for Leisure Valley parking site
	Local committees and RWAs utilize social media, whatsapp to discuss similar routes for daily travel using carpool and ensure safety at the same time Walking and Cycling is the best	Regular activity	<b>DEO:-</b> Completion every Saturday.	DEO & Distt Administration	<b>DEO:-</b> Awareness morning assembly to student and awareness of parents and community through mega PTM and SMC meeting every month, motivation social medical and whatsapp to discuss similar route for daily travel using carpool and ensure safety at the same time walking and cycling is the best.
<b>Strengthening of AAQ monitoring</b>	Installation of sufficient no. of CAAQMS in Gurugram Distt. to Monitor the ambient air quality of Gurugram Distt. and connecting them with the server of CPCB & HSPCB	Long term	<b>HSPCB:-</b> 2 Years	(HSPCB).	<b>GMDA:-</b> HSPCB should share its own plans with GMDA and other entities for better coordination and planning. <b>HSPCB:-</b> Installation of 02 No. Additional CAAQMS is under progress and same will be completed within 01 years.
	Installation of CAAQMS in prominent/critical places of Gurugram Distt. such as Rajiv Chowk, Vatika chowk, Shankar chowk, Atlas	Long term	<b>HSPCB:-</b> 2 Years	HSPCB	<b>GMDA:-</b> HSPCB should share its own plans with GMDA and other entities for better coordination and planning.

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	chowk, Bus Stand, Sadar Bazar etc. to Monitor the ambient air quality of Gurugam Distt. and connecting them with the server of CPCB & HSPCB				
	Setup more number of real time air quality monitoring stations across the district both in urban as well as rural areas (At-least 4 in rural areas and 5 in city limits)- based on population density, wind direction and source profile across the district	Long term	<b>HSPCB:-</b> 2 Years	HSPCB).	<b>GMDA:-</b> Simple/low cost AQ sensors/ display systems
	Use satellite based air quality information to strengthen the air quality monitoring and take corrective measures based on data	Long term	<b>HSPCB:-</b> 3 Years	Distt. Administration & HSPCB	<b>GMDA:-</b> HSPCB should share its own plans with GMDA and other entities for better coordination and planning.
	Create a platform for pollution level forecast for the region to enable the administration, industries and general public to take emergency actions to reduce exposure to high levels of pollution.	Long term	<b>HSPCB:-</b> 3 Years	Distt. Administration & HSPCB	<b>GMDA:-</b> HSPCB should share its own plans with GMDA and other entities for better coordination and planning.
	Setup daily air quality information dissemination platforms (i.e., websites, news papers, mobile apps and public LED display boards) with health advisory.	Mid term	<b>HSPCB:-</b> Already complied by CPCB (Sameer App)	Distt. Administration & HSPCB	<b>GMDA:-</b> HSPCB should share its own plans with GMDA and other entities for better coordination and planning.
<b>Construction activities</b>	Regular monitoring of construction site to check the compliance made by them and accordingly panelizing and taking strict action against the violators as per the law having area more than 20000 sqm	Regular activity	<b>HSPCB:-</b> Being Complied Regularly	HSPCB	
	Regular monitoring of construction site to check the compliance made by them and accordingly panelizing and taking strict action against the violators as	Regular activity		MCG	<b>MCG:-</b> MCG has constituted teams including Engineering and sanitation officer/ official to check the construction sites and challaning of the violators. Copy attached as <b>Annexure-VII</b>

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	per the law having area less than 20000 sqm				
	Transportation of construction materials and debris in fully covered and protected trucks/vehicles	Short term	<p><b>HSPCB:-</b> Being Complied Regularly</p> <p><b>Traffic:-</b>Already implemented and continuously in the process</p>	RTA, Traffic Police & HSPCB	<b>RTA:-</b> During the checking of any vehicle found construction material and not fully covered with tarpaulin has been challaned under the provision of Motor Vehicle Act.
	Restriction on storage of construction materials along the road	Short term	<p><b>DDPO:-</b> Every Week</p> <p><b>Traffic:-</b>This point is not related to Traffic Police.</p>	DDPO, HSIIDC, Deptt. MCG, Police	<p><b>MCG:-</b> MCG has constituted teams including sanitation official to check the building materials shops and challaning of the violators.</p> <p><b>DDPO:-</b>Gram Panchayat take action in such cases regularly and remove encroachment if any construction material found along the rural road side and impose penalty also.</p> <p><b>HSIIDC:-</b> - Appx. 100000 sq. mtr. (25 Acre) land is available with HSIIDC as 50 mtr. Wide green belt along KMP Expressway falling in Transport Hub at IMT Manesar. The green belt can be used to “increase the green cover within the city to keep overall ambient temperature low to avoid dust formation” as per action plan for control of air pollution in non attainment cities under the head miscellaneous of action plan meeting dated 05.08.2019 held under the Chairmanship of ADC, Gurugram. The dense tree plantation including three years maintenance etc. will be done in the above area and tentative cost will be Rs. 25 lacs only.</p>
	Restriction of laying/standing of trucks/vehicles carrying construction material alongside the roads/lanes etc	Short term	<b>Traffic:-</b> Already implemented and continuously in the process	RTA & Traffic Police	<b>RTA:-</b> During the course of checking any vehicle found violating the rules the same has been Challaned as per the provision of the motor vehicle Act. & Rule.
	Restriction and demolition of illegal construction activities	Short term	<b>MCG:-</b> Already implemented and continuously in the process	MCG	<b>MCG:-</b> Demolition of illegal construction is being done by MCG on regular basis.
	Proper following of MoEF guidelines for construction activity for construction of National Highways / State Highway/ Village Link roads / ROBs/ under passes/ Colony lanes etc. by providing wind breaking walls, metallic roads, regular sprinkling by fixed sprinklers, covering of vehicles carrying construction material, green	Short term	<b>DDPO:-</b> Every Week	PWD B&R, DDPO, NHAI, HSIIDC, MCG, GMDA, , HSRDC.	<p><b>PWD :-</b> Same are being executed.</p> <p><b>MCG:-</b> The instructions and guidelines have been issued during approval of building plans and the occupiers involved in const. activity that all the construction material should be covered during its transportation and stacked at site duly covered &amp; directions have also been issued for regular sprinkling on the const. material at site.</p> <p><b>DDPO:-</b>Gram Panchayat take action in such cases regularly and remove encroachment if any construction material found along the rural road side and impose penalty also.</p>

# District Environment Plan

<p>tarpaulin etc. at the construction site.</p>					<p><b>NHAI:-</b>Three works: (Under Const.)                  i) U-Turn Ambience mall.                  ii) NH-248A Package-I                  iii) NH-248A Package-II                  In all above work requisite measures as mentioned are being carried out by respective Concessionaire &amp; Contractors.</p> <p><b>HSRDC:-</b> There is one no. ROB which is beyond the city portion where regular sprinkling by fixed sprinklers,</p> <p><b>HSIIDC:-</b>Appx. 100000 sq. mtr. (25 Acre) land is available with HSIIDC as 50 mtr. Wide green belt along KMP Expressway falling in Transport Hub at IMT Manesar. The green belt can be used to “increase the green cover within the city to keep overall ambient temperature low to avoid dust formation” as per action plan for control of air pollution in non attainment cities under the head miscellaneous of action plan meeting dated 05.08.2019 held under the Chairmanship of ADC, Gurugram. The dense tree plantation including three years maintenance etc. will be done in the above area and tentative cost will be Rs. 25 lacs only.</p>
<p>As far as possible using premixed mortar and concrete by eliminating the need to store loose raw material at construction site.</p>	<p>Mid term</p>		<p>PWD B&amp;R, NHAI, HSIIDC, MCG, GMDA, HSRDC</p>		<p><b>PWD :-</b> As on today Cement sand mortar is being used on the site. However if premix mortar or ready mix mortar is used than the cost for the same will be twice the being followed.</p> <p><b>MCG:-</b> MCG has empanelled 6 pre-mix ready-mix plants for supplying of RMC for const. of roads etc.</p> <p><b>NHAI:-</b>Raw material is being store at defined place in RMC plant by the contractor.</p> <p><b>HSRDC:-</b> Premix mortar and concrete are being used at site and instructions are being followed.</p> <p><b>HSIIDC:-</b> Appx. 100000 sq. mtr. (25 Acre) land is available with HSIIDC as 50 mtr. Wide green belt along KMP Expressway falling in Transport Hub at IMT Manesar. The green belt can be used to “increase the green cover within the city to keep overall ambient temperature low to avoid dust formation” as per action plan for control of air pollution in non attainment cities under the head miscellaneous of action plan meeting dated 05.08.2019 held under the Chairmanship of ADC, Gurugram. The dense tree plantation including three years maintenance etc. will be done in the above area and tentative cost will be Rs. 25 lacs only.</p>
<p>Enforce: Polluter pays principle &amp; similarly, protect, award the one who complains: decentralize &amp; try to make on ground committees with community to keep a check on pollution; give power &amp; ownership to</p>	<p>Short term</p>		<p><b>HSPCB:-</b> Being Complied Regularly</p>	<p>MCG &amp; HSPCB.</p>	<p><b>MCG:-</b> Enforcement is being done regularly and report is being uploaded on various portals such as Sameer, Social Media etc. The time for resolving of the complaints in 48 hours, which should be atleast three days.</p>

# District Environment Plan

	people and inculcate a sense of belongingness in people.				
<b>Research Studies to be conducted</b>	Prepare emission inventory for the city and district to estimate pollution emission load within one year from now	Mid term	<b>HSPCB:-</b> One Year	HSPCB	
	Conduct source apportionment study similar to the one done for Delhi in 2015 by IIT Kanpur taking into account the regional nature of pollution and considering the larger air shed of approximately 300 kms.	Mid term	<b>HSPCB:-</b> One Year	HSPCB	
	Conduct health impact assessment study and carrying capacity study for the region	Mid term		CMO	<b>CMO:-</b> Will be Done by SGT Medical College, Budheara ( coordination with concerned department of Medical College)
	Maintain the hospital records in a digital format and carry out assessments on linking the number of heart/lung/cancer patient's admissions and numbers to the air quality in the region	Mid term		CMO	<b>CMO:-</b> Hospital records maintenance in digital format will be started regarding Heart Disease, Lung Disease, Lung cancer and assessment formats of patients which can be helpful in linking and relation to air quality in the region.
<b>Miscellaneous</b>	All stone crushers are being stopped to operate during severe condition of air quality as per GRAP implementation mainly during Diwali, Winter season, crop harvesting season	Short term	<b>HSPCB:-</b> Being Complied Regularly	(HSPCB).	
	All construction activities being stopped during severe condition of air quality as per GRAP implementation mainly during Diwali, Winter season, crop harvesting season	Short term	<b>HSPCB:-</b> Being Complied Regularly	(MCG & HSPCB).	<b>MCG:-</b> MCG is following the directions in letter and spirit issued by CPCB from time to time.
	All brick kilns are being stopped to operate during severe condition of air quality as per GRAP implementation mainly during Diwali, Winter season, crop harvesting season	Short term	<b>HSPCB:-</b> Being Complied Regularly	DFSC & HSPCB	<b>DFSC:-</b> This is a Continuous process. No financial assistance required.
	All industries having	Short term	<b>HSPCB:-</b> Being	(HSPCB).	

# District Environment Plan

<p>potential of Air emission are being stopped to operate during severe condition of air quality as per GRAP implementation mainly during Diwali, Winter season, crop harvesting season</p>		Complied Regularly		
<p>All hot mix plants and Readymix concrete plants are being stopped to operate during severe condition of air quality as per GRAP implementation mainly during Diwali, Winter season, crop harvesting season</p>	Short term	<b>HSPCB:-</b> Being Complied Regularly	(HSPCB	
<p>Enforcement and taking Strict action as per the Law such as penalty/ closure /prosecution against the violators</p>	Short term	<p><b>DDPO:-</b> Twice in Month</p> <p><b>HSPCB:-</b> Being Complied Regularly</p> <p><b>Traffic:-</b>This point is not related to Traffic Police</p>	MCG, DDPO, HSIIDC, RTA, GMDA, Police Department, DFSC, DFO & HSPCB	<p><b>MCG:-</b> Regular challans are being made for non implementation /violation of various laws / regulations. Challans against the various violations has been made and total 10205 No. of challan amounting to Rs. 3,39,56,408/- have been made by MCG from Jan 2020 to December 2020.</p> <p><b>DDPO:-</b> Gram Panchayat take action in such cases regularly where Garbage disposed off not properly and remove encroachment if any construction material found along the rural road side and impose penalty also.</p> <p><b>HSIIDC:-</b>Appx. 100000 sq. mtr. (25 Acre) land is available with HSIIDC as 50 mtr. Wide green belt along KMP Expressway falling in Transport Hub at IMT Manesar. The green belt can be used to “increase the green cover within the city to keep overall ambient temperature low to avoid dust formation” as per action plan for control of air pollution in non attainment cities under the head miscellaneous of action plan meeting dated 05.08.2019 held under the Chairmanship of ADC, Gurugram. The dense tree plantation including three years maintenance etc. will be done in the above area and tentative cost will be Rs. 25 lacs only.</p> <p><b>GMDA:-</b> No intervention of GMDA.</p> <p><b>DFO:</b> Mining has already been banned in Gurugram district in compliance of orders of Ho’ble Supreme Court. No stone crusher is allowed near forest areas and National Parks. Compliance of orders of various Courts will be ensured in relation to Aravallis and Sec 4&amp;5 areas of PLPA 1900. Illegal Tree felling will be checked. Tree felling/pruning permissions will not be given during monsoon season i.e. from 01.08.2019 to 30.09.2019 being planting season and birding season except the emergency cases.</p> <p><b>RTA:-</b> During the checking of any vehicle found construction material and not fully covered with tarpaulin has been challaned under the provision of Motor</p>

# District Environment Plan

					Vehicle Act.
	Ensuring mixing & using power plant ash for land filing and manufacturing of bricks in the brick kilns	Short term	<b>HSPCB:-</b> Being Complied Regularly	DFSC & HSPCB	<b>DFSC:-</b> This is a Continuous process. No financial assistance required.
	Elimination of D.G set usage by provision of 24x7 electricity supply	Mid term		DHBVNL	<b>DHBVN:-</b> To provide 24x7 power supply in the Gurugram City, the HT network is being provided through 11 KV underground cable under Smart Grid Project. The work is likely to be completed by FY. 2021-22.
	Ensure all big societies, residential and commercial complexes and public buildings install rooftop solar to fulfill electricity demand and to do away with needs of usage of DG sets.	Mid term		DHBVNL	<b>DHBVN:-</b> The new consumers are being emphasized to provide rooftop solar plants as per notification of Govt. of Haryana vide notification no. 52-2017 dated 26.12.2017.
	Extension of mass rapid transit (MRT) within the city	Long term		Distt. Administration & Government	
	Increase the green cover within the city to keep overall ambient temperature low to avoid dust formation	Mid term	<b>GMDA:-</b> Three years	MCG, GMDA, HSIIDC, DFO.	<p><b>MCG:-</b> MCG has planned to plant more than two lakh plants during this ongoing rainy season and more than eighty thousand plants have already been planted to avoid dust formation &amp; to keep overall ambient temperature</p> <p><b>HSIIDC:-</b> Appx. 100000 sq. mtr. (25 Acre) land is available with HSIIDC as 50 mtr. Wide green belt along KMP Expressway falling in Transport Hub at IMT Manesar. The green belt can be used to “increase the green cover within the city to keep overall ambient temperature low to avoid dust formation” as per action plan for control of air pollution in non attainment cities under the head miscellaneous of action plan meeting dated 05.08.2019 held under the Chairmanship of ADC, Gurugram. The dense tree plantation including three years maintenance etc. will be done in the above area and tentative cost will be Rs. 25 lacs only.</p> <p><b>GMDA:-</b> GMDA is maintaining the existing green cover and increasing it further on GMDA Roads.</p>

# District Environment Plan

					<p><b>DFO:-</b>Following activities will be carried out by Forest Department during 2019-20:                  About 1.50 lakh saplings will be distributed under Paudhagiri to school children                  About 1.00 lakh saplings will be distributed to panchayats and general public under Jal Shakti Abhiyan                  About 2.00 lakh saplings will be distributed to RWAs in the city                  About 1.00 lakh saplings will be planted under different schemes of Forest Department i.e. Institutional lands, forest areas, panchayat lands. 550 saplings in each educational institute i.e. University, College, Polytechnic, ITI etc will be planted on the occasion of 550<sup>th</sup> Birth Anniversary of Guru Nanak Dev ji.                  City Forest has been announced at Sakatpur, Shikohpur, Gairatpur Bas, Naurangpur panchayat lands on an area of 1000 acres. About 50000 saplings will be planted in City Forest                  Protection of Aravallis will be ensured in compliance of different court orders which are important green lungs for the city. Tree felling is prohibited in the region.                  Companies will be encouraged to carry out plantation in Aravallis under Corporate Social responsibility.</p>
	Develop citing criteria for setting up of medical waste incinerators and implement strict emissions norms for such incineration with installation of CEMS (Continuous Emission Monitoring Systems).	Implemented	<b>HSPCB:-</b> Being Complied Regularly	HSPCB.	
	Banning firecrackers at times of high pollution levels Celebrations of Festivals, Weddings/ Events of firecracker burning.	Short term	<b>HSPCB:-</b> Being Complied Regularly	HSPCB, MCG & DDPO	<p><b>MCG:-</b> Various directions of CPCB / HSPCB / NGT etc. are being strictly implemented from time to time for controlling air pollution and to control breakout of fire etc.</p> <p><b>DDPO:-</b>Under UjjwalaYojna all Villagers having LPG Gas Connection instead of Stoves.</p>
	To keep a check on the presence of cooking fuel usage in urban villages*, slum settlements or economically weaker localities and To find out and curb any traditional fuel burning practices by providing eco-friendly alternatives.	Mid term		DDPO.	<b>DDPO:-</b> Under UjjwalaYojna all Villagers having LPG Gas Connection instead of Stoves.
	Stop using traditional stoves completely and ask for a modern cooking media alternative; given the success of Ujjwala scheme one can now access a LPG cylinder easily and on better subsidized prices than before.	Mid term		DDPO.	<b>DDPO:-</b> Under UjjwalaYojna all Villagers having LPG Gas Connection instead of Stoves.

# District Environment Plan

## STATUS ON ACTIONS TAKEN AGAINST AIR POLLUTION ACTIVITIES IN DELHI NCR

January, 2019 to December, 2019

Sr. No.	Type of Violation	Total Nos. of Inspections	Total Nos. of Defaults	Action Taken				
				Nos. of Notices Served	Fine Imposed	No. of Closure done	No. of FIRs	Prosecutions initiated
1.	Dust from C&D Activities / C&D waste dumping / stone dust / sand HSPCB -	825	27	27	6455000	16	0	0
	MCG -	504	110	22	613000	92	0	0
2.	Unauthorized operation of Ready Mix Plant	421	0	0	0	0	0	0
3.	Dust from Unpaved roads / broken roads	198	9	9	1250	0	0	0
4.	Garbage dumping	685	145	132	5114900	0	1	0
5.	Industrial waste dumping	186	0	0	0	0	0	0
6.	Garbage burning	484	72	72	278800	0	0	1
7.	Industrial waste burning	154	0	0	0	0	0	0
8.	Paraali / Biomass burning	186	5	0	7200	0	0	0
9.	Un-auth / Illegal running of brick Kilns / hot mix plant / stone crusher	477	5	5	0	9	0	0
10.	Air Pollution from Industry	503	4	4	1200000	23	0	0
11.	Unauthorized entry of vehicle	-	1021	141	Decide by Court	-	-	-
12.	Polluting vehicle	-	1144	165	10112090	-	-	-
13.	Unauthorized parking of vehicle	-	16487	-	9213577	-	-	-
14.	Traffic Congestion	157 (Vatika Chowk, Sohna Road, KherkiDaula Toll Plaza, Pataudi Road, Shankar Chowk, Bilaspur Chowk, Sector 10 Chowk, Udyog Vihar)	1	Regular email to Traffic Police to deploy sufficient number of Traffic Police for smooth traffic movement	10000	-	-	-
15.	Any other Action / Activity MCF may like to report							

## STATUS ON ACTIONS TAKEN AGAINST AIR POLLUTION ACTIVITIES IN DELHI NCR

## District Environment Plan

January, 2020 to December, 2020								
Sr. No.	Type of Violation	Total Nos. of Inspections	Total Nos. of Defaults	Action Taken				
				Nos. of Notices Served	Fine Imposed	No. of Closure done	No. of FIRs	Prosecutions initiated
1.	Dust from C&D Activities / C&D waste dumping / stone dust / sand	225	15	15	224500	12	0	0
2.	Unauthorized operation of Ready Mix Plant	122	0	0	0	0	0	0
3.	Dust from Unpaved roads / broken roads	54	5	5	0	0	0	0
4.	Garbage dumping	286	52	52	232000	0	0	0
5.	Industrial waste dumping	57	0	0	0	0	0	0
6.	Garbage burning	265	23	23	17540	0	0	0
7.	Industrial waste burning	48	0	0	0	0	0	0
8.	Paraali / Biomass burning	50	0	0	0	0	0	0
9.	Un-auth / Illegal running of brick Kilns / hot mix plant / stone crusher	201	0	0	0	4	0	0
10.	Air Pollution from Industry	243	6	6	240000	0	0	0
11.	Unauthorized entry of vehicle	-	585	72	Decide by Court	-	-	-
12.	Polluting vehicle	-	767	122	2546321	-	-	-
13.	Unauthorized parking of vehicle	-	9523	-	125321	-	-	-
14.	Traffic Congestion	27 (Pataudi Road, Shankar Chowk, Bilaspur Chowk, Sector 10 Chowk, Udyog Vihar)	0	Regular email to Traffic Police to deploy sufficient number of Traffic Police for smooth traffic movement	0	-	-	-
15.	Any other Action / Activity MCF may like to report							

# District Environment Plan

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## **Action taken during implementation of Graded Response Action Plan (GRAP)**

Environment Pollution (Prevention & Control) Authority (EPCA) has directed the State of Haryana to implement the following measures under Very Poor / Severe Category of Graded Response Action Plan (GRAP) from 15.10.2020 and has further informed that, based on the air quality, CPCB led Task Force and EPCA will review the situation frequently and direct additional measures if need arises, as done during last year. The copy of the communication has been enclosed along for reference.

Accordingly, the following measures have to be implemented from 15.10.2020 in all NCR Districts of Haryana and the compliance of the same should be ensured by all agencies / Departments / Officers concerned.

1. The use of DG sets will be banned (other than essential / emergency services) in Faridabad and Gurugram towns of Haryana. EPCA has exempted the essential services like Medical Purposes (Hospitals / Nursing Homes / Health Care Facilities), Elevators (lifts) / Escalators, Railway Stations, Metro Rail Corporation Services including its trains and Metro stations and Airports and Inter State Bus Terminals from the ban of DG sets. Power Department is advised to ensure its power supply to these towns to avoid operating DG sets and inconvenience to public.
2. Large construction projects, including highways and metro will provide undertaking to the State Pollution Control Board that they will assure adherence to the prescribed norms / guidelines for dust management.
3. All industries in the Red and Orange category, shall provide an undertaking to the State Pollution Control Board that they will use only authorised fuel and will not operate without adequate pollution control measures.
4. Compliance of action plans on the identified pollution hotspots in the NCR Districts (with special focus on Faridabad, Gurugram, Sonapat, Panipat and Bahadurgarh towns) shall be ensured by all concerned and night patrolling shall also be done by teams constituted at District level. The deficiencies identified by EPCA during its field visits should be addressed on top priority and a compliance report in this regard should also be sent to HSPCB for compilation and submission to EPCA. Further, there should be an enhanced vigilance at sources such as industrial stacks and garbage dumping as well as use of illegal fuels. All technologies to control dust emission, including smog-guns, should be used extensively during this period.
5. The solid waste dumping issues have to be addressed on priority and on long term basis instead of adhoc solutions. The solid waste dumping in industrial areas should be addressed by all agencies concerned, as directed by EPCA, from time to time, making necessary arrangement for collection and disposal.
6. As directed by EPCA, mechanized sweeping machines, wherever available, have to be used for regular cleaning of roads / streets in shifts both day and night and sprinkling of water and other necessary measures to control dust from roads have to be undertaken by all agencies concerned

The above directions of EPCA may be taken up on Top Priority, and action taken in this regard has to be sent by the undersigned to HSPCB for compilation and submission to EPCA.

For the effective implementation of Graded Response Action Plan (GRAP), directions of EPCA & HSPCB, kindly appoint Nodal Officer who will be responsible for the implementation of Graded Response Action Plan (GRAP), directions of EPCA & HSPCB pertaining to your department. The details

## District Environment Plan

of the Nodal Officer including mobile No. and email ID should be provided to Regional Officer, Haryana State Pollution Control Board (South) (hspcbrogrs@gmail.com), HSIIDC Building, 3rd Floor IMT Manesar, Gurugram immediately. Otherwise, last year's Nodal Officers, or their successors (in case of transfers), or in case of non-applicability of both these conditions, Department Heads will be presumed to be Nodal Officers. All departments/agencies will constitute their team for implementation of said directions. Regional Office, HSPCB, Gurugram Region (S) is the overall Nodal Office for ensuring implementation of these directions and will initiate appropriate action against the concerned quarters/agencies for not adhering these directions.

### ❖ **Municipal Corporation, Gurugram (also GMDA – wherever applicable and in their purview)**

- To Increase frequency of mechanized cleaning in the city.
- Sprinkling of water on road and wherever required.
- To identify road stretches with high dust generation.
- To stop use of coal/fire wood in Hotels & open eateries.
- To check and penalize the violations of Environmental Norms by construction projects having built up area less than 20000 Sqm within the municipal limits or GMDA jurisdiction limits.
- To check and ensure compliance of Environmental Norms on road construction /Storm Water Drain construction /sewage line etc. being carried out by MCG/GMDA
- To check and stop burning of rubber /plastic waste /clothe waste in public area.
- To constitute team of officer/official for stoppage of garbage burning/biomass burning and appointment of Nodal officer/Zonal Officer.
- To check and bring into notice any specific issues involving violations of burning of municipal solid waste (Bandhwari Plant), dumping of C&D Waste, non use of sprinklers etc. into the notice of District Administration, Municipal Corporation, Transport and Police Department for immediate redressal of the issue.
- To ensure proper covering of all the vehicles carrying municipal solid waste from Gurugram City /collection point to Municipal Solid Waste Management Facility at Village Bandhwari.
- Night patrolling for the above said points may also be done by constituting the teams in their respective jurisdiction.
- To prohibit the use of single use plastic as the mandate of Swachh Bharat Abhiyaan.
- To ensure regulation of DG sets under their jurisdictional area except [(Industries in the approved industrial/CLU area) covered under HSPCB's purview and commercial /residential complex having total built-up area more than 20000 Sqm]
- Compliance of action plans on the identified pollution hotspots in the city.
- There should be an enhanced vigilance at sources such as garbage dumping as well as use of illegal fuels. All technologies to control dust emission, including smog-guns, should be used extensively during this period.
- The solid waste dumping issues have to be addressed on priority and on long term basis instead of adhoc solutions.
- To ensure removal & scientific disposal of C&D waste

### ❖ **HSVP**

- To Increase frequency of mechanized cleaning of road.
- Sprinkling of water on road wherever required.

## District Environment Plan

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- To identify road stretches with high dust generation.
- To stop use of coal/fire wood in Hotels & open eateries.
- To constitute team of officer/official for stoppage of garbage burning and appointment of Nodal officer/Zonal Officer.
- Sprinkling water at Leisure Valley Ground to contain dust.
- To check and penalize the violations of Environmental Norms by construction projects having built up area less than 20000 Sqm within the HSVP jurisdiction.
- To ensure regulation of DG sets under their jurisdictional area except [(Industries in the approved industrial/CLU area) covered under HSPCB's purview and commercial /residential complex having total built-up area more than 20000 Sqm]
- Compliance of action plans on the identified pollution hotspots in the city.
- There should be an enhanced vigilance at sources such as garbage dumping as well as use of illegal fuels. All technologies to control dust emission, including smog-guns, should be used extensively during this period.
- The solid waste dumping in industrial areas should be addressed by engagement of Concessionaire for Door to collection of Solid Waste from industrial Area
- To ensure removal & scientific disposal of C&D waste
- ❖ **HSIIDC**
  - The solid waste dumping in industrial areas should be addressed by engagement of Concessionaire for Door to collection of Solid Waste from industrial Area
  - Compliance of action plans on the identified pollution hotspots in the city.
  - There should be an enhanced vigilance at sources such as garbage dumping as well as use of illegal fuels. All technologies to control dust emission, including smog-guns, should be used extensively during this period.
  - To ensure regulation of DG sets under their jurisdictional area except [(Industries in the approved industrial/CLU area) covered under HSPCB's purview and commercial /residential complex having total built-up area more than 20000 Sqm]
  - To Increase frequency of mechanized cleaning of road.
  - Sprinkling of water on road wherever required.
  - To identify road stretches with high dust generation
  - To ensure removal & scientific disposal of C&D waste
- ❖ **Police Department**
  - To impound diesel vehicles older than 10 years and petrol vehicles older than 15 years
  - To provide diversion of route at heavy intersection point of congestion.
  - To provide smooth traffic flow at identified venerable areas.
  - To keep strict vigilance and no tolerance for visible emissions – stop plying of visibly polluting vehicles by impounding or heavy fine
  - To keep strict vigilance and enforcement of PUC norms.
  - To ensure stoppage of encroachment on footpath.
  - To check and resolve issues such congestion & unusual dust emission due to traffic /parking.
  - Compliance of action plans on the identified pollution hotspots in the city.
- ❖ **RTA**

## District Environment Plan

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- Sprinkling water at Leisure Valley Ground & other places under their jurisdiction to suppress dust.
- To impound diesel vehicles older than 10 years and petrol vehicles older than 15 years.
- To keep strict vigilance and enforcement of PUC norms and to check the validity & authenticity of PUCs.
- To ensure no illegal parking in their jurisdiction.
- To stop illegal auto /vehicles.
- Compliance of action plans on the identified pollution hotspots in the city.
- There should be an enhanced vigilance at sources such as use of illegal fuels.
- ❖ **ADC**
  - To ensure no illegal parking in their jurisdictional area.
  - To ensure issuance of directions to contractor to whom vehicle parking tender has been awarded to ensure water sprinkling on daily basis.
  - Compliance of action plans on the identified pollution hotspots in the city.
- ❖ **State Transport Department**
  - To keep strict vigilance and enforcement of PUC norms.
  - To ensure phasing out of diesel vehicles more than 10 years old.
  - To strengthen public transport services.
  - Compliance of action plans on the identified pollution hotspots in the city.
  - There should be an enhanced vigilance at sources such as use of illegal fuels.
- ❖ **Agriculture Department**
  - To ensure monitoring of crop residue burning.
  - To conduct awareness programme among farmers involving village Panchayats.
  - To explore possibility installation of biomass power project, bio manure.
  - Compliance of action plans on the identified pollution hotspots in the city.
  - There should be an enhanced vigilance at sources such as stubble burning /garbage dumping as well as use of illegal fuels.
- ❖ **Education Department**
  - To conduct awareness programme regarding no use of fire crackers in schools.
  - To organize awareness activities regarding prevention of Air Pollution and harmful effect of Air Pollution on human health and environment.
- ❖ **Food & Supply Department**
  - To ensure closure of all kilns till further orders of NGT in this regard.
  - To monitor fuel adulteration.
  - To ensure stoppage of coal/fire wood in Hotels & open eateries.
  - Compliance of action plans on the identified pollution hotspots in the city.
  - There should be an enhanced vigilance at sources such as use of illegal fuels.
- ❖ **Department of Explosives/fire Safety**
  - To ensure implementation of directions of Hon'ble Supreme Court of India in Writ Petition (C ) 728 of 2015 i.e.

*The courts finds that the grave air quality situation in NCR is one such case, where this court can intervene and suspended the licenses to store and sell fireworks in the NCR. The court directed the Central Govt. to*

## District Environment Plan

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- a. *Suspend all such license as permit sale of fireworks wholesale and retail within territory.*
- b. *The suspension shall remain in force till further orders of this Court.*
- c. *No such licenses shall be granted or renewed till further orders.*

### ❖ **Forest Department**

- To ensure patrolling in Aravali plantation sites during festive season.
- To ensure proper green area in the jurisdiction of Forest Department.
- Compliance of action plans on the identified pollution hotspots in the city.

### ❖ **Revenue Department**

- To ensure monitoring of crop residue burning.
- To conduct awareness programme in association with Gram Panchayats.
- To ensure issuance of order for imposing section 144 of the Code of Criminal Procedure, 1973 on or before Deepawali including identification sites for sale /use of green crackers from the undersigned on the same line as previous year.
- Compliance of action plans on the identified pollution hotspots in the city.

### ❖ **Development & Panchayat Department**

- To ensure monitoring of crop residue burning.
- To conduct awareness programme in association with Gram Panchayats.
- To convey directions to Sarpanchs of every Gram Panchayat that they will be held personally responsible if any case of crop residue burning will not be reported to the District Administration in their jurisdiction within 24 Hours.
- Compliance of action plans on the identified pollution hotspots in the city.
- There should be an enhanced vigilance at sources such as garbage dumping /stubble burning as well as use of illegal fuels.

### ❖ **PWD (B&R) Deptt.**

- To Increase frequency of mechanized cleaning of road.
- Sprinkling of water on road.
- To provide adequate u-turn to reduce for returning on destined vehicles (in case of congestion)
- To make roads pothole free for smooth flow of traffic.
- To ensure regulation of DG sets under their jurisdictional area except [(Industries in the approved industrial/CLU area) covered under HSPCB's purview and commercial /residential complex having total built-up area more than 20000 Sqm]
- Compliance of action plans on the identified pollution hotspots in the city.
- There should be an enhanced vigilance at sources such as garbage dumping on the area under their jurisdiction. All technologies to control dust emission, including smog-guns, should be used extensively during this period.
- To ensure removal & scientific disposal of C&D waste

### ❖ **National Highway Authority of India**

- To Increase frequency of mechanized cleaning of road.
- Sprinkling of water on road.
- To ensure implementation of directions of Hon'ble NGT/Environmental laws /guidelines of MoEF at road/bridge/underpasses constructions sites.

## District Environment Plan

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- To ensure regulation of DG sets under their jurisdictional area except [(Industries in the approved industrial/CLU area) covered under HSPCB's purview and commercial /residential complex having total built-up area more than 20000 Sqm]
- Compliance of action plans on the identified pollution hotspots in the city.
- There should be an enhanced vigilance at sources such as garbage dumping on the area under their jurisdiction. All technologies to control dust emission, including smog-guns, should be used extensively during this period.
- To ensure removal & scientific disposal of C&D waste
- ❖ **Town & Country Planning Deptt.**
  - To ensure implementation of directions of Hon'ble NGT/Environmental laws /guidelines of MoEF at constructions sites.
  - Compliance of action plans on the identified pollution hotspots in the city.
  - To ensure regulation of DG sets under their jurisdictional area except [(Industries in the approved industrial/CLU area) covered under HSPCB's purview and commercial /residential complex having total built-up area more than 20000 Sqm]
  - There should be an enhanced vigilance at sources such as garbage dumping. All technologies to control dust emission, including smog-guns, should be used extensively during this period.
  - To ensure removal & scientific disposal of C&D waste
- ❖ **Health Department**
  - To ensure implementation Bio Medical Waste Management Rules, 2016 in Govt. Hospitals and private hospitals.
  - To organize awareness activities regarding prevention of Air Pollution and harmful effect of Air Pollution on human health and environment.
  - Compliance of action plans on the identified pollution hotspots in the city.
  - There should be an enhanced vigilance at sources such as garbage dumping /burning in their jurisdiction as well as use of illegal fuels.
- ❖ **Haryana State Pollution Control Board**
  - Regular monitoring of ambient air quality.
  - To take action against the construction projects more than 20000 Sqm involved in causing dust pollution.
  - To take action against non complying industrial units/stone crushers/Hot mix plants/brick kilns.
  - To conduct awareness programme regarding non burning of crop residue/ non burning of fire crackers and regarding prevention of Air Pollution and harmful effect of Air Pollution on human health and environment.
  - To ensure no illegal fuel is being used any of the industries other than the approved fuel and in case of any such violation, action be initiated against the unit as per the provisions.
  - Night patrolling to be done to ensure no illegal burning of any kind happens in industrial units.
  - To prohibit the use of single use plastic as the mandate of Swachh Bharat Abhiyaan
  - To ensure regulation of DG sets for the project /industries covered under their purview (Industries in the approved industrial/CLU area and commercial /residential complex

## District Environment Plan

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having total built-up area more than 20000 Sqm .

- To ensure submission of undertaking regarding adherence to the prescribed norms / guidelines for dust management large construction projects, including highways and metro.
  - To ensure submission of undertaking from all industries in the Red and Orange category, that they will use only authorised fuel and will not operate without adequate pollution control measures.
  - Compliance of action plans on the identified pollution hotspots in the city.
  - There should be an enhanced vigilance at sources such as industrial stacks as well as use of illegal fuels in their jurisdictional area. All technologies to control dust emission, including smog-guns, should be used extensively during this period.
  - District Whatsapp Group will be created by Regional Office, HSPCB, Gurugram Region (S) in this regard and will circulate all communications on the said group too for immediate information to all concerned.
  - To establish control room for addressing and management of air pollution related complaints at Regional Office, HSPCB, Gurugram Region (S).
- ❖ **Power Department**
- To ensure its uninterrupted power supply to avoid operating DG sets and inconvenience to public.



# District Environment Plan

## GURUGRAM: Model City of Haryana in Abatement of Air Pollution - A SUCCESS STORY



Continuous Monitoring of Air Quality



Air Pollution Control Measures at Construction Sites



Night Patrolling of Air Polluting Units, sealing of illegal establishments and conversion on PNG



Plantation Drive to increase green cover, Awareness and Appreciation of young minds

# District Environment Plan



Mechanized sweeping and water sprinkling



Checking & Challenging of visibly polluting vehicles and fuel sampling to check adulteration



Construction of Flyovers, Underpasses, metro to smoothen traffic flow, CNG stations and plying of CNG vehicles



Construction and Demolition Waste Processing Plant. Control on Garbage /Waste Burning & dumping