



HARYANA STATE POLLUTION CONTROL BOARD  
C-11, SECTOR-6, PANCHKULA  
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No. HSPCB/WC/2020/ 5971-5972  
To

Dated:- 29-12-2020

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, CPCB,  
Parivesh Bhawan, East Arjun Nagar,  
New Delhi

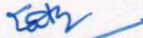
**Sub:- Monthly progress Report by State of Haryana regarding Ghaggar and Yamuna Action Plan for the month of November,2020.**

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

DA/ As above

  
Sr. Env. Engineer(HQ)  
For Member Secretary

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

**For the State of Haryana**

**Overall status of the State:**

**I. Total Population: Urban Population & Rural Population separately**

- ✓ Ghaggar catchment  
Urban Population - 2632011
  
- Yamuna catchment  
Urban Population - 6671530
  
- ❖ Other areas-  
Urban Population- **1129576**

**II. Estimated Sewage Generation (MLD):**

- ✓ Ghaggar catchment  
258.17 MLD sewage generation
  
- Yamuna catchment  
922.23 MLD sewage generation
  
- ❖ Other areas-  
87.1 MLD

**III. Details of Sewage Treatment Plant:**

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

- ✓ Ghaggar  
59 STPs of treatment capacity of 514.25 MLD
  
- Yamuna  
60 STPs of treatment capacity of 1159.7 MLD
  
- ❖ Other areas-  
36 STPs of treatment capacity of 218.5 MLD.

**• Capacity Utilization of existing STPs:**

- ✓ Ghaggar  
376.07 MLD effluent reaching STPs.
  
- Yamuna  
704.86 MLD effluent reaching STPs.
  
- ❖ Other areas-  
108.4 MLD effluent reaching STPs.

- **MLD of sewage being treated through Alternate technology:**  
NIL
- **Gap in Treatment Capacity in MLD:**
  - ✓ Ghaggar  
There is Gap of 0.7 MLD in the installed treatment capacity at present in comparison to requirement i.e. sewage generation at Ambala only.
  - Yamuna  
There is Gap of 11.4 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. Faridabad (2 MLD), Beri (0.1 MLD), Indri(0.8) and Palwal(8.5 MLD).
- **No. of Operational STPs:**

### Ghaggar

There are total 59 STPs installed in the catchment of river Ghaggar with the capacity of 514.25 MLD. As per latest status, 7 STPs are not meeting the prescribed parameters.

### Yamuna

There are total 60 STPs installed in the catchment of river Yamuna with the capacity of 1159.7 MLD. As per latest status, 14 STPs are not meeting the prescribed parameters.

### **Other Areas**

38 STPs of 218.5 MLD capacity are installed in the other areas not following in the catchment of rivers. Out of these 11 STPs are not meeting the prescribed limits.

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

**Table:- Details of each existing STP in the State**

Sr. No.	Town	Existing STP Capacity	Capacity Being Utilized	Operational status of STP	Compliance status of STP
<b>Ghaggar Catchment</b>					
1	Naraingarh	3	1.7	Operational	Complying
2	Ambala	39.25	20.86	Operational	1 STP <b>Non-Complying</b> (10 BOD) 2 MLD STP Sec.7 , Urban Estate , Ambala City Ambala by HUDA)
3	Ratia	6.5	3	Operational	<b>Non Complying (10 BOD)</b>
4	Tohana	10	6	Operational	Complying
5	Jhokal Mandi	3	1.03	Operational	Complying
6	Fatehabad	25	3	Operational	<b>10 MLD Fatehabad Non</b>

Sr. No.	Town	Existing STP Capacity	Capacity Being Utilized	Operational status of STP	Compliance status of STP
					Complying (10 BOD)
7	Hisar	74	59.6	Operational	Complying
8	Narnaund	4	2.2	Operational	Complying
9	Narwana	9.25	1.5	Operational	Complying
10	Uchana	3.5	1.75	Operational	Non Complying
11	Jind	37	4	Operational	Complying
12	Safidon	9	4.2	Operational	Complying
13	Cheeka	10	5.15	Operational	Non Complying (10 BOD)
14	Kaithal	37.5	23.25	Operational	Complying
15	Kalayath	5	2.47	Operational	Non Complying (10 BOD)
16	Pundri	3.5	2.5	Operational	Complying
17	Shahbad	11.5	5.64	Operational	Complying
18	Pehowa	8	4	Operational	Complying
19	Thanesar	40	29.5	Operational	Complying
20	Kalka	4.75	3.55	Operational	Complying
21	Pinjore	5	2.5	Operational	Complying
22	Panchkula	81	108.7	Operational	Complying
23	Mandi Dabwali	16.5	7	Operational	Complying
24	Kalanwali	9.5	2.5	Operational	Complying
25	Sirsa	45	24.5	Operational	Complying
26	Rania	6	3.32	Operational	Complying
27	Ellenabad	7.5	4.85	Operational	Non Complying (10 BOD)
<b>Total</b>		<b>514.25</b>	<b>338.27</b>		
<b>Yamuna Catchment</b>					
1	Jagadhri	24	15	Operational	Complying
	Yamunanagar	55	22.97	Operational	Complying
2	Radaur	3.5	1.81	Operational	Complying
3	Chhachhrauli	3	1.39	Operational	Complying
4	Ladwa	7	4	Operational	Complying
5	Nilokheri	6	3.5	Operational	Complying
6	Taraori	5.5	3.8	Operational	Complying
7	Indri	4	2.15	Operational	Complying
8	Karnal	76	15.5	Operational	Complying
9	Nissing	4	2.35	Operational	Complying
10	Gharaunda	7	4.74	Operational	Complying
11	Panipat	120.8	69.6	Operational	3 Non-Complying are non complying.
12	Samalkha	5	4.5	Operational	Complying
13	Gohana	11.3	7.5	Operational	Complying
14	Ganaur	7	4.5	Operational	Complying
15	Sonepat	62.5	10.5	Operational	2 STPs non complying
16	Kharkhoda	4.5	2.2	Operational	Complying
17	Maham	5	2	Operational	Complying
18	Rohtak	93.5	52	Operational	2 STP Non Complying
19	Kalanaur	3.5	2.5	Operational	Complying
20	Sampla	4	2.65	Operational	Complying
21	Beri	2	2	Operational	Complying

Sr. No.	Town	Existing STP Capacity	Capacity Being Utilized	Operational status of STP	Compliance status of STP
22	Bahadurgarh	64	18.5	Operational	Non-Complying (10 BOD) 18 MLD STP, Linepar, Bahadurgarh by PHED, October, 2012
23	Jhajjar	10.5	7.5	Operational	Complying
24	Taoru	4.5	2.2	Operational	Complying
25	Gurugram	388	310	Operational	2 STPs Non-Complying (10 BOD) 68 MLD STP Dhanwapur, Gurgaon (North) by GMDA & 100 MLD STP Dhanwapur, Gurgaon by GMDA
26	Nuh	3.6	2.5	Operational	Complying
27	Ferozpur Jhirka	5	3.5	Operational	Complying
28	Punahana	4.5	1.6	Operational	Complying
29	Faridabad	140	105	Operational	All 3 STPs of 140 MLD capacity are Non Complying
30	Palwal	9	8.5	Operational	Complying
31	Hathin	4.5	2.7	Operational	Complying
32	Hassan Pur	3	1.2	Operational	Complying
33	Hodal	9	4.5	Operational	Non Complying
<b>Total</b>		<b>1159.7</b>	<b>704.86</b>		
<b>Other STPs</b>					
1	Sohna	6	4.5	Operational	Complying
2	Pataudi	4.5	2.8	Operational	Complying
3	Farrukhnagar	3	2.8	Operational	Non Complying
4	Haily Mandi	5.5	1.85	Operational	Non Complying
5	Julana	4	2.1	Operational	Complying
6	Dhana Road, Bhiwani	10		Operational	Complying
7	Bhiwani	10		Operational	Complying
8	Bhiwani	15	8.2	Operational	Complying
9	Bhiwani	15	8.24	Operational	Complying
10	Charkhi Dadri	5	3.5	Operational	Non Complying
11	Charkhi Dadri	5	1.5	Operational	Non Complying
12	Bawani Khera	4.5	2.5	Operational	Complying
13	Loharu	3.5	1.84	Operational	Complying
14	Tosham	3	1.76	Operational	Non Complying
15	Siwani	4	2.53	Operational	Non Complying
16	Mohindergharh	6.5	3.3	Operational	Complying
17	Ateli Mandi	2	0.9	Operational	Complying
18	Kanina	3	1.25	Operational	Complying
19	Rewari Road, Narnaul	7.5	5	Operational	Complying

Sr. No.	Town	Existing STP Capacity	Capacity Being Utilized	Operational status of STP	Compliance status of STP
20	Bawal	3	1.7	Operational	Complying
21	Rewari	6.5	5	Operational	Complying
22	Rewari	8	3.7	Operational	Non Complying (10 BOD)
23	Rewari	16	10.22	Operational	Non Complying (10 BOD)
24	Dharuhera	9.5	3.5	Operational	Non Complying (10 BOD)
25	Kosli	3	1.32	Operational	Complying
26	Barara	4	2.64	Operational	Complying
27	Assandh	5	3.52	Operational	Non Complying (10 BOD)
28	Hansi	6.5	2.98	Operational	Complying
29	Dhani Gram, Barwala	6	5.74	Operational	Complying
30	Uklana	6.5	1.75	Operational	Non Complying (10 BOD)
31	Dhani Kushal, Bhiwani Road, Hansi	5	3.5	Operational	Complying
32	Lalpura- Jind Road, Hansi	7.5	5	Operational	Complying
35	Bhiwani	10	1.5	Operational	Complying
36	Dharuhera	5	1.75	Operational	Complying
<b>Total</b>		<b>218.5</b>	<b>108.39</b>		

#### **B 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
<b>Ghaggar Catchment</b>					
1	12 Cross Road, Ambala	12	24%	215311 House sewer connections provided in the Ghaggar Catchment.	30.06.2021
2	Khagesara & Toka	0.5	94%		30.09.2020
3	Nangal & Allipur	0.5	100%		30.09.2020
4	Khatoli	0.75	93%		31.03.2021
5	Kot	0.75	100%		31.10.2020
6	Sukhdarshanapur	0.75	88%		30.10.2020
7	Billa	0.75	70%		31.12.2020
8	Village Dabra	8	90%		31.12.2020
9	Ambala	5	92%		31.12.2020
10	Khuda Khurd, Ambala	12	26%		30.06.2021

Sr. No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
11	Bhuna	8	85%		31.12.2020
12	Babyal	10	40%		30.06.2021
13	Shahpur Machhonda	7.5	10%		30.06.2021
14	Saketri-STP	1.5	Work of construction off boundary wall started. Work of laying of PPC has also been started.		30.06.2021
15	Sirsa	7.5	37%		31.12.2021
<b>Yamuna Catchment</b>					
1	Baddi Majra, Yamuna Nagar	10	98%	195520 House sewer connections provided in the Yamuna Catchment.	31.12.2020
2	Shiv Colony, Karnal	8	66%		30.06.2021
3	Phooshgarh, Karnal	20	68%		30.06.2021
4	Garhi Bohar, Rohak	12	41%		15.03.2021
5	Singhpura, Rohtak	10	94%		31.12.2020
6	Peer Bodhi, Rohak	15	Reason are mentioned below		31.03.2022
7	Sarai Alawardi	1	98%		31.12.2020
8	Gadoli Kalan	1	96%		31.12.2020
9	Baliawas (against Gwalpahadi)	1	92%		31.12.2020
10	Mohmadpur Jharsa	2	90%		31.12.2020
11	Darbaripur	1	94%		31.12.2020
12	Bandwari(Shifted from Sihi/Khedki Daula)	1	22%		31.03.2021
13	Faridabad	7.5	87%		31.12.2020

Sr. No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
14	Faridabad, sector-21	10	4%		31.12.2021
15	Kithwari	10	40%		30.06.2021
16	Jodhpur Road, Palwal	15	46%		30.06.2021
17	Ferozpur, Palwal	2.5	46%		30.06.2021
18	Sonepat (Aterna)	15	40%		31.12.2021
19	Murthal Sonepat	3	15%		30.06.2021
20	Jhazgarh	20	3%		31.12.2021
21	Dhankot, Gurugram	2	-		30.09.2021
22	Bajghera	2	-		30.09.2021
23	Rohtak	10	10%		31.12.2021
24	Mirjapur, Faridabad	80	1%		02.11.2022
25	Partapgarh, Faridabad	100	1%		02.11.2022
26	Faridabad	30	4%		30.06.2022

#### **Details of proposed STPs in the State**

Sr. No.	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
<b>Ghaggar Catchment</b>				
1	Sector-32, Ambala Cantt.	5	Proposed for future population. Almost no discharge at present.	31.12.2021
2	Naraingarh, Ambala	1	Work is likely to be started in Year 2023. Sewage is not sufficient to reach the outfall. Sewer lines are got cleaned when need arises and sewage is lifted to the existing STP of PHED in Naraingarh.	30.09.2022
3	Pinjore, Panchkula	8	Proposed for future population. Almost no discharge at present.	30.04.2023
4	Jind	5	Proposed for future population.	30.06.2023



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
			Almost no discharge at present.	
5	Hansi	5	Proposed for future population. Almost no discharge at present.	30.06.2025
6	Hisar	10	Proposed for future population. Almost no discharge at present.	31.03.2024
7	Hisar	5	Proposed for future population. Almost no discharge at present.	30.06.2024
<b>Yamuna Catchment</b>				
1	Manesar and Naharpur Kasan, Gurugram	25	DPR Stage	31.12.2022

#### 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	3477	121.11	3477	814
2	Ghaggar	252	5.2	252	28
	<b>Total</b>	<b>3729</b>	<b>126.31</b>	<b>3729</b>	<b>842</b>

- **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	6	9	138.5
2	Ghaggar	4	6.1	0	0	2	3
3	Other Areas	1	22.5	0	0	0	0
	<b>Total</b>	<b>19</b>	<b>190.1</b>	<b>1</b>	<b>6</b>	<b>11</b>	<b>141.5</b>

- **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
Shahbad	4	0.001		0
Pehowa	3	3.4		0
Kurukshetra	26	0.036		0
Kalka	8	0.01		0
Barwala	20	0.07		Existing- 1 CETP of 0.5 MLD capacity
Panchkula	112	0.5		0
<b>Total</b>	<b>252</b>	<b>5.2</b>		

#### 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	<b>Proposed-1</b> CETP of 3 MLD capacity
Karnal	310	18.4		0
Panipat	286	24.3		<b>Existing- 3</b> CETPs of 44.5
Sonepat	789	21.8		<b>Existing- 4</b> CETPs of 25.2 <b>Under construction- 1</b> CETP of 6 capacity. <b>Proposed- 1</b> CETP of 5 capacity.
Rohtak	89	1.4		<b>Existing- 2</b> CETPs of 13
Jhajjar	311	5.4		<b>Existing- 1</b> CETPs of 12.5 Proposed- 1 CETP of 10 MLD capacity
Gurugram	775	13.27		<b>Existing- 2</b> CETPs of

Town	No. of industries	Industrial Discharge (In MLD)	Status of ETPs	Status of CETPs (existing, under construction & proposed)
				55.2 <b>Proposed- 4 CETPs of 31.5 capacity.</b>
Nuh	42	1.5		0
Palwal	76	7.7		0
Faridabad	592	8.94		<b>Existing- 2 CETPs of 11.1</b> <b>Proposed- 3 CETPs of 90 capacity.</b>
<b>Total</b>	<b>3477</b>	<b>121.11</b>		

#### V. Solid Waste Management:

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

There are 88 Municipalities in Haryana and the population of all Municipalities is 92,11,050 as per Census 2011.

- **Current Municipal Solid Waste Generation.**

5387 TPD

- **Number, installed capacity and utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg- Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting), bio methanation, MRF etc.**

There are three existing operational centralized Waste to Compost (WTC) processing facilities in the State at Rohtak (150 TPD), Sirsa (50 TPD) & Karnal (150 TPD). Apart from the above, three Bio-Methanation Facilities are also operational in Faridabad, Panchkula and Radaur and one Bio-CNG plant is operational in Karnal. Further, there are 1800 compost pits in various MCs and there are also 1466 pits for horticulture waste. In addition, 10 approx.. 2000 household pits have been constructed to encourage the households for home composting. For processing of dry waste 395 Material Recovery Facilities (MRF) has also been constructed in 39 Municipalities.

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

- **Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%)**

Integrated Centralized Waste Processing Approach (Cluster Wise) is being adopted as a long-term approach, with an overall objective to setup regional

Waste to Energy, Waste to Compost + RDF processing facilities and Secured Sanitary landfills for scientific disposal of Solid Waste. This approach is more coveted considering the constraints posed by the decentralized approach and its sustainability over long run.

As part of this approach, total 13 Clusters have been formed covering all the 87 ULBs of Haryana. Also, under this approach the projects will be set up on PPP mode and single agency/concessionaire will be responsible for Door to Door Collection, transportation, processing and disposal of Solid Waste for a concession period of 22 years.

Currently 2 Waste to Energy Cluster Projects namely Sonapat-Panipat and Gurugram-Faridabad have been awarded and construction of Sonapat-Panipat Cluster (500 TPD) Waste to Energy project is under progress and 60% construction have been finished with proposed tentative commissioning by March 2021. The Environmental Clearance of Gurugram-Faridabad (1500 TPD) Waste to Energy Projects has been granted. The construction of the plant is likely to start soon. Once commissioned these two projects alone will cater to 11 approx.. 40% processing of entire waste being generated in the state.

Remaining eleven (11) clusters are Open Technology Clusters, which are under approval from the Govt. of Haryana, it is expected to initiate the bidding process by September 2020. The details of 13 clusters are attached at **Annexure-1**.

- **No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction)**

Presently Municipal Corporation, Gurugram has established a 300 TPD Construction and Demolition Waste processing plant at Village Basai and the capacity of the plant will be increased to 1500 TPD shortly. MC Gurugram has signed agreements with two private contractors to collect and transport the C&D waste from the household's level to the designated C&D waste Plant. This plant is also being utilised to process the C&D waste generated in MC Faridabad till a new plant is commissioned in Faridabad.

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

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

There are total 1540 wards in MCs of Haryana out of which 1467 wards have been covered with door to door waste collection services. Out of the total wards, source segregation has been initiated 1103 wards.

- **Details of MSW treatment facilities proposed and under construction (no., capacity, and technology).**  
Detail is already attached at Annexure-1.
- **No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills.**  
The detail of dumpsites attached at **Annexure-2**.
- **No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers.**  
No such data is available at present.
- **No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers**  
The drains of MCs don't falls directly into the rivers. They ultimately join the drains of irrigation and the drains of irrigation falls into the rivers. The MCs are installing the wire mesh in the drains to prevent the solid waste from falling into the drains. At present approximate 387 small drains have been provisioned with wire mesh screens.

**Status of ULB wise Management of Solid Waste**

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

**VI. Bio-medical Waste Management:**

- **Total Bio-medical generation:**  
As per the annual report for 2019, total 14810 kg/day bio medical waste is generated in State of Haryana.
- **No. of Hospitals and Health Care Facilities:**  
As per the annual report for 2019, there are 5526 no. of HCFs in State of Haryana.
- **Status of Treatment Facility/ CBMWTF:**

As per the annual report for 2019, there are 11 no. of authorized CBWTFs/Treatment facilities in State of Haryana

**VII. Hazardous Waste Management:**

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

Hazardous waste reaching TSDFs	Hazardous waste treated
Landfill -14372 MT Incineration – 15150.8 MT	Landfill -14372 MT Quantity Incinerated – 0

- **Details of on-going or proposed TSDF-** Details given at **Annexure-3**

**VIII. Plastic Waste Management:**

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

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

The Nodal Department for execution of Bio/Phyto- Remediation 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 insitu treatment:**

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

**River Yamuna**

Sr. No.	Department Name	Department Points	Receive Action Plan	Action not required	Pending Points	Remarks
1	D&P	29	23	15	0	6 point related to other department
2	HSIDC	2				
3	HSPCB	20				
4	HSVP	3				
6	Industry Dept.	1				
7	PHED	28	9	8	0	19 point related to other department
8	ULB	57	55	1	3	Related to other Department.
	<b>Total</b>	<b>125</b>			<b>3</b>	

**River Ghaggar**

Sr. No.	Department Name	Department Points	Action plan not required/completed	Receive Action Plan	Pending Points	Remarks
1	D&P	150	28	122	3	25 points related to other departments
2	HSIIDC	2		-	2	
3	HSVP	14	1	2	11	
4	PHED	36	10	18	0	18 point related to other departments
5	ULB	50	12	22	7	
6	H.P. State	1		-		
7	Industry Unit	3	1	-	2	1 points unit is closed. Not required
8	HSPCB	1	1			
	<b>Total</b>	<b>255</b>		<b>164</b>	<b>25</b>	

**XI. Details of Nodal Officer appointed by Chief Secretary in the State/UT:**

Member Secretary, Haryana State Pollution Control Board.

**XII. Details of meetings carried under the Chairmanship Chief of Secretary in the State/UT:**

Regular CS meetings are being held to review the progress of Yamuna and Ghaggar Action Plans. 8 Meetings held so far on 29.08.2019, 20.12.2019, 05.02.2020, 13.03.2020, 22.06.2020 17.07.2020, 06.08.2020 and 08.09.2020.

**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	49	8	14000
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	66.64	21	-
3	Singh Nallah choe before entering punjab near Mamta Enclave, Near Slaughter house Panchkula (PKL-RDQ-038)	30.664066, 76.843880	44.32	34	-
4	Ambala Drain near Motor Market, Ambala City (AMB-RDQ-008)	30.388012, 76.790604	47.60	34	49000
5	Ghail drain at Samaspur, Ambala (AMB-RDQ-011)	30.333736, 76.667902	22.34	14	27000
6	Markanda River Bhagal Bridge. (Longitude 76026.218' and Latitude 30005.025') (KTL-RDQ-002)	Longitude 76026.218' and Latitude 30005.025'	120.05	40	110000
7	Cheeka Drain/Old Ghaggar Creek	Longitude 76.232452' and Latitude 30.064188'	20	42	130000
8	Sagar Para Drain before mixing in Ghaggar river, Village Sagra. (Longitude 76011.249' and Latitude 29052.976') (KTL-RDQ-011)	Longitude 76011.249' and Latitude 29052.976'	49	38	110000
9	Kaithal drain before mixing River Ghaggar at Khanauri. (Longitude	Longitude 76006.831'	95.55	39	180000



Sr. No.	Name of drain	latitude/ Longitude	Flow (in MLD)	BOD (mg/l)	F.Coli
	76006.831' and Latitude 29050.731')	and Latitude 29050.731'			
10	Discharge of Ratia Town through drain (Longitude 29.711468 and Latitude 75.551894)	Longitude 29.711468 and Latitude 75.551894	4.5	18	77000
11	Discharge of Jakhal Town	29.787241, 75.827388	1.25	6	13000
12	Discharge of 7.5 MLD STP PHED Ellenabad, Sirsa into River Ghaggar (HSR-RDQ-018)	29.489644, 74.741455	0.24	22	12000

**(b) Water quality and flow of river Ghaggar**

Sr. No.	Drains meeting with river Ghaggar	Latitude/ Longitude	Flow (In MLD) Nov., 2020	BOD(mg /l)	F.Coli (MPN/100ml)
1	Ghaggar River at Haryana Himachal Border (Ghaggar River at Morni) (PKL-RDQ-014)	30.742182/ 76.742182		5.2	5000
2	Ghaggar before meeting Kaushlaya River (Burajkottian Zone, Panchkula) (PKL-RDQ-015)	30.639975/ 76.872849	520	5.8	11000
3	Ghaggar River D/S after meeting Kaushalya River (NWMP-Station Code- 1885) (PKL-RDQ-017)	30.740980, 76.909826	560	8	9000
4	U/s of Ghaggar river before meeting discharge of STP Sec-28 at Kakrali, Punjab. (PKL-RDQ-022)	30.613894/ 76.836044	565	4.2	11000
5	D/S of Ghaggar river after meeting discharge of STP Sec-28 at Kakrali, Punjab. (PKL-RDQ-024)	30.642798, 76.874462	573.50	4.8	17000
6	Ghaggar River before meeting Ambala Drain (AMB-RDQ-007)	30.402314, 76.743059	918.75	3.5	7000
7	Ghaggar River after meeting Ambala Drain (AMB-RDQ-009)	30.398033, 30.398033	958.50	9	11000
8	Ghaggar River before mixing Ghail drain at Samaspur (Ambala) (AMB-RDQ-010)	29.71135/ 75.552123	958.50	7	4000
9	Ghaggar River after mixing Ghail Drain at Samaspur (Ambala) (AMB-RDQ-012)	30.332689, 76.668607	976.45	8	17000
10	Ghaggar River before meeting river Markanda at Village Chiali. (Longitude 76025.974' and Latitude	Longitude 76025.974' and Latitude	7.20	50	180000

Sr. No.	Drains meeting with river Ghaggar	Latitude/ Longitude	Flow (In MLD) Nov., 2020	BOD(mg /l)	F.Coli (MPN/100ml)
	30007.695') (KTL-RDQ-001)	30007.695'			
11	Ghaggar River after mixing Markanda River at village Dhandota. (Longitude 76022.571' and Latitude 30005.410')	Longitude 76022.571' and Latitude 30005.410'	15.50	32	150000
12	Ghaggar River before mixing of cheeka Drain (Longitude 76.232452' and Latitude 30.064188') (KTL-RDQ-007)	Longitude 76.232452' and Latitude 30.064188'	15.50	52	210000
13	Ghaggar River after mixing of cheeka Drain (Longitude 76.232452' and Latitude 30.064188')	Longitude 76.232452' and Latitude 30.064188'	21.10	48	120000
14	Ghaggar River before mixing Sagar Para Drain at Village Rasoli. (Longitude 76010.173' and Latitude 29054.305') (KTL-RDQ-010)	Longitude 76010.173' and Latitude 29054.305'	Punjab	42	180000
15	Ghaggar River after mixing of Sagar Para Drain at Village Rasoli. (Longitude 76010.135' and Latitude 29053.548') (KTL-RDQ-012)	Longitude 76010.135' and Latitude 29053.548')	Punjab	35	90000
16	River Ghaggar before mixing Kaithal drain at Khanauri. (Longitude 75000.061' and Latitude 29050.754') (KTL-RDQ-013)	Longitude 75000.061' and Latitude 29050.754'	Punjab	48	250000
17	River Ghaggar after mixing Kaithal Drain into River Ghaggar. (Longitude 76006.663' and Latitude 29050.723') (KTL-RDQ-018)	Longitude 76006.663' and Latitude 29050.723'	Punjab	44	170000
18	River Ghaggar before meeting discharge of Ratia. (HSR-RDQ-005)	29.693333, 75.580474	147	38	110000
19	River Ghaggar after meeting of discharge of Ratia. (HSR-RDQ-007)	29.716549, 75.549705	151	32	110000
20	River Ghaggar before meeting discharge of Jhakhhal (29.786392, 75.826893) (HSR-RDQ-001)	29.786392, 75.826893		52	220000
21	River Ghaggar after meeting discharge of Jhakhhal (29.786392, 75.826893) (HSR-RDQ-003)	29.786392, 75.826893		38	150000
22	River Ghaggar before discharge of 7.5 MLD STP PHED, Ellenabad	29.457123, 74.677554		32	130000

Sr. No.	Drains meeting with river Ghaggar	Latitude/ Longitude	Flow (In MLD) Nov., 2020	BOD(mg /l)	F.Coli (MPN/100ml)
	Sirsa (HSR-RDQ-017)				
23	River Ghaggar after discharged of 7.5 MLD STP PHED, Ellenabad Sirsa (HSR-RDQ-019)	29.489821, 74.746049		28	62000

**(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 41 locations and non complying at 37 locations. Directions have already been conveyed to all the task forces to cap such water sources and a display board mentioning that "Water is not for drinking purpose" may be placed. The same has been compiled by the task forces.

Sr. No.	Region	No. of points monitored	Complying	Non-complying
1	Panchkula	7	7	0
2	Ambala	7	7	0
3	Jind	2	0	2
4	Kaithal	15	1	14
5	Hisar	5	2	3
6	Sirsa	24	15	9
7	Fatehabad	18	9	9
<b>Total</b>		<b>78</b>	<b>41</b>	<b>37</b>

**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 and 77.12788	73.5	180	221000
2	Drain No.2 before meeting river Yamuna at vill. Khojkipur	29.280218, 77.120858	130	19	14000
3	Drain no. 6 before entry in Delhi	28.890391, 77.109702	138.55	74	49000
4	Entry point of Mungeshpur drain in Delhi Territory, back side of Sainik School, Bypass, Bahadurgarh, Distt. Jhajjar	Latitude 28.669716 and Longitude 76.949466	24.5	54	120000
5	Entry point of KCB drain in Delhi Territory, Near MCD Toll Tax	Latitude 28.650667	29.4	52	90000

Sr. No.	Name of drain	latitude/ Longitude	Flow (in MLD)	BOD (mg/l)	F.Coli
	point, VPO-Lowa Siddhipur, Distt. Jhajjar	and Longitude 76.937005			
6	Entry point of Drain No. 8 in Delhi Territory, Near Dhansa Store of Executive Engineer, Irrigation & Flood Control Deptt. of Delhi Govt., VPO-Lohat, Distt. Jhajjar	Latitude 28.535362 and Longitude 76.869600	17.15	32	72000
7	Leg I Drain, before meeting Najafgarh Drain Gurgaon	28.531019, 77.001858	164 (this includes treated water from STP Behrampur 90-100MLD and CETP Manesar 30-40 MLD)	50	-
8	Leg II Drain, before meeting Najafgarh Drain Gurgaon	28.508322, 76.975010	6.6	38	-
9	Leg III (Badshpur) Drain before meeting Najafgarh Drain Gurgaon	28.484470, 76.953334	1.29	48	-
10	Budhiya Nala before meeting river Yamuna, at Vill. Manjhawali, Faridabad	28.382511, 77.481014	105	48	47000
11	Gaunchi Drain before River Yamuna, Palwal	27.914783, 77.517323	45.46	32	38000

**(b) Water Quality and flow of river Yamuna**

Sr. No.	Drains meeting with river Ghaggar	latitude/ Longitude	Flow (in Cusecs)	BOD (mg/l)	F.Coli
1	River Yamuna before meeting Maskara Nallah, upstream, Kalanaur	29.726992/ 77.13079	UP	2.4	11000
2	River Yamuna after meeting Maskara Nallah, Down Stream, Kalanaur	30.068276, 77.348271		4.5	17000
3	River Yamuna before meeting Dhanaura Escape upstream, Karnal	29.73327/7 7.1277	352	5.2	390
4	River Yamuna after meeting Dhanaura Escape downstream,	29.72592 and	391	7	580

Sr. No.	Drains meeting with river Ghaggar	latitude/ Longitude	Flow (in Cusecs)	BOD (mg/l)	F.Coli
	Karnal	77.13278			
5	River Yamuna before meeting the discharge of Drain No. 2 at Vill. Sanjoli		615	74	BDL(DI=2)
6	River Yamuna after meeting the discharge of Drain No. 2 near Vill. Khojkipur.	28.86158/ 77.206427	659.15	5.2	11000
7	River Yamuna before meeting Diversion Drain no. 8	28.884931, 77.147185	150	5.5	9000
8	River Yamuna after meeting Diversion Drain No. 8 at Palla	28.379079/ 77.486982	160	5.4	9000
9	River Yamuna before meeting Alipur drain, Basantpur	28.510704, 77.346107	Delhi	23	29000
10	River Yamuna after meeting Alipur drain.	27.912886/ 77.519735		34	32000
11	Yamuna River upstream before Budhiya Nalah at Vill. Manjhawali, Faridabad	28.384703, 77.489578	375	48	29000
12	Yamuna River downstream after meeting Budhiya Nalah at Vill. Manjhawali, Faridabad	28.372917, 77.487966	415	38	38000
13	River Yamuna D/S before Gaunchi Drain	27.914783, 77.517323	320	19	370
14	River Yamuna D/S after Gaunchi Drain	27.909736, 77.521114	348.76	14	38000

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

Ground water quality is being monitored at 74 locations in the catchment of river Yamuna by HSPCB. Out of total 74 locations, ground water is found fit for drinking at 51 locations and non complying at 23 locations. Directions have already been conveyed to all the task forces to cap such water sources and a display board mentioning that "Water is not for drinking purpose" may be placed. The same has been compiled by the task forces.

Sr. No.	Region	NO. of Points monitored	Complying	Non-Complying
1	Panipat	9	7	2
2	Faridabad	7	7	0

<b>Sr. No.</b>	<b>Region</b>	<b>NO. of Points monitored</b>	<b>Complying</b>	<b>Non-Complying</b>
3	Sonepat	13	8	5
4	Ballabgarh	5	1	4
5	Palwal	7	3	4
6	Bahadurgarh	7	1	6
7	Gurgaon South	9	7	2
8	Gurgaon North	8	8	0
9	Yamuna Nagar	3	3	0
10	Karnal	5	5	0
11	Nuh	1	1	0
	<b>Total</b>	<b>74</b>	<b>51</b>	<b>23</b>

**XIV. Ground water regulation:**

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

**XV. Good irrigation practices being adopted by the State:**

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

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

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

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

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

**XVI. Rain Water Harvesting:**

Following steps are taken for rain water harvesting / conservation of water/avoid exploitation of ground water

## **XVII. 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.

## **XVIII. Maintaining minimum e-flow of river:**

### **River Ghaggar**

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

### **River Yamuna**

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

## **XIX. Plantation activities along the rivers:**

### **River Ghaggar**

#### **Urban Estate Wise Plantation Done in HSVP Area in 2018-2019 and 2019-2020.**

<b>Sr. No.</b>	<b>Name of U/E</b>	<b>Plantation Done in the Year 2016-17</b>	<b>Plantation Done in the Year 2017-18</b>	<b>Plantation Done in the Year 2018-19</b>	<b>Plantation Done in Year 2019-20 (upto 29.02.2020)</b>
1	Panchkula	11238	6929	5000	7820

Sr. No.	Name of U/E	Plantation Done in the Year 2016-17	Plantation Done in the Year 2017-18	Plantation Done in the Year 2018-19	Plantation Done in Year 2019-20 (upto 29.02.2020)
2	Ambala	3800	2317	1500	3626
3	Pehowa	125	0	0	0
4	Naraingarh	125	0	0	0
5	Kurukshetra	3430	2050	2000	3472
6	MTS Gulha	100	0	0	0
7	MTS Pundri	100	0	0	0
8	Kaithal	675	2120	1000	3160
		<b>19593</b>	<b>13416</b>	<b>9500</b>	<b>18078</b>

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

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

**Action plan for plantation in 2020-2021**

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

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

**River Yamuna**

**Urban Estate Wise Plantation Done in HSVP Area in 2018-2019 and 2019-2020.**

Sr. No.	Name of U/E	Plantation Done in the Year 2016-17	Plantation Done in the Year 2017-18	Plantation Done in the Year 2018-19	Plantation Done in Year 2019-20 (upto 29.02.2020)
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Sr. No.	Name of U/E	Plantation Done in the Year 2016-17	Plantation Done in the Year 2017-18	Plantation Done in the Year 2018-19	Plantation Done in Year 2019-20 (upto 29.02.2020)
1	Jagadhri / Yamunagar	1905	1746	500	1178
2	Shahabad	155	0	0	0
3	Karnal	6819	10038	5000	2810
4	Faridabad	22073	26513	14300	22490
5	Palwal	1125	950	100	300
6	Rojka Meo	0	0	500	100
		<b>32077</b>	<b>39247</b>	<b>20400</b>	<b>26878</b>

**Plantation done in catchment of river Yamuna by Forest Department in 2018-2019 and 2019-2020.**

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

**Action plan for plantation in 2020-2021**

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

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

**XX. 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
<b>Total</b>		<b>12611</b>

**River Yamuna**

District	Names	Area in Acre
Yamuna Nagar	i) Rudraksh Vatika at village Chuharpur	184
	ii) Adi Badri Herbal Park	10
Karnal	i) Ashok Vatika at Gharaunda	5
	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
<b>Total</b>		<b>253</b>

**XXI. Reuse of Treated Water:**

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

The Executing Committee has recommended that the Departments of ULB, PHED and HSVP shall provide details of all STPs and their capacities to Irrigation Department, which in turn will ensure that the towns in Ghaggar and Yamuna catchment area are covered through a consolidated project or separate scheme for utilization of treated sewage for irrigation purposes. And it further recommended that Irrigation Department shall prepare a proposal and get the same constructed and commissioned by 31.03.2021. Irrigation Department was requested to take note of the same and do the needful. It was informed by ACS Irrigation during last meeting that they are arranging funds from NABARD for these schemes.

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

Both Ghaggar and Yamuna river stretches.

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

NA

**XXIV. Regulation of Mining Activities in the State/UT:**

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

**Action by HSPCB**

✓ **Ghaggar**

- No. of industries inspected - 156
- No. of closure order issued against violating units - 134
- No. of violating units prosecuted - 41
- No. of violating units against whom EC imposed - 18
- Amount of EC Imposed - 2.7 Crore
- Charge sheet issued against 1 Environmental Engineer & 1 Assistant Environmental Engineer for failure for vigorous monitoring.

▪ **Yamuna**

- No. of industries inspected - 817
- No. of closure order issued against violating units - 534
- No. of violating units prosecuted - 176
- No. of violating units against whom EC imposed - 92
- Amount of EC Imposed -27.8 Crore

**Annexure-1**

**13 Clusters of ISWM in river catchment**

<b>Sr. No.</b>	<b>Name of Clusters</b>	<b>Name of ULBs within Cluster</b>	<b>Estimated Waste Quantity (TPD)</b>	<b>Remarks</b>
1	Gurugram-Faridabad	Gurugram and Faridabad	1500	Works has been awarded and work is likely to be completed by July, 2022.
2	Sonepat-Panipat	Sonepat, Panipat, Samalkha and Gannaur.	500	Work in progress and likely to be completed by March, 2021.
3	Ambala-Yamunanagar	Ambala, Naraingarh, Yamuna Nagar, Radaur, Barara, Sadhura	675	Model document is under approval from Cabinet Committee on Infrastructure (CCI).
4	Karnal-Kaithal-Kurukshetra	Indri, NilokheriTarori, Karnal Gharaunda, Nissing, Assandh, Thanesar, Shahbad, Ladwa, Kaithal, Kalayat ,Rajound, Cheeka ,Pundri	590	Model document is under approval from Cabinet Committee on Infrastructure (CCI).
5	Rohtak-Bahadurgarh-Jhajjar	Kalanaur, Meham, Rohtak, Gohana, Bahadurgarh, Kharkhoda, Julana, Jhajjar, Sampla, Beri	601	Model document is under approval from Cabinet Committee on Infrastructure (CCI).
6	Hisar-Fatehabad	Hisar, Barwala, Hansi, Siwani, Fatehabad, Bhuna, UklanaMandi, Ratia,Tohana, JhakaIMandi	407	Model document is under approval from Cabinet Committee on Infrastructure (CCI).
7	Panchkula	Panchkula	155	Model document is under approval from Cabinet Committee on Infrastructure (CCI).
8	Bhiwani	Bhiwani, Bawanikhera, CharkhiDadri	181	Model document is under approval from Cabinet Committee on Infrastructure (CCI).
9	Jind	Jind, Narwana, Safidon, Uchana, Narnaund, Sisai, Bass	168	Model document is under approval from Cabinet Committee on Infrastructure (CCI).
10	Sirsa	Sirsa, Rania, Ellenabad, Kalanwali, MandiDabwali	146	Model document is under approval from Cabinet Committee on Infrastructure (CCI).
11	Rewari	Bawal, Dharuhera, Rewari,	466	Model document is under

<b>Sr. No.</b>	<b>Name of Clusters</b>	<b>Name of ULBs within Cluster</b>	<b>Estimated Waste Quantity (TPD)</b>	<b>Remarks</b>
		Mahendergarh, Kanina		approval from Cabinet Committee on Infrastructure (CCI).
12	Punhana	Punhana, F/Jhirka, Hathin, Hodal, Palwal, Sohna, Nuh, Tauru	215	Model document is under approval from Cabinet Committee on Infrastructure (CCI).
13	Farukhnagar	Farukh Nagar, HailyMandi, Pataudi	26	Model document is under approval from Cabinet Committee on Infrastructure (CCI).
		<b>Total</b>	<b>5630</b>	

## Annexure-2

## Details of Dump Site

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

Sr. No.	Name of MC	Dumpsite Location	Area Covered (In Acre)	Height ( in Mtr.)	Quantity ( in Lakh MT)	Date since the dumpstie is in operation	Remarks
6	Panchkula	Nera IT Park Sector-23 Panchkula	10.5	4	3.96	14 Year's (2004 onwards dumping started)	
7	Rohtak	Near SWM plant, Drain No. 8,Bhiwani Road, Village Sunarian, Rohtak Ward NO. 22	10	4	3.95	2010	
8	Bahadurgarh	Naya Gaon, Badli Road	7.2	3	3.2	Since 2004	
9	Yamunanagar-Jagadhri	Kail Kachra Plant	12	2.5	1.76 Approx	21.12.2012 to 14.12.2013 (Plant is not working from 14.12.2013 to till date.)	-
10	Jind	Near Delhi Ferozpur Railway Line	18.12	2.13	1	1996	
11	Shahabad (M).	Village Kalyana	0.48	4.9	0.11	19.12.2018	Land on lease basis.

Sr. No.	Name of MC	Dumpsite Location	Area Covered (In Acre)	Height ( in Mtr.)	Quantity ( in Lakh MT)	Date since the dumpstie is in operation	Remarks
12	Narnaul	Raghunathpura	16	15	0.59	Since 2001	
13	Safidon	Near Assandh By Pass back of New Grain Market Safidon	0.06	0.9	0.006	Since Sep-2019	
14	Ratia	Jakhal Dadi Road	4	1	0.11	2017	area covered 30 %
15	Rania	Balasar Raod, Back Side Nirankari Bhawan, Ward No. 02, Rania.	3.3	2.1	0.14	Year 2018	10 Feet Depth of the Site
16	Rajound	Gas Agency Road, Ward 03 Rajound	0.14	1	0.002	43718	-
17	Radaur	SK Road Radaur	1	-	0.003	09.02.2016	-
18	Palwal	Meghpur Village	1.48	Height= 1.25 Mtr. Depth=2.10 Mtr. Total= 3.35 Mtr.	0.12	Year 2017	
19	Nilokheri	Kali Mata Mandir Road	2	2.33	0.18	Approximately 8-10 Year	
20	Nangal Chaudhary	Near Krishnawati River Nangal Chaudhary	0.7	0.9	0.015	Since 2013	-



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

Sr. No.	Name of MC	Dumpsite Location	Area Covered (In Acre)	Height ( in Mtr.)	Quantity ( in Lakh MT)	Date since the dumpstie is in operation	Remarks
31	Assandh	Near Kanchi gate Kaithal road Assandh	1.38	4.57	0.15	Since 2004	-
32	Charkhi Dadri	Rania Wala Johar, Near Bhiwani Rohtak Bye pass	4	3	0.26	Year 2006	
33	Gohana	Vilalge Thaska	4.7	5.5	0.42	2011	
34	Haily Mandi	Near Mirzapur Road, W. No. 7 Haily Mandi	2.49	2.43	0.00028	11.03.2020	
35	Indri	Indri Bypass Road	1.2	1	0.03	5-8 Years	
36	Kaithal	Khurana Road	5	2.43	0.8	41426	
37	Kharkhoda	Sampla Road Bye pass	2	1.22	0.24	Approx 25 Years	
38	Narnaund	Near Shanshan Ghat W. No. 4	1.4	1	0.028	2001	
39	Nuh	Jogipur Road, Nuh town, Near Vijay Gas Agency	3.7	NIL	0.16	2011	
40	Pataudi	Ward No. 10 Moti Dungri	2	2.85	0.11	Approximately frrom year 2000	-
41	Pehowa	KKR Road	2	0.5	0.008	Since 2018	

Sr. No.	Name of MC	Dumpsite Location	Area Covered (In Acre)	Height ( in Mtr.)	Quantity ( in Lakh MT)	Date since the dumpstie is in operation	Remarks
42	Rewari	Ramsinghpura Bawal	12	Varies from average1.22 mtr to average3.20 mtr		0.6	Since 2005
43	Bawal	There is common dumpsite for MC Rewari, MC Bawal, MC Dharuhera.					
44	Dharuhera	There is common dumpsite for MC Rewari, MC Bawal, MC Dharuhera.					
45	Sohna	Old Delhi Alwar Road BehindNirankari College Sohna	5	2.00-2.25	0.51	2010	
46	Taraori	Nadana road near electricity power house M.C Taraori	0.22	3.5	0.0315	Approx 8-10 Years	
	Taraori	Nadana road near electricity power house M.C Taraori	0.11	3.5	0.0157	Approx 8-10 Years	
	Taraori	Nadana road near electricity power house M.C Taraori	0.19	3.5	0.02625	Approx 8-10 Years	
		Nadana road near					

Sr. No.	Name of MC	Dumpsite Location	Area Covered (In Acre)	Height ( in Mtr.)	Quantity ( in Lakh MT)	Date since the dumpstie is in operation	Remarks
	Taraori	electricity power house M.C Taraori	0.15	1	0.006	Approx 8-10 Years	
		Nadana road near electricity power house M.C Taraori	0.33	4	0.054	Approx 8-10 Years	
	Taraori	Nadana road near electricity power house M.C Taraori	0.08	3.5	0.0126		
	Taraori	Nadana road near electricity power house M.C Taraori					
47	Nissing	Near Mata Sundri Khalsa Girls College Karnal-Kaithal Road	2	3	0.15	This Dumpsite is under operation since the time of Gram Panchayat nissing	Municipal Nissing was constituted in the year 2010, but this dumpsite is in operation from the time of gram panchayat.
48	Hodal	Gadhi Mod, Hodal	2	1	0.04		
49	Siwani	Tosham Road	2.3	1.2	0.07	SINCE LAST 7-8 YEARS	
50	Tauru	Burakha Pahadi	1	3.5	0.35	2009	
51	Ganaur	Badshahi Road, Near Telephone Exchange, Ganaur.	4.4	4.5	0.25	18 YEARS APPROX.	
52	Kalanwali	Dadu Road, Ward No. 10	2	below ground level	0.0328	30 years.	
53	Mahendergarh	Dohan Nadi	4	1.5	0.12138	since 4 years	

Sr. No.	Name of MC	Dumpsite Location	Area Covered (In Acre)	Height ( in Mtr.)	Quantity ( in Lakh MT)	Date since the dumpstie is in operation	Remarks
54	Narwana		2	4.5	Not estimated	since 1987	
55	Hathin		NA	NA	NIL	NA	There is no permanent landfill site in MC Hathin.
56	Jakhal Mandi	Balran Road	0.55	7	0.00015	20.01.2020	
57	Jhajjar	Village Utlondha Distt. Jhajjar	8.6	1.5	0.01818	since 2017	
58	Karnal	Village Sekhpura, Karnal	8	6	0.714	41944	
59	Sadaura	Kala Amb Road Near ITI	2.5	-	-		
60	Naraingarh	There is no dumpsite in MC, Naraingarh. All the Solid waste, garbage of MC Naraingarh is transported to Patvi dumpsite of Ambala City.					
61	Ambala sadar	There is no dumpsite in MC, Ambala sadar. All the Solid waste, garbage of MC Ambala Sadar is transported to Patvi dumpsite of Ambala City.					
62	Pundri	Near kakaut Road	1	NIL	0.0002	27.03.2020	
63	Sampla	MC, Sampla sent all solid waste to SWM Plant Rohtak.					
64	Kalanaur	MC, Kalanaur sent all solid waste to SWM Plant Rohtak.					
65	Kundli	On Narela Road	1	below ground level	0.00008	42095	
66	Bhiwani	Dadri Road, Bhiwani	10	2.00-3.00	0.22403	Since the existence of MC.	

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

Sr. No.	Name of MC	Dumpsite Location	Area Covered (In Acre)	Height ( in Mtr.)	Quantity ( in Lakh MT)	Date since the dumpstie is in operation	Remarks
79	Loharu	Pilani Road, Loharu	2	1.22	0.002	2006	
80	Kalayath	Kapil Muni Road, Ward No. 8 near shamshanghat, Kalayath	1.5	2.31	0.12	Jan, 2005	
81	Bawani Khera	Hansi-bhiwani main Road	4	1.22	0.009	from last 5 years	
82	Beri	Kabulpur road, near shiv dhamBeri.	0.5	0.25	0.006	Jan-20	
		Beri Jhajgarh road near bhagalpuri chock Beri.	1	1	0.05475	Till March 18	
83	Sonepat	Murthal bye pass (Near DCRUST University)	5	0	0.5	Since 2017	
84	Punhana	Mandikhera, Jamalgarg Road	0.5	0	0.2	Since 2009	
85	Ateli Mandi	Village Khor	1	1	0.01942	2018	
86	Barwala	Kharkhra Road, Barwala	1.75	1.2	0.0052	Since 2018	
87	Uklana Mandi	Theh Uklana	2	1.2	0.006	Since 2017	

## Annexure-3

Details on Capative TSDf(s)  
2019-20

Period:

Name of SPCB/PCC:- HSPCB

Sr. No	Name and address of the Captive Facility	Type of facility (Landfillable/ Incinerable/ both)	Capacity		HW disposed during the year (MT)		Cumulative HW disposed till the end of financial year (MT)	
			Incinerator (MT/H)	Landfill (MT/A)	SLF	Incinerator	SLF	Incinerator
1	M/S Panipat Refinery ,IOCL Panipat	Landfillable	0	2500	1464.5	0	0	0
2	M/s Crystal Crop. Protection Pvt. Ltd. (Unit-II) <b>(Tech. Plant)</b> , Vill. Nathupur, Sonapat.	Incinerable	0.05	0	--	0.005	--	42.8
3	M/s Indogulf Cropsciences Ltd., (Jai Shree Rasayan Udyog Ltd.), <b>(new unit Tech. Plant)</b> , Vill. Nathupur, Sonapat	Incinerable	0.05	0	--	4.62	--	50.62
4	M/s Gujarat Enviro Protection & Infrastructure (Haryana) Pvt. Ltd. TSDf Site, Vill-Pali, Near Pali-Mohabbatabad Stone Crushre Zone, Faridabad	0	0	0	0	0	0	0
5	Jhajjar	Incinerable	15	Nil	Nil	85.6	Nil	Nil