HARYANA STATE POLLUTION CONTROL BOARD
C-11, SECTOR-6, PANCHKULA
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HSPCB
Date:-02/08/2021
To

1. The Secretary, Government of India,
   Ministry of Jal Shakti, Department of Water Resources,
   River Development & Ganga Rejuvenation,
   Shram Shakti Bhawan, Rafi Marg.
   New Delhi.

2. The Member Secretary,
   Central Pollution Control Board,
   Parivesh Bhawan, East Arjun Nagar,
   New Delhi.

Sub:- Monthly progress Report by State of Haryana regarding Ghaggar and Yamuna Action Plan for the month of May, 2021.

Sir,

Kindly refer to the subject noted above.

In this connection, it is intimated that there are two polluted river stretches in the State of Haryana i.e. river Ghaggar and Yamuna. I have been directed to enclose herewith the progress report of Ghaggar and Yamuna Action Plan of Haryana for the month of May, 2021 on the prescribed format for your kind information and necessary action please.

DA/ As above

Signed by Jatinder Pal Singh
Date: 02-08-2021 16:52:02
Reason: Approved

Sr. Env. Engineer(HQ)
For Member Secretary

National Mission for Clean Ganga
Format for submission of Monthly Progress Report in the NGT Matter OA No. 673 of 2018 (in compliance to NGT order dated 24.09.2020)

For the State of Haryana
Upto May, 2021

Overall status of the State:

I. Total Population: Urban Population & Rural Population separately

- ✓ Ghaggar catchment
  Urban Population **–** 25,38,665

- ▪ Yamuna catchment
  Urban Population **–** 62,79,643

- ❖ Other areas-
  Urban Population- 11,29,576

II. Estimated Sewage Generation (MLD):

- ✓ Ghaggar catchment
  274.06 MLD sewage generation

- ▪ Yamuna catchment
  1013.75 MLD sewage generation

- ❖ Other areas-
  87.1 MLD

III. <u>Details of Sewage Treatment Plant:</u>

- **Existing no. of STPs and Treatment Capacity (in MLD):**
  - ✓ Ghaggar
    61 STPs of treatment capacity of 527.25 MLD
  - ▪ Yamuna
    59 STPs of treatment capacity of 1072.2 MLD
  - ❖ Other areas-
    35 STPs of treatment capacity of 224.5 MLD.

- **Capacity Utilization of existing STPs:**
  - ✓ Ghaggar
    274.06 MLD effluent reaching STPs.
  - ▪ Yamuna
    734.12 MLD effluent reaching STPs.
  - ❖ Other areas-
    108.4 MLD effluent reaching STPs.

- **MLD of sewage being treated through Alternate technology:**
  NIL

- **Gap in Treatment Capacity in MLD:**
  - ✓ **Ghaggar**
    There is Gap of 13.54 MLD in the installed treatment capacity at present in comparision to requirement i.e. sewage generation in some towns in catchment of river Ghaggar i.e. Ambala (4.9MLD) and Kalka (8.64 MLD).

  - **Yamuna**
    There is Gap of 118.68 MLD in the installed treatment capacity at present in comparision to requirement i.e. sewage generation in some towns in catchment of river Yamuna i.e. Faridabad (107.7 MLD), Indri (0.38) and Palwal(10.6 MLD).

- **No. of Operational STPs:**

Ghaggar

There are total 61 STPs installed in the catchment of river Ghaggar with the capacity of 527.25 MLD. As per latest status, all STPs are meeting the prescribed parameters. The list is enclosed as **Annexure-1.**

Yamuna

There are total 59 STPs installed in the catchment of river Yamuna with the capacity of 1072.2 MLD. As per latest status, 8 STPs are not meeting the prescribed parameters. The list is enclosed as **Annexure-2.**

Other Areas

35 STPs of 224.5 MLD capacity are installed in the other areas not following in the catchment of rivers. Out of these 10 STPs are not meeting the prescribed limits.

The details of all the existing STPs in the state are given in the table as under:-

Table:- Details of each existing STP in the State

Sr. No.	Town	Existing STP Capacity	Capacity Being Utilized	Operational status of STP	Compliance status of STPs
Ghaggar Catchment					
1	Naraingarh	3	2.46	Operational	Non Complying in F. Coli
2	Ambala	44.25	44.15	Operational	Non Complying in F. Coli. and 1 STP is complying.
3	Ratia	6.5	4.01	Operational	Non Complying in F. Coli
4	Tohana	10	6.89	Operational	Non Complying in F. Coli

Sr. No.	Town	Existing STP Capacity	Capacity Being Utilized	Operational status of STP	Compliance status of STPs
5	Jhakal Mandi	3	1.38	Operational	Non Complying in F. Coli
6	Fatehabad	25	7.64	Operational	Non Complying in F. Coli. and 1 STP is complying.
7	Hisar	82	39.02	Operational	Non Complying in F. Coli
8	Narnaund	4	1.86	Operational	Non Complying in F. Coli
9	Narwana	9.25	6.7	Operational	Non Complying in F. Coli
10	Uchana	3.5	1.81	Operational	Non Complying in F. Coli
11	Jind	37	18.09	Operational	Non Complying in F. Coli
12	Safidon	9	3.75	Operational	Non Complying in F. Coli
13	Cheeka	10	4.2	Operational	Non Complying in F. Coli
14	Kaithal	37.5	15.65	Operational	Non Complying in F. Coli
15	Kalayat	5	2.01	Operational	Non Complying in F. Coli
16	Pundri	3.5	2.03	Operational	Non Complying in F. Coli
17	Shahbad	11.5	4.6	Operational	Complying
18	Pehowa	8	4.19	Operational	Non Complying in F. Coli
19	Thanesar	40	16.75	Operational	Complying
20	Kalka	4.75	13.39	Operational	Non Complying in F. Coli
21	Pinjore	5	4.75	Operational	Non Complying in F. Coli
22	Panchkula	81	34.28	Operational	Non Complying in F. Coli
23	Mandi Dabwali	16.5	5.71	Operational	Non Complying in F. Coli
24	Kalanwali	9.5	2.38	Operational	Non Complying in F. Coli
25	Sirsa	45	19.71	Operational	Non Complying in F. Coli
26	Rania	6	2.71	Operational	Non Complying in F. Coli
27	Ellenabad	7.5	3.94	Operational	Non Complying in F. Coli
Total		**527.25**	**274.06**		
Yamuna Catchment					
1	Jagadhri	24	59.5	Operational	Complying
	Yamunanagar	55		Operational	Non Complying in F. Coli
2	Radaur	3.5	2	Operational	Non Complying in F. Coli

Sr. No.	Town	Existing STP Capacity	Capacity Being Utilized	Operational status of STP	Compliance status of STPs
3	Chhachhrauli	3	1.75	Operational	Non Complying in F. Coli
4	Ladwa	7	5	Operational	Complying
5	Nilokheri	6	3.5	Operational	Non Complying in F. Coli
6	Taraori	5.5	3.8	Operational	Non Complying in F. Coli
7	Indri	4	2.35	Operational	Non Complying in F. Coli
8	Karnal	76	59	Operational	Non Complying in F. Coli
9	Nissing	4	2.3	Operational	Non Complying in F. Coli
10	Gharaunda	7	4.7	Operational	Non Complying in F. Coli
11	Panipat	120.8	77.87	Operational	Non Complying in F. Coli
12	Samalkha	5	2.82	Operational	Non Complying in F. Coli
13	Gohana	11.3	8.72	Operational	Non Complying in F. Coli
14	Ganaur	7	5.5	Operational	Non Complying in F. Coli
15	Sonepat	62.5	10.5	Operational	Non Complying in F. Coli
16	Kharkhoda	4.5	2	Operational	Non Complying in F. Coli
17	Maham	5	2.65	Operational	Non Complying in F. Coli
18	Rohtak	93.5	49.7	Operational	2 STPs Non Complying (40 MLD Sonaria, Rohtak, and 10 MLD Sec-25, Rohtak by HSVP)
19	Kalanaur	3.5	2.5	Operational	Non Complying in F. Coli
20	Sampla	4	2.66	Operational	Non Complying in F. Coli
21	Beri	2	1.72	Operational	Non Complying in F. Coli
22	Bahadurgarh	64	22.6	Operational	1 STP Non-Complying (18 MLD STP, Linepar, Bahadurgarh by PHED)
23	Jhajjar	10.5	6.45	Operational	1 STP Non-Complying (5.5 MLD, Jhajjar by PHED)
24	Taoru	4.5	2.6	Operational	Non Complying in F. Coli
25	Gurugram	388	344	Operational	1 STP Non-Complying, 3 STPs are non complying in F. Coli and 1 STP is complying.
26	Nuh	3.6	2.3	Operational	Non Complying in F. Coli

Sr. No.	Town	Existing STP Capacity	Capacity Being Utilized	Operational status of STP	Compliance status of STPs
27	Ferozepur jhirka	5	2.45	Operational	Non Complying in F. Coli
28	Punahana	4.5	1.25	Operational	Non Complying in F. Coli
29	Faridabad	52.5	25	Operational	1 STP Non Complying (45 MLD Badshahpur, Faridabad)
30	Palwal	9	9	Operational	Non Complying in F. Coli
31	Hathin	4.5	2.08	Operational	Non Complying in F. Coli
32	Hassanpur	3	1.25	Operational	Non Complying (BOD 10)
33	Hodal	9	4.6	Operational	Non Complying (BOD 10)
Total		**1072.2**	**734.12**		
Other STPs					
1	Sohna	6	4.5	Operational	Non Complying in F. Coli
2	Pataudi	4.5	2.8	Operational	Non Complying in F. Coli
3	Farrukhnagar	3	2.8	Operational	Non Complying in F. Coli
4	Haily Mandi	5.5	1.85	Operational	Non Complying in F. Coli
5	Julana	4	2.1	Operational	Non Complying in F. Coli
6	Dhana Road, Bhiwani	10		Operational	Non Complying
7	Bhiwani	10		Operational	Non Complying
8	Bhiwani	15	8.2	Operational	Non Complying in F. Coli
9	Bhiwani	15	8.24	Operational	Non Complying in F. Coli
10	Charkhi Dadri	5	3.5	Operational	Non Complying in F. Coli
11	Charkhi Dadri	5	1.5	Operational	Non Complying
12	Bawani Khera	4.5	2.5	Operational	Non Complying in F. Coli
13	Loharu	3.5	1.84	Operational	Non Complying in F. Coli
14	Tosham	3	1.76	Operational	Non Complying in F. Coli
15	Siwani	4	2.53	Operational	Non Complying in F. Coli
16	Mohindergarh	6.5	3.3	Operational	Non Complying in F. Coli
17	Ateli Mandi	2	0.9	Operational	Non Complying in F. Coli
18	Kanina	3	1.25	Operational	Non Complying in F. Coli
19	Rewari Road, Narnaul	7.5	5	Operational	Non Complying in F. Coli
20	Bawal	3	1.7	Operational	Non Complying in F. Coli

Sr. No.	Town	Existing STP Capacity	Capacity Being Utilized	Operational status of STP	Compliance status of STPs
21	Rewari	6.5	5	Operational	Non Complying
22	Rewari	8	3.7	Operational	Non Complying (10 BOD)
23	Rewari	16	10.22	Operational	Non Complying (10 BOD)
24	Dharuhera	9.5	3.5	Operational	Non Complying (10 BOD)
25	Kosli	3	1.32	Operational	Non Complying in F. Coli
26	Barara	4	2.64	Operational	Non Complying (10 BOD)
27	Assandh	5	3.52	Operational	Non Complying in F. Coli
28	Hansi	6.5	2.98	Operational	Non Complying in F. Coli
29	Dhani Gram, Barwala	6	5.74	Operational	Non Complying
30	Uklana	6.5	1.75	Operational	Non Complying (10 BOD)
31	Dhani Kushal, Bhiwani Road, Hansi	5	3.5	Operational	Non Complying in F. Coli
32	Lalpura-Jind Road, Hansi	7.5	5	Operational	Non Complying in F. Coli
33	Bhiwani	10	1.5	Operational	Non Complying in F. Coli
34	Dharuhera	5	1.75	Operational	Non Complying in F. Coli
35	Near Chinkara Rest House, Rewari Road, Narnaul	6		Operational	Non Complying in F. Coli
Total		**224.5**	**108.39**		

B <u>Details of under construction STPs in the State</u>

Sr. No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
Ghaggar Catchment					
1	12 Cross Road, Ambala	12	29%	215311 House sewer connections provided in the Ghaggar Catchment.	30.06.2021
2	Khatoli	0.75	98%		30.06.2021
3	Sukhdarshanapur	0.75	99%		30.06.2021
4	Billa	0.75	92%		30.06.2021

Sr. No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
5	Khuda Khurd, Ambala	12	30%		30.06.2021
6	Babyal	10	80%		30.06.2021
7	Shahpur Machhonda	7.5	20%		30.06.2021
8	Saketri-STP	1.5	55%		30.06.2021
9	Sirsa	7.5	82%		31.12.2021
10	Bhuna	8	100%		30.06.2021
Yamuna Catchment					
1	Baddi Majra, Yamuna Nagar	10	99%	195520 House sewer connections provided in the Yamuna Catchment.	31.07.2021
2	Shiv Colony, Karnal	8	78%		30.06.2021
3	Phooshgarh, Karnal	20	79%		30.06.2021
4	Garhi Bohar, Rohak	12	70%		30.06.2021
5	Singhpura, Rohtak	10	98%		30.06.2021
6	Peer Bodhi, Rohak	15	16%		30.09.2022
7	Bandwari(Shifted from Sihi/Khedki Daula)	1	80%		30.07.2021
8	Faridabad, sector-21	10	15%		31.07.2021
9	Kithwari	10	48%		31.07.2021
10	Jodhpur Road, Palwal	15	54%		31.07.2021
11	Ferozpur, Palwal	2.5	54%		31.07.2021
12	Sonepat (Aterna)	15	54%		31.12.2021
13	Murthal Sonepat	3	30%		30.06.2021
14	Jhazgarh	20	18%		31.12.2021
15	Dhankot, Gurugram	2	0%		31.12.2021
16	Bajghera	2	15%		31.12.2021
17	Rohtak	10	62%		31.12.2021
18	Mirjapur, Faridabad	80	16%		30.11.2022
19	Partapgarh, Faridabad	100	22%		30.11.2022

Sr. No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
20	Faridabad	30	35%		30.06.2022

Details of proposed STPs in the State

Sr. No.	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
Ghaggar Catchment				
1	Sector-32, Ambala Cantt.	5	Sewage is lifted to the existing 2 MLD STP of HSVP in Ambala.	31.12.2027
2	Naraingarh, Ambala	1	Sewage is lifted to the existing STP of PHED in Naraingarh.	31.12.2024
3	Pinjore, Panchkula	8	No discharge yet.	31.12.2027
4	Jind	5	The existing 10 MLD STP is sufficient.	31.12.2027
5	Hansi	5	Present discharge, though very little, is being treated in existing STP.	31.12.2027
6	Hisar	10	Sewage is lifted to the existing 15 MLD STP of HSVP in Hisar.	31.12.2024
7	Hisar	5	No discharge yet.	31.12.2026
Yamuna Catchment				
1	Manesar and Naharpur Kasan, Gurugram	25	Tender floated and Bids opened.	31.03.2022
2	Dev Colony, Panipat	15	Due to single bid in the tender the tender is again floated with the date of opening as 15.06.2021.	30.09.2022
3	Barsat Road, Panipat	25		30.09.2022

IV. Details of Industrial Pollution:

Sr. No.	River stretch	No. of industries	Quantum of effluent generated (in	No. of industries having ETPs	No. of industries connected

			MLD)		to CETPs
1	Yamuna	3474	121.11	3474	814
2	Ghaggar	252	5.2	252	28
	Total	**3726**	**126.31**	**3729**	**842**

- **Number and total capacity of CETPs (details of existing/ under construction / proposed)**

Sr. No.	River stretch	Existing CETPs		Under construction CETPs		Proposed CETPs	
		No.	Capacity (in MLD)	No.	Capacity (in MLD)	No.	Capacity (in MLD)
1	Yamuna	14	161.5	3	19	5	145.5
2	Ghaggar	4	6.1	0	0	2	3
3	Other Areas	1	22.5	0	0	0	0
	Total	**19**	**190.1**	**3**	**19**	**7**	**148.5**

- **Status of compliance and operation of the CETPs.**
  Ghaggar Catchment

Town	No. of industries	Industrial Discharge (in MLD)	Status of ETPs	Status of CETPs (existing, under construction & proposed)
Naraingarh	10	0.002	All units have Installed ETPs	0
Ambala	69	1.2		**Existing** – 2 CETP of 5.5 MLD capacity (0.5 MLD CETP is non complying and 5 MLD capacity is complying as per latest A/Rs
Jind	No industry in catchment of river/drains of Ghaggar	0		**Existing**- 1 CETP of 0.1 MLD capacity is non complying. **Proposed**-1 CETP of 1.5 MLD capacity.
Shahbad	4	0.001		0
Pehowa	3	3.4		0
Kurukshetra	26	0.036		0
Kalka	8	0.01		0
Barwala	20	0.07		**Existing**- 1 CETP of 0.5 MLD capacity and the same is complying as per latest A/R
Panchkula	112	0.5		0
Sirsa	0	0		**Proposed**- 1 CETP of 1.5 MLD capacity.

Town	No. of industries	Industrial Discharge (in MLD)	Status of ETPs	Status of CETPs (existing, under construction & proposed)
Total	**252**	**5.2**		

Yamuna Catchment

Town	No. of industries	Industrial Discharge (I n MLD)	Status of ETPs	Status of CETPs (existing, under construction & proposed)
Jagadhri/ Yamunanagar	207	18.4	All units have Installed ETPs	**Under construction**-1 CETP of 3 MLD capacity
Karnal	310	18.4		0
Panipat	286	24.3		**Existing- 3** CETPs of 44.5, all are complying.
Sonepat	789	21.8		**Existing-** 4 CETPs of 25.2, all are complying. **Under construction-** 1 CETP of 6 capacity.
Rohtak	89	1.4		**Existing-** 2 CETPs of 13 (1 CETP of 3 MLD is under trial run and the other CETP of 10 MLD at IMT Rohtak is complying)
Jhajjar	311	5.4		**Existing-** 1 CETP of 12.5 MLD and the same is complying. **Proposed**- 1 CETP of 10 MLD capacity **Under Construction-**1 CETP of 10 MLD capacity
Gurugram	775	13.27		**Existing-** 2 CETPs of 55.2 MLD and are complying. **Proposed-** 3 CETPs of 30.5 MLD capacity.
Nuh	39	1.5		0
Palwal	76	7.7		0
Faridabad	592	8.94		**Existing-** 2 CETPs of 11.1 MLD are complying. **Proposed-** 2 CETPs of 115 capacity.
Total	**3474**	**121.11**		

The list is enclosed is as under:-

Sr. No.	Name of CETP	Capacity in MLD	Deptt.	Analysis report no. and date	Compliance status
River Yamuna					
1	IE Rai, Sonepat	5	HSIIDC	1140 dt. 10.06.2021	Complying
2	IE Barhi, Sonepat	16	HSIIDC	1144 dt. 10.06.2021	Complying
3	IE Kundli, Sonepat	4	HSIIDC	1141 dt. 10.06.2021	Complying
4	IE Murthal, Sonepat	0.2	HSIIDC	1143 dt. 10.06.2021	Complying
5	IMT Rohtak	10	HSIIDC	255-256 dt. 04.06.2021	Complying
6	IE Kutana, Rohtak	3	HSIIDC	Under trial run	
7	IE Panipat Refinery Complex, Panipat	2.5	HSIIDC	Could not be functional, due to Non availability of sufficient effluent	
8	HSIIDC Sector 16-17, Bahadurgarh	12.5	HSIIDC	282-283 dt. 04.06.2021	Complying
9	IMT faridabad	10.5	HSIIDC	53 dt. 17.05.2021	Complying
10	IMT Manesar, Gurugram	55	HSIIDC	112-113 dt. 18.05.2021	Complying
11	Sector-29, Panipat	21	HSVP	1137 dt. 10.06.2021	Complying
12	Sector-29, Panipat	21	HSVP	1138 dt. 03.06.2021	Complying
13	Faridabad Electroplaters Association	0.6	Private	54 dt. 17.05.2021	Complying
14	Industrial Area, Sector-37, Gurugram	0.2	Private	160-161 dt. 11.06.2021	Complying
River Ghaggar					
15	IE Barwala, Panchkula	0.5	HSIIDC	1129 dt. 11.06.2021	Complying
16	Ambala Cantt.	0.5	HSIIDC	1213 dt. 15.06.2021	Non Complying
17	Saha, Ambala	5	HSIIDC	1212 dt. 15.06.2021	Complying
18	I. E. Jind	0.1	HSIIDC	163-164 dt. 13.05.2021	Non Complying
Other areas					
19	IMT Bawal, Rewari	22.5	HSIIDC	2163-2164 dt.	Complying

Sr. No.	Name of CETP	Capacity in MLD	Deptt.	Analysis report no. and date	Compliance status
				09.04.2021	
	Total capacity	**190.1**			

V. **Solid Waste Management:**

- **Total number of Urban Local Bodies and their Population.**
  There are 88 Municipalities in Haryana and the population of all Municipalities is 92,11,050 as per Census 2011.

- **Current Municipal Solid Waste Generation.**
  5387 TPD
- **Number, installed capacity and utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg- Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting), bio methanation, MRF etc.**
  There are three existing operational centralized Waste to Compost (WTC) processing facilities in the State at Rohtak (150 TPD), Sirsa (50 TPD) & Karnal (150 TPD). Apart from the above, three Bio-Methanation Facilities are also operational in Faridabad, Panchkula and Radaur and one Bio-CNG plant is operational in Karnal. Further, there are 1800 compost pits in various MCs and there are also 1466 pits for horticulture waste. In addition, 12approx.. 2000 household pits have been constructed to encourage the households for home composting. For processing of dry waste 395 Material Recovery Facilities (MRF) has also been constructed in 39 Municipalities.

  Further, Waste to Energy Plant at ISWM Sonepat-Panipat Cluster is expected to achieve Commercial Operation Date by May, 2021.

- **Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%)**
  Integrated Centralized Waste Processing Approach (Cluster Wise) is being adopted as a long-term approach, with an overall objective to setup regional Waste to Energy, Waste to Compost + RDF processing facilities and Secured Sanitary landfills for scientific disposal of Solid Waste. This approach is more coveted considering the constraints posed by the decentralized approach and its sustainability over long run.
  As part of this approach, total 13 Clusters have been formed covering all the 87 ULBs of Haryana. Also, under this approach the projects will be set up on PPP mode and single agency/concessionaire will be responsible for Door to Door Collection, transportation, processing and disposal of Solid Waste for a concession period of 22 years.

Currently 2 Waste to Energy Cluster Projects namely Sonepat-Panipat and Gurugram-Faridabad have been awarded and construction of Sonepat-Panipat Cluster (500 TPD) Waste to Energy project is under progress and 60% construction have been finished with proposed tentative commissioning by March 2021. The Environmental Clearance of Gurugram-Faridabad (1500 TPD) Waste to Energy Projects has been granted. The construction of the plant is likely to start soon. Once commissioned these two projects alone will cater to 13approx. 40% processing of entire waste being generated in the state.

Remaining eleven (11) clusters are Open Technology Clusters. The details of 13 clusters are attached at **Annexure-3.**

- **No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction)**
  Presently Municipal Corporation, Gurugram has established a 300 TPD Construction and Demolition Waste processing plant at Village Basai and the capacity of the plant will be increased to 1500 TPD shortly. MC Gurugram has signed agreements with two private contractors to collect and transport the C&D waste from the household's level to the designated C&D waste Plant. This plant is also being utilised to process the C&D waste generated in MC Faridabad till a new plant is commissioned in Faridabad.

  Further, bids for setting up of C&D waste plant of 300 TPD in Faridabad have also been invited which are likely to be finalized by November, 2020 and plant is likely to be commissioned by November, 2021.

- **Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source**
  There are total 1540 wards in MCs of Haryana out of which 1467 wards have been covered with door to door waste collection services. Out of the total wards, source segregation has been initiated 1103 wards.

- **Details of MSW treatment facilities proposed and under construction (no., capacity, and technology).**
  Detail is already attached at Annexure-3.

- **No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills.**
  The detail of dumpsites attached at **Annexure-4**.

- **No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers.**
  No such data is available at present.

- **No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers**
  The drains of MCs don't falls directly into the rivers. They ultimately join the drains of irrigation and the drains of irrigation falls into the rivers. The MCs are installing the wire mesh in the drains to prevent the solid waste from falling into the drains. At present approximate 387 small drains have been provisioned with wire mesh screens.

Status of ULB wise Management of Solid Waste

ULB	Total MSW generation in TPD	Total MSW being processed in TPD	Existing MSW facilities	Utilization Capacity of the existing MSW facilities	Proposed MSW Facilities & Completion Timeline
88	5387	2375	03 having capacity 350 TPD apart from this MCs are adopting the pit/windrow composting for processing of waste.	350 TPD	13 ISWM clusters having capacity 5630 TPD. Out of which waste to energy plant of 500 TPD capacity at Sonepat is likely to be commissioned by April, 2021 and rest of the plants are likely to be commissioned by December, 2022.

VI. Bio-medical Waste Management:

- **Total Bio-medical generation:**
  As per the annual report for 2019, total 14810 kg/day bio medical waste is generated in State of Haryana.

- **No. of Hospitals and Health Care Facilities:**
  As per the annual report for 2019, there are 5526 no. of HCFs in State of Haryana.
- **Status of Treatment Facility/ CBMWTF**:
  As per the annual report for 2019, there are 11 no. of authorized CBWTFs/Treatment facilities in State of Haryana

VII. Hazardous Waste Management:

- **Total Hazardous Waste generation:** 220987.09 tons
- **No. of Industries generating Hazardous waste**- 4849
- **Treatment Capacity of all TSDFs**
  Incinerator (Kcal) - 2.5 Million.
  Landfill (MTA) – 32 years
- **Avg. Quantity of Hazardous waste reaching the TSDFs and Treated**

Hazardous waste reaching TFDFs	Hazardous waste treated

Landfill -14372 MT Incineration – 15150.8 MT	Landfill -14372 MT Quantity Incinerated – 0

- **Details of on-going or proposed TSDF-** Details given at **Annexure-5**

VIII. <u>Plastic Waste Management:</u>

- **Total Plastic Waste generation**:
  Approximate 520 TPD.
- **Treatment/ Measures adopted for reduction or management of plastic waste:**
  At present plastic waste is being channelized through MRF centres established in MCs.

IX. Details of Alternate Treatment Technology being adopted by the State/UT

The Nodal Department for execution of Bio/Phyto- Remediation idenfied. The SPV also asked the Department to submit the locations where the phyto remediation/bio-remediation wherever feasible.

ULB Department has started bio/phyto remediation works in the drains in Municipal Corporation, Yamuna Nagar – Jagadhri, as a pilot project, which will be replicated at other places. Municipal Corporation of Sonepat has also invited tenders for the bio/phyto remediation of drains. Similarly, Municipal Corporations of Gurugram and Faridabad are in the process of preparing the proposals for bio/phyto remediation. Municipal Corporation of Panipat has already floated the tenders for the process in their jurisdiction. GMDA has also initiated a pilot project as an interim treatment for untreated discharge of Leg I via geo-synthetic dewatering tubes in consultation with CPCB. PHED has undertaken the *in-situ* phyto/bio remediation in its new STPs at Indri and Beri. Chief Secretary, during the review meeting held, has also directed that all concerned Departments shall expedite the work on Bio/Phyto-Remediation.

X. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in situ treatment:

There are locations where the untreated/partially treated effluent is joining the main drains discharging into rivers. The action plans for control of pollution at these points is required to be submitted by Concerned Departments.

River Yamuna

Status of Action Plan Untreated Discharge Points Mixing to River Yamuna					
Sr. No.	**Department Name**	**Departme nt Points**	**Action plan not required/completed**	**Received Action Plan**	**Pending Points**
1	D&P	23	15	6	2

Status of Action Plan Untreated Discharge Points Mixing to River Yamuna					
Sr. No.	**Department Name**	**Departme nt Points**	**Action plan not required/completed**	**Received Action Plan**	**Pending Points**
2	HSIDC	2	2	0	0
3	HSPCB	23	6		17
4	HSVP	3	0	0	3
6	Industry Dept.	1	0	0	1
7	PHED	11	8	1	2
8	ULB	63	3	51	9
	Total	**126**	**34**	**58**	**34**

River Ghaggar

Sr. No.	Department Name	Department Points	Action plan not required/completed	Receive Action Plan	Pending Points
1	D&P	142	30	87	25
2	HSIIDC	2	2	-	0
3	HSVP	13	1	2	10
4	PHED	34	17	16	1
5	ULB	54	19	11	24
6	H.P. State	1		-	1
7	Industry Unit	3	1	-	2
8	department not known	3	0	0	3
9	Railway	1			1
10	Housing Board	1			1
11	HSPCB	1	0	0	1
	Total	**255**	**70**	**116**	**69**

XI. Details of Nodal Officer appointed by Chief Secretary in the State/UT:
Member Secretary, Haryana State Pollution Control Board.

XII. Details of meetings carried under the Chairmanship Chief of Secretary in the State/UT:
Regular CS meetings are being held to review the progress of Yamuna and Ghaggar Action Plans. 8 Meetings held so far on 29.08.2019, 20.12.2019, 05.02.2020, 13.03.2020, 22.06.2020 17.07.2020, 06.08.2020, 08.09.2020, 08.12.2020 and 12.02.2021.

XIII. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river.
<u>Ghaggar</u>

(a) Water quality and flow of major drains joining river Ghaggar

Sr. No.	Name of drain	latitude/ Longitude	Flow (in MLD)	BOD (mg/l)	F. Coli
1	Discharge of STP, Sec-28, Panchkula at Vill- Kakrali, Punjab. (PKL-RDQ-023)	30.642798, 76.874462	8.5	8.5	1100.0
2	MDC drain before entering into Punjab area near Raipur Kalan Temple carrying effluent of colonies of Haryana, Chandigarh, U.T (PKL-RDQ-033)	30.680110, 76.821592	16.5	125.0	46000.0
3	Singh Nallah choe before entring punjab near Mamta Enclave, Near Slaughter house Panchkula (PKL-RDQ-038)	30.664066, 76.843880	7.5	40.0	40000.0
4	Ambala Drain near Motor Market, Ambala City (AMB-RDQ-008)	30.388012, 76.790604	39.75	46.0	148000.0
5	Ghail drain at Samaspur, Ambala (AMB-RDQ-011)	30.333736, 76.667902	17.95	8.5	220000
6	Markanda River Bhagal Bridge. (Longitude 76026.218' and Latitude 30005.025') (KTL-RDQ-002)	Longitude 76026.218' and Latitude 30005.025'	127.1	37	180000
7	Cheeka Drain/Old Ghaggar Creek	Longitude 76.232452' and Latitude 30.064188'	29.09	42	210000
8	Sagar Para Drain before mixing in Ghaghar river, Village Sagra. (Longitude 76011.249' and Latitude 29052.976') (KTL-RDQ-011)	Longitude 76011.249' and Latitude 29052.976'	80.52	40	250000
9	Kaithal drain before mixing River Ghaggar at Khanauri. (Longitude 76006.831' and Latitude 29050.731')	Longitude 76006.831' and Latitude 29050.731'	6	43	170000
10	Discharge of Ratia Town through drain (Longitude 29.711468 and Latitude 75.551894)	Longitude 29.711468 and Latitude 75.551894	4	27	28000
11	Discharge of Jakhal (29.786392, 75.826893) (HSR-RDQ-002)	29.787241, 75.827388	3	8.9	21000
12	Discharge of 7.5 MLD STP PHED Ellenabad, Sirsa into River	29.489644, 74.741455	0.05	26	12000

Sr. No.	Name of drain	latitude/ Longitude	Flow (in MLD)	BOD (mg/l)	F. Coli
	Ghaggar (HSR-RDQ-018)				

(b) Water quality and flow of river Ghaggar

Sr. No.	Drains meeting with river Ghaggar	Latitude/ Longitude	Flow (In MLD) May, 2021	BOD(mg/l)	F.Coli (MPN/100ml)
1	Ghaggar River at Haryana Himachal Border (Ghaggar River at Morni) (PKL-RDQ-014)	30.742182/ 76.742182	68	8.2	11000
2	Ghaggar before meeting Kaushlaya River (Burajkottian Zone, Panchkula) (PKL-RDQ-015)	30.639975/ 76.872849	138	7.5	46000
3	Ghaggar River D/S after meeting Kaushalya River (NWMP-Station Code- 1885) (PKL-RDQ-017)	30.740980, 76.909826	168	2.8	700
4	U/s of Ghaggar river before meeting discharge of STP Sec-28 at Kakrali, Punjab. (PKL-RDQ-022)	30.613894/ 76.836044	230	7.5	1100
5	D/S of Ghaggar river after meeting discharge of STP Sec-28 at Kakrali, Punjab. (PKL-RDQ-024)	30.642798, 76.874462	238.5	8.5	130000
6	Ghaggar River before meeting Ambala Drain (AMB-RDQ-007)	30.402314, 76.743059	29.40	7.2	110
7	Ghaggar River after meeting Ambala Drain (AMB-RDQ-009)	30.398033, 30.398033	69.15	18	170
8	Ghaggar River before mixing Ghail drain at Samaspur (Ambala) (AMB-RDQ-010)	29.71135/ 75.552123	69.15	7	70
9	Ghaggar River after mixing Ghail Drain at Samaspur (Ambala) (AMB-RDQ-012)	30.332689, 76.668607	87.1	7.4	130
10	Ghaggar River before meeting river Markanda at Village Chiali. (Longitude 76025.974' and Latitude 30007.695') (KTL-RDQ-001)	Longitude 76025.974' and Latitude 30007.695'	90.9	41	320000
11	Ghaggar River after mixing Markanda River at village	Longitude 76022.571'	37.50	37	310000

Sr. No.	Drains meeting with river Ghaggar	Latitude/ Longitude	Flow (In MLD) May, 2021	BOD(mg/l)	F.Coli (MPN/100ml)
	Dhandota. (Longitude 76022.571' and Latitude 30005.410') (KTL-RDQ-003)	and Latitude 30005.410'			
12	Ghaggar River before mixing of cheeka Drain (Longitude 76.232452' and Latitude 30.064188') (KTL-RDQ-007)	Longitude 76.232452' and Latitude 30.064188'	218.00	43	350000
13	Ghaggar River after mixing of cheeka Drain (Longitude 76.232452' and Latitude 30.064188') (KTL-RDQ-008)	Longitude 76.232452' and Latitude 30.064188	43.60	42	210000
14	Ghaggar River before mixing Sagar Para Drain at Village Rasoli. (Longitude 76010.173' and Latitude 29054.305') (KTL-RDQ-010)	Longitude 76010.173' and Latitude 29054.305'	0	46	210000
15	Ghaggar River after mixing of Sagar Para Drain at Village Rasoli. (Longitude 76010.135' and Latitude 29053.548') (KTL-RDQ-012)	Longitude 76010.135' and Latitude 29053.548')	80.52	41	180000
16	River Ghaggar before mixing Kaithal drain at Khanauri. (Longitude 75000.061' and Latitude 29050.754') (KTL-RDQ-013)	Longitude 75000.061' and Latitude 29050.754'	0	50	310000
17	River Ghaggar after mixing Kaithal Drain into River Ghaggar. (Longitude 76006.663' and Latitude 29050.723') (KTL-RDQ-018)	Longitude 76006.663' and Latitude 29050.723'	6.00	40	280000
18	River Ghaggar before meeting discharge of Ratia. (HSR-RDQ-005)	29.693333, 75.580474	146.34	42	250000
19	River Ghaggar after meeting of discharge of Ratia. (HSR-RDQ-007)	29.716549, 75.549705	150.34	35	220000
20	River Ghaggar before meeting discharge of Jhakhal (29.786392, 75.826893) (HSR-RDQ-001)	29.786392, 75.826893	710.00	48	310000

Sr. No.	Drains meeting with river Ghaggar	Latitude/ Longitude	Flow (In MLD) May, 2021	BOD(mg/l)	F.Coli (MPN/100ml)
21	River Ghaggar after meeting discharge of Jhakhal (29.786392, 75.826893) (HSR-RDQ-003)	29.786392, 75.826893	713.00	36	280000
22	River Ghaggar before discharge of 7.5 MLD STP PHED, Ellenabad Sirsa (HSR-RDQ-017)	29.457123, 74.677554	-	40	250000
23	River Ghaggar after discharged of 7.5 MLD STP PHED, Ellenabad Sirsa (HSR-RDQ-019)	29.489821, 74.746049	-	31	120000

7 (C) Ground water quality status in the vicinity of river Ghaggar.

Ground water quality is being monitored at 78 locations in the catchment of river Ghaggar by HSPCB. Out of total 78 locations, ground water is found fit for drinking at 45 locations and non complying at 33 locations. Directions have already been conveyed to all the task forces to cap such water sources and a display board mentioning that “Water is not for drinking purpose” may be placed. The same has been compiled by the task forces.

Sr. No.	Region	No. of points monitored	Complying	Non-complying
1	Panchkula	7	7	0
2	Ambala	7	7	0
3	Jind	2	1	1
4	Kaithal	15	4	11
5	Kurukshetra	1	1	0
6	Hisar	5	2	3
7	Sirsa	23	15	8
8	Fatehabad	18	8	10
Total		**78**	**45**	**33**

River Yamuna

(a) Water Quality and flow of drains joining river Yamuna

Sr. No.	Name of drain	latitude/ Longitude	Flow (in MLD)	BOD (mg/l)	F.Coli
1	Dhanaura Escape before meeting River Yamuna, Village Jarauli, Karnal (KRN-RDQ-002)	29.73336, 77.12788	405.045	60	63000

Sr. No.	Name of drain	latitude/ Longitude	Flow (in MLD)	BOD (mg/l)	F.Coli
2	Drain No.2 before meeting river Yamuna at vill. Khojkipur (PNP-RDQ-008)	29.280218, 77.120858	75.2	115	94000
3	Drain no. 6 before entry in Delhi (SNP-RDQ-001)	28.890391, 77.109702	159.25	78	70000
4	Entry point of Mungeshpur drain in Delhi Territory, back side of Sainik School, Bypass, Bahadurgarh, Distt. Jhajjar (BDH-RDQ-001)	28.669716, 76.949466	61.15	45	390000
5	Entry point of KCB drain in Delhi Territory, Near MCD Toll Tax point, VPO-Lowa Siddhipur, Distt. Jhajjar (BDH-RDQ-002)	28.650667 , 76.937005	29.35	42	250000
6	Entry point of Drain No. 8 in Delhi Territory, Near Dhansa Store of Executive Engineer, Irrigation & Flood Control Deptt. of Delhi Govt., VPO-Lohat, Distt. Jhajjar (BDH-RDQ-003)	28.535362, 76.869600	29.91	29	96000
7	Leg I Drain, before meeting Najafgarh Drain Gurgaon (GRN-RDQ-002)	28.531019, 77.001858	1.03	39	30000
8	Leg II Drain, before meeting Najafgarh Drain Gurgaon (GRN-RDQ-005)	28.508322, 76.975010	5.19	38	27000
9	Leg III (Badshpur) Drain before meeting Najafgarh Drain Gurgaon (GRN-RDQ-008)	28.484470, 76.953334	202	30	34000
10	Budhiya Nala before meeting river Yamuna, at Vill. Manjhawali, Faridabad (FBD-RDQ-010)	28.382511, 77.481014	85.61	52	48000
11	Gaunchi Drain before River Yamuna, Palwal (PWL-RDQ-005)	27.914783, 77.517323	286.18	24	37300

(b) Water Quality and flow of river Yamuna

Sr. No.	Drains meeting with river Yamuna	latitude/ Longitude	Flow (in Cusecs)	BOD (mg/l)	F.Coli
1	River Yamuna before meeting Maskara Nallah, upstream, Kalanaur (YMN-RDQ-001)	29.726992/ 77.13079	UP	8.0	22000
2	River Yamuna after meeting Maskara Nallah, Down Stream, Kalanaur (YMN-RDQ-003)	30.068276, 77.348271		12	76000
3	River Yamuna before meeting Dhanaura Escape upstream, Karnal (KRN-RDQ-001)	29.73327/7 7.1277	352	2.6	170
4	River Yamuna after meeting Dhanaura Escape downstream, Karnal (KRN-RDQ-003)	29.72592 and 77.13278	381	5.6	210
5	River Yamuna before meeting the discharge of Drain No. 2 at Vill. Sanjoli (PNP-RDQ-007)		664.5	7.2	1100
6	River Yamuna after meeting the discharge of Drain No. 2 near Vill. Khojkipur. (PNP-RDQ-009)	28.86158/ 77.206427	674.5	2.2	Absent
7	River Yamuna before meeting Diversion Drain no. 8 (SNP-RDQ-002)	28.884931, 77.147185	97.84	7.2	400
8	River Yamuna after meeting Diversion Drain No. 8 at Palla (SNP-RDQ-004)	28.379079/ 77.486982	110.07	6.2	200
9	Yamuna River upstream before Budhiya Nalah at Vill. Manjhawali, Faridabad (FBD-RDQ-009)	28.384703, 77.489578	370	34	42000
10	Yamuna River downstream after meeting Budhiya Nalah at Vill. Manjhawali, Faridabad (FBD-RDQ-011)	28.372917, 77.487966	405	42	39000
11	River Yamuna D/S before Gaunchi Drain (PWL-RDQ-004)	27.914783, 77.517323	355	28	29000
12	River Yamuna D/S after Gaunchi Drain (PWL-RDQ-006)	27.909736, 77.521114	472	26	47000

(C) Ground water quality status in the vicinity of river Yamuna.

Ground water quality is being monitored at 54 locations in the

catchment of river Yamuna by HSPCB. Out of total 54 locations, ground water is found fit for drinking at 38 locations and non complying at 16 locations. Directions have already been conveyed to all the task forces to cap such water sources and a display board mentioning that “Water is not for drinking purpose” may be placed. The same has been compiled by the task forces.

Sr. No.	Region	No. of Points monitored	Complying	Non-Complying
1	Panipat	9	6	3
2	Faridabad	8	8	0
3	Ballabgarh	6	2	4
4	Palwal	8	4	4
5	Gurgaon South	10	10	0
6	Gurgaon North	8	8	0
7	Karnal	5	0	5
	Total	**54**	**38**	**16**

XIV. Ground water regulation:

The industries are being persuaded to obtain permission from CGWA for extraction of ground water.

XV. Good irrigation practices being adopted by the State:

The major demand for river water is for Irrigation purposes and accordingly the State of Haryana has taken initiatives for water efficient farming practices which are given as under:-

(a) Project of Recycle and Ruse of Treated Wastewater for Irrigation Purpose

Project was prepared under the guidelines of the scheme for "Ïncentivization Scheme for Bridging Irrigation Gap (ISBIG) of Ministry of water Resources, River Development and Ganga Rejuvenation, govt. of India" under components infrastructure for conveyance and additional treatment of municipal and industrial wastewater for augmenting water for the farm use "Project Under newly created Irrigation Efficiency in phasing during the financial year 2018-19 to 2020-2021 for amounting in Rs. 235.94 Crore only. 13 STPs with 157.60 capacity in the catchment of river Yamuna are selected for the project.

(b) Installation of community based solar/grid powered mirco-irrigaton infrastructure in existing canal commands

Six communities based solar/grid powered mirco-irrigaton facilities have been installed for Irrigation of 768 hectare land.

XVI. Demarcation of Floodplain and removal of illegal encroachments:

All the construction activities are banned on river Yamuna/Ghaggar Flood Plains and no encroachment on river Yamuna is allowed as per section 45

of Haryana Canal and Drainage Act, 1974. However, if any encroachment exists on river Yamuna/Ghaggar is immediately removed in accordance of this Act.

XVII. Maintaining minimum e-flow of river:

River Ghaggar

It is brought out that Ghaggar river is not a perennial river and discharge varies from zero to maximum during flood seasons. Around 15-20% of the lowest possible discharge in the lean season is required for maintaining E- flow. In our case the discharge varies from zero to maximum so maintaining E-flow is not possible. However, the monthly flow of all the major drains joining river Ghaggar is being measured regularly on monthly basis and quantity of flow is as under:

River Yamuna

It has been reported by the Irrigation and Water Resources Department, Haryana that as per MoU dated 12.05.1994 signed among the States of UP, Haryana, Rajasthan, Himachal Pradesh & NCT of Delhi, a minimum discharge of 352 cusec water is released in Yamuna river from Hathnikund barrage at lean period also to maintain the E-flow of river which was in accordance with the guidelines of Ministry of Water Resources, River Development & Ganga Rejuvenation, Govt. of India in compliance of the order of Hon'ble NGT dated 11.06.2015. However, in case excess discharge is received at HKB (in monsoon seasons) in comparison to capacity of channel, then this excess discharge is released into river Yamuna through Somb Nadi and the indented supply is released in the channel.

XVIII. Plantation activities along the rivers:

River Ghaggar

Urban an Estate Wise Plantation Done in HSVP Area

Sr. No.	Name of U/E	Plantation Done in the Year 2018-19	Plantation Done in Year 2019-20	Plantation Done in Year 2020-21
1	Panchkula	5000	7820	3993
2	Ambala	1500	3626	3344
3	Pehowa	0	0	0
4	Naraingarh	0	0	0
5	Kurukshetra	2000	3472	1870
6	MTS Gulha	0	0	0
7	MTS Pundri	0	0	0
8	Kaithal	1000	3160	1880

Sr. No.	Name of U/E	Plantation Done in the Year 2018-19	Plantation Done in Year 2019-20	Plantation Done in Year 2020-21
		9500	**18078**	**11087**

Plantation done in catchment of River Ghaggar by Forest Department in 2018-2019 and 2019-2020.

Detail of plantation in catchment areas of Ghaggar river				
	Plantation 2018-2019		**Plantation Target 2019-2020**	
District	**Ha.**	**No. of plants**	**Ha.**	**No. of plants**
Panchkula	1117	8,31,000	404	4,81,000
Fatehabad	1519	11,41,000	855	7,20,000
Sirsa	863	8,81,000	624	5,27,000
Total	3499	2853000	1883	1728000

Action plan for plantation in 2020-2021

Forest Department has selected around 51 villages in the catchment areas of river Ghaggar and has proposed to plant around 2.5 lakh plants in the coming season. The sites for development of Parks have also been identified and a plan has also been prepared. The details are as under:-

District	No of Villages	No. of Plants to be planted
Panchkula	30	71150
Ambala	2	43000
Kaithal	3	3650
Fatehabad	12	131930
Sirsa	4	9000
Total	**51**	**258730**

River Yamuna

Urban an Estate Wise Plantation Done in HSVP Area

Sr. No.	Name of U/E	Plantation Done in the Year 2018-19	Plantation Done in Year 2019-20	Plantation Done in Year 2020-21
1	Jagadhri / Yamunagar	500	1178	1347
2	Shahabad	0	0	0
3	Karnal	5000	2810	4900
4	Faridabad	14300	22490	14900
5	Palwal	100	300	360
6	Rojka Meo	500	100	64
		20400	**26878**	**21571**

Plantation done in catchment of river Yamuna by Forest Department in 2018-2019

and 2019-2020.

	Plantation 2018-2019		Plantation Target 2019-2020	
District	**Ha.**	**No. of plants**	**Ha.**	**No. of plants**
Yamuna Nagar	977	10,67,000	898	9,20,000
Karnal	543	4,91,000	844	6,48,000
Panipat	599	5,41,000	540	4,46,000
Sonipat	646	5,06,000	612	4,99,000
Faridabad	527	3,62,000	940	7,44,000
Palwal	264	2,22,000	386	2,98,000
Total	**3556**	**3189000**	**4220**	**3555000**

Action plan for plantation in 2020-2021

Forest Department has selected around 87 villages in the catchment areas of river Yamuna and has proposed to plant around 4.8 lakh plants in the coming season. The sites for development of Parks have also been identified and a plan has also been prepared. The details are as under:-

District	No of Villages	No. of Plants to be planted
Yamuna Nagar	27	222834
Karnal	13	111850
Panipat	9	65002
Sonepat	17	25700
Faridabad	5	17500
Palwal	16	36750
Total	**87**	**479636**

XIX. Development of biodiversity park:

River Ghaggar

District	Name	Areas in Acre.
Panchkula	i) World Herbal Forest, Morni	12500
	ii) Kapoor Vatika at Mallah	25
	iii) Thapli Herbal Park at Village Thapli	10
	iv) Tikka-Tal Herbal Park	20
Fatehabad	i) Mulethi Vatika at Gilakhera	14
	ii) Er. Kanwar Sain Gupta Herbal Park at Tohana	25
Sirsa	i) Bahera Vatika at Village Fulkan Village	17
Total		**12611**

River Yamuna

District	Names	Area in Acre
Yamuna Nagar	i) Rudraksh Vatika at village Chuharpur	184
	ii) Adi Badri Herbal Park	10
Karnal	i) Ashok Vatika at Gharaunda	5

District	Names	Area in Acre
	ii) Indri Herbal Park	10
Panipat	i) Bilva Vatika at Pati Kalyana Village	14
Sonipat	ii) Amaltas Vatika Pati Kalyana Village	8
	ii) Khanpur Kalan Herbal Park	12
Faridabad	i) Ratanjot Vatika at Gurugram Canal at Faridabad	10
Palwal		0
Total		**253**

XX. Reuse of Treated Water:

The State has also prepared the action plan for reuse of treated sewage and same is submitted to CPCB. As per the action plan, approx 80% of treated sewage will be reutilized by 2024-2025.

Irrigation & Water Resources Department has formulated a project costing Rs. 500.00 crore for 35 STPs having capacity of 338.85 MLD for use of treated waste water for irrigation – Details of 35 STPs collected from I&WR attached as **Annexure-6.**

XXI. Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:

Both Ghaggar and Yamuna river stretches.

XXII. Status of Preparation of Action Plan by the 13 Coastal States:

NA

XXIII. Regulation of Mining Activities in the State/UT:

Action taken report in compliance with the Environment & Monitoring Guidelines for Sand Mining Policy, 2020.

District	Period	Vehicle seized in illegal mining/illegal transportation of mineral	Vehicle released	Penalty imposed	Compliant lodged against illegal minors	FIR lodged against illegal minors
PKL	Nov-20	4	1	211500	0	0
	Dec-20	1	2	631000	0	0
	Jan-21	7	3	943850	0	0
YNR	Nov-20	38	20	6061000	33	17
	Dec-20	59	25	8514142	28	23
	Jan-21	58	13	3659000	31	27
PNP/KNL	Nov-20	20	13	3910000	0	0
	Dec-20	30	26	6260000	0	0
	Jan-21	12	9	2014000	0	0
SNP	Nov-20	33	24	6162850	2	0
	Dec-20	46	24	6382135	1	0
	Jan-21	43	22	6574875	1	0

FBD/PWL	Nov-20	6	9	2271744	0	0
	Dec-20	4	11	3746790	0	0
	Jan-21	1	8	1360300	0	0
	Total	362	210	58703186	96	67

Now, information for the month of Feb, 2021 have been prepared as per table given below:

District	Vehicle seized in illegal mining/illegal transportation of mineral	Vehicle released	Penalty imposed	Compliant lodged against illegal minors	FIR lodged against illegal minors	Remarks
KKR/KTL	10	5	1556000	0	0	
FBD/PWL	530	397	107854788	0	0	
PNP/KNL	16	13	3221000	0	0	
SNP	19	37	11131750	1	0	
AMB	12	5	1529500	0	2	
PKL	19	7	1521000	1	1	
YNR	40	13	3368000	36	10	To be confirmed in 26 complaints whether FIR lodged or not.
Total	**646**	**477**	**13,01,82,038**	**38**	**13**	

Apart from above information, the concerned field officers have also provided the status of running mines under Ghaggar Action Plan/River Action Plan. The districtwise status of such mines are as under:-

Sr. No.	Name of District	Name of mines	Violation if any	Action taken by field officer
1	Panchkula	M/s Tripati Roadways-Rattewali	No violation reported.	
		M/s Ganesh Royalty Co (Charnia Block-4)	Defaulted in payment	Defaulted in payment of contract money from June, 2020 to todate. Notice issued on 19.02.2021 but only part payment deposited.
		M/s Shiv Enterprises (Sukhdarshanpur Block-13)	No violation reported	

Sr. No.	Name of District	Name of mines	Violation if any	Action taken by field officer
2	Ambala	No operational mines		
3	Yamuna Nagar	M/s Tripati Earth & Project Pvt. Ltd. (Block Nagla Rangran)	No violation reported	
		M/s Joginder Singh S/o Mohinder Singh (Block Gumthla North)	Defaulted in payment	Defaulted in paying contract money but mine was suspended & revoked.
		M/s Elite Mining Corporation (Block Gumthla south)	No violation reported	
		M/s Development strategies India Pvt. Ltd. (Block Pobari)	Defaulted in payment	Contract money (CM) not paid since 01.12.2020 to date.
		M/s Kawaljeet Singh Batra (Block- MT Karehra)	No violation reported	
		M/s MP traders (Block Nagli)	No violation reported	
		M/s Joginder Singh S/o Mohinder Singh (Block- Gumthla south)	No violation reported	
		M/s P.S Builtech (Block Jathlana)	No violation reported	
		M/s Astin Excavation & Mining Pvt. Ltd. (Unit-II)	Defaulted in payment	Not paid CM from 01.08.2020 to date but mine suspended and revoked
		M/s JPY Consortium Pvt. Ltd. (Block Dhanoura)	Defaulted in payment	Not paid CM from 01.04.2020 to 31.03.2021 E-rawana suspended & later on revoked.
		M/s Routes & Journeys (Block-Beer Tapu)	Defaulted in payment	Defaulted in payment from 01.11.2020 to 31.03.2021. Mines suspended & revoked later on.
		M/s JSM Pvt. Ltd. (Block- Mandoli Ghaggar East)	Defaulted in payment	Defaulted in payment from 01.12.2020 to 31.03.2021.
		M/s JSM Pvt. Ltd. (Block- Mandoli Ghaggar West)	Defaulted in payment	Defaulted in payment from 01.12.2020 to 31.03.2021.
		M/s Mubarikpur Royalty Company (Block – Bailgarh South)	Defaulted in payment	Defaulted in payment from 01.01.2021 to 31.03.2021.
		M/s P.S. Buitech	Defaulted	Defaulted in payment from

Sr. No.	Name of District	Name of mines	Violation if any	Action taken by field officer
		(Block-Kanalsi)	in payment	01.11.2020 to 31.03.2021.
4	Kurukshetra	No operation mines		
5	Panipat/ Karnal	M/s Jai Yamuna Ji Developers	No violation reported	
6	Sonepat	M/s Anand Singh and Co (Tikola-2)	No violation reported	
		M/s Yodha Mines and Minerals (Jainpur-2)	No violation reported	
7	Faridabad/ Palwal	No operational mines		

XXIV. Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring.

Action by HSPCB

- ✓ **Ghaggar**
  - No. of industries inspected - 223
  - No. of closure order issued against violating units - 205
  - No. of violating units prosecuted - 43
  - No. of violating units against whom EC imposed - 27
  - Amount of EC Imposed - 3.55 Crore
  - Charge sheet issued against 1 Environmental Engineer & 1 Assistant Environmental Engineer for failure for vigorous monitoring.

- **Yamuna**
  - No. of industries inspected - 1011
  - No. of closure order issued against violating units - 785
  - No. of violating units prosecuted - 182
  - No. of violating units against whom EC imposed - 112
  - Amount of EC Imposed -30.91 Crore

Annexure-1

Status of existing STPs in the catchment of river Ghaggar

Sr. No.	Name and Region of STPs	Existing STP and Capacity (MLD)	A/R No. and date	Latest Compliance Status
1	3.00 MLD STP Naya Gaon , Unit.I , Ambala City by PHED in Janurary, 2011	3	1200 dt. 08.06.2021	Complying except Faecal Coliform
2	3.25 MLD STP Naya Gaon , Unit.II Ambala City by PHED in 1.4.2016	3.25	1204 dt. 08.06.2021	Complying except Faecal Coliform
3	5 MLD Baldev Nagar , Unit.I , Ambala City by PHED 1.12.2012	5	1206 dt. 08.06.2021	Complying except Faecal Coliform
4	3.25 Baldev Nagar , Unit.II ,Ambala City by PHED in 1.4.2016	3.25	1207 dt. 08.06.2021	Complying except Faecal Coliform
5	5 MLD Moti Nagar, Unit.I , Ambala City by PHED in June 2010	5	1208 dt. 08.06.2021	Complying except Faecal Coliform
6	5 MLD STP Moti Nagar , Unit.II , Ambala City by PHED Ambala in 1.8.2016	5	1205 dt. 08.06.2021	Complying except Faecal Coliform
7	6 MLD STP Modal Town, Ambala City by PHED in 1.7.2012	6	1202 dt. 08.06.2021	Complying except Faecal Coliform
8	3.25 Nasirpur Ambala City by PHED in 31.9.2016	3.25	1203 dt. 08.06.2021	Complying except Faecal Coliform
9	0.25 MLD Sadopur , Ambala PHED in 31.12.2016	0.25	1198 dt. 08.06.2021	Complying
10	3.00 MLD Devi Nagar , Ambala City by PHED on 31.5.2013	3.25	1201 dt. 08.06.2021	Complying except Faecal Coliform
11	3 MLD STP Nariangarh , Ambala by PHED in 1.7.2014	3	1199 dt. 08.06.2021	Complying except Faecal Coliform
12	25 MLD STP Thanesar, Kurukshetra by PHED in 31.05.2019	25	1192 dt. 04.06.2021	Complying
13	8 MLD STP Model Town , Pehowa Kurukshetra by PHED in May dt. 2015	8	1190 dt. 04.06.2021	Complying except Faecal Coliform
14	11.5 MLD STP Ladwa Road , Shahbad Kurukshetra by PHED in May, 2016	11.5	1191 dt. 04.06.2021	Complying
15	4.5 MLD Kalka Panchkula by	4.5	1093 dt.	Complying

Sr. No.	Name and Region of STPs	Existing STP and Capacity (MLD)	A/R No. and date	Latest Compliance Status
	PHED in 30.3.2015		24.05.2021	except Faecal Coliform
16	0.25 MLD Kalka Panchkula by PHED in 28.5. 2017	0.25	1094 dt. 24.05.2021	Complying except Faecal Coliform
17	5 MLD STP Nalagarh Road, Manakpur, Pinjore Panchkula by PHED 31.1.2015	5	1095 dt. 24.05.2021	Complying except Faecal Coliform
18	15 MLD STP by PHED Jind in Jan, 2009	15	324-325 dt. 15.06.2021	Complying except Faecal Coliform
19	3.5 MLD Patiala Road , Narwana by PHED in Jan , 2011	3.5	235-236 dt. 31.05.2021	Complying except Faecal Coliform
20	3.75 MLD STP Narwana Jind by PHED in Jan , 2011	3.75	340-341 dt. 16.06.2021	Complying except Faecal Coliform
21	02 MLD STP, PHED , Dablain Road, Narwana, Jind (24.5.2017)	2	233-234 dt. 31.05.2021	Complying except Faecal Coliform
22	2 MLD STP Uchana Jind by PHED in 22.2.2012	2	237-238 dt. 31.05.2021	Complying except Faecal Coliform
23	1.5 MLD Uchana by PHED in 31.5.2013	1.5	245-246 dt. 01.06.2021	Complying except Faecal Coliform
24	5 MLD STP Jind by PHED in 1.4.2016	5	322-323 dt. 15.06.2021	Complying except Faecal Coliform
25	7 MLD STP, Jind by PHED in 30.11.2019	7	268-269 dt. 03.06.2021	Complying except Faecal Coliform
26	9 MLD STP Safidon , Jind by PHED in 31.05.2018	9	266-267 dt. 03.06.2021	Complying except Faecal Coliform
27	10 MLD STP Cheeka, Kaithal by PHED in 1.4.2013	10	219-220 dt. 29.05.2021	Complying except Faecal Coliform
28	10 MLD STP , Jind Road Kaithal by PHED in September , 2012	10	209-210 dt. 29.05.2021	Complying except Faecal Coliform
29	10 MLD STP Manas Road, Kaithal by PHED in June , 2006 (MBBR)	10	215-216 dt. 29.05.2021	Complying except Faecal Coliform
30	10 MLD Manas Road,Kaithal bby	10	213-214 dt.	Complying

Sr. No.	Name and Region of STPs	Existing STP and Capacity (MLD)	A/R No. and date	Latest Compliance Status
	PHED in Sep , 2012 (SBR)		29.05.2021	except Faecal Coliform
31	5 MLD STP Kalayat , Kaithal by PHED in 1.4.2014	5	207-208 dt. 29.05.2021	Complying except Faecal Coliform
32	3.5 Pundri Kaithal by PHED in 4.7.2014	3.5	211-212 dt. 29.05.2021	Complying except Faecal Coliform
33	15 MLD STP Azad Nagar, Rajgarh Road Hisar by PHED in 31.12.2014	15	95-96 dt. 27.04.2021	Complying except Faecal Coliform
34	40 MLD STP Rishi Nagar , Hisar by PHED in 02.12.2017	40	91-92 dt. 27.04.2021	Complying except Faecal Coliform
35	4 MLD STP Narnaund, Hisar by PHED	4	101-102 dt. 27.04.2021	Complying except Faecal Coliform
36	4 MLD STP Kaimri Road, Hisar by PHED in 2018	4	103-104 dt. 27.04.2021	Complying except Faecal Coliform
37	15 MLD STP, Shamsabad patti , Kalania Road, Sirsa by PHED in 1.7.2012	15	197-198 dt. 27.05.2021	Complying except Faecal Coliform
38	5 MLD STP ,Vill. Nattar 1 , Sirsa by PHED in 1.5.2013	5	189-190 dt. 27.05.2021	Complying except Faecal Coliform
39	5 MLD STP , Vill. Nattar 2 , Sirsa by PHED in 14.09.17	5	191-192 dt. 27.05.2021	Complying except Faecal Coliform
40	7.5 MLD STP Ellenabad Sirsa by PHED in 11.5.2015	7.5	193-194 dt. 27.05.2021	Complying except Faecal Coliform
41	9.5 MLD STP, Daddu Road,Kalanwali , Sirsa by PHED in 17.02.2018	9.5	249-250 dt. 01.6.2021	Complying except Faecal Coliform
42	6 MLD STP Rania Sirsa by PHED in 30.6.2017	6	199-200 dt. 27.05.2021	Complying except Faecal Coliform
43	16.5 MLD STP Dabwali, Sirsa by PHED in 04.12.2017	16.5	251-252 dt. 01.6.2021	Complying except Faecal Coliform
44	20 MLD STP at Kelnia Sirsa by PHED	20	195-196 dt. 27.05.2021	Complying except Faecal Coliform
45	10 MLD STP Vill. Bhodia Khera,	10	173-174 dt.	Complying

Sr. No.	Name and Region of STPs	Existing STP and Capacity (MLD)	A/R No. and date	Latest Compliance Status
	Bhattu Road,Fatehabad by PHED in 1.4.2013		21.05.2021	except Faecal Coliform
46	10 MLD STP Vill.Amani, Tohana, Distt. Fatehabad by PHED in 1.4.2013	10	169-170 dt. 21.05.2021	Complying except Faecal Coliform
47	6.5 MLD STP Ratia , Fatehabad by PHED in 1.9.2014	6.5	179-180 dt. 21.05.2021	Complying except Faecal Coliform
48	5 MLD STP Kharati Khera Road, Fatehabad by PHED in 31.10.2018	5	175-176 dt. 21.05.2021	Complying except Faecal Coliform
49	3 MLD STPJhakhal Mandi, Fatehabad by PHED in 30.9.2019	3	177-178 dt. 21.05.2021	Complying except Faecal Coliform
	HSVP			
1	2 MLD STP Sec.7 , Urban Estate , Ambala City Ambala by HUDA in 10.9.2015	2	1196 dt. 08.06.2021	Complying except Faecal Coliform
2	18 MLD STP Panchkula by HUDA in 31.12.2002	18	1096 dt. 24.05.2021	Complying except Faecal Coliform
3	39 MLD STP Panchkula by HUDA in Nov. 2011	39	1098 dt. 24.05.2021	Complying except Faecal Coliform
4	15 MLD STP Sector- 28, Panchkula by HUDA in 2012	15	1097 dt. 24.05.2021	Complying except Faecal Coliform
5	10 MLD by HUDA Jind in 27.12.2014	10	243-244 dt. 31.05.2021	Complying except Faecal Coliform
6	7.5 MLD Kaithal by HUDA in 31.8.2016	7.5	217-218 dt. 29.05.2021	Complying except Faecal Coliform
7	15 MLD STP Dabara Tosham Road , Hisar by HUDA in 31.7.2014	15	93-94 dt. 27.04.2021	Complying except Faecal Coliform
8	10 MLD STP Majra, Fatehabad by HUDA in 16.12.17	10	171-172 dt. 21.05.2021	Complying
9	15 MLD STP Kurukshetra by HSVP	15	1190 dt. 04.06.2021	Complying
10	5 MLD STP Ambala by HSVP	5	Trial Run	
ULBD				
1	8 MLD STP Village Dabra by ULBD	8	Trial Run	
Garrison Engineer				

Sr. No.	Name and Region of STPs	Existing STP and Capacity (MLD)	A/R No. and date	Latest Compliance Status
1	9 MLD STP Garrison Engineer , Chandimandir Panchkula in April 2012	9	1092 dt. 24.05.2021	Complying except Faecal Coliform
	Total No. of STPs- 61			
	Grand Total Capacity- 527.25	**527.25**		

Annexure-2

Status of existing STPs in the catchment of river Yamuna

Sr. No.	Name of the STP	Capacity	A/R No. and Date	Latest compliance status
1	Radaur Road, Yamuna Nagar by PHED	20	1211 dt. 09.06.2021	Complying except Faecal Coliform
2	Radaur Road, Yamuna Nagar by PHED	25	1210 dt. 09.06.2021	Complying except Faecal Coliform
3	Baddimajra, Yamuna Nagar by PHED*	10	1209 dt. 08.06.2021	Complying except Faecal Coliform
4	Parwaloo, Jagadhri Yamuna Nagar by PHED	24	1194 dt. 04.606.2021	Complying
5	Chhachhrauli Yamuna Nagar by PHED	3	1167 dt. 02.06.2021	Complying except Faecal Coliform
6	Radaur Yamuna Nagar by PHED	3.5	1168 dt. 02.06.2021	Complying except Faecal Coliform
7	Indri Road, Ladwa Kurukshetra by PHED	7	1189 dt. 03.06.2021	Complying
8	Indri, Karnal by PHED*	4	1152 dt. 01.06.2021	Complying except Faecal Coliform
9	Nilokheri, Karnal by PHED	6	1148 dt. 01.06.2021	Complying except Faecal Coliform
10	Nissing Karnal by PHED	4	1150 dt. 01.06.2021	Complying except Faecal Coliform
11	Tarori Karnal by PHED	5.5	1146 dt. 01.06.2021	Complying except Faecal Coliform
12	Gharaunda, Karnal by PHED	7	1145 dt. 01.06.2021	Complying except Faecal Coliform
13	Sewah, Panipat by PHED	35	1139 dt. 31.05.2021	Complying except Faecal Coliform
14	Sewah, Panipat Panipat by PHED	25	1135 dt. 31.05.2021	Complying except Faecal Coliform
15	Jattal Road, Panipat by PHED	20	1132 dt. 31.05.2021	Complying except Faecal Coliform
16	Jattal Road, Panipat by PHED	10	1134 dt. 31.05.2021	Complying except Faecal Coliform
17	Samalkha by PHED	5	1136 dt. 31.05.2021	Complying except Faecal Coliform
18	Kharkhoda Sonepat by PHED	4.5	1158 dt. 02.06.2021	Complying except Faecal Coliform
19	Ganaur Sonepat	7	1157 dt. 02.06.2021	Complying except Faecal Coliform
20	Gohana Sonepat by PHED	3	1156 dt. 02.06.2021	Complying except Faecal Coliform
21	Gohana Sonepat by PHED	8.3	1155 dt. 02.06.2021	Complying except Faecal Coliform
22	PGI Rohtak by PHED	19.5	264-265 dt. 03.06.2021	Complying except Faecal Coliform

Sr. No.	Name of the STP	Capacity	A/R No. and Date	Latest compliance status
23	Sonaria, Rohtak by PHED	40	156-157 dt. 10.05.2021	Non Complying (30 BOD)
24	Kalanaur Rohtak by PHED	3.5	260-261 dt. 03.6.2021	Complying except Faecal Coliform
25	Meham Rohtak by PHED	5	262-263 dt. 03.6.2021	Complying except Faecal Coliform
26	Singhpura, Rohtak by PHED	14	257-258 dt. 03.06.2021	Complying except Faecal Coliform
27	Sampla Rohtak by PHED	4	253-254 dt. 01.06.2021	Complying except Faecal Coliform
28	Jhajjar by PHED	5	278-279 dt. 03.06.2021	Complying except Faecal Coliform
29	Jhajjar by PHED	5.5	280-281 dt. 03.06.2021	Non Complying
30	Beri Jhajjar by PHED	2	1313-1314 dt. 22.02.2021	Complying except Faecal Coliform
31	Line Par, Bahadurgarh by PHED	18	276-277 dt. 03.06.2021	Non Complying
32	Najafgarh road Bahadurgarh by PHED	36	284-285 dt. 03.06.2021	Complying except Faecal Coliform
33	Tarou by PHED	4.5	58 dt. 28.05.2021	Complying except Faecal Coliform
34	Punhana by PHED	4.5	61 dt. 04.06.2021	Complying except Faecal Coliform
35	Nuh by PHED	3.6	64 dt. 04.6.2021	Complying except Faecal Coliform
36	Ferozpur Jhirka by PHED	5	62 dt. 04.06.2021	Complying except Faecal Coliform
37	Hassanpur by PHED	3	63 dt. 04.06.2021	Non Complying (10 BOD)
38	Hathin by PHED	4.5	60 dt. 04.06.2021	Complying except Faecal Coliform
39	Hodal by PHED	9	65 dt. 04.06.2021	Non Complying (10 BOD)
40	Palwal by PHED	9	66 dt. 04.06.2021	Complying except Faecal Coliform
41	Gogharipur Road, karnal by ULB	10	1149 dt. 01.06.2021	Complying except Faecal Coliform
42	RK Puram, Karnal by ULB	8	1153 dt. 01.06.2021	Complying except Faecal Coliform
43	Transport Nagar, Karnal by ULB*	50	1147 dt. 01.06.2021	Complying except Faecal Coliform
44	Shiv Colony, Karnal, by ULB	8	9 dt. 14.01.2021 (Under upgradation)	Complying except Faecal Coliform

Sr. No.	Name of the STP	Capacity	A/R No. and Date	Latest compliance status
45	Rathdana Road, Sonepat by ULB	30	3775 dt. 22.09.2020	Complying except Faecal Coliform
46	Kakroi Road, Sonepat by ULB	25	3774 dt. 22.09.2020	Complying except Faecal Coliform
47	Singhpura, Rohtak by ULB*	10	TP has been inspected on 25.07.2020 and found under maintenance, the effluent is being treated through 14 MLD STP installed in the same premises.	
48	Badshahpur, Faridabad by ULB	45	76 dt. 15.06.2021	Non-complying
49	Sec-19, Panipat by HSVP	30	1133 dt. 31.05.2021	Complying except Faecal Coliform
50	Sec-6, Panipat by HSVP	0.8	1131 dt. 31.05.2021	Complying except Faecal Coliform
51	Rajiv Gandhi Edu. City, Phase-I, Sonepat by HSVP	7.5	1142 dt. 01.6.2021	Complying except Faecal Coliform
52	Sec-25, Rohtak by HSVP	10	259 dt. 03.06.2021	Non-complying
53	Sec-36, Bahadurgarh by HSVP	10	146-147 dt. 04.05.2021	Complying except Faecal Coliform
54	Faridabad by HSVP	7.5	Trial Run	
55	Dhanwapur, Gurgaon by GMDA	50	199-200 dt. 15.06.2021	Complying
56	Dhanwapur, Gurgaon by GMDA	68	99-100 dt. 17.05.2021	Complying except Faecal Coliform
57	Behrampur, Gurgaon by GMDA	120	116-117 dt. 18.05.2021	Complying except Faecal Coliform
58	Behrampur, Gurgaon by GMDA	50	114-115 dt. 18.05.2021	Complying except Faecal Coliform
59	Dhanwapur, Gurgaon by GMDA	100	95-96 dt. 17.05.2021	Non Complying (10 BOD)
	Total	**1072.2**		

Annexure-3

13 Clusters of ISWM in river catchment

Sr. No.	Name of Clusters	Name of ULBs within Cluster	Estimated Waste Quantity (TPD)	Remarks
1	Gurugram-Faridabad	Gurugram and Faridabad	1500	Works has been awarded and work is likely to be completed by December 2022.
2	Sonepat-Panipat	Sonepat, Panipat, Samalkha and Gannaur.	500	Work in progress and likely to be completed by April, 2021.
3	Ambala-Yamunanagar	Ambala, Naraingarh, Yamuna Nagar, Radaur, Barara, Sadhura	675	Haryana was divided into 14 clusters for setting up integrated solid waste management plant in the state. But in some places, the distance of the plant from the place of dumping site is not available due to the lack of a site, the technology of the plant, etc., the project could not be successfully allotted, hence, keeping these issues / facts in mind, restructuring the clusters and integrated solid waste management Keeping the technology free of the plant, the proposal has been approved in the meeting of Committee of Secretaries on Infrastructure (CoSI). Now the department has restructured the clusters and kept the Bidders free to choose any technology for the processing of waste. The same proposal was kept before the COSI for consideration in the meeting dated 08.07.2020 and the same was recommended by them for approval to the Sub-Cabinet Committee on Infrastructure (CCI) for approval being PPP Projects.In the meeting of CCI held on 21.10.2020 under the chairmanship of Hon'ble CM, the Committee agreed and approved the recommendations of COSI in the meeting dated 08.07.2020 and decided that the ULB department will go ahead and call the tenders for the 4 clusters in the first phase with the
4	Karnal-Kaithal-Kurukshetra	Indri, NilokheriTarori, Karnal Gharaunda, Nissing, Assandh, Thanesar, Shahbad, Ladwa, Kaithal, Kalayat ,Rajound, Cheeka ,Pundri	590	
5	Rohtak-Bahadurgarh-Jhajjar	Kalanaur, Meham, Rohtak, Gohana, Bahadurgarh, Kharkhoda, Julana, Jhajjar, Sampla, Beri	601	
6	Hisar-Fatehabad	Hisar, Barwala, Hansi, Siwani, Fatehabad, Bhuna, UklanaMandi, Ratia,Tohana, JhakalMandi	407	
7	Panchkula	Panchkula	155	
8	Bhiwani	Bhiwani, Bawanikhera, CharkhiDadri	181	

Sr. No.	Name of Clusters	Name of ULBs within Cluster	Estimated Waste Quantity (TPD)	Remarks
				existing project area in the RFP and
				Simultaneously invite the tenders for the same 4 clusters by adding/including the Panchayats of the districts under the project area. After getting the response of the Bidders and the tipping fees, either of 2 bids will be selected by the Department of ULB for grant of concession as per efficiency, economy and viability. In compliance of the directions issued in the meeting of CCI on 24.11.2020 a meeting under the chairmanship of ACS, ULB was convened with PS Development and Panchayat Department in which PS DP was requested to submit the proposal consisting of details of Panchayats, land parcels for secondary collection from group of village etc. which is proposed to be incorporated in the existing project areas of the ISWM Clusters of ULB Department. After receipt of the same details the RFP documents shall be prepared and tenders will be invited for the clusters of First Phase as per the directions of CCI.
9	Jind	Jind, Narwana, Safidon, Uchana, Narnaund, Sisai, Bass	168	
10	Sirsa	Sirsa, Rania, Ellenabad, Kalanwali, MandiDabwali	146	
11	Rewari	Bawal, Dharuhera, Rewari, Mahendergarh, Kanina	466	
12	Punhana	Punhana, F/Jhirka, Hathin, Hodal, Palwal, Sohna, Nuh,Tauru	215	
13	Farukhnagar	Farukh Nagar, HailyMandi, Pataudi	26	
		Total	**5630**	

Annexure-4

Details of Dump Site

Sr. No.	Name of MC	Dumpsite Location	Area Coverred (In Acre)	Height (in Mtr.)	Quantity (in Lakh MT)	Date since the dumpstie is in operation	Remarks
1	Hisar	Opp. Village Dhandoor	13.32	4.01	1.3	9 years	
2	Gurugram	Village Bandhwari Gurgaon Faridabad Road	30	Approx 40.00	27.5 (approx)	2008 onwards	Bandhwari dumpsite was establised and operated by MC Faridabad through its contractor i.e AKC Developers and operated till 2014. further in year 2017 M/s Ecogreen was enagaged for collection, transportation of MSW for MCG & MCF)Faridabad & Gurugram Cluser) and possession of bandwari site is with them since 2019
3	Ambala city	VPO Patvi, Teh. Naraingarh	14	height-6 Mtr Depth-4 Mtr	6		
4	Panipat	Near Village Nimbri, Distt. Panipat	8	2	5	2014	-
5	Sirsa	Village Bakirawali SWM Plant	13	11	4	14 Years	
6	Panchkula	Nera IT Park Sector-23 Panchkula	10.5	4	3.96	14 Year's (2004 onwards dumping started)	
7	Rohtak	Near SWM plant, Drain No. 8,Bhiwani Road, Village	10	4	3.95	2010	

Sr. No.	Name of MC	Dumpsite Location	Area Coverred (In Acre)	Height (in Mtr.)	Quantity (in Lakh MT)	Date since the dumpstie is in operation	Remarks
		Sunarian, Rohtak Ward NO. 22					
8	Bahadurgarh	Naya Gaon, Badli Road	7.2	3	3.2	Since 2004	
9	Yamunanagar-Jagadhri	Kail Kachra Plant	12	2.5	1.76 Approx	21.12.2012 to 14.12.2013 (Plant is not working from 14.12.2013 to till date.)	-
10	Jind	Near Delhi Ferozpur Railway Line	18.12	2.13	1	1996	
11	Shahabad (M).	Village Kalyana	0.48	4.9	0.11	19.12.2018	Land on lease basis.
12	Narnaul	Raghunathpura	16	15	0.59	Since 2001	
13	Safidon	Near Assandh By Pass back of New Grain Market Safidon	0.06	0.9	0.006	Since Sep-2019	
14	Ratia	Jakhal Dadi Road	4	1	0.11	2017	area covered 30 %
15	Rania	Balasar Raod, Back Side Nirankari Bhawan, Ward No. 02, Rania.	3.3	2.1	0.14	Year 2018	10 Feet Depth of the Site
16	Rajound	Gas Agency Road, Ward 03 Rajound	0.14	1	0.002	43718	-
17	Radaur	SK Road Radaur	1	-	0.003	09.02.2016	-
18	Palwal	Meghpur Village	1.48	Height= 1.25 Mtr. Depth=2.10 Mtr. Total= 3.35 Mtr.	0.12	Year 2017	

Sr. No.	Name of MC	Dumpsite Location	Area Coverred (In Acre)	Height (in Mtr.)	Quantity (in Lakh MT)	Date since the dumpstie is in operation	Remarks
19	Nilokheri	Kali Mata Mandir Road	2	2.33	0.18	Approximately 8-10 Year	
20	Nangal Chaudhary	Near Krishnawati River Nangal Chaudhary	0.7	0.9	0.015	Since 2013	-
21	Meham	Hisar Bye Pass, Meham	1.48	3.25	0.087	2013	
22	Ladwa	On Babain Road	6.26	1.5	0.001	43800	-
	Kanina	Pipla Wali Bani (Gahra Road)	25	1.5	0.068	2010	
23	Kanina	Manka Wali Bani (Sihor Road)	8	1.5	0.034	2009	
24	Julana	Near Hadwara Julana	1	6	0.05	25.11.2019	-
25	Faridabad	Bandhwari Dumpsite is Common Dumpsite for MCG and MCF.					
26	Gharaunda	Begampur	1.19	10	0.23	Oct. 2019	
27	Ferozpur Jhirka	Doodh Ghati	1	NIL	0.2	2006	-
28	Fatehbad	Bighar Road, Village Matana, Fatehabad	1.5	2	0.46	2014	
29	Farrukh Nagar	Chand Nagar Road, Ward no. 11, Farrukhnagar	3.73	1.22	0.11	Last 10 years	Presently stay by Hon'ble Court as this dumping site
			0.18	1.83	0.082	Last 6 month	Used as Temporary dumping site due to stay at main dumping site on Chand Nagar Road, Ward No. 11, Farrukhnagar.
30	Ellenbad	Temporary Dumpsite in Hudda R-3	2.25	2.43	0.12	From Last 2 Years	-
31	Assandh	Near Kanchi gate	1.38	4.57	0.15	Since 2004	-

Sr. No.	Name of MC	Dumpsite Location	Area Coverred (In Acre)	Height (in Mtr.)	Quantity (in Lakh MT)	Date since the dumpstie is in operation	Remarks
		Kaithal road Assandh					
32	Charkhi Dadri	Rania Wala Johar, Near Bhiwani Rohtak Bye pass	4	3	0.26	Year 2006	
33	Gohana	Vilalge Thaska	4.7	5.5	0.42	2011	
34	Haily Mandi	Near Mirzapur Road, W. No. 7 Haily Mandi	2.49	2.43	0.00028	11.03.2020	
35	Indri	Indri Byepass Road	1.2	1	0.03	5-8 Years	
36	Kaithal	Khurana Road	5	2.43	0.8	41426	
37	Kharkhoda	Sampla Road Bye pass	2	1.22	0.24	Approx 25 Years	
38	Narnaund	Near Shanshan Ghat W. No. 4	1.4	1	0.028	2001	
39	Nuh	Jogipur Road, Nuh town, Near Vijay Gas Agency	3.7	NIL	0.16	2011	
40	Pataudi	Ward No. 10 Moti Dungri	2	2.85	0.11	Approximately frrom year 2000	-
41	Pehowa	KKR Road	2	0.5	0.008	Since 2018	
42	Rewari	Ramsinghpura Bawal	12	Varies from average1.22 mtr to average3.20 mtr		0.6	Since 2005
43	Bawal	There is common dumpsite for MC Rewari, MC Bawal, MC Dharuhera.					
44	Dharuhera	There is common dumpsite for MC Rewari, MC Bawal, MC Dharuhera.					
45	Sohna	Old Delhi Alwar Road	5	2.00-2.25	0.51	2010	

Sr. No.	Name of MC	Dumpsite Location	Area Coverred (In Acre)	Height (in Mtr.)	Quantity (in Lakh MT)	Date since the dumpstie is in operation	Remarks
		BehindNirankari College Sohna					
46	Taraori	Nadana road near electricity power house M.C Taraori	0.22	3.5	0.0315	Approx 8-10 Years	
	Taraori	Nadana road near electricity power house M.C Taraori	0.11	3.5	0.0157	Approx 8-10 Years	
	Taraori	Nadana road near electricity power house M.C Taraori	0.19	3.5	0.02625	Approx 8-10 Years	
	Taraori	Nadana road near electricity power house M.C Taraori	0.15	1	0.006	Approx 8-10 Years	
	Taraori	Nadana road near electricity power house M.C Taraori	0.33	4	0.054	Approx 8-10 Years	
	Taraori	Nadana road near electricity power house M.C Taraori	0.08	3.5	0.0126		
47	Nissing	Near Mata Sundri Khalsa Girls College Karnal- Kaithal Road	2	3	0.15	This Dumpsite is under operation since the time of Gram Panchayat nissing	Municipal Nissing was constituted in the year 2010, but this dumpsite is in operation from the time of gram panchayat.

Sr. No.	Name of MC	Dumpsite Location	Area Coverred (In Acre)	Height (in Mtr.)	Quantity (in Lakh MT)	Date since the dumpstie is in operation	Remarks
48	Hodal	Gadhi Mod, Hodal	2	1	0.04		
49	Siwani	Tosham Road	2.3	1.2	0.07	SINCE LAST 7-8 YEARS	
50	Tauru	Burakha Pahadi	1	3.5	0.35	2009	
51	Ganaur	Badshahi Road, Near Telephone Exchange, Ganaur.	4.4	4.5	0.25	18 YEARS APPROX.	
52	Kalanwali	Dadu Road, Ward No. 10	2	below ground level	0.0328	30 years.	
53	Mahendergarh	Dohan Nadi	4	1.5	0.12138	since 4 years	
54	Narwana		2	4.5	Not estimated	since 1987	
55	Hathin		NA	NA	NIL	NA	There is no permanent landfill site in MC Hathin.
56	Jakhal Mandi	Balran Road	0.55	7	0.00015	20.01.2020	
57	Jhajjar	Village Utlondha Distt. Jhajjar	8.6	1.5	0.01818	since 2017	
58	Karnal	Village Sekhpura, Karnal	8	6	0.714	41944	
59	Sadaura	Kala Amb Road Near ITI	2.5	-	-		
60	Naraingarh	There is no dumpsite in MC, Naraingarh. All the Solid waste, garbage of MC Naraingarh is transported to Patvi dumpsite of Ambala City.					
61	Ambala sadar	There is no dumpsite in MC, Ambala sadar. All the Solid waste, garbage of MC Ambala Sadar is transported to Patvi dumpsite of Ambala City.					
62	Pundri	Near kakaut Road	1	NIL	0.0002	27.03.2020	
63	Sampla	MC, Sampla sent all solid waste to SWM Plant Rohtak.					
64	Kalanaur	MC, Kalanaur sent all solid waste to SWM Plant Rohtak.					
65	Kundli	On Narela Road	1	below ground level	0.00008	42095	
66	Bhiwani	Dadri Road, Bhiwani	10	2.00-3.00	0.22403	Since the existence of	

Sr. No.	Name of MC	Dumpsite Location	Area Coverred (In Acre)	Height (in Mtr.)	Quantity (in Lakh MT)	Date since the dumpstie is in operation	Remarks
						MC.	
67	Hansi	Near biid Farm	2	5 feet height and 5 feet deep			
68	Ismailabad	pehowa-ismailabad-ambala link road opposite reliance petrol pump	1	--	0.005	since 2008	
69	Samalkha	Garhi Chhaju	0.22	4.95	0.28239	27.02.2008	
70	Tohana	Baba Buta shah Basti	1	3 mtr deep from the ground	0.1	2019	
71	Thanesar	village bazidpur near pipli zoo	4	1.91	0.008	2019	
72	Mandi Dabwali	Near Rambagh	8	4.26 Av.	0.30684	2008 (12 Years)	
73	Bass	New Committee			0.003		
74	Sisai	New Committee			0.003		
75	Bhuna	Kula road, Bhuna	1.5	2	0.1	2012	
76	cheeka	Khrodi Road	1.5	4	0.392	2012	
77	Uchana	Kheri Masaniya Road, Near kabristan, uchana Kalan	0.4	8	0.0578	06.01.2020	
78	Barara	Near sajan Majri Road	7	2.43	0.08737	since 2016	
79	Loharu	Pilani Road, Loharu	2	1.22	0.002	2006	
80	Kalayat	Kapil Muni Road, Ward No. 8 near shamshanghat, Kalayat	1.5	2.31	0.12	Jan, 2005	

Sr. No.	Name of MC	Dumpsite Location	Area Coverred (In Acre)	Height (in Mtr.)	Quantity (in Lakh MT)	Date since the dumpstie is in operation	Remarks
81	Bawani Khera	Hansi-bhiwani main Road	4	1.22	0.009	from last 5 years	
82	Beri	Kabulpur road, near shiv dhamBeri.	0.5	0.25	0.006	Jan-20	
		Beri Jhajgarh road near bhagalpuri chock Beri.	1	1	0.05475	Till March 18	
83	Sonepat	Murthal bye pass (Near DCRUST University)	5	0	0.5	Since 2017	
84	Punhana	Mandikhera, Jamalgarg Road	0.5	0	0.2	Since 2009	
85	Ateli Mandi	Village Khor	1	1	0.01942	2018	
86	Barwala	Kharkhra Road, Barwala	1.75	1.2	0.0052	Since 2018	
87	Uklana Mandi	Theh Uklana	2	1.2	0.006	Since 2017	

Annexure-5

Details on Captive TSDF(s) **Period: 2019-20**

Name of SPCB/PCC:- HSPCB

Sr. No	Name and address of the Captive Facility	Type of facility (Landfillable/ Incinerable/ both)	Capacity		HW disposed during the year (MT)		Cumulative HW disposed till the end of financial year (MT)	
			Incinerator (MT/H)	Landfill (MT/A)	SLF	Incinerator	SLF	Incinerator
1	M/S Panipat Refinery ,IOCL Panipat	Landfillable	0	2500	1464.5	0	15964.5	0
2	M/s Crystal Crop. Protection Pvt. Ltd. (Unit-II) **(Tech. Plant)**, Vill. Nathupur, Sonepat.	Incinerable	0.05	0	--	0.005	--	42.805
3	M/s Indogulf Cropsciences Ltd., (Jai Shree Rasayan Udyog Ltd.), **(new unit Tech. Plant)**, Vill. Nathupur, Sonepat	Incinerable	0.05	0	--	4.62	--	50.62
4	M/s Marino panel Products Ltd., vpo rohad, Jhajjar	Incinerable	15	Nil	Nil	85.6	Nil	Nil

Annexure-6

MI Project under NABARD (Ist Phase)

Sr. No	Name and Address of STP	Deptt.	Capacity (MLD)	Flow of Inlet (In MLD)	Treated Effluent (In MLD)	Quantum of Treated effluent being reused (In MLD)	Mode of reuse (Irrigation / horticulture /Industrial use / any other)	CCA (Hectares)	App. Cost (CCA in ha*2.10 lacs) otherwise actual	Status
1.	Barara SBR Technology Ambala	PHED (SBR)	6.00	To be filled by PHED	4.00	2.00	Irrigation	207+155=362	986.83	Hearing completed. AA submitted to Govt. Likely Date of Start- 01.09. 2021 Likely Date of Completion- 31.12.2022
2.	Naraingarh - MBBR Ambala	PHED (MBR)	5.00	To be filled by PHED	3.00	1.40-1.70	Irrigation			Hearing completed AA submitted to Govt. Likely Date of Start- 01.09. 2021 Likely Date of Completion- 31.12.2022
3.	Hisar Lalpura Road Hansi –MBBR	PHED	7.50	To be filled by PHED	7.50	6.00	Irrigation	372	781.20	Hearing completed AA under preparation Likely Date of Start- 15.09.2021 Likely Date of Completion- 31.12.2022
4.	Narnaund - Hisar	PHED	4.00	To be filled by PHED	4.00	2.00	Irrigation	198	415.80	Hearing completed AA under preparation Likely Date of Start- 15.09.2021 Likely Date of Completion- 31.12.2022

5.	Gulha Cheeka SBR Kaithal	PHED	10.00	To be filled by PHED	8.00	4.00	Irrigation	794	1667.40	Hearing completed AA under preparation Likely Date of Start- 15.09.2021 Likely Date of Completion- 31.01.2023
6.	Jind Road, Kaithal KTL drain SBR-Kaithal	PHED	10.00	To be filled by PHED	8.00	4.00	Irrigation			Hearing completed AA under preparation Likely Date of Start- 15.09.2021 Likely Date of Completion- 31.01.2023
7.	Majra, - MBBR Fatehabad	PHED	10.00	To be filled by PHED	10.00	7.50	Irrigation	496	1041.60	Hearing completed. AA case received from SE and under process of sending to Govt Likely Date of Start- 15.09.2021 Likely Date of Completion- 31.12.2022
8.	Village Amani, Tohana - MBBR Fatehabad	PHED	10.00	To be filled by PHED	10.00	7.50	Irrigation	496	1079.32	AA accorded by Govt. Estimate under preparation Likely Date of Start- 01.06.2021 Likely Date of Completion- 31.07.2022
9.	Jakhal-SBR Fatehabad	PHED	3.00	To be filled by PHED	3.00	2.25	Irrigation	149	343.59	AA received from Govt. Estimate under preparation Likely Date of Start- 01.06.2021 Likely Date of Completion- 31.07.2022
10.	Ratia - MBBR Fatehabad	PHED	6.50	To be filled by PHED	6.50	4.88	Irrigation	323	739.42	AA received from Govt. Estimate under preparation Likely Date of Start- 01.6.2021 Likely Date of Completion- 31.07.2022
11.	Kalka - MBBR Panchkula	PHED	4.75	To be filled by PHED	4.75	3.25	Irrigation	250+250 = 500	1518.00	Hearing completed AA submitted to Govt. Likely Date of Start- 01.09.2021

										Likely Date of Completion- 31.12.2022
12.	Nalagarh Road , Manakpur, Pinjore - MBBR Panchkula	PHED	5.00	To be filled by PHED	5.00	1.50-2.00	Irrigation			Hearing completed AA submitted to Govt. Likely Date of Start- 01.09.2021 Likely Date of Completion- 31.12.2022
13.	Shamsabad patti, Kalania Road ,Sirsa SBR	PHED	15.00 +20.00 = 35.00	To be filled by PHED	-	35.00	Irrigation	1737	3647.00	Consent not being provided by farmers. **Rishi Nagar 40 MLD STP has been considered against this. AA case submitted to Govt and approval awaited. 25 MLD will be available for irrigation. Cost =Rs. 5394.18 lacs CCA-2569- Case of AA under process Likely Date of Start- 01.09.2021 Likely Date of Completion- 31.08.2023**
14.	STP Jind - MBBR Jind	PHED	15.00	To be filled by PHED	15.00	-	Irrigation	992	2083.20	Hearing under process Likely Date of Start- 15.10.2021 Likely Date of Completion- 31.03.2023
15	STP Narwana MBBR Jind	PHED	5.00	To be filled by PHED	5.00	3.75	Irrigation			Hearing completed More than 80% Farmers not agree. Efforts still on. Otherwise to be scrapped
	Total		**136.75**					**7251.00**	**16050.54**	

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