

I/150939/2023

**HARYANA STATE POLLUTION CONTROL BOARD****C-11, SECTOR-6, PANCHKULA****Ph. 0172-2577870-73****E-mail:hspcbwatercell@gmail.com****Dated 25/01/2023****HSPCB****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 November, 2022.

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 November, 2022 on the prescribed format for your kind information and necessary action please.

DA/ As above

Signed by Jatinder Pal
Singh

Sr. Env. Engineer (HQ)
Date: 25-01-2023 16:23:32
Reason: Approved
For Chairman

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 November, 2022

Overall status of the State:

I. Total Population: Urban Population

- ✓ Ghaggar catchment
Population – 26.9 lacs
- Yamuna catchment
Population – 84.6 lacs
- ❖ Other areas-
Population- 10.8 lacs

II. Estimated Sewage Generation (MLD):

- ✓ Ghaggar catchment
291.46 MLD sewage generation
- Yamuna catchment
1098 MLD sewage generation
- ❖ Other areas
117.5 MLD

III. Details of Sewage Treatment Plant:

• Existing no. of STPs and Treatment Capacity (in MLD):

- ✓ Ghaggar
62 STPs of treatment capacity of 535 MLD
- Yamuna
59 STPs of treatment capacity of 1075.2 MLD
- ❖ Other areas-
35 STPs of treatment capacity of 225 MLD.

• Capacity Utilization of existing STPs:

- ✓ Ghaggar
295.7 MLD effluent reaching STPs.
- Yamuna
1039 MLD effluent reaching STPs.

- ❖ Other areas
131 MLD effluent reaching STPs.

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

- **Gap in Treatment Capacity in MLD:**

- **Yamuna**

There is Gap of 240.44 MLD in the installed treatment capacity at present in comparison to requirement i.e. sewage generation in some towns in catchment of river Yamuna i.e. Samalkha (0.56 MLD), Palwal (9.3 MLD), Faridabad (144.5 MLD) and Gurugram (86 MLD).

- **No. of Operational STPs:**

Ghaggar

There are total 62 STPs installed in the catchment of river Ghaggar with the capacity of 535 MLD. As per latest status, 21 STP is not 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 1075 MLD. As per latest status, 23 STPs are not meeting the prescribed parameters. The list is enclosed as **Annexure-2**.

Other Areas

There are total 35 STPs of 225 MLD capacity is installed in the other areas not following in the catchment of rivers. Out of these 26 STPs are not meeting the prescribed limits. The list is enclosed as **Annexure-3**.

Table- Details of town wise STPs in the State of Haryana is given as under:-

Sr. No.	Town	Existing STP Capacity (MLD)	Capacity Being Utilized	Operational status of STP	Compliance status of STPs
Ghaggar Catchment					
1	Naraingarh	3	1.7	Operational	Non Complying
2	Ambala	44	22.1	Operational	3 STPs are complying, 9 STPs are Non-Complying (3 MLD Naya Gaon, Unit-I, 3.25 MLD Naya Gaon, Unit-II, 5 MLD Baldev Nagar Unit-I, 3.25 MLD Unit-II, Baldev Nagar, 5 MLD Moti Nagar, Unit -I, 5 MLD Moti Nagar, Unit-II, 6 MLD Modal Town, 3.25 MLD Nasirpur and 3 MLD Devi Nagar, Ambala)
3	Ratia	6.5	4.5	Operational	Complying

Sr. No.	Town	Existing STP Capacity (MLD)	Capacity Being Utilized	Operational status of STP	Compliance status of STPs
4	Tohana	10	8.2	Operational	Non Complying
5	Jhakal Mandi	3	1.5	Operational	Complying
6	Fatehabad	33	14	Operational	3 STPs are complying and 1 STP is Complying except Faecal Coliform
7	Hisar	82	50	Operational	4 STPs are complying, and 1 STP is Non Complying (4 MLD Kaimri Road, Hisar)
8	Narnaund	4	2.15	Operational	Complying
9	Narwana	9.25	7.03	Operational	3 STPs are Complying except Faecal Coliform (3.5 MLD Patiala Road, Narwana, 3.75 MLD Narwana and 2 MLD Dablain Road Narwana)
10	Uchana	3.5	2.75	Operational	2 STPs are Non complying
11	Jind	37	20	Operational	1 STP is Complying, 1 STP is Complying except Faecal Coliform and 2 STPs are Non Complying (5 MLD Jind and 15 MLD Jind)
12	Safidon	9	3.2	Operational	Complying
13	Cheeka	10	5.5	Operational	Complying
14	Kaithal	37.5	21.5	Operational	4 STPs are Complying
15	Kalayath	5	3.5	Operational	Complying
16	Pundri	3.5	3.25	Operational	Complying
17	Shahabad	11.5	6.5	Operational	Complying
18	Pehowa	8	5.5	Operational	Non- complying
19	Thanesar	40	18	Operational	2 STPs are Complying
20	Kalka	4.75	2.55	Operational	1 STP is Non-complying and 1 STP is complying except Faecal Coliform

Sr. No.	Town	Existing STP Capacity (MLD)	Capacity Being Utilized	Operational status of STP	Compliance status of STPs
21	Pinjore	5	3.5	Operational	Complying
22	Panchkula	81	34.74	Operational	3 STPs are complying and 1 STP is non-complying (18 MLD STP Panchkula)
23	Mandi Dabwali	16.5	13.5	Operational	Complying
24	Kalanwali	9.5	2.5	Operational	Complying
25	Sirsa	45	29.5	Operational	2 STPs are complying and 2 STPs Non-Complying (5 MLD Nattar 1, Sirsa and 5 MLD Nattar 2, Sirsa)
26	Rania	6	2.60	Operational	Complying
27	Ellenabad	7.5	6	Operational	Complying
Total		535	295.77		
Yamuna Catchment					
1	Jagadhri	24	18.5	Operational	Complying
2	Yamunanagar	65	43.70	Operational	4 STPs are Complying
3	Radaur	3.5	2	Operational	Complying
4	Chhachhrauli	3	1.75	Operational	Complying
5	Ladwa	7	5	Operational	Complying
6	Nilokheri	6	3.5	Operational	Complying
7	Taraori	5.5	3.8	Operational	Complying
8	Indri	4	2.35	Operational	Complying
9	Karnal	68	59	Operational	3 STPs are Complying
10	Nissing	4	2.3	Operational	Complying
11	Gharaunda	7	4.7	Operational	Complying
12	Panipat	120.8	42	Operational	6 STPs are complying
13	Samalkha	5	4	Operational	Non-Complying
14	Gohana	11.3	8.72	Operational	2 STPs are Non-Complying
15	Ganaur	7	5.5	Operational	Non-Complying

Sr. No.	Town	Existing STP Capacity (MLD)	Capacity Being Utilized	Operational status of STP	Compliance status of STPs
16	Sonepat	62.5	48.3	Operational	3 STPs are Complying
17	Kharkhoda	4.5	2	Operational	Complying
18	Meham	5	2.65	Operational	Non Complying
19	Rohtak	93.5	49.7	Operational	2 STPs are Complying and 3 STPs are non-complying (40 MLD Sonaria, Rohtak, 10 MLD sector-25, Rohtak and 10 MLD Singhpora Rohtak)
20	Kalanaur	3.5	2.5	Operational	Non Complying
21	Sampla	4	2.66	Operational	Non Complying
22	Beri	3	1.72	Operational	Complying
23	Bahadurgarh	64	22.6	Operational	2 STPs are complying and 1 STP is non-complying (18 MLD Line Par, Bahadurgarh)
24	Jhajjar	10.5	6.45	Operational	2 STPs are Non Complying
25	Taoru	4.5	2.6	Operational	Non-complying
26	Gurugram	388	474	Operational	4 STPs are complying and 1 STP non-complying (100 MLD Dhanwapur, Gurugram).
27	Nuh	3.6	2.3	Operational	Non Complying
28	Ferozepur jhirka	5	2.45	Operational	Non Complying
29	Punhana	4.5	1.25	Operational	Non Complying
30	Faridabad	52.5	197	Operational	1 STP complying & 1 STP is non-complying (45 MLD Badshahpur, Faridabad)
31	Palwal	9	9	Operational	Non Complying
32	Hathin	4.5	2.08	Operational	Non Complying
33	Hassanpur	3	1.25	Operational	Non Complying
34	Hodal	9	4.6	Operational	Non Complying
Total		1075.2	1038.9		
Other STPs					
1	Sohna	6	4.5	Operational	Non Complying
2	Pataudi	4.5	2.7	Operational	Non Complying
3	Farrukhnagar	3	1.85	Operational	Complying

Sr. No.	Town	Existing STP Capacity (MLD)	Capacity Being Utilized	Operational status of STP	Compliance status of STPs
4	Haily Mandi	5.5	2.9	Operational	Complying
5	Julana	4	2.3	Operational	Non Complying
6	Dhana Road, Bhiwani	10		Operational	Non Complying
7	Bhiwani	10	38	Operational	Non Complying
8	Bhiwani, Phase-I	15		Operational	Complying
9	Bhiwani, Phase-II	15		Operational	Non Complying
10	Charkhi Dadri	5	6	Operational	Non Complying
11	Charkhi Dadri	5		Operational	Non Complying
12	Bawani Khera	4.5	2	Operational	Non Complying
13	Loharu	3.5	2	Operational	Non Complying
14	Tosham	3	1.62	Operational	Non Complying
15	Siwani	4	2.75	Operational	Non Complying
16	Mohindergarh	6.5	2.5	Operational	Non Complying
17	Ateli Mandi	2	1.16	Operational	Non Complying
18	Kanina	3	0.89	Operational	Non Complying
19	Rewari Road, Narnaul	7.5	5	Operational	Non Complying
20	Bawal	3	2	Operational	Non Complying
21	Rewari	6.5		Operational	Non Complying
22	Rewari	8		Operational	Non Complying
23	Rewari	16	20	Operational	Non Complying
24	Dharuhera	9.5	4	Operational	Non Complying
25	Kosli	3	2	Operational	Non Complying
26	Barara	4	2.34	Operational	Complying
27	Assandh	5	3.80	Operational	Complying
28	Hansi	6.5	13	Operational	Non Complying
29	Dhani Gram, Barwala	6	4.5	Operational	Non Complying
30	Uklana, Hisar	6.5	3.5	Operational	Complying
31	Dhani Kushal, Bhiwani Road, Hansi	5		Operational	Non Complying
32	Lalpura- Jind Road, Hansi	7.5		Operational	Non Complying
33	Bhiwani	10		Operational	Complying

Sr. No.	Town	Existing STP Capacity (MLD)	Capacity Being Utilized	Operational status of STP	Compliance status of STPs
34	Dharuhera	5		Operational	Complying
35	Near Chinkara Rest House, Rewari Road, Narnaul	6		Operational	Non Complying in F. Coli
Total		225	131.31		

Details of under construction STPs in the State

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	35%	215311 House sewer connections provided in the Ghaggar Catchment.	31.03.2024
2	Khuda Khurd, Ambala	12	40%		31.03.2024
3	Babyal	10	98%		31.03.2023
4	Shahpur Machhonda	7.5	75%		31.03.2023
5	Saketri-STP	1.5	100%		Completed
6	Uchana	2	100%		Completed
7	Ramgarh, Panchkula	1	100%		Completed
8	Hisar	15	78%		31.03.2023
	Total	61			
Yamuna Catchment					
1	Shiv Colony, Karnal	8	91%	195520 House sewer connections provided in the Yamuna Catchment.	31.03.2023
2	Phooshgarh, Karnal	20	92%		31.03.2023
3	Peer Bodhi, Rohak	15	81%		31.03.2023
4	Faridabad, sector-21	10	99%		28.02.2023
5	Kithwari	10	82%		31.03.2023
6	Jodhpur Road, Palwal	15	90%		31.03.2023
7	Ferozpur, Palwal	2.5	90%		31.03.2023
8	Sonepat (Aterna)	15	70%		30.06.2023
9	Murthal Sonepat	3	57%		30.06.2023
10	Jhazgarh	20	50%		31.12.2023
11	Bajghera	2	22%		31.03.2023
12	Rohtak	10	99%		31.03.2023

Sr. No.	Location	Capacity of the plant in MLD	Physical Progress\ in %	Status of I&D or House sewer connections	Completion Timeline
13	Mirjapur, Faridabad	80	54%		30.06.2023
14	Partapgarh, Faridabad	100	53%		30.06.2023
15	Faridabad	30	100%		Completed
16	Dev Colony, Panipat	15	80%		31.03.2023
17	Barsat Road, Panipat	25	70%		31.07.2023
18	Manesar and Naharpur Kasan, Gurugram	25	10%		31.07.2023
	Total	405.5			

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
Yamuna Catchment				
1	Dhanwapur, Gurugram	100	Financial bid opened and tender under allotment	30.06.2024
2	Behrampur, Gurugram	100	DPR under preparation.	31.12.2024
3	Sector-107, Gurugram	100	Land under identification	31.12.2025
4	Naurangpur, Gurugram	40	DPR under preparation	31.12.2024
	Total	340		
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
	Total	39		

IV. Details of Industrial Pollution:

Sr. No.	River stretch	No. of industries	Quantum of effluent generated (in MLD)	No. of industries having ETPs	No. of industries connected to CETPs
1	Yamuna	3505	121.11	3505	814
2	Ghaggar	212	5.2	212	28
	Total	3717	126.31	3717	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	6	120.5
2	Ghaggar	4	6.1	2	3	0	0
3	Other Areas	1	22.5	0	0	0	0
	Total	19	190.1	5	22	6	120.5

- **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 are 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 complying. Under construction -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	10	0.07		Existing - 1 CETP of 0.5 MLD capacity and the same is complying as per latest A/R.
Panchkula	82	0.5		0
Sirsa	0	0		Under construction - 1 CETP of 1.5 MLD capacity.
Total	212	5.2		

Yamuna Catchment

Town	No. of industries	Industrial Discharge (In 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	341	18.4		0
Panipat	286	24.3		Existing - 3 CETPs are all complying.

Town	No. of industries	Industrial Discharge (In MLD)	Status of ETPs	Status of CETPs (existing, under construction & proposed)
Sonepat	789	21.8		Existing- 4 CETPs of 25.2, 2 CETPs are complying and 2 CETP is non 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. 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	3505	121.11		

The list is enclosed as under:-

Sr. No.	Name of CETP	Capacity in MLD	Deptt.	Analysis report no. and date	Compliance status
River Yamuna					
1	IE Rai, Sonapat	5	HSI IDC	1176 dt. 06.12.2022	Complying
2	IE Barhi, Sonapat	16	HSI IDC	1178 dt. 06.12.2022	Non-Complying
3	IE Kundli, Sonapat	4	HSI IDC	1174 dt. 06.12.2022	Complying
4	IE Murthal, Sonapat	0.2	HSI IDC	934 dt. 10.11.2022	Non-Complying
5	IMT Rohtak	10	HSI IDC	1220 dt. 09.12.2022	Complying
6	IE Kutana, Rohtak	3	HSI IDC	Under trial run	
7	IE Panipat Refinery Complex, Panipat	2.5	HSI IDC	Could not be functional, due to Non availability of sufficient effluent	
8	HSI IDC Sector 16-17, Bahadurgarh	12.5	HSI IDC	1211 dt. 09.12.2022	Complying
9	IMT Faridabad	10.5	HSI IDC	997 dt. 18.11.2022	Complying
10	IMT Manesar, Gurugram	55	HSI IDC	1042 dt. 23.11.2022	Complying
11	Sector-29, Unit-I, Panipat	21	HSVP	7559 dt. 06.12.2022	Complying

Sr. No.	Name of CETP	Capacity in MLD	Deptt.	Analysis report no. and date	Compliance status
12	Sector-29, Unit-II, Panipat	21	HSVP	7560 dt. 07.12.2022	Non-Complying
13	Faridabad Electroplaters Association	0.6	Private	995 dt. 18.11.2022	Complying
14	Industrial Area, Sector- 37, Gurugram	0.2	Private	1045 dt. 24.11.2022	Complying
River Ghaggar					
15	IE Barwala, Panchkula	0.5	HSI IDC	7447 dt. 23.11.2022	Complying
16	Ambala Cantt.	0.5	HSI IDC	7652 dt. 13.12.2022	Complying
17	Saha, Ambala	5	HSI IDC	7501 dt. 30.11.2022	Complying
18	I. E. Jind	0.1	HSI IDC	7594 dt. 07.12.2022	Complying
Other areas					
19	IMT Bawal, Rewari	22.5	HSI IDC	749 dt. 12.10.2022	Complying
	Total capacity	190.1			

V. Solid Waste Management:

- Total number of Urban Local Bodies and their Population.**

There are 90 Municipalities in the State out of which MC, Manesar, Mandi Adampur, Badhda, Seewan have been recently notified as Municipalities. As per updated report, Solid Waste Management 5489 TPD is daily generation of Municipal Solid Waste and the population of all Municipalities is 88,42,103 as per Census 2011.

- Current Municipal Solid Waste Generation.**

As per annual report 2021, Solid Waste Management 5489 TPD is daily generation. Brief status regarding management of Solid Waste in ULBs is as under:-

SWM Activities in State	Quantity
Total No. of Wards	1639
Quantity of Solid Waste	5489 TPD
No. of wards with 100% Door to Door Collection	1615
No. of wards where segregation is initiated	1150
Quantity of Wet waste	2854 TPD
Quantity of dry waste	2140 TPD
Quantity of wet waste being processed	2136 TPD
Quantity of dry waste being processed	1795 TPD
No. of vehicles for D2D collection	4005
No. of vehicle with Compartment	3300
No. of vehicles with GPS	3120
No. of GVPs Identified	851
No. of BWG identified	1103
No. of BWG processing on site	117
No. of Solid Waste Challan collected in last three months	Total 221 challan of amounting Rs. 248750/-
No. of Plastic Waste Challan collected in last three months	Total 2930 challan of amounting Rs. 1673650/-

For processing of dry waste 88 Material Recovery Facilities (MRF) has also been constructed in various Municipalities for channelization of dry waste.

- **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.**

As per report submitted by ULBD, there are three existing operational centralized Waste to Compost (WTC) processing facilities in the State at Rohtak (175 TPD), Karnal (150 TPD) & Sirsa (50 TPD). Apart from the above, two Bio-Methanation plants are operational in Faridabad (5 TPD) & Karnal (15 TPD). One Bio-Gas plant of capacity 60 TPD (private party) is operational in Ambala.

Further, there are 2800 no. of compost pits (including park pits) having the capacity approx. 3180 TPD for processing of wet waste and horticulture waste in various MCs. In addition, approx. 11208 household pits have been constructed to encourage the households for home composting in Ambala Sadar, Faridabad, Gurugram, Kaithal, Karnal, Panchkula & Rohtak.

Further, Waste to Energy Plant at ISWM Sonapat-Panipat Cluster of 700 TPD capacity has been commissioned on 16.08.2021. Approximate 8 MW electricity is being generated in this plant.

Work of Waste to Energy Plant (2330 TPD) in Gurugram-Faridabad is also under implementation.

- **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 93 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 Sonapat-Panipat and Gurugram-Faridabad have been awarded and construction of Sonapat-Panipat Cluster (700 TPD) Waste to Energy project has been commissioned on 16.08.2021. The Environmental Clearance of Gurugram-Faridabad (2300 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 12 approx. 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-4**.

- **Bioremediation of legacy waste lying at existing dump sites.**

Approximate 107 Lakh Metric Ton of legacy waste was lying at the dumping sites in Municipalities, out of which 43.23 lakh MT (40.4%) of legacy waste has been remediated. The details of the same areas under:-

Status of bioremediation of legacy waste in the Municipalities of State of Haryana

Sr. No	District	ULB	Status	Quantity of Waste Legacy Waste (Ton)	Quantity of Legacy Waste Remediated (Ton)
1	AMBALA	AMBALA	Proposed & Yet To Start	33544	
2		AMBALA	On-Going	543805	525810
4		BARARA	Proposed & Yet To Start	9800	
5	BHIWANI	BAWANI KHERA	Proposed & Yet To Start	9185	
6		BHIWANI	Proposed & Yet To Start	200000	
7		BHIWANI	On-Going	114000	105000
8		SIWANI	Completed	1236	1236
9		LOHARU	Completed	5109	5109
10		CHARKHI DADRI	Proposed & Yet To Start	30000	
11		CHARKHI DADRI	Completed	26400	26400
12	FATEHABAD	RATIA	Proposed & Yet To Start	23500	
13		TOHANA	Proposed & Yet To Start	12700	
14		FATEHABAD	Proposed & Yet To Start	43000	
15		FATEHABAD	Completed	47000	47000
16		BHUNA	Proposed & Yet To Start	17400	
17		JAKHAL MANDI	Proposed & Yet To Start	3600	
18	GURGAON	HAILEY MANDI	Remediation Not Proposed	300	
19		PATAUDI	Completed	10727	10727
20		GURGAON	Proposed & Yet To Start	3000000	0
21		GURGAON	Completed	1700000	1700000
22		FARRUKHNAGAR	Remediation Not Proposed	11857	
23		SOHNA	On-Going	54000	500
24		MANESAR	Proposed & Yet To Start	150000	
25		MANESAR	Remediation Not Proposed	2500	
26	HISAR	BARWALA	Proposed & Yet To Start	6050	
27		HISAR	Proposed & Yet To Start	70000	
28		HISAR	On-Going	130000	45000
29		NARNAUND	Proposed & Yet To Start	3350	
30		HANSI	Proposed & Yet To Start	13000	
31	JHAJJAR	UKLANA	Proposed & Yet To Start	6400	
32		BERI	Proposed & Yet To Start	6005	
33		BERI	On-Going	3995	2885
34		BAHADURGARH	Proposed & Yet To Start	220000	
35		BAHADURGARH	On-Going	210000	170000
36		JHAJJAR	Proposed & Yet To Start	20762	
37		JHAJJAR	On-Going	9238	
38	JIND	BADLI	Proposed & Yet To Start	11060	
39		NARWANA	Proposed & Yet To Start	87561	
40		UCHANA	Proposed & Yet To Start	2800	
41		JIND	Proposed & Yet To Start	188862	
42		JIND	Completed	100000	100000
43		JULANA	Proposed & Yet To Start	5681	
44	KAITHAL	SAFIDON	Proposed & Yet To Start	14500	
45		CHEEKA	Proposed & Yet To Start	10000	
46		CHEEKA	On-Going	18000	16000
47		KAITHAL	Proposed & Yet To Start	70000	
48		KAITHAL	Completed	98000	98000
49		KALAYAT	On-Going	15000	5000
50		KALAYAT	Proposed & Yet To Start	15000	
51		PUNDRI	Proposed & Yet To Start	4100	
52		RAJOUND	Proposed & Yet To Start	5200	

Sr. No	District	ULB	Status	Quantity of Waste Legacy Waste (Ton)	Quantity of Legacy Waste Remediated (Ton)
53	KARNAL	SIWAN	Proposed & Yet To Start	4726	
54		NILOKHERI	Completed	11000	11000
55		TARAORI	Completed	8766	8766
56		INDRI	Completed	3000	3000
57		KARNAL	On-Going	95022	71800
58		NISSING	Completed	15000	15000
59		ASSANDH	Completed	15300	15300
60		ASSANDH	Proposed & Yet To Start	7000	
61		GHARAUNDA	Completed	20236	20236
62	KURUKSHETRA	SHAHBAD	Completed	743	743
63		PEHOWA	Completed	10660	10660
64		THANESAR	Remediation Not Proposed	800	
65		LADWA	Proposed & Yet To Start	16100	
66	MAHENDRAGARH	KANINA	Proposed & Yet To Start	10920	
67		MAHENDRAGARH	Proposed & Yet To Start	39349	
68		ATELI	Proposed & Yet To Start	4959	
69		NARNAUL	On-Going	188000	92546
70		NANGAL CHAUDHARY	Proposed & Yet To Start	1550	
71	MEWAT	Taoru	Proposed & Yet To Start	35000	
72		NUH	Remediation Not Proposed	15768	
73		FEROZEPUR JHIRKA	Proposed & Yet To Start	20000	
74		PUNAHANA	Proposed & Yet To Start	20000	
75	PALWAL	PALWAL	Completed	21000	21000
76		HATHIN	On-Going	3420	1650
77		HODAL	Proposed & Yet To Start	6000	
78	PANCHKULA	PANCHKULA	Remediation Not Proposed	18400	
79		PANCHKULA	Proposed & Yet To Start	398388	
80	PANIPAT	PANIPAT	On-Going	409000	302110
81	REWARI	REWARI	Completed	62217	62217
82		REWARI	Proposed & Yet To Start	25000	
83	ROHTAK	MAHAM	On-Going	13630	12961
84		ROHTAK	On-Going	800000	550000
85	SIRSA	MANDI DABWALI	Proposed & Yet To Start	96000	
86		MANDI DABWALI	Completed	30684	30684
87		KALANWALI	On-Going	3280	1480
88		SIRSA	Proposed & Yet To Start	218470	
89		SIRSA	Completed	44530	44530
90		RANIA	Proposed & Yet To Start	5200	
91		ELLENABAD	On-Going	10816	
92	SONIPAT	GOHANA	Proposed & Yet To Start	77000	
93		GOHANA	Completed	42000	42000
94		GANAU	Proposed & Yet To Start	20000	
95		SONIPAT	Proposed & Yet To Start	300000	
96		KHARKHODA	On-Going	24000	21000
97	YAMUNANAGAR	YAMUNANAGAR	Proposed & Yet To Start	66000	
98		YAMUNANAGAR	Completed	126001	126001
Total				10759162	4323351
				Say 107 Lakh MT	Say 43.23 Lakh MT

The State Government has approved allocation of funds amounting to Rs. 262.67 Crore for bioremediation of legacy waste. The 1st installment of Rs.44.59 Crore has been released by the State Government to the Urban Local Bodies Department, further limit amounting to Rs. 115.47 cr. has also been assigned to various ULBs for bioremediation of legacy waste to implement the necessary measures for this purpose.

- **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.

Further, the concessionaire for establishment of 300 TPD C&D waste management plant in Faridabad on PPP mode has also been finalized and agreement has also been signed between concessionaire and Municipal Corporation, Faridabad. As per the terms & conditions of agreement, the agency will start the processing of C&D waste at tie up plant Ghaziabad within 2 months till the commissioning of its plant in Faridabad.

- **Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source**

As per report submitted by ULBD, there are total 1639 wards in MCs of Haryana out of which 1615 wards have been covered with door to door waste collection services. Out of the total wards, source segregation has been initiated in 1150 wards.

- **Details of MSW treatment facilities proposed and under construction (no., capacity, and technology).**

Detail is attached at **Annexure-4**.

- **No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills.**

The detail of dumpsites attached at **Annexure-5**.

- **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 fall directly into the rivers. They ultimately join the drains of irrigation and the drains of irrigation fall 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
90	5489	3931	1. Municipal Corporation Sonapat (Waste to Energy Plant)- 700 TPD 2. Municipal Corporation, Karnal (Waste to Compost Plant)-	Total Utilization of the existing capacity of the processing facilities: 4045 TPD as mentioned below:	Integrated Solid Waste Management Projects are likely to be

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
			Capacity 150 TPD. 3. Municipal Corporation, Rohtak (Waste to Compost Plant)- Capacity 175 TPD. 4. Municipal Council, Sirsa (Waste to Compost Plant)- Capacity 50 TPD. 5. Municipal Corporation Karnal (Bio-methanation Plant)- Capacity 15 TPD 6. IOCL, Faridabad (Bio-methanation Plant)- Capacity 5 TPD 7. Suntan Biogas Plant, Ambala- Capacity 60 TPD 8. Total no. of compost pits for wet waste and horticulture processing - 2800 having the capacity approx. 3180 TPD. 9. Total 88 MRF are established in ULBs having the capacity approx. 2395 TPD	1. Municipal Corporation Sonapat (Waste to Energy)- 700 TPD 2. Karnal, (Waste to Compost)- 150 TPD 3. Municipal Corporation Rohtak (Waste to Compost)- 175 TPD 4. Municipal Council Sirsa (Waste to Compost)- 50 TPD 5. Municipal Corporation Karnal (Bio-methanation)- 15 TPD 6. IOCL Faridabad- 5 TPD 7. Suntan Biogas Plant, Ambala- 60 TPD 8. Compost Pits- Approx. 1100 TPD 9. MRF- 1795 TPD	completed upto December 2023.

VI. Bio-medical Waste Management:

- Total Bio-medical generation:**

As per the annual report for 2021, approx. 19.11 TPD Bio Medical Waste is generated in State of Haryana.

- No. of Hospitals and Health Care Facilities:**

As per the annual report for 2021, there is 6969 no. of HCFs in State of Haryana.

- Status of Treatment Facility/ CBMWTF:**

As per the annual report for 2021, there are 11 no. of authorized CBWTFs/Treatment facilities in State of Haryana

VII. Hazardous Waste Management:

- Total Hazardous Waste generation:** 200297.678 tons

- No. of Industries generating Hazardous waste-** 5754

- Treatment Capacity of all TSDFs**

Incinerator (Kcal) - 2.5 Million.

Landfill (MTA) – 30 years

- Avg. Quantity of Hazardous waste reaching the TSDFs and Treated**

Hazardous waste reaching TFDFs		Hazardous waste treated	
Landfill	-21879.4 MT	Landfill	-21879.4 MT
Incineration	- 17681.2 MT	Quantity Incinerated	- 0

Details of on-going or proposed TSDF- Details given at **Annexure-6**

VIII. Plastic Waste Management:

- **Total Plastic Waste generation:**

As per the annual report, 2021 of PWM Approximate 179406.47 TPA.

- **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 identified. 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 Sonapat 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 Ghaggar

Deptt.	Total locations	Status of Action Plan			
		Submitted action plan	Not submitted Action plan	Not submitted Time Bound action plan	Action plan not required/completed
PHED	51	17	4	7	23
D&P	137	57	0	1	79
HSVP	12	0	4	1	7
ULBD	43	5	0	6	32
HSIIDC	2	0	0	0	2
HP State	1	0	1	0	0
HSPCB	5	0	0	0	5
Forest Deptt.	1	0	1	0	0
UT-CHD	2	0	2	0	0
	254	79	12	15	148

River Yamuna

Deptt.	Total locations	Status of Action Plan			
		Submitted action plan	Not submitted Action plan	Not submitted time bound	Action plan not required/ completed
PHED	14	0	0	0	14
D&P	23	2	0	0	21
HSVP	3	0	0	0	3
ULBD	62	46	0	0	16
HSPCB	17	0	7	0	10
HSIIDC	2	0	0	0	2
Industry Deptt.	1	0	1	0	0
Haryana Roadways	3	0	0	1	2
Total	125	48	8	1	68

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. 14 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, 12.02.2021, 02.08.2021, 28.03.2022, 06.05.2022, 27.07.2022 and 20.10.2022.

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

Ghaggar

(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	3.2	400
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	30	92	6300
3	Singh Nallah choe before entering punjab near Mamta Enclave, Near Slaughter house Panchkula (PKL-RDQ-038)	30.664066/ 76.843880	55	125	8400
4	Ambala Drain near Motor Market, Ambala City (AMB-RDQ-008)	30.388012/ 76.790604	39.75	21	1700
5	Ghail drain at Samaspur, Ambala (AMB-RDQ-011)	30.333736/ 76.667902	17.95	4.2	700
6	Markanda River Bhagal Bridge. (Longitude 76026.218' and Latitude	76026.218/	4890	32	52000

Sr. No.	Name of drain	latitude/ Longitude	Flow (in MLD)	BOD (mg/l)	F. Coli
	30005.025') (KTL-RDQ-002)	30005.025			
7	Cheeka Drain/Old Ghaggar Creek (KTL-RDQ-008)	76.232452/ 30.064188	19.56	27	48000
8	Sagar Para Drain before mixing in Ghaggar river, Village Sagra. (Longitude 76011.249' and Latitude 29052.976') (KTL-RDQ-011)	76011.249 / 29052.976	25	30	42000
9	Kaithal drain before mixing River Ghaggar at Khanauri. (Longitude 76006.831' and Latitude 29050.731') KTL-RDQ-015	76006.831 / 29050.731	1025.7	25	56000
10	Discharge of Ratia Town through drain (Longitude 29.711468 and Latitude 75.551894) HSR-RDQ-006	29.711468 / 75.551894	4.00	8	2200
11	Discharge of Jakhal (29.786392, 75.826893) (HSR-RDQ-002)	29.787241/ 75.827388	3	8	580
12	Discharge of 7.5 MLD STP PHED Ellenabad, Sirsa into River Ghaggar (HSR-RDQ-018)	29.489644/ 74.741455	0.05	4	320

(b) Water quality and flow of river Ghaggar

Sr. No.	Drains meeting with river Ghaggar	Latitude/ Longitude	Flow (In MLD)	BOD (mg/l)	F. Coli
1	Ghaggar River at Haryana Himachal Border (Ghaggar River at Morni) (PKL-RDQ-014)	30.742182/ 76.742182	1475	7.8	4300
2	Ghaggar before meeting Kaushalya River (Burajkottian Zone, Panchkula) (PKL-RDQ-015)	30.639975/ 76.872849	1285	6.0	4900
3	Ghaggar River D/S after meeting Kaushalya River (NWMP-Station Code-1885) (PKL-RDQ-017)	30.740980/ 76.909826	1380	3.6	100
4	U/s of Ghaggar river before meeting discharge of STP Sec-28 at Kakrali, Punjab. (PKL-RDQ-022)	30.613894/ 76.836044	1406.5	4.2	900
5	D/S of Ghaggar river after meeting discharge of STP Sec-28 at Kakrali, Punjab. (PKL-RDQ-024)	30.642798/ 76.874462	1415	4.8	1300
6	Ghaggar River before meeting Ambala Drain (AMB-RDQ-007)	30.402314/ 76.743059	23.88	6.8	1200
7	Ghaggar River after meeting Ambala Drain (AMB-RDQ-009)	30.398033/ 30.398033	63.63	4.5	1200
8	Ghaggar River before mixing Ghail drain at Samaspur (Ambala) (AMB-	29.71135/ 75.552123	63.63	7.0	1400

Sr. No.	Drains meeting with river Ghaggar	Latitude/ Longitude	Flow (In MLD)	BOD (mg/l)	F. Coli
	RDQ-010)				
9	Ghaggar River after mixing Ghail Drain at Samaspur (Ambala) (AMB-RDQ-012)	30.332689/ 76.668607	81.58	7.6	1100
10	Ghaggar River before meeting river Markanda at Village Chiali. (Longitude 76025.974' and Latitude 30007.695') (KTL-RDQ-001)	76025.974/ 30007.695	15061	30	48000
11	Ghaggar River after mixing Markanda River at village Dhandota. (Longitude 76022.571' and Latitude 30005.410') (KTL-RDQ-003)	76022.571 / 30005.410	19951	30	45000
12	Ghaggar River before mixing of cheeka Drain (Longitude 76.232452' and Latitude 30.064188') (KTL-RDQ-007)	76.232452/ 30.064188	19951	30	38000
13	Ghaggar River after mixing of cheeka Drain (Longitude 76.232452' and Latitude 30.064188') (KTL-RDQ-008)	76.232452 / 30.064188	19970.56	27	48000
14	Ghaggar River before mixing Sagar Para Drain at Village Rasoli. (Longitude 76010.173' and Latitude 29054.305') (KTL-RDQ-010)	76010.173 / 29054.305'	0	27	42000
15	Ghaggar River after mixing of Sagar Para Drain at Village Rasoli. (Longitude 76010.135' and Latitude 29053.548') (KTL-RDQ-012)	76010.135 / 29053.548	25	25	35000
16	River Ghaggar before mixing Kaithal drain at Khanauri. (Longitude 75000.061' and Latitude 29050.754') (KTL-RDQ-013)	75000.061 / 29050.754	0	22	51000
17	River Ghaggar after mixing Kaithal Drain into River Ghaggar. (Longitude 76006.663' and Latitude 29050.723') (KTL-RDQ-018)	76006.663 / 29050.723	1025.7	25	28000
18	River Ghaggar before meeting discharge of Ratia. (HSR-RDQ-005)	29.693333/ 75.580474	7073	18	3200
19	River Ghaggar after meeting of discharge of Ratia. (HSR-RDQ-007)	29.716549/ 75.549705	7077	12	2500
20	River Ghaggar before meeting discharge of Jhakhal (29.786392, 75.826893) (HSR-RDQ-001)	29.786392/ 75.826893	7121	20	1800
21	River Ghaggar after meeting discharge of Jhakhal (29.786392, 75.826893) (HSR-RDQ-003)	29.786392/ 75.826893	7124	12	1500

Sr. No.	Drains meeting with river Ghaggar	Latitude/ Longitude	Flow (In MLD)	BOD (mg/l)	F. Coli
22	River Ghaggar before discharge of 7.5 MLD STP PHED, Ellenabad Sirsa (HSR-RDQ-017)	29.457123/ 74.677554	0	14	2600
23	River Ghaggar after discharged of 7.5 MLD STP PHED, Ellenabad Sirsa (HSR-RDQ-019)	29.489821/ 74.746049	2	8	420

(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 70 locations and non complying at 8 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.

Sr. No.	Region	No. of points monitored	Complying	Non-complying
1	Panchkula	7	7	0
2	Ambala	7	7	0
3	Jind	2	0	2
4	Kaithal	15	14	1
5	Kurukshetra	1	1	0
6	Hisar	5	0	5
7	Sirsa	23	23	0
8	Fatehabad	18	18	0
Total		78	70	8

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	109	3.6	500
2.	Drain No.2 before meeting river Yamuna at vill. Khojkipur (PNP-RDQ-008)	29.280218/ 77.120858	163.76	15	1800
3.	Drain no. 6 before entry in Delhi (SNP-RDQ-001)	28.890391/ 77.109702	12.23	88	2200
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	6525	15	32000
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	5600	18	45000
6.	Entry point of Drain No. 8 in Delhi Territory, Near Dhansa Store of Executive Engineer, Irrigation & Flood Control Deptt. of Delhi Govt., VPO-	28.535362/ 76.869600	Nil	20	35000

Sr. No.	Name of drain	latitude/ Longitude	Flow (in MLD)	BOD (mg/l)	F. Coli
	Lohat, Distt. Jhajjar (BDH-RDQ-003)				
7.	Leg I Drain, before meeting Najafgarh Drain Gurgaon (GRN-RDQ-002)	28.531019/ 77.001858	6.05	62	81000
8.	Leg II Drain, before meeting Najafgarh Drain Gurgaon (GRN-RDQ-005)	28.508322/ 76.975010	44.14	58	7500
9.	Leg III (Badshpur) Drain before meeting Najafgarh Drain Gurgaon (GRN-RDQ-008)	28.484470/ 76.953334	219.92	76	7800
10.	Budhiya Nala before meeting river Yamuna, at Vill. Manjhawali, Faridabad (FBD-RDQ-010)	28.382511/ 77.481014	8683.38	84	7000
11.	Gaunchi Drain before River Yamuna, Palwal (PWL-RDQ-005)	27.914783/ 77.517323	8703.93	50	7100

(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	5942	4.0	400
2	River Yamuna after meeting Maskara Nallah, Down Stream, Kalanaur (YMN-RDQ-003)	30.068276/ 77.348271	6052	3.8	600
3	River Yamuna before meeting Dhanaura Escape upstream, Karnal (KRN-RDQ-001)	29.73327/ 77.1277	16330	2.6	400
4	River Yamuna after meeting Dhanaura Escape downstream, Karnal (KRN-RDQ-003)	29.72592 / 77.13278	16470	3.0	100
5	River Yamuna before meeting the discharge of Drain No. 2 at Vill. Sanjoli (PNP-RDQ-007)		658.4	2.2	1600
6	River Yamuna after meeting the discharge of Drain No. 2 near Vill. Khojkipur. (PNP-RDQ-009)	28.86158/ 77.206427	669.3	3.2	100
7	River Yamuna before meeting Diversion Drain no. 8 (SNP-RDQ-002)	28.884931/ 77.147185	41270	6.2	900
8	River Yamuna after meeting Diversion Drain No. 8 at Palla (SNP-RDQ-004)	28.379079/ 77.486982	41870	3.5	absent
9	Yamuna River upstream before Budhiya Nalah at Vill. Manjhawali, Faridabad (FBD-RDQ-009)	28.384703/ 77.489578	35424	30	6300
10	Yamuna River downstream after meeting Budhiya Nalah at Vill. Manjhawali,	28.372917/ 77.487966	35489	37	7700

Sr. No.	Drains meeting with river Yamuna	latitude/ Longitude	Flow (in Cusecs)	BOD (mg/l)	F.Coli
	Faridabad (FBD-RDQ-011)				
11	River Yamuna D/S before Gaunchi Drain (PWL-RDQ-004)	27.914783/ 77.517323	35489	55	6000
12	River Yamuna D/S after Gaunchi Drain (PWL-RDQ-006)	27.909736/ 77.521114	35573	52	8500

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

Ground water quality is being monitored at 76 locations in the catchment of river Yamuna by HSPCB. Out of total 76 locations, ground water is found fit for drinking at 50 locations and non complying at 26 locations. Directions have already been conveyed to all the task forces to cap such water sources and a display board mentioning "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	1	5
4	Palwal	8	2	6
5	Gurgaon South	10	10	0
6	Gurgaon North	8	8	0
7	Karnal	5	5	0
8	Yamuna Nagar	3	3	0
9	Nuh	1	0	1
10	Sonepat	11	6	5
11	Bahadurgarh	7	1	6
	Total	76	50	26

XIV. Ground water regulation:

The industries are being persuaded to obtain permission from CGWA/HWRA 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

Phase-1

1. Project for reuse of Treated Waste Water from 35 No. STPs having cumulative capacity of 338.85 MLD in 21 districts has been sanctioned by Ministry of Agriculture & Farmers Welfare (MoA&FW), Govt. Of India under NABARD assisted MIF for INR 490.53 crore. This project will cover CCA of about 23,359 hectare through micro-irrigation and the entire project is to be executed upto 2023-24.
2. Out of 35 No. STPs, 27 No. STPs with cumulative capacity of 339.5 MLD have been found feasible from where TWW can be re-used for irrigation purpose.
3. Administrative Approval of these 27 No. STPs has been obtained from Govt.
4. Tender of 20 No. STPs stands approved till date.
5. Work on 16 No. STPs started at site.

6. Detail of these STPs showing physical progress, date of start & date of completion are as under:-

Latest status of 27 No. STPs taken up in phase-1 of "Project of re-use of Treated Waste Water for irrigation purpose through Micro-Irrigation"

Sr. No	Name of District	Name of STP	Capacity of STP(In MLD)	Status of Tender	Actual/Likely date of start work	Actual/Likely date of Completion	Status Yet to Start of Work
1	Bhiwani	Loharu	3.50	Approved	15.06.22	30.10.23	10%work completed
2	Bhiwani	Siwani	4.00	Approved	10.05.22	30.10.23	35%work completed
3	Gurugram	Behrampur	50.00	Approved	25.10.22	31.03.24	Yet to Start
4	Jhajjar	Kosli Road	5.50	Approved	15.04.22	30.04.23	50%work completed
5	Jhajjar	Sampla Road	5.00	Approved	15.04.22	30.04.23	35%work completed
6	Mohinderghar	Narnaul	7.50	Approved	23.05.22	30.06.23	20%work completed
7	Mohinderghar	Narnaul	6.00	Approved	23.05.22	30.06.23	20%work completed
8	Mohinderghar	Narnaul	5.50	Approved	23.05.22	30.06.23	20%work completed
9	Rohtak	Kanheli	10.00	Approved	10.06.22	31.12.23	10%work completed
10	Karnal	Karnal	50.00	Approved	10.06.22	31.03.24	15%work completed
11	Karnal	Haikat Nagar	10.00	Approved	19.06.22	31.03.24	5%work completed
12	Karnal	Shiv Colony	8.00	Approved	19.06.22	31.03.24	5%work completed
13	Ambala	Barara	4.00	Approved	15.11.22	31.12.23	Yet to Start
14	Amblala	Naraingarh	3.00	Approved	15.11.22	31.12.23	Yet to Start
15	Hisar	Narnaund	4.00	Approved	15.11.22	31.12.23	Yet to Start
16	Fatehabad	Fatehabad	10.00	Approved	28.05.22	30.04.23	5%work completed
17	Fatehabad	Tohana	10.00	Approved	10.04.22	30.10.23	35%work completed
18	Fatehabad	Jakhal	3.00	Approved	16.05.22	30.10.23	5%work completed
19	Fatehabad	Ratia	6.50	Approved	10.04.22	30.10.23	40%work completed
20	Yamuna Nagar	Radaur	3.50	Approved	15.04.22	30.04.23	40%work completed
21	Panipat	Jattal Road, Panipat	30.00	Not Approved	01.03.23	31.10.25	Yet to Start
22	Jind	Jind	28.00	Not Approved	01.03.23	31.10.25	Yet to Start
23	Hisar	Hansi	7.50	Not Approved	01.02.23	30.06.24	Yet to Start
24	Hisar	Rishi Nagar	40.00	Not Approved	01.02.23	31.10.25	Yet to Start
25	Kaithal	Gulha	10.00	Not Approved	10.04.23	31.10.25	Yet to Start
26	Kaithal	Kaithal	10.00	Not Approved	10.04.23	31.10.25	Yet to Start
27	Panchkula	Pinjore	5.00	Not Approved	10.04.23	30.06.24	Yet to Start
	TOTAL		339.50				

Phase-2

1. List of 57 No. STPs has been received from PHED for consideration in Phase-2 for the Project of re-use of Treated Waste Water for irrigation purpose through Micro-Irrigation.
2. The same list has already been endorsed to field functionaries to check the feasibility of these STPs for reuse of TWW for irrigation purpose.
3. Once the feasibility of these STPs for re-use of TWW for irrigation purpose is received from field functionaries, a detailed project will be submitted to NABARD for approval.

Latest status of 57 No. STPs taken up in phase-2 of "Project of re-use of Treated West Water for irrigation purpose through Micro-Irrigation"

Sr. No.	Name of Town	Location	Technology Based on	Capacity(ML D)
GHAGGAR ACTION PLAN				
1	Ambala City	Nayagaon-I	MBBR	3.25
2	Ambala City	Nayagaon-II	MBBR	3
3	Ambala City	Motti Nagar-I	MBBR	5
4	Ambala City	Motti Nagar-II	MBBR	5
5	Ambala City	Model Town	MBBR	6
6	Ambala City	Baldev Nagar-I	MBBR	5
7	Ambala City	Baldev Nagar-II	MBBR	3.25
8	Ambala City	Saddopur	MBBR+TT	0.25
9	Kalka	Bangala Town	MBBR+TT	0.25
10	Hisar	Gangwa Rajgarh Road Hisar	SBR	15
11	Hisar	Kaimri Road Hisar	SBR	4
12	Jind	Narwana Road Jind	MBBR	5
13	Jind	Old Hansi Road	SBR	7
14	Narwana	Jind Patiala Road	MBBR	3.5
15	Narwana	Behind FCI Godown, Dharodi Road	MBBR	3.75
16	Narwana	Narwana	MBBR	2
17	Uchana	Near Railway Line Uchana Road	Oxidation Pond	2
18	Uchana	Bhangra Road Uchana	MBBR	1.5
19	Safidon	Safidon	SBR	9
20	Kaithal	Manas Road Kaithal	SBR	10
21	Kaithal	Manas Road Kaithal	MBBR+TT	10
22	Kalayath	Near Nirmal Public School	MBBR+TT	5
23	Kurukshetra/ Thanesar	Narkatari Road	SBR	25
24	Pundri	Pai Road Pundari	MBBR+TT	3.5
25	Shahbad	Chappra Road, Shahbad	SBR	11.5
26	Ellenabad	Mamera Road	MBBR+TT	7.5
27	Fatehabad	Fatehabad	SBR	5
28	Rania	Jeevan Nagar Road, Rania	SBR	6
29	Sirsa	Kelnia	SBR	20
30	Kalanwali	Desumalkana Road	SBR	9.5
31	Mandi Dabwali	Chautala Road	SBR	16.5
32	Bhuna	Kullana Road	SBR	8
33	Yamuna Nagar	Badhimajra	SBR	10
34	Yamuna Nagar	Radaur Road	SBR	25
35	Yamuna Nagar	Badhimajra	SBR	10
36	Yamuna Nagar	Radaur Road	SBR	20
37	Jagadhari	Parwaloo	SBR	24
38	Chhacharauli (De-Notified Town)	Chhacharauli	MBBR+TT	3
39	Ladwa	Braichpur Road, Ladwa	MBBR+TT	7
40	Bahadurgarh	Najafgarh Road Near Bye Pass	SBR	36
41	Beri	Dubaldhan Road	Oxidation Pond	2
42	Gharaunda	Near BRM College	SBR	7
43	Indri	Near Grain Market	SBR	4
44	Nilokheri	Near Railway Station	MBBR+TT	6
45	Nissing	Kaithal Road	MBBR+TT	4
46	Panipat	Jattal Road	UASBWith Extended aeration	10
47	Panipat	Siwah	UASBWith Extended aeration	35
48	Panipat	Siwah	SBR	25
49	Taraori	Nadn Road	MBBR+TT	5.5
50	Hodal	Hodal	MBBR+TT	9
51	Palwal	Jodhpur Road Palwal	Oxidation Pond	9
52	Kalanaur	Jindran Road Kalanaur	MBBR	3.5
53	Meham	Bharan Road Mehram	MBBR	5
54	Rohtak	Singhpura Road	MBBR	10
55	Rohtak	Singhpura Road	SBR	14

Sr. No.	Name of Town	Location	Technology Based on	Capacity(ML D)
56	Rohtak	PGIMS Rohtak	SBR	19
57	Sampla	Sampla Kharkhoda By Pass Road	MBBR	4

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

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

In order to implement project of Micro Irrigation (MI) speedily, Government has decided to adopt bottom up approach i.e. 100% consent of stakeholders (farmers) for adoption of MI system shall be taken before execution of the project. The farmers or group of farmers who come forward with the chak of minimum 25 acres to adopt micro irrigation in their fields and also give consent to provide land free of cost for construction of tank for storage of water as per requirement of the chak for micro irrigation activity, Government shall provide all infrastructures like: laying of pipelines, construction of storage tanks, solar pumps etc free of cost & 95% subsidy shall be provided to on-farm drip and sprinkler micro irrigation components. The web portal for online application of farmers has also been launched.

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.

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 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
		9500	18078	11087

Plantation done in catchment of River Ghaggar by Forest Department in 2021-22

Forest Department has selected around 79 villages in the catchment areas of river Ghaggar and has proposed to plant around 6 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:-

Sr. No.	Name of District	No. of village	No. of plants to be planted	No. of plants planted till date
1	Panchkula	11	331596	330466
2	Ambala	11	138146	138146
3	Kaithal	6	13200	3050
4	Fatehabad	34	58295	58295
5	Sirsa	17	199450	70860
	Total	79	740687	600817

River Yamuna

Urban Estate Wise Plantation Done in HSVP Area

Sr. No.	Name of U/E	Plantation Done in 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 2021-22.

Forest Department has selected around 188 villages in the catchment areas of river Yamuna and has proposed to plant around 1.4 Cr. 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:-

Sr. No.	Name of District	No. of village	No. of plants to be planted	No. of plants planted till date
1	Yamuna Nagar	124	1245145	1245145
2	Karnal	19	8500	8500
3	Panipat	16	67948	67948
4	Sonepat	19	26500	22839
5	Faridabad	4	36500	46000
6	Palwal	6	12058	12058
Total		188	1396651	14025490

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 Chuaharpur	184
	ii) Adi Badri Herbal Park	10
Karnal	i) Ashok Vatika at Gharaunda	5
	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 is in the process to set up system to reuse the treated sewage. Details are given in point XV (a).

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	Complaint lodged against illegal minors	FIR lodged against illegal minors
Panchkula, Ambala, Yamuna Nagar, Kurukshetra/Kaithal, Panipat/Karnal, Sonapat, Faridabad/Palwal	Nov, 22	100	36+9 (on Superdari)	8286150	18	15

Name of District	Period	Details of regulation of mining activities	Violation identified	Action taken	Remarks
PKL	Nov, 22	1. Boundary Pillars are installed surrounded the contract area. 2. Weight Bridges installed at every lease. 3. CCTV installed at entry and exit point. 4. Dispatch of mineral with e-rawana. 5. Regular checking of by contract area of field staff.	Nil	Nil	Mining activities running.
Ambala	Nov, 22	1. Regulation checking for day and night as well as surprised checking. 2. Mineral transportation with e-rawana 3. MDL is mandatory for sale and purchase of mineral by screening plant.	Yes	Fine imposed or FIR lodged against persons involved in illegal mining/transportation of illegal mineral.	Illegal mining operation is closed since 01.07.2020 but some periodic cases of illegal mining by local villagers were also noticed & found and action has been taken against them, by this office.
Yamuna Nagar	Nov, 22	It is informed that the mining operations are suspended by the mining blocks (river bed) from 15.07.2022 due to rainy season in the District Yamuna Nagar. Details of activities are as under:- 1. Weighbridges are installed 2. Dispatch of mineral in the vehicles with e-Rawaana. 3. Regular checking done by the field staff.	01 on dated 10.11.2022 06 poclain machines and 03 trcks were caught standing after permissible time duration i.e. 07 pm (as per EC) in the lease area of B-13 mine (M/s Kawaljeet Singh Batra during night team)	All the vehicles siexed in the concerned police station.	It is also informed that the owner of the pocilain machines paid the fine of Rs. 27,00,000 after that machines were released accordingly. Also, owner has filed an appeal under rule 109(1) before DMG for refund.
KKR/KTL	Nov, 22	Nil	Nil	Nil	Nil
PNP/KNL	Nov, 22	1. 50% Boundary pillars are installed surroundings the contract area. 2. Weight bridges are installed at every point. 3. CCTV installed at entry and	Nil	Nil	Mining activities in village Faridpur by unit no. 4, Karnal.

Name of District	Period	Details of regulation of mining activities	Violation identified	Action taken	Remarks
		exit point. 4. Dispatch of mineral with e-rawaana. 5. Regular checking done by Field Staff.			
SNP	Nov, 22	1. Boundary Pillars are installed surrounded the contract area. 2. Weight Bridges istalled at every lease. 3. CCTV installed at entry and exit point. 4. Dispatch of mineral with e-rawana. 5. Regular checking of by contract area of field staff.	Nil	Nil	Nil
Faridabad/Palwal	Nov, 22	Nil	Nil	Nil	Nil

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

Action by HSPCB

✓ Ghaggar

- No. of industries inspected - 242
- No. of closure order issued against violating units - 215
- No. of violating units prosecuted - 64
- No. of violating units against whom EC imposed - 42
- Amount of EC Imposed - 7.8 Crore

▪ Yamuna

- No. of industries inspected - 1402
- No. of closure order issued against violating units - 1103
- No. of violating units prosecuted - 358
- No. of violating units against whom EC imposed - 233
- Amount of EC Imposed - 86.8 Crore

Status of existing STPs in the catchment of river Ghaggar

Sr. No.	Name and Region of STPs	Deptt.	Existing STP and Capacity (MLD)	Date of sampling	Latest Compliance Status
Ambala					
1	3.00 MLD STP Naya Gaon , Unit.I , Ambala City by PHED in January, 2011	PHED	3	30.11.2022	Non-Complying
2	3.25 MLD STP Naya Gaon , Unit.II Ambala City by PHED in 1.4.2016	PHED	3.25	30.11.2022	Non-Complying
3	5 MLD Baldev Nagar , Unit.I , Ambala City by PHED 1.12.2012	PHED	5	18.11.2022	Non-Complying
4	3.25 Baldev Nagar , Unit.II , Ambala City by PHED in 1.4.2016	PHED	3.25	18.11.2022	Non-Complying
5	5 MLD Moti Nagar, Unit.I , Ambala City by PHED in June 2010	PHED	5	30.11.2022	Non-Complying
6	5 MLD STP Moti Nagar , Unit.II , Ambala City by PHED Ambala in 1.8.2016	PHED	5	30.11.2022	Non-Complying
7	6 MLD STP Modal Town, Ambala City by PHED in 1.7.2012	PHED	6	28.11.2022	Non-Complying
8	3.25 Nasirpur Ambala City by PHED in 31.9.2016	PHED	3.25	30.11.2022	Non-Complying
9	0.25 MLD Sadopur , Ambala PHED in 31.12.2016	PHED	0.25	16.11.2022	Complying
10	3.00 MLD Devi Nagar , Ambala City by PHED on 31.5.2013	PHED	3	16.11.2022	Non-Complying
11	3 MLD STP Nariangarh , Ambala by PHED in 1.7.2014	PHED	3	18.11.2022	Non-Complying
12	2 MLD STP Sec.7 , Urban Estate , Ambala City Ambala by HUDA in 10.9.2015	HSVP	2	28.11.2022	Complying
13	5 MLD STP Ambala by HSVP	HSVP	5	28.11.2022	Complying
Kurukshetra					
14	25 MLD STP Thanesar, Kurukshetra by PHED in 31.05.2019	PHED	25	01.11.2022	Complying
15	8 MLD STP Model Town, Pehowa Kurukshetra by PHED in May dt. 2015	PHED	8	01.11.2022	Non-Complying
16	11.5 MLD STP Ladwa Road , Shahbad Kurukshetra by PHED in May, 2016	PHED	11.5	02.11.2022	Complying
17	15 MLD STP Kurukshetra by HSVP	HSVP	15	01.11.2022	Complying
Panchkula					
18	4.5 MLD Kalka Panchkula by PHED in 30.3.2015	PHED	4.5	15.11.2022	Non-Complying
19	0.25 MLD Kalka Panchkula by PHED in 28.5. 2017	PHED	0.25	15.11.2022	Complying except Faecal Coliform

Sr. No.	Name and Region of STPs	Deptt.	Existing STP and Capacity (MLD)	Date of sampling	Latest Compliance Status
20	5 MLD STP Nalagarh Road, Manakpur, Pinjore Panchkula by PHED 31.1.2015	PHED	5	15.11.2022	Complying
21	18 MLD STP Panchkula by HUDA in 31.12.2002	HSVP	18	11.11.2022	Non-Complying
22	39 MLD STP Panchkula by HUDA in Nov. 2011	HSVP	39	11.11.2022	Complying
23	15 MLD STP Sector- 28, Panchkula by HUDA in 2012	HSVP	15	10.11.2022	Complying
24	9 MLD STP Garrison Engineer , Chandimandir Panchkula in April 2012	GE	9	21.11.2022	Complying
Jind					
25	15 MLD STP by PHED Jind in Jan, 2009	PHED	15	25.11.2022	Non-Complying
26	3.5 MLD Patiala Road , Narwana by PHED in Jan , 2011	PHED	3.5	22.11.2022	Complying except Faecal Coliform
27	3.75 MLD STP Narwana Jind by PHED in Jan , 2011	PHED	3.75	23.11.2022	Complying except Faecal Coliform
28	02 MLD STP, PHED , Dablain Road, Narwana, Jind (24.5.2017)	PHED	2	23.11.2022	Complying except Faecal Coliform
29	2 MLD STP Uchana Jind by PHED in 22.2.2012	PHED	2	22.11.2022	Non-Complying
30	1.5 MLD Uchana by PHED in 31.5.2013	PHED	1.5	22.11.2022	Non-Complying
31	5 MLD STP Jind by PHED in 1.4.2016	PHED	5	25.11.2022	Non-Complying
32	7 MLD STP, Jind by PHED in 30.11.2019	PHED	7	25.11.2022	Complying except Faecal Coliform
33	9 MLD STP Safidon , Jind by PHED in 31.05.2018	PHED	9	17.11.2022	Complying
34	10 MLD by HUDA Jind in 27.12.2014	HSVP	10	25.11.2022	Complying
Kaithal					
35	10 MLD STP Cheeka, Kaithal by PHED in 1.4.2013	PHED	10	25.11.2022	Complying
36	10 MLD STP , Jind Road Kaithal by PHED in September , 2012	PHED	10	23.11.2022	Complying
37	10 MLD STP Manas Road, Kaithal by PHED in June , 2006 (MBBR)	PHED	10	23.11.2022	Complying
38	10 MLD Manas Road,Kaithal bby PHED in Sep , 2012 (SBR)	PHED	10	23.11.2022	Complying
39	5 MLD STP Kalayat , Kaithal by PHED in 1.4.2014	PHED	5	25.11.2022	Complying
40	3.5 Pundri Kaithal by PHED in 4.7.2014	PHED	3.5	25.11.2022	Complying
41	7.5 MLD Kaithal by HUDA in 31.8.2016	HSVP	7.5	23.11.2022	Complying
Hisar					

Sr. No.	Name and Region of STPs	Deptt.	Existing STP and Capacity (MLD)	Date of sampling	Latest Compliance Status
42	15 MLD STP Azad Nagar, Rajgarh Road Hisar by PHED in 31.12.2014	PHED	15	15.11.2022	Complying
43	40 MLD STP Rishi Nagar , Hisar by PHED in 02.12.2017	PHED	40	15.11.2022	Complying
44	4 MLD STP Narnaund, Hisar by PHED	PHED	4	22.11.2022	Complying
45	4 MLD STP Kaimri Road, Hisar by PHED in 2018	PHED	4	19.11.2022	Non-Complying
46	15 MLD STP Dabara Tosham Road , Hisar by HUDA in 31.7.2014	HSVP	15	15.11.2022	Complying
47	8 MLD STP Village Dabra by ULBD	ULBD	8	15.11.2022	Complying
Sirsa					
48	15 MLD STP, Shamsabad patti , Kalania Road, Sirsa by PHED in 1.7.2012	PHED	15	18.11.2022	Complying
49	5 MLD STP, Vill. Nattar 1 , Sirsa by PHED in 1.5.2013	PHED	5	18.11.2022	Non-Complying
50	5 MLD STP, Vill. Nattar 2 , Sirsa by PHED in 14.09.17	PHED	5	18.11.2022	Non-Complying
51	7.5 MLD STP Ellenabad Sirsa by PHED in 11.5.2015	PHED	7.5	18.11.2022	Complying
52	9.5 MLD STP, Daddu Road,Kalanwali, Sirsa by PHED in 17.02.2018	PHED	9.5	18.11.2022	Complying
53	6 MLD STP Rania Sirsa by PHED in 30.6.2017	PHED	6	18.11.2022	Complying
54	16.5 MLD STP Dabwali, Sirsa by PHED in 04.12.2017	PHED	16.5	18.11.2022	Complying
55	20 MLD STP at Kelnia Sirsa by PHED	PHED	20	18.11.2022	Complying
Fatehabad					
56	10 MLD STP Vill. Bhodia Khera, Bhattu Road, Fatehabad by PHED in 1.4.2013	PHED	10	08.11.2022	Complying except Faecal Coliform
57	10 MLD STP Vill. Amani, Tohana, Distt. Fatehabad by PHED in 1.4.2013	PHED	10	15.11.2022	Non-Complying
58	6.5 MLD STP Ratia , Fatehabad by PHED in 1.9.2014	PHED	6.5	15.11.2022	Complying
59	5 MLD STP Kharati Khera Road, Fatehabad by PHED in 31.10.2018	PHED	5	08.11.2022	Complying
60	3 MLD STPJhakhal Mandi, Fatehabad by PHED in 30.9.2019	PHED	3	15.11.2022	Complying
61	8 MLD STP at Bhuna, Fatehabad	PHED	8		Complying
62	10 MLD STP Majra, Fatehabad by HUDA in 16.12.17	HSVP	10	08.11.2022	Complying
	Total No. of STPs- 62		535		

Status of existing STPs in the catchment of river Yamuna

Sr. No.	Name of the STP	Deptt.	Capacity	Date of Sampling	Latest compliance status
Yamuna Nagar					
1	Radaur Road, Yamuna Nagar by PHED	PHED	20	28.11.2022	Complying
2	Radaur Road, Yamuna Nagar by PHED	PHED	25	28.11.2022	Complying
3	Baddimajra, Yamuna Nagar by PHED*	PHED	10	28.11.2022	Complying
4	Baddimajra, Yamuna Nagar by PHED*	PHED	10		Complying
5	Parwaloo, Jagadhri Yamuna Nagar by PHED	PHED	24	10.11.2022	Complying
6	Chhachhrauli Yamuna Nagar by PHED	PHED	3	28.11.2022	Complying
7	Radaur Yamuna Nagar by PHED	PHED	3.5	28.11.2022	Complying
Ladwa, Kurukshetra					
8	Indri Road, Ladwa Kurukshetra by PHED	PHED	7	02.11.2022	Complying
Karnal					
9	Indri, Karnal by PHED*	PHED	4	25.11.2022	Complying
10	Nilokheri, Karnal by PHED	PHED	6	25.11.2022	Complying
11	Nissing Karnal by PHED	PHED	4	25.11.2022	Complying
12	Tarori Karnal by PHED	PHED	5.5	25.11.2022	Complying
13	Gharaunda, Karnal by PHED	PHED	7	25.11.2022	Complying
14	Gogharipur Road, karnal by ULB	ULBD	10	15.11.2022	Complying
15	RK Puram, Karnal by ULB	ULBD	8	15.11.2022	Complying
16	Transport Nagar, Karnal by ULB*	ULBD	50	15.11.2022	Complying
Panipat					
17	Sewah, Panipat by PHED	PHED	35	24.11.2022	Complying
18	Sewah, Panipat Panipat by PHED	PHED	25	24.11.2022	Complying
19	Jattal Road, Panipat by PHED	PHED	20	25.11.2022	Complying
20	Jattal Road, Panipat by PHED	PHED	10	25.11.2022	Complying
21	Samalkha, Panipat by PHED	PHED	5	25.11.2022	Non Complying
22	Sec-19, Panipat by HSVP	HSVP	30	25.11.2022	Complying
23	Sec-6, Panipat by HSVP	HSVP	0.8	25.11.2022	Complying
Sonepat					
24	Kharkhoda Sonepat by PHED	PHED	4.5	28.11.2022	Complying
25	Ganaur Sonepat	PHED	7	01.11.2022	Non Complying
26	Gohana Sonepat by PHED	PHED	3	28.07.2022	Non Complying

Sr. No.	Name of the STP	Deptt.	Capacity	Date of Sampling	Latest compliance status
27	Gohana Sonapat by PHED	PHED	8.3	28.07.2022	Non Complying
28	Rathdana Road, Sonapat by ULB	ULBD	30	01.11.2022	Complying
29	Kakroi Road, Sonapat by ULB	ULBD	25	01.11.2022	Complying
30	Rajiv Gandhi Edu. City, Phase-I, Sonapat by HSVP	HSVP	7.5	28.11.2022	Complying
Rohtak					
31	PGI Rohtak by PHED	PHED	19.5	30.11.2022	Complying
32	Sonaria, Rohtak by PHED	PHED	40	30.11.2022	Non-complying
33	Kalanaur Rohtak by PHED	PHED	3.5	30.11.2022	Non-complying
34	Meham Rohtak by PHED	PHED	5	30.11.2022	Non-complying
35	Singhpura, Rohtak by PHED	PHED	14	30.11.2022	Complying
36	Sampla Rohtak by PHED	PHED	4	30.11.2022	Non-complying
37	Sec-25, Rohtak by HSVP	HSVP	10	30.10.2021	Non-complying (Under Upgradation)
38	Singhpura, Rohtak by ULB*		10		Non Complying (Under Maintenance)
Jhajjar					
39	Jhajjar by PHED	PHED	5	29.11.2022	Non-complying
40	Jhajjar by PHED	PHED	5.5	29.11.2022	Non-complying
41	Beri Jhajjar by PHED	PHED	3	29.11.2022	Complying
42	Line Par, Bahadurgarh by PHED	PHED	18	29.11.2022	Non-complying
43	Najafgarh road Bahadurgarh by PHED	PHED	36	29.11.2022	Complying
44	Sec-36, Bahadurgarh by HSVP	HSVP	10	29.11.2022	Complying
Nuh					
45	Tarou by PHED	PHED	4.5	25.11.2022	Non Complying
46	Punhana by PHED	PHED	4.5	25.11.2022	Non Complying
47	Nuh by PHED	PHED	3.6	25.11.2022	Non Complying
48	Ferozpur Jhirka by PHED	PHED	5	25.11.2022	Non Complying
Palwal					
49	Hathin by PHED	PHED	4.5	30.11.2022	Non Complying
50	Hodal by PHED	PHED	9	29.11.2022	Non Complying
51	Palwal by PHED	PHED	9	30.11.2022	Non Complying
52	Hassanpur by PHED	PHED	3	29.11.2022	Non Complying
Faridabad					

Sr. No.	Name of the STP	Deptt.	Capacity	Date of Sampling	Latest compliance status
53	Badshahpur, Faridabad by ULB	ULBD	45	30.11.2022	Non-Complying
54	Faridabad by HSVP	HSVP	7.5		Complying
Gurugram					
55	Dhanwapur, Gurgaon by GMDA	GMDA	50	28.11.2022	Complying
56	Dhanwapur, Gurgaon by GMDA	GMDA	68	28.11.2022	Complying
57	Behrampur, Gurgaon by GMDA	GMDA	120	18.11.2022	Complying
58	Behrampur, Gurgaon by GMDA	GMDA	50	18.11.2022	Complying
59	Dhanwapur, Gurgaon by GMDA	GMDA	100	28.11.2022	Non-Complying
	Total		1074.2		

Status of existing STPs in the catchment of other catchment

Sr. No.	Name of the town/ city	Deptt.	Existing STP and Capacity (MLD)	Date of sampling	Latest Compliance Status
Gurugram					
1	Sohna, Gurgaon	PHED	6	29.11.2022	Non-Complying
2	Pataudi, Gurgaon	PHED	4.5	16.11.2022	Non-Complying
3	Farrukhnagar, Gurgaon	PHED	3	16.11.2022	Complying
4	Haily Mandi, Gurgaon	PHED	5.5	16.11.2022	Complying
Jind					
5	Julana, Jind	PHED	4	25.11.2022	Non-Complying
Bhiwani					
6	Dhana Road, Bhiwani	PHED	10	27.09.2022	Non-Complying
7	Bhiwani	PHED	10	27.09.2022	Non-Complying
8	Bhiwani, Phase-I	PHED	15	27.09.2022	Complying
9	Bhiwani, Phase-II	PHED	15	27.09.2022	Non-Complying
10	Charkhi Dadri, Bhiwani	PHED	5	16.09.2022	Non-Complying
11	Chirya Road, Charkhi Dadri, Bhiwani	PHED	5	16.09.2022	Non-Complying
12	Bawani Khera, Bhiwani	PHED	4.5	19.09.2022	Non-Complying
13	Loharu, Bhiwani	PHED	3.5	19.09.2022	Non-Complying
14	Tosham, Bhiwani	PHED	3	19.09.2022	Non-Complying
15	Siwani, Bhiwani	PHED	4	19.09.2022	Non-Complying
16	Bhiwani	HSVP	10	28.09.2022	Complying
Mohindergarh					
17	Mohindergarh	PHED	6.5	01.07.2022	Non-Complying
18	Ateli Mandi, Mohindergarh	PHED	2	30.09.2022	Non-Complying
19	Kanina, Mohindergarh	PHED	3	30.09.2022	Non-Complying
20	Rewari Road, Narnaul, Mohindergarh	PHED	7.5	30.09.2022	Non-Complying
21	Near Chinkara Rest House, Rewari Road, Narnaul	MC	6		Non-Operational and effluent being treated in 7.5 MLD STP Narnaul
Rewari					
22	Bawal, Rewari	PHED	3	30.09.2022	Non-Complying
23	Rewari	PHED	6.5	25.11.2022	Non-Complying
24	Rewari	PHED	8	25.11.2022	Non-Complying
25	Rewari	PHED	16	25.11.2022	Non-Complying
26	Dharuhera	PHED	9.5	25.11.2022	Non-Complying
27	Kosli, Rewari	PHED	3	30.09.2022	Non-Complying
28	Dharuhera	HSVP	5	25.11.2022	Complying
Ambala					
29	Barara, Ambala	PHED	4	30.11.2022	Complying
Karnal					

Sr. No.	Name of the town/ city	Deptt.	Existing STP and Capacity (MLD)	Date of sampling	Latest Compliance Status
30	Assandh, Karnal	PHED	5	25.11.2022	Complying
Hisar					
31	Hansi, Hisar	PHED	6.5	15.11.2022	Non-Complying
32	Dhani Gram, Barwala, Hisar	PHED	6	22.11.2022	Non-Complying
33	Uklana, Hisar	PHED	6.5	22.11.2022	Complying
34	Dhani Kushal, Bhiwani Road, Hansi	PHED	5	15.11.2022	Non-Complying
35	Lalpura- Jind Road, Hansi	PHED	7.5	15.11.2022	Non-Complying
	Total -35		225		

13 Clusters of ISWM in river catchment

Sr. No.	Cluster	ULBs within clusters	Plant Capacity (TPD)	Project Status
1	Sonepat-Panipat	Sonepat, Panipat, Gannaur, Samalkha	700	The Work of Sonepat- Panipat Cluster has been awarded to M/s JBM Group and the Waste to Energy Plant has been commissioned and operational since 16 th August 2021.
2	Faridabad-Gurugram	Faridabad, Gurugram	2100	The Work of Gurugram – Faridabad Cluster has been awarded to M/s Ecogreen Energy Pvt. Ltd and the Plant is expected to be commissioned upto December 2023.
3	Bhiwani	Bhiwani, BawaniKhera, CharkhiDadri, Loharu, Badhra	155	The Financial bid of Bhiwani cluster has been opened and under consideration/ approval of Committee of Secretaries on Infrastructure (CoSI).
4	Sirsa	Sirsa, Rania, Ellenabad, Kalanwali, MandiDabwali	168	The Financial bid of Sirsa cluster has been opened and under consideration/approval of Committee of Secretaries on Infrastructure (CoSI).
5	Ambala-Yamunanagar	Ambala, Naraingarh, Yamuna Nagar, Radaur, Barara, Sadhura	675	Bids for Ambala-Yamunanagar Cluster has been re-invited and the last date of submission of bids was 17.05.2022. No bid received. Tender will be recalled shortly.
6	Karnal-Kaithal-Thanesar	Indri, NilokheriTarori, KarnalGharaunda, Nissing, Assandh, Thanesar, Shahbad, Ladwa, Kaithal, Kalayat, Rajound, Cheeka, Pundri	638	Bids for Karnal-Kaithal-Kurukshetra Cluster was re-invited with last date of submission of bids as 17.05.2022. One Bid received and after Technical Evaluation Financial Bid has been opened. Case is under consideration/ approval of Committee of Secretaries on Infrastructure (CoSI).
7	Panchkula	Panchkula and Kalka	280	Bids for Panchkula Cluster has been re- invited and the last date of submission of bids was 17.05.2022. Three Bids received and only one bidder is technically qualified. Financial Bid has been opened. Case is under consideration/ approval of Committee of Secretaries on Infrastructure (CoSI).
8	Rohtak-Bahadurgarh-Jhajjar	Kalanaur, Meham, Rohtak, Gohana, Bahadurgarh, Kharkhoda, Julana,	628	Bids for Rohtak-Bahadurgarh-Jhajjar Cluster has been re-invited and the last date of submission of bids was 17.05.2022. No bid

Sr. No.	Cluster	ULBs within clusters	Plant Capacity (TPD)	Project Status
		Jhajjar, Sampla, Beri		received. Tender will be recalled shortly.
9	Jind	Jind, Narwana, Safidon, Uchana, Narnaund, Sisai, Bass	181	The Tender Documents of Jind Cluster is ready and bids will be invited shortly.
10	Rewari	Bawal, Dharuhera, Rewari, Mahendergarh, Kanina	407	The Tender Documents of Rewari Cluster is ready and bids will be invited shortly.
11	Hisar-Fatehabad	Hisar, Barwala, Hansi, Siwani, Fatehabad, Bhuna, UklanaMandi, Ratia, Tohana, JhakalMandi	432	The Tender Documents of Hisar-Fatehabad Cluster is ready. The alternative land has been identified at village Beed, Hansi measuring 17 Acres 01 Marla. However, this proposed land is required to be transferred from Agriculture Department to MC Hisar for the said project. ULB Department is required to deposit 2.12 Crore to Agriculture Department. Bids will be invited once the land is transferred to MC Hisar.
12	Punhana	Punhana, F/Jhirka, Hathin, Hodal, Palwal, Sohna, Nuh, Tauru	466	The Tender Documents of Punhana Cluster is ready and bids will be invited shortly.
13	Faruknagar	Farukh Nagar, HailyMandi, Pataudi	26	The Tender Documents of Farukhnagar Cluster is ready. However, the proposed land for establishment of plant for this Cluster is in dispute. Bids will be invited once the clear land is available.
Total			6856	

Details of Dump Site

Sr. No	District Name	Name Of Mc	Dumpsite Location	Quantity of Waste Legacy Waste (Ton)	Quantity of Legacy Waste Remediated (Ton)
1	Ambala	Ambala	patvi police chowki, Naraingarh Road	577349	530850
2		Barara	Rajouli Road Tehsil Barara District Ambala	9800	
3	Bhiwani	Bawani Khera	HansiBhiwani Main Road ,Bawanikhera	9185	
4		Bhiwani	DADRI ROAD BHIWANI	314000	105000
5		Charkhi Dadri	Bhiwani Delhi Bypass	56400	26400
6		Loharu	Pilani Road Loharu	5109	5109
7		Siwani	Near Toshamroad,Siwani	1236	1236
8	Fatehabad	Bhuna	Jakhal Road Bhuna	17400	
9		Fatehabad	Biggar Road, Village Matana	90000	47000
10		Jakhal Mandi	Near Railway track, Jakhalmandi	3600	
11		Ratia	JakhanDadi road near gaushala, Ratia	23500	
12		Tohana	near railway line tibbabasti	12700	
13	Gurgaon	Farrukhnagar	On Chand Nagar Road Ward No. 11 Farrukhnagar	11857	
14		Gurgaon	Bandhwari Village Gurgaon faridabad road	4700000	1700000
15		Hailey Mandi	HAILY MANDI	300	
16		Manesar	Bawal, Rewari	152500	
17		Pataudi	Ward No. 10 Near Moti DungriJohar	10727	10727
18		Sohna	Behind Nirankari College,	54000	500
19	Hisar	Barwala	Kharkda Road	6050	
20		Hansi	Village Beer Farm	13000	
21		Hisar	Dhandoor Village sirsa Road	200000	45000
22		Narnaund	ward no. 04 near shamshanghatt	3350	
23		Uklana	THEH UKALANA	6400	
24	Jhajjar	Badli	SWM Site MC Badli, Village Pasour, Jhajjar Road, Badli	11060	
25		Bahadurgarh	Municipal Council Bahadurgarh Dumping site, NayaGaonBadliroad ,Bahadurgarh (Jhajjar) Haryana.	430000	170000
26		Beri	Near MC Beri office, Beri	10000	2885
27		Jhajjar	Municipal Committee Jhajjar Dumping site , Uathloadha Village , Rewari road, Jhajjar (Haryana)	30000	
28	Jind	Jind	HANSI ROAD JIND	288862	100000
29		Julana	WARD NO. 1 JULANA	5681	
30		Narwana	Lic Road Narwana	87561	
31		Safidon	Near New Grain Food market	14500	
32		Uchana	KheriMsania Road	2800	

Sr. No	District Name	Name Of Mc	Dumpsite Location	Quantity of Waste Legacy Waste (Ton)	Quantity of Legacy Waste Remediated (Ton)
33	Kaithal	Cheeka	KHAROUDI ROAD CHEEKA	28000	16000
34		Kaithal	Khurana road kaithal	168000	98000
35		Kalayat	MC Kaithal Dumpsite , Khurana Road Kaithal	30000	5000
36		Pundri	MC Pundri , Dumpsite Kakot Road	4100	
37		Rajound	Ward 03	5200	
38		Siwan	Siwan Municipal Committee Dumpsite , Jungle Road Siwan	4726	
39	Karnal	Assandh	Near New Fruit Mandi, Kanchi Gate, Assandh	22300	15300
40		Gharaunda	Village Begampur near Gharaunda	20236	20236
41		Indri	Indri byepaas road , Indri, Karnal	3000	3000
42		Karnal	Vill: Shekhpura, Meerut Road, Karnal	95022	71800
43		Nilokheri	Ward No 6 Dumping point, Kali Mata Mandir Road, Nilokhedi	11000	11000
44		Nissing	Ward No.13, Near Mata SundriKhalsa Girls College, Main KarnalKaithal road, Nissing	15000	15000
45		Taraori	Nadana Road. Near Power House, Taraori	8766	8766
46	Kurukshetra	Ladwa	ward no.1, ladwa	16100	
47		Pehowa	Near Saraswati Petrol pump filling station Pehowa	10660	10660
48		Shahbad	Near Saha Road	743	743
49	Mahendragarh	Thanesar	Village Bazidpur near Pipli	800	
50		Ateli	khorgaon	4959	
51		Kanina	SIHOR ROAD, KANINA	10920	
52		Mahendragarh	dholposh	39349	
53		Nangal Chaudhary	ward no5 NalayjaNolpur	1550	
54		Narnaul	KhaldapahadiNear by pass	188000	92546
55	Mewat	Ferozepur Jhirka	DoodhGhati	20000	
56		Nuh	Ward No.3. Jogipur Road, Near Vijaya Gas Agency, Nuh town , Haryana	15768	
57		Punahana	MandkikharaJamalgarh Road Punhana	20000	
58		Taoru	burakhapahadi	35000	
59	Palwal	Hathin	Ward No 5, Hathin	3420	1650
60		Hodal	RAVIA PATTI	6000	
61		Palwal	ward no. 27 meghpur	21000	21000
62	Panchkula	Panchkula	sector 23, Panchkula	416788	
63	Panipat	Panipat	Village Nimbri, Panipat	409200	302110
64	Rewari	Rewari	Ramsinghpura, Bawal	87217	62217
65	Rohtak	Maham	MC Maham, Hisar Road	13630	12961
66		Rohtak	Bhiwani Road, Rohtak	800000	550000
67	Sirsa	Ellenabad	Near by Pass Rania Road. Ellenabad	10816	

Sr. No	District Name	Name Of Mc	Dumpsite Location	Quantity of Waste Legacy Waste (Ton)	Quantity of Legacy Waste Remediated (Ton)
68		Kalanwali	Dadu Road Kalawali	3280	1480
69		Mandi Dabwali	Near Rambagh ward no 4 MandiDabwali	126684	30684
70		Rania	BACK SIDE NIRANKARI BHAWAN, BALASAR ROAD, WARD NO.02, RANIA	5200	
71		Sirsa	Near by Village Bakriyanwali SWM Plant , Sirsa	263000	44530
72	Sonipat	Ganaur	Badshahi Road Near BSNL Tower	20000	
73		Gohana	Thaska Village	119000	42000
74		Kharkhoda	sampla road bypass	24000	21000
75		Sonipat	Behind DCRUST University	300000	
76	Yamunanagar	Yamunanagar	VillKailKhera Ambala - Jagadhari Road	192001	126001
Total				10759362	4328391
				Say 107 Lakh MT	Say 43.28 Lakh MT

Annexure-6

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 (Land fillable/ 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, Sonapat.	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, Sonapat	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