

I/168926/2023



HARYANA STATE POLLUTION CONTROL BOARD
C-11, SECTOR-6, PANCHKULA
Ph-0172-577870-73, Fax No. 2581201
E-mail: hspcbwatercell@gmail.com



HSPCB/WC/

Dated 13/07/2023

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, 2023.

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, 2023 on the prescribed format for your kind information and necessary action please.

DA/ As above

Digitally Signed by

Jatinder Pal Singh

Date: 13-07-2023 17:02:07

Sr. Eny. Engineer (HQ)
Reasons 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 May, 2023

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 catchment
62 STPs of treatment capacity of 535 MLD
- Yamuna catchment
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 catchment
295.7 MLD effluent reaching STPs.
- Yamuna catchment
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 catchment**

There is Gap of 240 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. Palwal (9.3 MLD), Faridabad (144.5 MLD) and Gurugram (86 MLD).

- **No. of Operational STPs:**

Ghaggar catchment

There are total 62 STPs installed in the catchment of river Ghaggar with the capacity of 535 MLD. As per latest status, 22 STP is not meeting the prescribed parameters. The list is enclosed as **Annexure-1**.

Yamuna catchment

There are total 59 STPs installed in the catchment of river Yamuna with the capacity of 1075 MLD. As per latest status, 24 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 installed in the other areas not falling in the catchment of rivers. Out of these 20 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 -1, 5 MLD Moti Nagar, Unit-II, 6 MLD Modal Town, 3.25 MLD Nasirpur and 3 MLD Devi Nagar,

Sr. No.	Town	Existing STP Capacity (MLD)	Capacity Being Utilized	Operational status of STP	Compliance status of STPs
					Ambala)
3	Ratia	6.5	4.5	Operational	Complying
4	Tohana	10	8.2	Operational	Complying
5	Jhakal Mandi	3	1.5	Operational	Complying
6	Fatehabad	33	14	Operational	4 STPs are complying
7	Hisar	82	50	Operational	4 STPs are complying, 1 STP is Non Complying (4 MLD Kaimri Road, Hisar)
8	Narnaund	4	2.15	Operational	Non Complying
9	Narwana	9.25	7.03	Operational	2 STPs are Complying and 1 STP is non-complying (2 MLD Dablain Road Narwana)
10	Uchana	3.5	2.75	Operational	2 STPs are Non complying
11	Jind	37	20	Operational	3 STPs are Complying, and 1 STP is Non Complying (5 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	Kalayat	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	2 STPs are Non-complying
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

Sr. No.	Town	Existing STP Capacity (MLD)	Capacity Being Utilized	Operational status of STP	Compliance status of STPs
					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	Complying
14	Gohana	11.3	8.72	Operational	2 STPs are Non- Complying
15	Ganaur	7	5.5	Operational	Non-Complying
16	Sonepat	62.5	48.3	Operational	3 STPs are Complying
17	Kharkhoda	4.5	2	Operational	Non-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,

Sr. No.	Town	Existing STP Capacity (MLD)	Capacity Being Utilized	Operational status of STP	Compliance status of STPs
					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
4	Haily Mandi	5.5	2.9	Operational	complying
5	Julana	4	2.3	Operational	complying
6	Dhana Road, Bhiwani	10		Operational	Non Complying
7	Bhiwani	10	38	Operational	Non Complying
8	Bhiwani, Phase-I	15		Operational	Complying except Faecal Coliform
9	Bhiwani, Phase-II	15		Operational	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	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

Sr. No.	Town	Existing STP Capacity (MLD)	Capacity Being Utilized	Operational status of STP	Compliance status of STPs
20	Bawal	3	2	Operational	Non Complying
21	Rewari	6.5		Operational	Non Complying
22	Rewari	8		Operational	Complying
23	Rewari	16	20	Operational	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	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
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	99%		31.07.2023
4	Shahpur Machhonda	7.5	83%		31.07.2023
5	Saketri-STP	1.5	100%		Completed
6	Uchana	2	100%		Completed
7	Ramgarh, Panchkula	1	100%		Completed
8	Hisar	15	84%		30.09.2023
	Total	61			
Yamuna Catchment					

Sr. No.	Location	Capacity of the plant in MLD	Physical Progress\ in %	Status of I&D or House sewer connections	Completion Timeline
1	Shiv Colony, Karnal	8	91%	195520 House sewer connections provided in the Yamuna Catchment.	30.09.2023
2	Phooshgarh, Karnal	20	92%		30.09.2023
3	Peer Bodhi, Rohak	15	95%		30.09.2023
4	Faridabad, sector-21	10	100%		Completed
5	Kithwari	10	97%		30.09.2023
6	Jodhpur Road, Palwal	15	100%		Completed
7	Ferozpur, Palwal	2.5	100%		Completed
8	Sonepat (Aterna)	15	78%		31.12.2023
9	Murthal Sonepat	3	85%		31.07.2023
10	Jhazgarh	20	98%		31.07.2023
11	Bajghera	2	38%		30.09.2024
12	Rohtak	10	100%		Completed
13	Mirjapur, Faridabad	80	70%		31.12.2023
14	Partapgarh, Faridabad	100	70%		31.12.2023
15	Dev Colony, Panipat	15	100%		Completed
16	Barsat Road, Panipat	25	97%		31.07.2023
17	Manesar and Naharpur Kasan, Gurugram	25	42%		31.12.2023
	Total	375.5			

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	31.12.2024
2	Behrampur, Gurugram	100	DPR under preparation.	31.12.2025
3	Sector-107, Gurugram	100	Land under identification	31.12.2025
4	Naurangpur, Gurugram	40	DPR under preparation	31.12.2025
5	Yamuna Nagar	70	-	31.12.2025
	Total	410		
Ghaggar Catchment				
1	Sector-32, Ambala Cantt.	5	Sewage is lifted to the existing 2 MLD STP of HSVP in Ambala.	31.12.2027

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
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	3694	221.2	1861	1158
2	Ghagggar	423	19.3	343	73
	Total	4117	240.5	2204	1231

- **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	1	10	7	126.5
2	Ghagggar	4	6.1	2	3	0	0
3	Other Areas	1	22.5	0	0	0	0
	Total	19	190.1	3	13	7	126.5

- **Status of compliance and operation of the CETPs.**
Ghagggar 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	0		Existing - 1 CETP of 0.1 MLD capacity is complying.

Town	No. of industries	Industrial Discharge (in MLD)	Status of ETPs	Status of CETPs (existing, under construction & proposed)
	river/drains of Ghaggar			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		0
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	0
Karnal	341	18.4		0
Panipat	286	24.3		Existing - 3 CETPs are all complying.
Sonepat	789	21.8		Existing - 4 CETPs of 25.2, 2 CETPs are complying and 2 CETP is non complying. Proposed - 1 CETP of 6 capacity.
Rohtak	89	1.4		Existing - 2 CETPs of 13 MLD (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 - 3 CETPs of 90 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	HSIIDC	177 dt. 23.05.2023	Complying

Sr. No.	Name of CETP	Capacity in MLD	Deptt.	Analysis report no. and date	Compliance status
2	IE Barhi, Sonapat	16	HSI IDC	117 dt. 08.05.2023	Non-Complying
3	IE Kundli, Sonapat	4	HSI IDC	151 dt. 18.05.2023	Complying
4	IE Murthal, Sonapat	0.2	HSI IDC	116 dt. 08.05.2023	Non-Complying
5	IMT Rohtak	10	HSI IDC	256 dt. 06.06.2023	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	240 dt. 05.06.2023	Complying
9	IMT faridabad	10.5	HSI IDC	148 dt. 18.05.2023	Complying
10	IMT Manesar, Gurugram	55	HSI IDC	147 dt. 18.05.2023	Complying
11	Sector-29, Unit-I, Panipat	21	HSVP	1699 dt. 02.06.2023	Complying
12	Sector-29, Unit-II, Panipat	21	HSVP	1698 dt. 02.06.2023	Complying
13	Faridabad Electroplaters Association	0.6	Private	140 dt. 17.05.2023	Complying
14	Industrial Area, Sector- 37, Gurugram	0.2	Private	131 dt. 11.05.2023	Complying
River Ghaggar					
15	IE Barwala, Panchkula	0.5	HSI IDC	1417 dt. 15.05.2023	Complying
16	Ambala Cantt.	0.5	HSI IDC	1557 dt. 25.05.2023	Complying
17	Saha, Ambala	5	HSI IDC	1547 dt. 25.05.2023	Complying
18	I. E. Jind	0.1	HSI IDC	1686 dt. 02.06.2023	Complying
Other areas					
19	IMT Bawal, Rewari	22.5	HSI IDC	155 dt. 19.05.2023	Complying
	Total capacity	190.1			

V. Solid Waste Management:

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

There are 88 Municipalities in the State out of which MC Manesar, Adampur, Siwan have been recently notified as Municipalities. Haily Mandi and Pataudi has been combined and named as new ULB Pataudi Mandi. As per updated report, Solid Waste Management 5640 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.**

5640 TPD is daily generation of Solid Waste in the State. Brief status regarding management of Solid Waste in ULBs is as under:-

SWM Activities in State	Quantity
Total No. of Wards	1659
Quantity of Solid Waste	5640 TPD
No. of wards with 100% Door to Door Collection	1656
No. of wards where segregation is initiated	1191
Quantity of Wet waste	2989 TPD
Quantity of dry waste	2651 TPD
Quantity of wet waste being processed	2142 TPD
Quantity of dry waste being processed	1899 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 792 challan of amounting Rs. 219370/-
No. of Plastic Waste Challan collected in last three months	Total 3718 challan of amounting Rs. 1974200 /-

For processing of dry waste 86 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 20 TPD (private party) is operational in Ambala.

Further, there are 3267 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 6.77 MW electricity is being generated in this plant.

Work of Waste to Energy Plant (2100 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 88 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. . Further, 3 Waste to Compost Cluster Projects namely Karnal-Kaithal-Thanesar (638 TPD), Bhiwani (155 TPD), Sirsa (168 TPD) have been finalized.

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 101 Lakh Metric Ton of legacy waste was lying at the dumping sites in Municipalities, out of which 50.86 lakh MT (50.17%) 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	Quantity of Waste Legacy Waste (MT)	Quantity of Legacy Waste Remediated (MT)
1	AMBALA	AMBALA	577349	530850
2		BARARA	9800	
3	BHIWANI	BAWANI KHERA	9185	
4		BHIWANI	314000	114000
5		LOHARU	5109	5109
6		SIWANI	1236	1236
7	CHARKHI DADRI	CHARKHI DADRI	56400	26400
8	FATEHABAD	BHUNA	17400	
9		FATEHABAD	90000	47000
10		JAKHAL MANDI	3600	
11		RATIA	23500	
12		TOHANA	12700	
13	GURGAON	FARRUKHNAGAR	11857	11857
14		GURGAON	4050000	1743564
15		HAILEY MANDI	300	
16		MANESAR	156500	104289
17		PATAUDI	10943	10943
18		SOHNA	54000	50000

Sr. No	District	ULB	Quantity of Waste Legacy Waste (MT)	Quantity of Legacy Waste Remediated (MT)
19	HISAR	BARWALA	6050	
20		HANSI	13000	
21		HISAR	200000	110000
22		NARNAUND	3350	
23		UKLANA	6400	
24	JHAJJAR	BADLI	11060	
25		BAHADURGARH	430000	210000
26		BERI	10000	3991
27		JHAJJAR	30000	1500
28	JIND	JIND	288862	100000
29		JULANA	5681	
30		NARWANA	87561	
31		SAFIDON	14500	14500
32		UCHANA	2800	
33	KAITHAL	CHEEKA	28000	16000
34		KAITHAL	168000	85300
35		KALAYAT	30000	15000
36		PUNDRI	4100	
37		RAJOUND	5200	
38		SIWAN	4726	
39	KARNAL	ASSANDH	22300	22300
40		GHARAUNDA	20236	20236
41		INDRI	3000	3000
42		KARNAL	95022	95022
43		NILOKHERI	11000	11000
44		NISSING	15000	15000
45		TARAORI	8766	8766
46	KURUKSHETRA	LADWA	16100	
47		PEHOWA	10660	
48		SHAHBAD	743	
49		THANESAR	800	
50	MAHENDRAGARH	ATELI	4959	4500
51		KANINA	10920	
52		MAHENDRAGARH	39349	
53		NANGAL CHAUDHARY	1550	1500
54		NARNAUL	188000	185000
55	MEWAT	FEROZEPUR JHIRKA	20000	
56		NUH	15768	
57		PUNAHANA	20000	
58		Taoru	35000	
59	PALWAL	HATHIN	3420	3300
60		HODAL	6000	
61		PALWAL	21000	21000
62	PANCHKULA	PANCHKULA	416788	122500
63	PANIPAT	PANIPAT	409200	380000
64	REWARI	REWARI	87217	62217
65	ROHTAK	MAHAM	13630	13400
66		ROHTAK	800000	610000
67	SIRSA	ELLENABAD	10816	8182
68		KALANWALI	3280	3200
69		MANDI DABWALI	126684	30684
70		RANIA	5200	5000
71		SIRSA	263000	44530
72	SONIPAT	GANNAUR	45000	25000
73		GOHANA	119000	42000
74		KHARKHODA	24000	21000
75		SONIPAT	300000	
76	YAMUNANAGAR	YAMUNANAGAR	192001	126601
Total			10138578	5086477
			Say 101 Lakh MT	Say 50.86 Lakh MT

The State Government has approved Rs. 262.67 Crore for bioremediation of legacy waste and out of approved amount Rs. 181.59 Crore has been released.

- **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 has started the processing of C&D waste.

- **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 1659 wards in MCs of Haryana out of which 1656 wards have been covered with door to door waste collection services. Out of the total wards, source segregation has been initiated in 1191 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
88	5640	4042	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: 4010 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 20 TPD 8. Total no. of compost pits for wet waste and horticulture processing - 2800 having the capacity approx. 3180 TPD. 9. Total 86 MRF are established in ULBs having the capacity approx. 2589 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- 20 TPD 8. Compost Pits- Approx. 1100 TPD 9. MRF- 1795 TPD	completed upto December 2023.

VI. Bio-medical Waste Management:

- **Total Bio-medical generation:**
Approx. 19.11 TPD Bio Medical Waste is generated in State of Haryana.
- **No. of Hospitals and Health Care Facilities:**
There are 6969 no. of HCFs in State of Haryana.
- **Status of Treatment Facility/ CBMWTF:**
There are 10 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 Incineration – 17681.2 MT	Landfill -21879.4 MT Quantity Incinerated – 17681.2 MT

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

VIII. Plastic Waste Management:

- **Total Plastic Waste generation:**
Approximate 179406.47 TPA plastic waste is generated in the State.

- **Treatment/ Measures adopted for reduction or management of plastic waste:**

At present plastic waste is being channelized through MRF centers 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	58	0	0	79
HSVP	12	4	0	0	8
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
Total	254	84	8	13	149

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

Deptt.	Total locations	Status of Action Plan			
		Submitted action plan	Not submitted Action plan	Not submitted time bound	Action plan not required/ completed
D&P	23	1	0	0	22
HSVP	3	0	0	0	3
ULBD	62	45	0	0	17
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	46	8	1	70

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. 17 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, 20.10.2022, 27.03.2023 and 10.04.2023.

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	8.2	1000
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	22	170	7600
3	Singh Nallah choe before entring punjab near Mamta Enclave, Near Slaughter house Panchkula (PKL-RDQ-038)	30.664066/ 76.843880	75	56	4600
4	Ambala Drain near Motor Market, Ambala City (AMB-RDQ-008)	30.388012/ 76.790604	39.75	14	900
5	Ghail drain at Samaspur, Ambala (AMB-RDQ-011)	30.333736/ 76.667902	17.95	13	2100
6	Markanda River Bhagal Bridge. (Longitude 76026.218' and Latitude 30005.025') (KTL-RDQ-002)	76026.218/ 30005.025	4.00	32	62000

Sr. No.	Name of drain	latitude/ Longitude	Flow (in MLD)	BOD (mg/l)	F. Coli
7	Cheeka Drain/Old Ghaggar Creek (KTL-RDQ-008)	76.232452/ 30.064188	1	34	38000
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	5	25	42000
9	Kaithal drain before mixing River Ghaggar at Khanauri. (Longitude 76006.831' and Latitude 29050.731') KTL-RDQ-015	76006.831 / 29050.731	54	35	42000
10	Discharge of Ratia Town through drain (Longitude 29.711468 and Latitude 75.551894) HSR-RDQ-006	29.711468 / 75.551894	4	8	1800
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	7	1800

(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	105	4.2	1200
2	Ghaggar before meeting Kaushalya River (Burajkottian Zone, Panchkula) (PKL-RDQ-015)	30.639975/ 76.872849	43.00	6.2	1300
3	Ghaggar River D/S after meeting Kaushalya River (NWMP-Station Code-1885) (PKL-RDQ-017)	30.740980/ 76.909826	90.00	3.8	600
4	U/s of Ghaggar river before meeting discharge of STP Sec-28 at Kakrali, Punjab. (PKL-RDQ-022)	30.613894/ 76.836044	96.50	7.2	1300
5	D/S of Ghaggar river after meeting discharge of STP Sec-28 at Kakrali, Punjab. (PKL-RDQ-024)	30.642798/ 76.874462	105.00	8.0	1600
6	Ghaggar River before meeting Ambala Drain (AMB-RDQ-007)	30.402314/ 76.743059	15.00	7.2	800
7	Ghaggar River after meeting Ambala Drain (AMB-RDQ-009)	30.398033/ 30.398033	54.75	10	1000
8	Ghaggar River before mixing Ghail drain at Samaspur (Ambala) (AMB-RDQ-010)	29.71135/ 75.552123	54.75	7.0	1100

Sr. No.	Drains meeting with river Ghaggar	Latitude/ Longitude	Flow (In MLD)	BOD (mg/l)	F. Coli
9	Ghaggar River after mixing Ghail Drain at Samaspur (Ambala) (AMB-RDQ-012)	30.332689/ 76.668607	72.70	9.0	1400
10	Ghaggar River before meeting river Markanda at Village Chiali. (Longitude 76025.974' and Latitude 30007.695') (KTL-RDQ-001)	76025.974/ 30007.695	2.00	30	42000
11	Ghaggar River after mixing Markanda River at village Dhandota. (Longitude 76022.571' and Latitude 30005.410') (KTL-RDQ-003)	76022.571 / 30005.410	6.00	29	45000
12	Ghaggar River before mixing of cheeka Drain (Longitude 76.232452' and Latitude 30.064188') (KTL-RDQ-007)	76.232452/ 30.064188	6.00	32	52000
13	Ghaggar River after mixing of cheeka Drain (Longitude 76.232452' and Latitude 30.064188') (KTL-RDQ-008)	76.232452 / 30.064188	7.00	34	38000
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'	0.00	28	51000
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	5.00	24	45000
16	River Ghaggar before mixing Kaithal drain at Khanauri. (Longitude 75000.061' and Latitude 29050.754') (KTL-RDQ-013)	75000.061 / 29050.754	0.00	34	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	54.00	31	54000
18	River Ghaggar before meeting discharge of Ratia. (HSR-RDQ-005)	29.693333/ 75.580474	1650.00	19	3200
19	River Ghaggar after meeting of discharge of Ratia. (HSR-RDQ-007)	29.716549/ 75.549705	1654.00	15	2800
20	River Ghaggar before meeting discharge of Jhakhal (29.786392, 75.826893) (HSR-RDQ-001)	29.786392/ 75.826893	1680.00	27	3900
21	River Ghaggar after meeting discharge of Jhakhal (29.786392, 75.826893) (HSR-RDQ-003)	29.786392/ 75.826893	1683.00	21	1800

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	464.93	14	4800
23	River Ghaggar after discharged of 7.5 MLD STP PHED, Ellenabad Sirsa (HSR-RDQ-019)	29.489821/ 74.746049	466.93	13	3100

(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 all 78 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	2	0
4	Kaithal	15	15	0
5	Kurukshetra	1	1	0
6	Hisar	5	5	0
7	Sirsa	23	23	0
8	Fatehabad	18	18	0
Total		78	78	0

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	104	8.6	2100
2.	Drain No. 2 before meeting river Yamuna at vill. Khojkipur (PNP-RDQ-008)	29.280218/ 77.120858	504.27	92	9600
3.	Drain no. 6 before entry in Delhi (SNP-RDQ-001)	28.890391/ 77.109702	14.68	36	2600
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	612	15	35000
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	980	25	42000
6.	Entry point of Drain No. 8 in Delhi Territory, Near Dhansa Store of Executive Engineer, Irrigation & Flood	28.535362/ 76.869600	Nil	16	28000

Sr. No.	Name of drain	latitude/ Longitude	Flow (in MLD)	BOD (mg/l)	F. Coli
	Control Deptt. of Delhi Govt., VPO-Lohat, Distt. Jhajjar (BDH-RDQ-003)				
7.	Leg I Drain, before meeting Najafgarh Drain Gurgaon (GRN-RDQ-002)	28.531019/ 77.001858	1	66	5700
8.	Leg II Drain, before meeting Najafgarh Drain Gurgaon (GRN-RDQ-005)	28.508322/ 76.975010	30	78	6100
9.	Leg III (Badshpur) Drain before meeting Najafgarh Drain Gurgaon (GRN-RDQ-008)	28.484470/ 76.953334	216	35	5300
10.	Budhiya Nala before meeting river Yamuna, at Vill. Manjhawali, Faridabad (FBD-RDQ-010)	28.382511/ 77.481014	104.23	55	9200
11.	Gaunchi Drain before River Yamuna, Palwal (PWL-RDQ-005)	27.914783/ 77.517323	106.92	32	3500

(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	363	3.2	800
2	River Yamuna after meeting Maskara Nallah, Down Stream, Kalanaur (YMN-RDQ-003)	30.068276/ 77.348271	466	1.6	200
3	River Yamuna before meeting Dhanaura Escape upstream, Karnal (KRN-RDQ-001)	29.73327/ 77.1277	352	2.2	200
4	River Yamuna after meeting Dhanaura Escape downstream, Karnal (KRN-RDQ-003)	29.72592 / 77.13278	386	5.8	1400
5	River Yamuna before meeting the discharge of Drain No. 2 at Vill. Sanjoli (PNP-RDQ-007)		352	8.0	1800
6	River Yamuna after meeting the discharge of Drain No. 2 near Vill. Khojkipur. (PNP-RDQ-009)	28.86158/ 77.206427	558.67	3.2	200
7	River Yamuna before meeting Diversion Drain no. 8 (SNP-RDQ-002)	28.884931/ 77.147185	650	3.2	600
8	River Yamuna after meeting Diversion Drain No. 8 at Palla (SNP-RDQ-004)	28.379079/ 77.486982	700	2.4	200
9	Yamuna River upstream before Budhiya Nalah at Vill. Manjhawali, Faridabad (FBD-RDQ-009)	28.384703/ 77.489578	378	34	7600

Sr. No.	Drains meeting with river Yamuna	latitude/ Longitude	Flow (in Cusecs)	BOD (mg/l)	F.Coli
10	Yamuna River downstream after meeting Budhiya Nalah at Vill. Manjhawali, Faridabad (FBD-RDQ-011)	28.372917/ 77.487966	426	45	9600
11	River Yamuna D/S before Gaunchi Drain (PWL-RDQ-004)	27.914783/ 77.517323	376	45	8400
12	River Yamuna D/S after Gaunchi Drain (PWL-RDQ-006)	27.909736/ 77.521114	437	41	6700

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

Ground water quality is being monitored at 80 locations in the catchment of river Yamuna by HSPCB. Out of total 80 locations, ground water is found fit for drinking at 66 locations and non complying at 14 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	9	0
2	Faridabad	8	8	0
3	Ballabgarh	6	1	5
4	Palwal	12	6	6
5	Gurugram South	10	10	0
6	Gurugram North	8	8	0
7	Karnal	5	5	0
8	Yamuna Nagar	3	3	0
9	Nuh	1	0	1
10	Sonepat	11	11	0
11	Bahadurgarh	7	5	2
	Total	80	66	14

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	3.5	Approved	15.06.22	30.10.23	75%
2	Bhiwani	Siwani	4	Approved	10.05.22	30.10.23	85%
3	Gurugram	Behrampur	50	Approved	28.02.23	31.08.23	22%
4	Jhajjar	Kosli Road	5.5	Approved	15.04.22	31.07.23	80%
5	Jhajjar	Sampla Road	5	Approved	15.04.22	31.07.23	70%
6	Mohindergarh	Narnaul	7.5	Approved	23.05.22	31.07.23	85%
7	Mohindergarh	Narnaul	6.	Approved	23.05.22	31.07.23	85%
8	Mohindergarh	Narnaul	5.5	Approved	23.05.22	31.07.23	85%
9	Rohtak	Kanheli	10	Approved	10.06.22	31.12.23	40%
10	Karnal	Karnal	50	Approved	10.06.22	31.03.24	32%
11	Karnal	Haikat Nagar	10	Approved	19.06.22	31.03.24	28%
12	Karnal	Shiv Colony	8	Approved	19.06.22	31.03.24	28%
13	Ambala	Barara	4	Approved	20.04.23	31.12.23	3%
14	Amblala	Naraingarh	3	Approved	20.04.23	31.12.23	4%
15	Hisar	Narnaund	4	Approved	16.02.23	31.03.24	5%
16	Fatehabad	Fatehabad	10	Approved	22.03.22	30.09.23	40%
17	Fatehabad	Tohana	10	Approved	02.02.22	30.09.23	90%
18	Fatehabad	Jakhal	3	Approved	11.02.22	31.10.23	70%
19	Fatehabad	Ratia	6.5	Approved	02.02.22	30.10.23	97%
20	Yamuna Nagar	Radaur	3.5	Approved	15.04.22	31.07.23	55%
21	Panipat	Jattal Road, Panipat	30	Not Approved	01.03.23	31.10.25	Yet to Start
22	Jind	Jind	28	Not Approved	01.07.23	31.12.24	Yet to Start
23	Hisar	Hansi	7.5	Not Approved	30.06.23	30.06.24	Yet to Start
24	Hisar	Rishi Nagar	40	Not Approved	01.07.23	31.10.25	Yet to Start
25	Kaithal	Gulha	10	Not Approved	01.07.23	31.12.24	Yet to Start
26	Kaithal	Kaithal	10	Not Approved	01.07.23	31.12.24	Yet to Start
27	Panchkula	Pinjore	5	Not Approved	01.08.23	30.06.24	Yet to Start
TOTAL			339.5				

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	Kalayati	Near Nirmal Public School	MBBR+TT	5
23	Kurukshetra/ Thanesar	Narkatari Road	SBR	25
24	Pundri	Pai Road Pundri	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

Sr. No.	Name of Town	Location	Technology Based on	Capacity(ML D)
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 Mehama	MBBR	5
54	Rohtak	Singhpura Road	MBBR	10
55	Rohtak	Singhpura Road	SBR	14
56	Rohtak	PGIMS Rohtal	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	Plantation Done in Year 2021-22	Plantation Done in Year 2022-23
1	Panchkula	5000	7820	3993	13291	3730
2	Ambala	1500	3626	3344	2691	670
3	Pehowa	0	0	0	0	0
4	Naraingarh	0	0	0	0	0
5	Kurukshetra	2000	3472	1870	2400	3100
6	MTS Gulha	0	0	0	0	0
7	MTS Pundri	0	0	0	0	0
8	Kaithal	1000	3160	1880	2950	1763
	Total	9500	18078	11087	21332	8263

Plantation done in catchment of River Ghaggar by Forest Department in 2022-23

Forest Department has selected around 87 villages in the catchment areas of river Ghaggar and has proposed to plant around 3 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
1	Panchkula	13	79472	79472
2	Ambala	0	0	0
3	Kaithal	2	7700	7700
4	Fatehabad	26	186280	186280
5	Sirsa	46	66696	66696
	Total	87	340148	340148

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	Plantation Done in Year 2021-22	Plantation Done in Year 2022-23
1	Jagadhri / Yamunagar	500	1178	1347	6531	6650
2	Shahabad	0	0	0	0	0
3	Karnal	5000	2810	4900	9500	2505
4	Faridabad	14300	22490	14900	3950	36500
5	Palwal	100	300	360	180	900
6	Rojka Meo	500	100	64	105	600
	Total	20400	26878	21571	20266	47155

Plantation done in catchment of river Yamuna by Forest Department in 2022-23.

Forest Department has selected around 65 villages in the catchment areas of river Yamuna and has proposed to plant around 3.5 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:-

Sr. No.	Name of District	No. of village	No. of plants to be planted	No. of plants planted
1	Yamuna Nagar	9	110253	110253
2	Karnal	18	82420	82420
3	Panipat	15	67327	67327
4	Sonepat	8	21555	21555
5	Faridabad	12	67458	67458
6	Palwal	3	3978	3978
	Total	65	352991	352991

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

District	Names	Area in Acre
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	1.2
Palwal		0
Total		244.2

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	Apr, 23	101	34	8687415	52	39

Name of District	Period	Details of regulation of mining activities	Violation identified	Action taken	Remarks
PKL	Apr, 23	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	Apr, 23	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.

Name of District	Period	Details of regulation of mining activities	Violation identified	Action taken	Remarks
Yamuna Nagar	Apr, 23	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.	Nil	Nil	Nil
KKR/KTL	Apr, 23	Nil	Nil	Nil	Nil
PNP/KNL	Apr, 23	Nil	Nil	Nil	No mining operation running in Districts Panipat and Karnal at present.
SNP	Apr, 23	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.	Boundary Pillars are not installed properly at M/s Yodha Mines & minerals, Jainpur-2 sand unit and M/s Zelkova Buildcon, Asadpur sand unit, Distt Sonapat	Show cause notice issued to mines regarding installation of boundary pillars.	Nil
Faridabad/Palwal	Apr, 23	Nil	4	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

Annexure-1

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	29.05.2023	Non-Complying
2	3.25 MLD STP Naya Gaon, Unit.II Ambala City by PHED in 1.4.2016	PHED	3.25	27.04.2023	Non-Complying
3	5 MLD Baldev Nagar , Unit.I, Ambala City by PHED 1.12.2012	PHED	5	29.05.2023	Non-Complying
4	3.25 Baldev Nagar , Unit.II, Ambala City by PHED in 1.4.2016	PHED	3.25	29.05.2023	Non-Complying
5	5 MLD Moti Nagar, Unit.I, Ambala City by PHED in June 2010	PHED	5	22.03.2023	Non-Complying
6	5 MLD STP Moti Nagar, Unit.II, Ambala City by PHED Ambala in 1.8.2016	PHED	5	31.05.2023	Non-Complying
7	6 MLD STP Modal Town, Ambala City by PHED in 1.7.2012	PHED	6	29.05.2023	Non-Complying
8	3.25 Nasirpur Ambala City by PHED in 31.9.2016	PHED	3.25	29.05.2023	Non-Complying
9	0.25 MLD Sadopur , Ambala PHED in 31.12.2016	PHED	0.25	18.05.2023	Complying
10	3.00 MLD Devi Nagar , Ambala City by PHED on 31.5.2013	PHED	3	29.05.2023	Non-Complying
11	3 MLD STP Nariangarh , Ambala by PHED in 1.7.2014	PHED	3	29.05.2023	Non-Complying
12	2 MLD STP Sec.7 , Urban Estate , Ambala City Ambala by HUDA in 10.9.2015	HSVP	2	18.05.2023	Complying
13	5 MLD STP Ambala by HSVP	HSVP	5	18.05.2023	Complying
Kurukshetra					
14	25 MLD STP Thanesar, Kurukshetra by PHED in 31.05.2019	PHED	25	10.05.2023	Complying
15	8 MLD STP Model Town, Pehowa Kurukshetra by PHED in May dt. 2015	PHED	8	10.05.2023	Non-Complying
16	11.5 MLD STP Ladwa Road , Shahbad Kurukshetra by PHED in May, 2016	PHED	11.5	25.05.2023	Complying
17	15 MLD STP Kurukshetra by HSVP	HSVP	15	10.05.2023	Complying
Panchkula					
18	4.5 MLD Kalka Panchkula by PHED in 30.3.2015	PHED	4.5	16.05.2023	Non-Complying
19	0.25 MLD Kalka Panchkula by PHED in 28.5. 2017	PHED	0.25	16.05.2023	Non-Complying
20	5 MLD STP Nalagarh Road, Manakpur, Pinjore Panchkula by	PHED	5	15.05.2023	Complying

Sr. No.	Name and Region of STPs	Deptt.	Existing STP and Capacity (MLD)	Date of sampling	Latest Compliance Status
	PHED 31.1.2015				
21	18 MLD STP Panchkula by HUDA in 31.12.2002	HSVP	18	15.05.2023	Non-Complying
22	39 MLD STP Panchkula by HUDA in Nov. 2011	HSVP	39	15.05.2023	Complying
23	15 MLD STP Sector- 28, Panchkula by HUDA in 2012	HSVP	15	25.04.2023	Complying
24	9 MLD STP Garrison Engineer , Chandimandir Panchkula in April 2012	GE	9	16.05.2023	Complying
Jind					
25	15 MLD STP by PHED Jind in Jan, 2009	PHED	15	25.05.2023	Complying
26	3.5 MLD Patiala Road, Narwana by PHED in Jan , 2011	PHED	3.5	30.05.2023	Complying
27	3.75 MLD STP Narwana Jind by PHED in Jan , 2011	PHED	3.75	30.05.2023	Complying
28	02 MLD STP, PHED , Dablain Road, Narwana, Jind (24.5.2017)	PHED	2	30.05.2023	Non-Complying
29	2 MLD STP Uchana Jind by PHED in 22.2.2012	PHED	2	30.05.2023	Non-Complying
30	1.5 MLD Uchana by PHED in 31.5.2013	PHED	1.5	30.05.2023	Non-Complying
31	5 MLD STP Jind by PHED in 1.4.2016	PHED	5	25.05.2023	Non-Complying
32	7 MLD STP, Jind by PHED in 30.11.2019	PHED	7	25.05.2023	Complying
33	9 MLD STP Safidon , Jind by PHED in 31.05.2018	PHED	9	28.04.2023	Complying
34	10 MLD by HUDA Jind in 27.12.2014	HSVP	10	25.05.2023	Complying
Kaithal					
35	10 MLD STP Cheeka, Kaithal by PHED in 1.4.2013	PHED	10	30.05.2023	Complying
36	10 MLD STP , Jind Road Kaithal by PHED in September , 2012	PHED	10	25.05.2023	Complying
37	10 MLD STP Manas Road, Kaithal by PHED in June , 2006 (MBBR)	PHED	10	25.05.2023	Complying
38	10 MLD Manas Road,Kaithal bby PHED in Sep , 2012 (SBR)	PHED	10	25.05.2023	Complying
39	5 MLD STP Kalayat , Kaithal by PHED in 1.4.2014	PHED	5	30.05.2023	Complying
40	3.5 Pundri Kaithal by PHED in 4.7.2014	PHED	3.5	30.05.2023	Complying
41	7.5 MLD Kaithal by HUDA in 31.8.2016	HSVP	7.5	25.05.2023	Complying
Hisar					
42	15 MLD STP Azad Nagar, Rajgarh Road Hisar by PHED in 31.12.2014	PHED	15	04.05.2023	Complying
43	40 MLD STP Rishi Nagar , Hisar by PHED in 02.12.2017	PHED	40	04.05.2023	Complying
44	4 MLD STP Narnaund, Hisar by PHED	PHED	4	05.05.2023	Non-Complying

Sr. No.	Name and Region of STPs	Deptt.	Existing STP and Capacity (MLD)	Date of sampling	Latest Compliance Status
45	4 MLD STP Kaimri Road, Hisar by PHED in 2018	PHED	4	04.05.2023	Non-Complying
46	15 MLD STP Dabara Tosham Road , Hisar by HUDA in 31.7.2014	HSVP	15	04.05.2023	Complying
47	8 MLD STP Village Dabra by ULBD	ULBD	8	04.05.2023	Complying
Sirsa					
48	15 MLD STP, Shamsabad patti , Kalania Road, Sirsa by PHED in 1.7.2012	PHED	15	10.05.2023	Complying
49	5 MLD STP, Vill. Nattar 1 , Sirsa by PHED in 1.5.2013	PHED	5	10.05.2023	Non-Complying
50	5 MLD STP, Vill. Nattar 2 , Sirsa by PHED in 14.09.17	PHED	5	10.05.2023	Non-Complying
51	7.5 MLD STP Ellenabad Sirsa by PHED in 11.5.2015	PHED	7.5	10.05.2023	Complying
52	9.5 MLD STP, Daddu Road,Kalanwali, Sirsa by PHED in 17.02.2018	PHED	9.5	11.05.2023	Complying
53	6 MLD STP Rania Sirsa by PHED in 30.6.2017	PHED	6	10.05.2023	Complying
54	16.5 MLD STP Dabwali, Sirsa by PHED in 04.12.2017	PHED	16.5	11.05.2023	Complying
55	20 MLD STP at Kelnia Sirsa by PHED	PHED	20	10.05.2023	Complying
Fatehabad					
56	10 MLD STP Vill. Bhodia Khera, Bhattu Road, Fatehabad by PHED in 1.4.2013	PHED	10	17.05.2023	Complying
57	10 MLD STP Vill.Amani, Tohana, Distt. Fatehabad by PHED in 1.4.2013	PHED	10	17.05.2023	Complying
58	6.5 MLD STP Ratia , Fatehabad by PHED in 1.9.2014	PHED	6.5	17.05.2023	Complying
59	5 MLD STP Kharati Khera Road, Fatehabad by PHED in 31.10.2018	PHED	5	17.05.2023	Complying
60	3 MLD STPJhakhali Mandi, Fatehabad by PHED in 30.9.2019	PHED	3	17.05.2023	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	17.05.2023	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	10.05.2023	Complying
2	Radaur Road, Yamuna Nagar by PHED	PHED	25	10.05.2023	Complying
3	Baddimajra, Yamuna Nagar by PHED*	PHED	10	10.05.2023	Complying
4	Baddimajra, Yamuna Nagar by PHED*	PHED	10	10.05.2023	Complying
5	Parwaloo, Jagadhri Yamuna Nagar by PHED	PHED	24	10.05.2023	Complying
6	Chhachhrauli Yamuna Nagar by PHED	PHED	3	10.05.2023	Complying
7	Radaur Yamuna Nagar by PHED	PHED	3.5	10.05.2023	Complying
Ladwa, Kurukshetra					
8	Indri Road, Ladwa Kurukshetra by PHED	PHED	7	26.05.2023	Complying
Karnal					
9	Indri, Karnal by PHED*	PHED	4	24.05.2023	Complying
10	Nilokheri, Karnal by PHED	PHED	6	24.05.2023	Complying
11	Nissing Karnal by PHED	PHED	4	24.05.2023	Complying
12	Tarori Karnal by PHED	PHED	5.5	24.05.2023	Complying
13	Gharaunda, Karnal by PHED	PHED	7	24.05.2023	Complying
14	Gogharipur Road, karnal by ULB	ULBD	10	24.05.2023	Complying
15	RK Puram, Karnal by ULB	ULBD	8	20.04.2023	Complying
16	Transport Nagar, Karnal by ULB*	ULBD	50	24.05.2023	Complying
Panipat					
17	Sewah, Panipat by PHED	PHED	35	25.05.2023	Complying
18	Sewah, Panipat Panipat by PHED	PHED	25	25.05.2023	Complying
19	Jattal Road, Panipat by PHED	PHED	20	26.05.2023	Complying
20	Jattal Road, Panipat by PHED	PHED	10	25.05.2023	Complying
21	Samalkha, Panipat by PHED	PHED	5	26.05.2023	Complying
22	Sec-19, Panipat by HSVP	HSVP	30	25.05.2023	Complying
23	Sec-6, Panipat by HSVP	HSVP	0.8	26.05.2023	Complying
Sonepat					
24	Kharkhoda Sonepat by PHED	PHED	4.5	27.05.2023	Non Complying
25	Ganaur Sonepat	PHED	7	27.05.2023	Non Complying
26	Gohana Sonepat by PHED	PHED	3	29.03.2023	Non Complying

Sr. No.	Name of the STP	Deptt.	Capacity	Date of Sampling	Latest compliance status
27	Gohana Sonapat by PHED	PHED	8.3	29.03.2023	Non Complying
28	Rathdana Road, Sonapat by ULB	ULBD	30	27.05.2023	Complying
29	Kakroi Road, Sonapat by ULB	ULBD	25	27.05.2023	Complying
30	Rajiv Gandhi Edu. City, Phase-I, Sonapat by HSVP	HSVP	7.5	27.05.2023	Complying
Rohtak					
31	PGI Rohtak by PHED	PHED	19.5	30.05.2023	Complying
32	Sonaria, Rohtak by PHED	PHED	40	30.05.2023	Non-complying
33	Kalanaur Rohtak by PHED	PHED	3.5	30.05.2023	Non-complying
34	Meham Rohtak by PHED	PHED	5	30.05.2023	Non-complying
35	Singhpura, Rohtak by PHED	PHED	14	30.05.2023	Complying
36	Sampla Rohtak by PHED	PHED	4	30.05.2023	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	29.05.2023	Non-complying
40	Jhajjar by PHED	PHED	5.5	29.05.2023	Non-complying
41	Beri Jhajjar by PHED	PHED	3	29.05.2023	Complying
42	Line Par, Bahadurgarh by PHED	PHED	18	29.05.2023	Non-complying
43	Najafgarh road Bahadurgarh by PHED	PHED	36	29.05.2023	Complying
44	Sec-36, Bahadurgarh by HSVP	HSVP	10	29.05.2023	Complying
Nuh					
45	Tarou by PHED	PHED	4.5	26.05.2023	Non Complying
46	Punhana by PHED	PHED	4.5	26.05.2023	Non Complying
47	Nuh by PHED	PHED	3.6	26.05.2023	Non Complying
48	Ferozpur Jhirka by PHED	PHED	5	26.05.2023	Non Complying
Palwal					
49	Hathin by PHED	PHED	4.5	26.05.2023	Non Complying
50	Hodal by PHED	PHED	9	26.05.2023	Non Complying
51	Palwal by PHED	PHED	9	29.03.2023	Non Complying
52	Hassanpur by PHED	PHED	3	26.05.2023	Non Complying

Sr. No.	Name of the STP	Deptt.	Capacity	Date of Sampling	Latest compliance status
Faridabad					
53	Badshahpur, Faridabad by ULB	ULBD	45	23.05.2023	Non-Complying
54	Faridabad by HSVP	HSVP	7.5		Complying
Gurugram					
55	Dhanwapur, Gurgaon by GMDA	GMDA	50	29.05.2023	Complying
56	Dhanwapur, Gurgaon by GMDA	GMDA	68	29.05.2023	Complying
57	Behrampur, Gurgaon by GMDA	GMDA	120	10.05.2023	Complying
58	Behrampur, Gurgaon by GMDA	GMDA	50	10.05.2023	Complying
59	Dhanwapur, Gurgaon by GMDA	GMDA	100	29.05.2023	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	30.05.2023	Non-Complying
2	Pataudi, Gurgaon	PHED	4.5	03.05.2023	Non-Complying
3	Farrukhnagar, Gurgaon	PHED	3	03.05.2023	Complying
4	Haily Mandi, Gurgaon	PHED	5.5	03.05.2023	Complying
Jind					
5	Julana, Jind	PHED	4	25.05.2023	Complying
Bhiwani					
6	Dhana Road, Bhiwani	PHED	10	06.03.2023	Non-Complying
7	Bhiwani	PHED	10	06.03.2023	Non-Complying
8	Bhiwani, Phase-I	PHED	15	06.03.2023	Complying except Faecal Coliform
9	Bhiwani, Phase-II	PHED	15	06.03.2023	Complying
10	Charkhi Dadri, Bhiwani	PHED	5	17.03.2023	Non-Complying
11	Chirya Road, Charkhi Dadri, Bhiwani	PHED	5	17.03.2023	Non-Complying
12	Bawani Khera, Bhiwani	PHED	4.5	24.03.2023	Non-Complying
13	Loharu, Bhiwani	PHED	3.5	24.03.2023	Non-Complying
14	Tosham, Bhiwani	PHED	3	24.03.2023	Complying
15	Siwani, Bhiwani	PHED	4	24.03.2023	Non-Complying
16	Bhiwani	HSVP	10	24.03.2023	Complying
Mohindergarh					
17	Mohindergarh	PHED	6.5	28.03.2023	Non-Complying
18	Ateli Mandi, Mohindergarh	PHED	2	28.03.2023	Non-Complying
19	Kanina, Mohindergarh	PHED	3	28.03.2023	Non-Complying
20	Rewari Road, Narnaul, Mohindergarh	PHED	7.5	28.03.2023	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	30.03.2023	Non-Complying
23	Rewari	PHED	6.5	13.04.2023	Non-Complying
24	Rewari	PHED	8	13.04.2023	Complying
25	Rewari	PHED	16	13.04.2023	Complying
26	Dharuhera	PHED	9.5	13.04.2023	Non-Complying
27	Kosli, Rewari	PHED	3	25.03.2023	Non-Complying
28	Dharuhera	HSVP	5	13.04.2023	Complying
Ambala					
29	Barara, Ambala	PHED	4	29.05.2023	Complying
Karnal					
30	Assandh, Karnal	PHED	5	24.05.2023	Complying
Hisar					

Sr. No.	Name of the town/ city	Deptt.	Existing STP and Capacity (MLD)	Date of sampling	Latest Compliance Status
31	Hansi, Hisar	PHED	6.5	05.05.2023	Complying
32	Dhani Gram, Barwala, Hisar	PHED	6	05.05.2023	Non-Complying
33	Uklana, Hisar	PHED	6.5	05.05.2023	Complying
34	Dhani Kushal, Bhiwani Road, Hansi	PHED	5	05.05.2023	Non-Complying
35	Lalpura- Jind Road, Hansi	PHED	7.5	05.05.2023	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, JhakaMandi	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: 2021-22

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	666.68	0	1819.98	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	--	4.73	--	53.26
4	M/s Marino panel Products Ltd., vpo rohad, Jhajjar	Incinerable	13	Nil	Nil	82.5	Nil	Nil