



HARYANA STATE POLLUTION CONTROL BOARD
C-11, SECTOR-6, PANCHKULA
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No. HSPCB/WC/2020/3760-3761

Dated:- 24-09-2020

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, 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 August,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 Action Plan (**Annexure-A**) and Yamuna Action Plan (**Annexure-B**) of Haryana on the prescribed format for your kind information and necessary action please.

DA/ As above


Sr. Env. Engineer(HQ)
For Chairman 

Before the Hon'ble National Green Tribunal, New Delhi

In the matter of OA No. 673/ 2018 dated 06.12.2019 and OA No. 593/2017 dated 21.05.2020, monthly progress report by State of Haryana regarding Ghaggar Action Plan- August, 2020.

The State of Haryana submits the following progress report for the month of August, 2020-

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

There are 11 major drains, i.e. Sukhna Nallah, Jatton Wala Nallah, STP Panchkula, MDC Drain, Sukhna Choe, Ambala Drain, Ghail drain, Markanda River, Sagarpara (Saraswati) Drain, Kaithal Drain and Ratia Drain falling out in River Ghaggar in the State of Haryana. The flow and water quality of all the drains is regularly being monitored by HSPCB.

The Officers of Haryana State Pollution Control Board, Urban Local Bodies Department, Haryana Shahari Vikas Pradhikaran, Public Health Engineering Department, and Panchayats Department have been deputed to visit the sites of phyto remediation in Punjab State on 11.08.2020. So that similar projects can be established/ commissioned in Haryana.

2) Status of Sewage Treatment Plants, Interception and Diversion Sewerage Networks. Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline.

(a) Details for sewage management (in million litres per day)

| River | Sewage Generated | Treatment Capacity | Gap |
|---------|------------------|--------------------|-----|
| Ghaggar | 258.17 | 514 | 0 |

Gap analysis- However, there is gap in treatment capacity of 0.71 MLD in Ambala only. The town wise details of sewage management is enclose as **Annexure 1**.

(b) Details of Sewage treatment plants

| Existing STPs | | Under Construction | | Proposed STPs | |
|---------------|----------|--------------------|----------|---------------|----------|
| No. | Capacity | No. | Capacity | No. | Capacity |
| 59 | 514 | 14 | 68 | 8 | 46.5 |

Work of construction of new STPs will be completed latest by 31.12.2020. The list of existing STPs is attached as **Annexure-2**. The latest status of under construction and proposed STPs are enclosed at **Annexure 3 & 4**.

(c) Laying of Sewerage in approved/notified areas

- Total length of sewer line to be laid - 508 Km
- Length laid so far -320 Km
- Total towns in catchment area of Ghaggar-27
- Sewerage fully laid in 21 towns
- Work is under process at 6 locations
- Work will be completed latest by

31.12.2020 The details are enclosed at **Annexure-5**.

(d) Interception/diversion of sewage in the un-approved areas

186 MLD of effluent was proposed to be tapped/ diverted at 91 locations. Out of which 19.72 MLD effluents has been diverted at 12 locations, so far.

3) Status of CETPs, Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status.

Details of **Common Effluent treatment plants**

| Existing CETPs | | Under Construction CETPs | | Proposed CETPs | |
|----------------|----------|--------------------------|----------|----------------|----------|
| No. | Capacity | No. | Capacity | No. | Capacity |
| 4 | 6.1 | 0 | 0 | 2 | 3 |

- No. of industries in catchment of River Ghaggar - 107
- No. of ETPs installed - 107
- Quantum of Industrial effluent generation - 4 MLD
- Gap in treatment - 0

The list of existing and proposed CETPs are enclosed at **Annexure-6 and 7**.

4) Status of Solid Waste Management & Details of Processing Facilities Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline.

There are 87 Urban Local Bodies in the State of Haryana and generates 5568 UPD Municipal Solid Waste Out of which 21084 TPD is being processed/treated and remaining quantity i.e. 3460. 12 TPD is being sent to landfills.

Compliance Status w.r.t various activities to be mentioned in Rule 22 Solid Waste Management Rules, 2016 is as under:-

- i. Identification of suitable sites for setting up solid waste processing facilities.

Out of 14 targeted sites 13 sites have been procured except Hisar. The land for Hisar Cluster was procured once, but due to proposed international airport within the vicinity of 2 km, the same site cannot be used, so the alternate site is under procurement for Hisar Cluster.

- ii. Identification of suitable sites for setting up common regional sanitary landfill facilities

for suitable clusters of local authorities under 0.5 million population and for setting up common regional sanitary landfill facilities or standalone sanitary landfill facilities by all local authorities having a population of 0.5 million or more.

Total common regional sanitary landfill sites required for the state is 14. Out of 14 cluster sites for setting up of Common Sanitary Landfill facilities (including cities with population more than .5 million), total 13 sites based on Integrated Solid Waste processing projects have already been identified.

Site for Hisar cluster site is under procurement process.

- iii. Procurement of suitable sites for setting up solid waste processing facility and sanitary landfill facilities.

14 suitable sites for setting up of Solid Waste processing facilities and Sanitary Landfill facilities has been identified out of which 13 sites for the development of Integrated Solid Waste processing facilities and Sanitary Landfill facilities have already been procured. The procurement of site (processing facilities and Sanitary Landfill) for Hisar cluster is under progress and will be procured at the earliest.

- iv. Enforcing waste generators to practice segregation of biodegradable, recyclable, combustible, sanitary waste domestic hazardous and inert solid wastes at source.

Source segregation has been initiated in 1112 wards (72%) out of total 1540 wards in the state of Haryana.

- v. Ensure door to door collection of segregated waste and its transportation in covered vehicles to processing or disposal facilities.

The details of the door to door collection of the waste in the Municipalities of the State is tabulated as under: -

| SWM Activities in State | Quantity |
|--|-----------------|
| Total No. of Wards | 1540 |
| Quantity of Solid Waste | 5568 TPD |
| No. of wards with 100% Door to Door Collection | 1470 |
| No. of wards where segregation is initiated | 1112 |
| No. of vehicles | 6007 |
| No. of vehicle with Compartment | 3720 |
| No. of vehicles with GPS | 1547 |
| No. of GVPs Identified | 835 |
| No. of BWG identified | 1426 |
| No. of BWG processing on site | 516 |

| SWM Activities in State | Quantity |
|--|-----------------|
| No. of Solid Waste Challan collected | 5297 |
| No. of Plastic Waste Challan collected | 9587 |

- vi. Ensure separate storage, collection and transportation of construction and demolition wastes.

All the ULBs have initiated separate collection and transportation of Construction and Demolition waste. Separate storage sites for Construction and Demolition waste have been identified in 79 ULBs.

- vii. Setting up solid waste processing facilities by all Local Bodies having 100000 or more population.

The approach adopted by the state is broadly categorized under two heads;

- a. Decentralized Approach (Town/City Wise)
- b. Integrated Centralized Waste Processing Approach (Cluster Wise)

Decentralized Approach is being adopted with an objective to create an atmosphere which impacts the ideology and mind set of people as to how important is their role in ensuring effective and efficient waste management with minimal resources and which is self-driven.

As part of this approach presently around 1559 Compost pits have been constructed across all the ULBs. The no. was merely 789 pits in March 2019. Also 392 Material Recovery Facilities have been set up and the target is to reach 600 MRFs, within a span of next 3 months with each ULB having at-least 1(One) MRF. There were only 56 MRF in March 2019. Apart from setting up Compost pits, Vermi-Composting facility, Bio-methanation plant, windrow composting at existing dumpsite is being currently practiced. Also, in Karnal city alone approx. 2000 Household composting pits have been recorded.

All the ULBs have also ensured that all the Bulk Waste Generators are identified and have started processing their wet waste, this resulted in overall reduction in volume of wet waste being sent for disposal.

The nos. pertaining to Compost pits, Household composting, Wet Waste Processing through Vermi-Composting, Windrow composting and bio-methanation and dry waste recovery, reuse and recycling through MRFs are continuously increasing and all the efforts are being made to improve the Solid Waste Management Scenario in time bound manners.

The Integrated Centralized Waste Processing Approach (Cluster Wise) is being adopted as a long-term approach within 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 Cluster have been formed covering all the ULBs. Two (2) Clusters are Waste to Energy having average solid waste quantum more than

500 TPD and remaining Eleven (11) are Open technology cluster. 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 Dec 2020. The Environmental Clearance of Gurugram-Faridabad (1500 TPD) Waste to Energy Projects has been granted and application has been submitted for obtaining Consent to Establish (CTE) for same. The construction of the plant is likely to be started soon. Once commissioned these two projects alone will cater to approx. 40% processing of entire waste being generated in the state i.e. approx. 5000 TPD.

Also, there are two existing operational centralized waste to compost processing facilities in the State i.e. Rohtak (150 TPD) & Karnal (150 TPD). Under this approach these plants will be upgraded and expanded to cater the future waste generation requirements.

The sites have been identified and procured for all the clusters except 2 Clusters and the tendering process is under progress. The Overall targeted schedule for successfully awarding and commissioning rest 11 Clusters is December 2022.

- viii. Setting up solid waste processing facilities by Local Bodies and census towns below 100000 population.

The sites have been identified and procured for all the clusters except Hisar Clusters. The Overall targeted schedule for successfully awarding and commissioning rest 11 Clusters is December 2022.

- ix. Setting up common or standalone sanitary landfills by or for all Local Bodies having 0.5 million or more population for the disposal of only such residual wastes from the processing facilities as well as untreatable inert wastes as permitted under the Rules.

The sites have been identified and procured for all the clusters except Hisar Clusters. The Overall targeted schedule for successfully awarding and commissioning rest 11 Clusters is December 2022.

- x. Setting up common or regional sanitary landfills by all Local Bodies and census towns under 0.5 million population for the disposal of permitted waste under the rules.

The sites have been identified and procured for all the clusters except Hisar Cluster. The Overall targeted schedule for successfully awarding and commissioning rest 11 Clusters is December 2022.

- xi. Bioremediation or capping of old and abandoned dump sites.

Bioremediation of the legacy waste has been started in Municipal Corporation, Rohtak, Gurugram, Panchkula, Hisar & Municipal Council, Bahadurgarh.

5) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;

(a) Water quality of river Ghaggar

| Sr. No. | Name of drains | Flow | BOD(mg/l) | F.Coli (MPN/100ml) |
|---------|-----------------------------|--------|-----------|--------------------|
| 1 | Sukhna Nallah | 3.50 | 36 | - |
| 2 | Jatton Wala Nallah | 15.00 | 160 | - |
| 3 | STP Panchkula | 8.50 | 3.8 | 580000 |
| 4 | MDC Drain | 17.00 | 12 | - |
| 5 | Sukhna Choe | 100.00 | 92 | - |
| 6 | Ambala Drain | 39.75 | 16 | - |
| 7 | Ghail drain | 17.95 | 12 | - |
| 8 | Markanda River | 24.05 | 43 | 210000 |
| 9 | Sagarpara (Saraswati) Drain | 28.57 | 7.5 | 21000 |
| 10 | Kaithal Drain | 30.25 | 40 | 210000 |
| 11 | Ratia Drain (STP) | 4.00 | 20 | 56000 |

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

Ground water quality is being monitored at 79 locations in the catchment of river Ghaggar by HSPCB. Out of total 79 locations, ground water is found fit for drinking at 39 locations and non complying at 40 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 | 8 | 8 | 0 |
| 2 | Ambala | 7 | 7 | 0 |
| 3 | Jind | 2 | 0 | 2 |
| 4 | Kaithal | 15 | 2 | 13 |
| 5 | Hisar | 5 | 2 | 3 |
| 6 | Sirsa | 24 | 16 | 8 |
| 7 | Fatehabad | 18 | 4 | 14 |
| Total | | 79 | 39 | 40 |

6) Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams, etc.

(i) Bio Medical Waste Management:-

As per the Annual Report of 2018 Haryana state has generated 14217.88 KG/Day and same is processed/treated by the authorized 11 nos. of Common Bio Medical Waste Treatment Facilities. Total Incineration Capacity of these CBWTFs is 1650 Kg/hr.

Existing Treatment Facilities: Haryana has 11 authorized Common Bio Medical Waste Treatment Facilities (CBWTF) in the State for Treatment and disposal of waste generated during Treatment/ Diagnosis/ Quarantine of COVID-19 patients. The total incineration capacity of these CBWTFs is around 39,600 kg / day and the autoclave capacity is around 38,440 kg / day. The list of these authorized CBWTFs and their jurisdiction is as under:-

| Sr. No. | Name of CBWTF | Area of Operation (Districts) |
|---------|--|---|
| 1. | M/s Biotic Waste Ltd., Sec-37, Gurugram | Gurugram & Rewari |
| 2. | M/s Golden Eagle Waste Management Co., Vill. & PO Jasana, Opp, aravali collage Faridabad | Faridabad, Palwal & Mewat |
| 3. | M/s SD Bio Medical Waste Management Co., Vill. Baland Rohtak | Rohtak & Jhajjar |
| 4. | M/s Maruti Bio Medical Waste Plant, Vill. & PO Hetampura, Distt. Bhiwani | Bhiwani, Charkhi Dadri & MahindraGarh (Narnaul) |
| 5. | M/s Divya Waste Management Co., Vill. Kandela, Distt. Jind | Jind & Sonapat, |
| 6. | M/s Synergy Waste Management Pvt. Ltd., P.No. 168, Sec-27-28 Hisar | Hisar |
| 7. | M/s Surya Waste Management, Sahuwala road, Vill. Chandiwal, tehsil & district Sirsa | Sirsa(Govt hospitals) & Kaithal |
| 8. | M/s Invision Enviro Services, VPO Phulkan, Sirsa | Fatehabad & Sirsa(Private hospitals) |
| 9. | M/s Rudraksh Enviro care Pvt. Ltd., Vill. Bhadog, Distt. Ambala | Ambala , Kurukshetra |
| 10. | M/s Esskay Hygienic Services, Vill. Bagwala, Distt. Panchkula | Panchkula, Yamuna Nagar |
| 11. | M/s HAAT Supreme Waste Tech Ltd., Vill. Bazida Kalan, Distt. Karnal | Karnal & Panipat |

- **Status of Covid-19 Bio Medical Waste generated during COVID 19 Period :** During the last Four months (and during the current month, till 19th August 2020), the following quantum of waste has been generated in the State.

| Month | Quantum generated (Tonnes) | Average (Kg / Day) |
|-------------------------------|----------------------------|--------------------|
| April 2020 | 65.94 | 2,198 |
| May 2020 | 109.91 | 3,545 |
| June 2020 | 247 | 8,233 |
| July 2020 | 290.32 | 9,365 |
| August 2020 (upto 19/08/2020) | 146.3 | 7,700 |

(a) Plastic Waste Rules Management

- As per annual report for 2019 total 190163.9 TPD plastic waste is being generated and out of which 54% is being processed/Treated.
- Under the notification no 2/8/2013/R issued in the official Gazette of Haryana Govt. dated 20th August 2013, complete plastic ban has been enforced in the whole State.
- Regular inspections & Challans are being done by the MCs. 9587 nos. of Challans amounting to Rs. 1,27,70,305 have been imposed for the violations from April 2019 to till date.
- Door to door waste collection & segregation is being done through private bodies in almost all MCs.
- Out of 87 MCs, 41 MCs have setup the Material Recovery Facility Centre for sorting and storage & Processing of Plastic Waste. There are 3279 compartmentalized vehicles for collection of segregated waste in MCs. Further, all the MCs have been directed to setup the MRF centres as per requirement and to manage their Plastic waste as per SWM Rules-2016 & Plastic Waste Management Rules-2016.
- State is exploring the possibility to use RDF as fuel meanwhile plastic waste is being used on road construction and co- processing in cement plant.
- At present 46 nos. Of Plastic Waste recyclers are registered under PWM Rules, 2016 to recycle and reutilize the plastic waste in Haryana.
- ULB Department, Haryana has prepared an action plan for Plastic Waste Management which has already been submitted to CPCB.

7) Ground water regulation

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

8) Adopting good irrigation practices,

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) Pilot Project for installation of solar/grid powered micro irrigation infrastructure on sewage treatment plants for utilizing treated water for Irrigation.

With a view of augmenting water of assured supply to the every field, a new intervention has been proposed for the reuse of treated waste water from the existing Sewage Treatment Plants for the use of water in the best alternative which will help in enhancing the irrigation. Working on these lines this pilot project has been prepared on over exploited & critical blocks by selecting STPs of Ladwa, Shahabad and Pehowa towns for irrigation. The farmers of the area to be benefited from this water have already formed Water User Associations and also given an undertaking to the effect that their area, to be covered under this project, is not covered by any canal command and they are willing to adopt this technology. The common Micro Irrigation Infrastructure will be

provided for each STP outlet for supplying pressurized water supply at farm gate by providing pumping unit (grid/solar powered), filtration, HDPE pipe network etc. the water will be provided under pressure of 2-2.5 Kg/cm² So that farmers may utilize this for sprinkler and drip system. Farmers will be provided hydrant for every 4 acres or less if the holding of the farmers is less than four acres. In this manner the treated water, which was otherwise going unutilized in drain, will be put to proper use. It is also reported that sewage water from all these STPs is being properly monitored and tested by Public Health Engineering Department and parameters of this treated water meet with the standards for irrigation.

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

3 projects are commissioned so far, in the catchment of river Ghaggar utilizing 5.69 MLD of treated sewage from 3 STPs. 5 villages are benefitted by irrigating 290 hectares of land. Total cost of the projects is Rs 378.00 lacs.

Further, the Irrigation Department has planned to utilize 158 MLD of treated sewage from 6 STPs for Irrigation of 12755 hectares of agriculture land. Total cost of the projects is Rs. 7199 lacs.

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

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

9) Protection and management of Flood Plain Zones (FPZ).

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.

10) Rain water harvesting,

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

a. Roof Top Rain Water Harvesting Scheme

On 31.10.2001, a notification regarding making roof rain water harvesting-Conservation & Artificial recharge of ground water compulsory in Govt. buildings/HSVP Buildings, including all the private houses/buildings to be constructed in Urban Estates, in future having roof top surface area 100 Sqm. more was issued. Notification has already been circulated vide No.9945-46 dated 29.11.2001 (copy enclosed) and the areas/Urban Estates in Haryana where this notification has been made applicable have also been notified vide letter no.1200 dated 10.12.2001.

Zonal Administrator/Estate Officers of HSVP ensure that occupation certificate is not issued in the absence of the implementation of above cited notification. 47 rain water harvesting systems have been constructed by HSVP.

List of Harvesting Well in various Urban Estates of HSVP w.e.f. 01.01.2002

to 29.02.2020

| Sr. No. | Name of Urban Estate | Nos. of Harvesting Well |
|---------|----------------------|-------------------------|
| 1 | Panchkula | 11443 |

b. Installation of Dual Button Flushing Cistern

Haryana Govt. has issued notification on 13.08.2014, making installation of dual button cisterns (capacity 10/5 Litre and 6/3 Litre) mandatory for all types of plot holders (new buildings) in HSVP areas in addition to all Govt. Buildings and Buildings in licensed areas. Occupation certificate shall not be issued in the absence of dual button flushing cisterns in these buildings.

c. Graded Tariff for Economic Use Of Water

The graded water tariff has been implemented in various Urban Estates in Haryana for economical domestic use of water.

d. Reuse of Tertiary Treated / Recycled Water

To avoid exploitation of ground water, tertiary treated water is being used for irrigation/flushing purpose in some of Urban Estates of HSVP. Efforts are being made for its implementation in other Urban Estates also.

11) Maintaining minimum environmental flow of river

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:

12) Plantation on both sides of the river

➤ **Urban Estate Wise Plantation Done in HSVP Area**

| 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 | Panchkula | 11238 | 6929 | 5000 | 7820 |
| 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 |
| | | 19593 | 13416 | 9500 | 18078 |

➤ **Plantation done in catchment of River Ghaggar by Forest Department.**

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

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

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

13) Setting up biodiversity parks on flood plains by removing encroachment.

| Herbal Parks for Bio-diversity conservation | | |
|--|---|-----------------------|
| 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 |

Annexure-1

Water consumption and waste water generation in the towns along River Ghaggar

| Estimation of Sewage along Ghaggar | | | | | | | | | | | | | | | | |
|---|-----------|--------------|---------------------------------------|-------------------------|-------------------------------------|-------|-----|------|-----|------|-----|----------|-----------|----------------|--|-------------------------------------|
| S.No | District | Name of Town | Total Population (As per Census 2011) | Present Population 2020 | Treatment Capacity (in MLD) | | | | | | | | | | Treatment Capacity required upto 2020 (In MLD) | Gap in treatment upto 2020 (In MLD) |
| | | | | | Existing STPs No. & Capacity in MLD | | | | | | | | | | | |
| 1 | 2 | | | | | 3 | | 4 | | 5 | | 6 | | 7 | | |
| | | | | | No. | PHE D | No. | HSVP | No. | ULBD | No. | Garrison | Total No. | Total Capacity | | |
| 1 | Ambala | Naraingarh | 22832 | 27969 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 2.5 | 0 |
| 2 | | Ambala | 300127 | 367656 | 10 | 37 | 1 | 2 | 0 | 0 | 0 | 0 | 11 | 39 | 39.71 | 0.71 |
| 3 | Fatehabad | Ratia | 37152 | 45511 | 1 | 6.5 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 6.5 | 4.92 | 0 |
| 4 | | Tohana | 63871 | 78242 | 1 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 10 | 8.45 | 0 |
| 5 | | Jhokal Mandi | 7788 | 9540 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 1.03 | 0 |
| 6 | | Fatehabad | 70777 | 86702 | 2 | 15 | 1 | 10 | 0 | 0 | 0 | 0 | 3 | 25 | 9.36 | 0 |
| 7 | Hisar | Hisar | 307024 | 376104 | 3 | 59 | 1 | 15 | 0 | 0 | 0 | 0 | 4 | 74 | 40.62 | 0 |
| 8 | | Narnaund | 17242 | 21121 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 2.28 | 0 |
| 9 | Jind | Narwana | 62090 | 76060 | 3 | 9.25 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 9.25 | 8.21 | 0 |
| 10 | | Uchana | 16815 | 20598 | 2 | 3.5 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3.5 | 2.22 | 0 |
| 11 | | Jind | 167592 | 205300 | 3 | 27 | 1 | 10 | 0 | 0 | 0 | 0 | 4 | 37 | 22.17 | 0 |
| 12 | | Safidon | 34728 | 42542 | 1 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 9 | 4.59 | 0 |
| 13 | Kaithal | Cheeka | 38952 | 47716 | 1 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 10 | 5.15 | 0 |
| 14 | | Kaithal | 144915 | 177521 | 3 | 30 | 1 | 7.5 | 0 | 0 | 0 | 0 | 4 | 37.5 | 19.17 | 0 |

| Estimation of Sewage along Ghaggar | | | | | | | | | | | | | | | | |
|------------------------------------|-------------|---------------|---------------------------------------|-------------------------|-------------------------------------|--------------|----------|--------------|----------|----------|----------|----------|-----------|----------------|--|-------------------------------------|
| S.No | District | Name of Town | Total Population (As per Census 2011) | Present Population 2020 | Treatment Capacity (in MLD) | | | | | | | | | | Treatment Capacity required upto 2020 (In MLD) | Gap in treatment upto 2020 (In MLD) |
| | | | | | Existing STPs No. & Capacity in MLD | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | | | | | No. | PHE D | No. | HSVP | No. | ULBD | No. | Garrison | Total No. | Total Capacity | | |
| 15 | | Kalayath | 18660 | 22859 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 2.47 | 0 |
| 16 | | Pundri | 33484 | 23118 | 1 | 3.5 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3.5 | 2.5 | 0 |
| 17 | Kurukshetra | Shahbad | 42607 | 52194 | 1 | 11.5 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 11.5 | 5.64 | 0 |
| 18 | | Pehowa | 38853 | 47595 | 1 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 8 | 5.14 | 0 |
| 19 | | Thanesar | 155152 | 190061 | 1 | 25 | 1 | 15 | 0 | 0 | 0 | 0 | 2 | 40 | 20.53 | 0 |
| 20 | Panchkula | Kalka | 34134 | 41814 | 2 | 4.75 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 4.75 | 4.52 | 0 |
| 21 | | Pinjore | 35912 | 43992 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 4.75 | 0 |
| 22 | | Panchkula | 211355 | 236718 | 0 | 0 | 3 | 72 | 0 | 0 | 1 | 9 | 4 | 81 | 0 | 0 |
| 23 | Sirsa | Mandi Dabwali | 52873 | 64769 | 1 | 16.5 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 16.5 | 7 | 0 |
| 24 | | Kalanwali | 22095 | 27066 | 1 | 9.5 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 9.5 | 2.92 | 0 |
| 25 | | Sirsa | 182534 | 223604 | 4 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 45 | 24.15 | 0 |
| 26 | | Rania | 25123 | 30776 | 1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 3.32 | 0 |
| 27 | | Ellenabad | 36623 | 44863 | 1 | 7.5 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 7.5 | 4.85 | 0 |
| | | | 2181310 | 2632011 | 49 | 373.5 | 9 | 131.5 | 0 | 0 | 1 | 9 | 59 | 514 | 258.17 | 0.71 |

Annexure-2

Compliance status of Existing STPs in Ghaggar Catchment

| Sr. No. | Name and Region of STPs | Deptt. | Existing STP and Capacity (MLD) | Present discharge reaching to STP | A/R No. and date | Latest Compliance Status | Action Taken Report |
|---------|---|--------|---------------------------------|-----------------------------------|---------------------|----------------------------------|---------------------|
| 1 | 3.00 MLD STP Naya Gaon , Unit.I , Ambala City by PHED in Janurary, 2011 | PHED | 3 | 1.75 | 3656 dt. 24.08.2020 | Complying except Faecal Coliform | |
| 2 | 3.25 MLD STP Naya Gaon , Unit.II Ambala City by PHED in 1.4.2016 | PHED | 3.25 | 1.55 | 3657 dt. 24.08.2020 | Complying except Faecal Coliform | |
| 3 | 5 MLD Baldev Nagar , Unit.I , Ambala City by PHED 1.12.2012 | PHED | 5 | 2.9 | 3654 dt. 24.08.2020 | Complying except Faecal Coliform | |
| 4 | 3.25 Baldev Nagar , Unit.II ,Ambala City by PHED in 1.4.2016 | PHED | 3.25 | 2.5 | 3655 dt. 24.08.2020 | Complying except Faecal Coliform | |
| 5 | 5 MLD Moti Nagar, Unit.I , Ambala City by PHED in June 2010 | PHED | 5 | 1.3 | 3653 dt. 24.08.2020 | Complying except Faecal Coliform | |
| 6 | 5 MLD STP Moti Nagar , Unit.II , Ambala City by PHED Ambala in 1.8.2016 | PHED | 5 | 1.75 | 3652 dt. 24.08.2020 | Complying except Faecal Coliform | |
| 7 | 6 MLD STP Modal Town, Ambala City by PHED in 1.7.2012 | PHED | 6 | 3.25 | 3649 dt. 24.08.2020 | Complying except Faecal Coliform | |
| 8 | 3.25 Nasirpur Ambala City by PHED in 31.9.2016 | PHED | 3.25 | 3.25 | 3650 dt. 24.08.2020 | Complying except Faecal Coliform | |
| 9 | 0.25 MLD Sadopur , Ambala PHED in 31.12.2016 | PHED | 0.25 | 1.01 | 3648 dt. 24.08.2020 | Complying except Faecal Coliform | |
| 10 | 3.00 MLD Devi Nagar , Ambala City by PHED on 31.5.2013 | PHED | 3 | 1.6 | 3651 dt. 24.08.2020 | Complying except Faecal Coliform | |
| 11 | 3 MLD STP Nariangarh , Ambala by PHED in 1.7.2014 | PHED | 3 | 1.7 | 2814 dt. 08.06.2020 | Complying except Faecal Coliform | |
| 12 | 25 MLD STP Thanesar, Kurukshetra by PHED in 31.05.2019 | PHED | 25 | 17 | 3557 dt. 19.08.2020 | Complying except Faecal Coliform | |
| 13 | 8 MLD STP Model Town , Pehowa Kurukshetra by PHED in May dt. 2015 | PHED | 8 | 4 | 3556 dt. 19.08.2020 | Complying except Faecal Coliform | |

| Sr. No. | Name and Region of STPs | Deptt. | Existing STP and Capacity (MLD) | Present discharge reaching to STP | A/R No. and date | Latest Compliance Status | Action Taken Report |
|---------|--|--------|---------------------------------|-----------------------------------|------------------------|----------------------------------|---------------------|
| 14 | 11.5 MLD STP Ladwa Road , Shahbad Kurukshetra by PHED in May dt. 2016 | PHED | 11.5 | 5.64 | 3555 dt. 19.08.2020 | Complying except Faecal Coliform | |
| 15 | 4.5 MLD Kalka Panchkula by PHED in 30.3.2015 | PHED | 4.5 | 3.35 | 2989 dt. 06.07.2020 | Complying except Faecal Coliform | |
| 16 | 0.25 MLD Kalka Panchkula by PHED in 28.5. 2017 | PHED | 0.25 | 0.2 | 2991 dt. 06.07.2020 | Complying except Faecal Coliform | |
| 17 | 5 MLD STP Nalagarh Road, Manakpur, Pinjore Panchkula by PHED 31.1.2015 | PHED | 5 | 2.5 | 2988 dt. 06.07.2020 | Complying except Faecal Coliform | |
| 18 | 15 MLD STP by PHED Jind in Jan, 2009 | PHED | 15 | 12 | 609-610 dt. 27.08.2020 | Complying except Faecal Coliform | |
| 19 | 3.5 MLD Patiala Road , Narwana by PHED in Jan , 2011 | PHED | 3.5 | 2.65 | 579-580 dt. 21.08.2020 | Complying except Faecal Coliform | |
| 20 | 3.75 MLD STP Narwana Jind by PHED in Jan , 2011 | PHED | 3.75 | 2.88 | 581-582 dt. 21.08.2020 | Complying except Faecal Coliform | |
| 21 | 02 MLD STP, PHED , Dablain Road, Narwana, Jind (24.5.2017) | PHED | 2 | 1.5 | 577-578 dt. 21.08.2020 | Complying except Faecal Coliform | |
| 22 | 2 MLD STP Uchana Jind by PHED in 22.2.2012 | PHED | 2 | 1.75 | 575-576 dt. 21.08.2020 | Complying except Faecal Coliform | |
| 23 | 1.5 MLD Uchana by PHED in 31.5.2013 | PHED | 1.5 | 1 | 621-622 31.08.2020 | Complying except Faecal Coliform | |
| 24 | 5 MLD STP Jind by PHED in 1.4.2016 | PHED | 5 | 3.5 | 605-606 dt. 27.08.2020 | Complying except Faecal Coliform | |
| 25 | 7 MLD STP, Jind by PHED in 30.11.2019 | PHED | 7 | 4 | Under Trial run | | |
| 26 | 9 MLD STP Safidon , Jind by PHED in 31.05.2018 | PHED | 9 | 4.2 | 623-624 dt. 31.08.2020 | Complying except Faecal Coliform | |
| 27 | 10 MLD STP Cheeka , Kaithal by PHED in 1.4.2013 | PHED | 10 | 5.15 | 601-602 dt. 25.08.2020 | Complying except Faecal Coliform | |
| 28 | 10 MLD STP , Jind Road Kaithal by PHED in September , 2012 | PHED | 10 | 7.5 | 591-592 dt. 25.08.2020 | Complying except Faecal Coliform | |

| Sr. No. | Name and Region of STPs | Deptt. | Existing STP and Capacity (MLD) | Present discharge reaching to STP | A/R No. and date | Latest Compliance Status | Action Taken Report |
|---------|---|--------|---------------------------------|-----------------------------------|------------------------|----------------------------------|---------------------|
| 29 | 10 MLD STP Manas Road, Kaithal by PHED in June , 2006 (MBBR) | PHED | 10 | 8.25 | 589-590 dt. 25.08.2020 | Complying except Faecal Coliform | |
| 30 | 10 MLD Manas Road, Kaithal bby PHED in Sep , 2012 (SBR) | PHED | 10 | 7.5 | 595-596 dt. 25.08.2020 | Complying except Faecal Coliform | |
| 31 | 5 MLD STP Kalayat , Kaithal by PHED in 1.4.2014 | PHED | 5 | 2.47 | 597-598 dt. 25.08.2020 | Complying except Faecal Coliform | |
| 32 | 3.5 Pundri Kaithal by PHED in 4.7.2014 | PHED | 3.5 | 2.5 | 599-600 dt. 25.08.2020 | Complying except Faecal Coliform | |
| 33 | 15 MLD STP Azad Nagar, Rajgarh Road Hisar by PHED in 31.12.2014 | PHED | 15 | 10 | 651-652 dt. 04.09.2020 | Complying except Faecal Coliform | |
| 34 | 40 MLD STP Rishi Nagar , Hisar by PHED in 02.12.2017 | PHED | 40 | 28.62 | 205 dt. 07.08.2020 | Complying except Faecal Coliform | |
| 35 | 4 MLD STP Narnaund, Hisar by PHED | PHED | 4 | 2 | 208 dt. 07.08.20 | Complying except Faecal Coliform | |
| 36 | 4 MLD STP Kaimri Road, Hisar by PHED in 2018 | PHED | 4 | 2.28 | 187 dt. 04.08.2020 | Complying except Faecal Coliform | |
| 37 | 15 MLD STP, Shamsabad patti , Kalania Road, Sirsa by PHED in 1.7.2012 | PHED | 15 | 9.15 | 627-628 dt. 31.08.2020 | Complying except Faecal Coliform | |
| 38 | 5 MLD STP ,Vill. Nattar 1 , Sirsa by PHED in 1.5.2013 | PHED | 5 | 3 | 631-632 dt. 02.09.2020 | Complying except Faecal Coliform | |
| 39 | 5 MLD STP , Vill. Nattar 2 , Sirsa by PHED in 14.09.17 | PHED | 5 | 3 | 633-634 dt. 02.09.2020 | Complying except Faecal Coliform | |
| 40 | 7.5 MLD STP Ellenabad Sirsa by PHED in 11.5.2015 | PHED | 7.5 | 4.85 | 647-648 dt 03.09.2020 | Complying except Faecal Coliform | |
| 41 | 9.5 MLD STP, Daddu Road, Kalanwali , Sirsa by PHED in 17.02.2018 | PHED | 9.5 | 2.5 | 243 dt. 25.08.2020 | Complying except Faecal Coliform | |
| 42 | 6 MLD STP Rania Sirsa by PHED in 30.6.2017 | PHED | 6 | 3.32 | 635-636 dt. 02.09.2020 | Complying except Faecal Coliform | |
| 43 | 16.5 MLD STP Dabwali, Sirsa by PHED in 04.12.2017 | PHED | 16.5 | 7 | 649-650 dt 03.09.2020 | Complying except Faecal Coliform | |

| Sr. No. | Name and Region of STPs | Deptt. | Existing STP and Capacity (MLD) | Present discharge reaching to STP | A/R No. and date | Latest Compliance Status | Action Taken Report |
|---------|---|--------|---------------------------------|-----------------------------------|--------------------------|----------------------------------|---------------------|
| 44 | 20 MLD STP at Kelnia Sirsa by PHED | PHED | 20 | 9 | 629-630 dt. 31.08.2020 | Complying except Faecal Coliform | |
| 45 | 10 MLD STP Vill. Bhodia Khera, Bhattu Road, Fatehabad by PHED in 1.4.2013 | PHED | 10 | 7.5 | 433-434 dt.24.07.2020 | Complying except Faecal Coliform | |
| 46 | 10 MLD STP Vill.Amani, Tohana, Distt. Fatehabad by PHED in 1.4.2013 | PHED | 10 | 6 | 413-414 dt. 22.07.2020 | Complying except Faecal Coliform | |
| 47 | 6.5 MLD STP Ratia , Fatehabad by PHED in 1.9.2014 | PHED | 6.5 | 3 | 357-358 dt. 14.07.2020 | Complying except Faecal Coliform | |
| 48 | 5 MLD STP Kharati Khera Road, Fatehabad by PHED in 31.10.2018 | PHED | 5 | 3 | 435-436 dt. 24.07.2020 | Complying except Faecal Coliform | |
| 49 | 3 MLD STP Jhakhali Mandi, Fatehabad by PHED in 30.9.2019 | PHED | 3 | 1.03 | 355-356 dt. 14.07.2020 | Complying except Faecal Coliform | |
| | HSVP | | | | | | |
| 1 | 2 MLD STP Sec.7 , Urban Estate , Ambala City Ambala by HUDA in 10.9.2015 | HSVP | 2 | 1.5 | 3384 dt. 29.07.2020 | Complying except Faecal Coliform | |
| 2 | 18 MLD STP Panchkula by HUDA in 31.12.2002 | HSVP | 18 | 55 | 2966 dt. 02.07.2020 | Complying except Faecal Coliform | |
| 3 | 39 MLD STP Panchkula by HUDA in Nov. 2011 | HSVP | 39 | | 2963 dt. 01.07.2020 | Complying except Faecal Coliform | |
| 4 | 15 MLD STP Sector-28, Panchkula by HUDA in 2012 | HSVP | 15 | 8 | 2964 dt. 01.07.2020 | Complying except Faecal Coliform | |
| 5 | 10 MLD by HUDA Jind in 27.12.2014 | HSVP | 10 | | 607-608 dt. 27.08.2020 | Complying except Faecal Coliform | |
| 6 | 7.5 MLD Kaithal by HUDA in 31.8.2016 | HSVP | 7.5 | 4 | 301-302 dt. 03.07.2020 | Complying except Faecal Coliform | |
| 7 | 15 MLD STP Dabara Tosham Road , Hisar by HUDA in 31.7.2014 | HSVP | 15 | 14.5 | 643-644 dt. 03.09.2020 | Complying except Faecal Coliform | |
| 8 | 10 MLD STP Majra, Fatehabad by HUDA in 16.12.17 | HSVP | 10 | 1 | 411-412 dated 22.07.2020 | Complying except Faecal Coliform | |

| Sr. No. | Name and Region of STPs | Deptt. | Existing STP and Capacity (MLD) | Present discharge reaching to STP | A/R No. and date | Latest Compliance Status | Action Taken Report |
|---------|--|--------|---------------------------------|-----------------------------------|---------------------|----------------------------------|---------------------|
| 9 | 15 MLD STP Kurukshetra by HSVP | HSVP | 15 | | | Newly installed | |
| | Garrison Engineer | | | | | | |
| 1 | 9 MLD STP Garrison Engineer , Chandimandir Panchkula in April 2012 | GE | 9 | 6 | 2990 dt. 06.07.2020 | Complying except Faecal Coliform | |
| | Total No. of STPs- 59 | | | | | | |
| | Grand Total Capacity- 514 | | | | | | |

Status of new STPs in the catchment of river Ghaggar

| Sr. No. | Name of the Town/city | Department. | Capacity (in MLD) | Target date | Progress upto August, 2020 |
|-----------------------|-------------------------------|-------------|-------------------|-------------|-------------------------------------|
| In progress | | | | | |
| 1 | 12 Cross Road, Ambala | ULBD | 12 | 30.06.2021 | 17% |
| 2 | Khagesara & Toka | ULBD | 0.5 | 30.09.2020 | 87% |
| 3 | Nangal & Allipur | ULBD | 0.5 | 30.09.2020 | 98% |
| 4 | Khatoli | ULBD | 0.75 | 31.03.2021 | 60% |
| 5 | Kot | ULBD | 0.75 | 31.10.2020 | 98% |
| 6 | Sukhdarshanapur | ULBD | 0.75 | 30.10.2020 | 77% |
| 7 | Billa | ULBD | 0.75 | 31.12.2020 | 50% |
| 8 | Village Dabra | ULBD | 8 | 31.12.2020 | 85% |
| 9 | Ambala | HSVP | 5 | 31.12.2020 | 85% |
| 10 | Khuda Khurd, Ambala | ULBD | 12 | 30.06.2021 | 18% |
| 11 | Bhuna | PHED | 8 | 31.12.2020 | 80% |
| 12 | Babyal | ULBD | 10 | 30.06.2021 | 18% |
| 13 | Shahpur Machhonda | ULBD | 7.5 | 30.06.2021 | 6% |
| 14 | Saketri-STP | ULBD | 1.5 | 30.06.2021 | Likely to be started within 15 days |
| | Total | | 68 | | |
| Work Completed | | | | | |
| 1 | Barara | PHED | 4 | 30.11.2019 | 100% |
| 2 | Jind | PHED | 7 | 30.11.2019 | 100% |
| 3 | Sec-6, Urban Estate, Thanesar | HSVP | 15 | 31.03.2020 | 100% |
| 4 | Kurukshetra | PHED | 25 | 31.05.2019 | 100% |
| 5 | Sirsa (Kelinia) | PHED | 20 | 30.10.2019 | 100% |
| 6 | Fatehabad(Jakhal Mandi) | PHED | 3 | 31.12.2019 | 100% |
| | Total | | 74 | | |

Annexure-4

Status of action plan for under Proposal STPs

| Sr. No | Name of the District | Name of the town/City | Deptt. | Capacity (MLD) | Timelines | Status as on 31.08.2020 |
|--------|----------------------|--------------------------|--------|----------------|------------|---|
| 1 | Ambala | Sector-32, Ambala Cantt. | HSVP | 5 | 31.12.2021 | Almost no discharge in this area due to very less habitation. This situation is unlikely to change for the next 6-7 years. Work is likely to be started in Year 2025. Sewage is not sufficient to reach the outfall. Sewer lines are got cleaned when need arises and sewage is lifted to the existing 2 MLD STP of HSVP in Ambala. |
| 2 | Ambala | Naraingarh | HSVP | 1 | 30.09.2022 | 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. |
| 3 | Panchkula | Pinjore | HSVP | 8 | 30.04.2023 | No discharge yet in this area due to no habitation. This situation is unlikely to change for the next 6-7 years. Work is likely to be started in Year 2025. |
| 4 | Jind | Jind | HSVP | 5 | 30.06.2023 | This STP is not required at least for next 7-8 years, as the existing 10 MLD STP is sufficient to cater the sewage discharge of the HSVP area. |
| 5 | Hisar | Hansi | HSVP | 5 | 30.06.2025 | Almost no discharge in this area due to very low habitation. Situation is unlikely to change during the next 4-5 years. Work is likely to be started in Year 2023. Present discharge, though very little, is being treated in existing STP of PHED. Sewage is not sufficient to reach the outfall. |
| 6 | Hisar | Hisar | HSVP | 10 | 31.03.2024 | Almost no discharge from this area due to very low habitation. Situation is unlikely to change for the next 4-5 years. Work is likely to be started in Year 2023. Sewage is not sufficient to reach the outfall. Sewer lines are got |

| Sr. No . | Name of the District | Name of the town/City | Deptt. | Capacity (MLD) | Timelines | Status as on 31.08.2020 |
|----------|----------------------|-----------------------|--------|----------------|------------|--|
| | | | | | | cleaned when need arises and sewage is lifted to the existing 15 MLD STP of HSVP in Hisar. |
| 7 | Hisar | Hisar | HSVP | 5 | 30.06.2024 | No discharge yet in this area due to no habitation. This situation is unlikely to change for the next 6-7 years. Work is likely to be started in Year 2025. |
| 8 | Sirsa | Sirsa | HSVP | 7.5 | 30.06.2023 | Work of construction of 7.5 MLD capacity STP has been allotted and is in progress. Likely date of completion of work is 31.12.2021. At present, the sewage is being treated through in-situ bio-remediation. |
| | Total | | | 46.5 | | |

Status of laying of sewerage in the Catchment River Ghaggar

| Sr. No. | Name of town | Deptt. | Target date | Length to be laid in meters | Progress upto August, 2020 | % age of the work done |
|-----------------------|---------------|--------|--------------|-----------------------------|----------------------------|------------------------|
| In progress | | | | | | |
| 1 | Pinjore | PHED | 31.12.2020 | 18500 | 15315 | 82.78% |
| 2 | Ambala City | ULBD | 31.03.2021 | 24085 | 23500 | 97.57% |
| | Ambala Sadar | ULBD | 30.06.2021 | 256000 | 162000 | 63.28% |
| 3 | Kaithal | ULBD | 31.12.2020 | 42430 | 21850 | 51.50% |
| | | | | 50166 | 47715 | 95.11% |
| 4 | Jakhal Mandi | PHED | 31.12.2021 | 47091 | 200 | 0.42% |
| 5 | Hisar | ULBD | 31.12.2020 | 55178 | 41717 | 75.60% |
| 6 | Mandi Dabwali | PHED | 31.03.2021 | 15000 | 8000 | 53.33% |
| | | | Total | 508220 | 320297 | |
| Work Completed | | | | | | |
| 7 | Naraingarh | PHED | 31.12.2019 | 4570 | 4570 | Completed |
| 8 | Kalawali | PHED | 07.04.2020 | 2500 | 2500 | Completed |
| 9 | Kalka | PHED | | | | Completed |
| 10 | Panchkula | PHED | | | | Completed |
| 11 | Shahbad | PHED | 30.09.2019 | 6000 | 6000 | Completed |
| 12 | Kurukshetra | PHED | 31.10.2019 | 6884 | 6884 | Completed |
| 13 | Pehowa | PHED | 100% | | | Completed |
| 14 | Cheeka | PHED | 31.05.2019 | 3700 | 3700 | Completed |
| 15 | Pundri | PHED | 31.05.2019 | 1700 | 1700 | Completed |
| 16 | Kalayat | PHED | | | | Completed |
| 17 | Jind | PHED | 30.08.2019 | 9860 | 9860 | Completed |
| 18 | Narwana | PHED | 31.01.2020 | 3000 | 3000 | Completed |
| 19 | Safidon | PHED | 31.07.2019 | 4611 | 4611 | Completed |
| 20 | Uchana | PHED | 30.09.2019 | 2000 | 2000 | Completed |
| 21 | Fatehabad | PHED | 31.05.2019 | 1200 | 1200 | Completed |
| 22 | Tohana | PHED | 31.05.2020 | 2050 | 2050 | Completed |
| 23 | Narnaund | PHED | 31.03.2019 | 600 | 600 | Completed |
| 24 | Ellenabad | PHED | 31.05.2019 | 2375 | 2375 | Completed |
| 25 | Rania | PHED | 31.12.2019 | 2050 | 2050 | Completed |
| 26 | Sirsa | PHED | 30.04.2020 | 10400 | 10400 | Completed |
| 27 | Ratia | PHED | 31.03.2020 | 16850 | 16850 | Completed |
| | | | Total | 80350 | 80350 | |

List of Existing CETPs in Ghaggar Catchment

| Sr.No. | Name of the district | Name of the town/city | Deptt. | Existing CETP and Capacity (MLD) | Compliance Status | Action taken report |
|--------|----------------------|-----------------------|---------|----------------------------------|------------------------------------|---------------------|
| 1 | Panchkula | IE Barwala, Panchkula | HSI IDC | 0.5 | Complying (2965 dt. 02.07.2020) | NA |
| 2 | Ambala | Ambala Cantt. | HSI IDC | 0.5 | Complying(2813 dt. 08.06.2020) | NA |
| 3 | Ambala | Saha | HSI IDC | 5 | Complying (2812 dt. 08.06.2020) | NA |
| 4 | Jind | I. E. Jind | HSI IDC | 0.1 | Complying (164-165 dt. 08.06.2020) | |
| | Total | | | 6.1 | | |

Annexure-7**Status of under proposal of CETPs**

| Sr. No . | Name of the district | Name of the town/city | Deptt. | Proposed capacity (MLD) | Timelines | Progress upto August'2020 |
|-----------------|-----------------------------|------------------------------|---------------|--------------------------------|------------------|---|
| 1 | Jind | IE Narwana | HSIIDC | 1.5 | 31.03.2022 | EC likely to be received by March, 2020. Construction of CETP is likely to be started in April, 2020 and to be completed by August, 2021. |
| 2 | Sirsa | IDDC, Sirsa | HSIIDC | 1.5 | 31.03.2022 | EC likely to be received by March, 2020. Construction of CETP is likely to be started in April, 2020 and to be completed by August, 2021. |
| | | Total | | 3 | | |

Before the Hon'ble National Green Tribunal, New Delhi

In the matter of OA No. 673/ 2018 dated 06.12.2019 and OA No. 593/2017 dated 21.05.2020, monthly progress report by State of Haryana regarding Yamuna Action Plan- August, 2020.

The State of Haryana submits the following progress report for the month of August, 2020-

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

The Officers of Haryana State Pollution Control Board, Urban Local Bodies Department, Haryana Shahari Vikas Pradhikaran, Public Health Engineering Department, and Panchayat Department have been deputed to visit the sites of phyto remediation in Punjab State so that similar projects can be established/ commissioned in Haryana.

2. Status of Sewage Treatment Plants, Interception and Diversion Sewerage Networks. Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline.

i. Details for sewage management (in million litres per day)

| River | Generated | Treatment capacity | Gap |
|--------------|------------------|---------------------------|------------|
| Yamuna | 973.4 | 1052.2 | 0 |

However, there is gap in treatment capacity of 174.37 MLD in some towns in catchment of river Yamuna i.e. Faridabad (165 MLD), Beri (0.11 MLD), Indri (0.81) and Palwal (8.45 MLD). The townwise details of sewage management is enclosed as **Annexure 1**.

ii. Details of STPs

| Existing STPs | | Under Construction STPs | | Proposed STPs | |
|----------------------|-----------------|--------------------------------|-----------------|----------------------|-----------------|
| No. | Capacity | No. | Capacity | No. | Capacity |
| 58 | 1052.2 | 19 | 145 | 9 | 369 |

The list of existing STPs is attached as **Annexure-2**. The latest status of under construction and proposed STPs are enclosed at **Annexure 3 & 4**.

iii. Status of laying of sewer network in approved/notified areas

1549 Km of sewer line was proposed to be laid in total 34 towns in the catchment of river Yamuna, out of which 1077 Km length of sewer line have already been laid. Sewerage fully laid in 24 towns. Sewer lines are being laid in balance 10 towns. The details are enclosed at **Annexure-5**.

iv. Interception of sewage (excluding Gurugram) in the un-approved areas

95.39 MLD of effluent was proposed to be tapped/ diverted at 153 locations. Out of which 33.47 MLD effluents has been diverted at 63 locations.

v. Diversion of sewage at Leg-I, Leg-II, Leg-III drains in Gurugram

| Sr. No | Name of drains | Discharge as in 2018 (MLD) | Present Discharge | Total progress achieved till date(In MLD) | Pending issues | Road map for future course of action with timelines |
|--------|----------------|----------------------------|-------------------|---|--|---|
| 1 | Leg-I | 22.80 | 8.60 | 14.20 | Balance 6 points of 8.6 MLD is yet to be diverted out of 22.8 MLD. Which is delayed due to ban on construction activity by Hon'ble Supreme Court in NCR region due air pollution and lockdown due to Covid-19 | Likely to be completed by 31-12-2021 however, subject to availability of labour due to various phases of lockdown in future in view of epidemic of COVID-19 |
| 2 | Leg-II | 35.64 | 20.10 | 15.54 | Balance 5 points of 7.8 MLD is yet to be diverted out of 35.64 MLD. Which is delayed due to ban on construction activity by Hon'ble Supreme Court in NCR region due air pollution and lockdown due to Covid-19 | Likely to be completed by 31-12-2021 however, subject to availability of labour due to various phases of lockdown in future in view of epidemic of COVID-19 |
| 3 | Leg-III | 80.25 | 34.90 | 45.35 | Balance 38 points of 34.90 MLD is yet to be diverted out of 80.25 MLD. Which is delayed due to ban on | Likely to be completed by 31-09-2021 however, subject to |

| Sr. No. | Name of drains | Discharge as in 2018 (MLD) | Present Discharge | Total progresses achieved till date(In MLD) | Pending issues | Road map for future course of action with timelines |
|--------------|----------------|----------------------------|-------------------|---|---|--|
| | | | | | construction activity by Hon'ble Supreme Court in NCR region due air pollution and lockdown due to Covid-19 | availability of labour due to various phases of lockdown in future in view of epidemic of COVID-19 |
| Total | | 138.69 | 63.6 | 75.09 | Balance 49 points Of 51.3 MLD is yet to be diverted | |

3. Status of CETPs, Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status.

Details of Common Effluent treatment plants

| Existing CETPs | | Under Construction CETPs | | Proposed CETPs | |
|----------------|----------|--------------------------|----------|----------------|----------|
| No. | Capacity | No. | Capacity | No. | Capacity |
| 14 | 161.5 | 0 | 0 | 8 | 126.25 |

- No. of industries in catchment of River Yamuna **-2597**
- Quantum of Industrial effluent generation **-129.7 MLD**
- Existing treatment capacity of CETPs **-161.5 MLD**
- Treatment capacity under proposal **- 126.25 MLD**
- Gap in treatment **-0**

The list of existing and proposed CETPs is enclosed at Annexure-6 and 7.

4. Status of Solid Waste Management & Details of Processing Facilities Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline.

There are 87 Urban Local Bodies in the State of Haryana and generates 5568 UPD Municipal Solid Waste Out of which 21084 TPD is being processed/treated and remaining quantity i.e. 3460. 12 TPD is being sent to landfills.

Compliance Status w.r.t various activities to be mentioned in Rule 22 Solid Waste Management Rules, 2016 is as under:-

- i. Identification of suitable sites for setting up solid waste processing facilities.

Out of 14 targeted sites 13 sites have been procured except Hisar. The land for Hisar Cluster was procured once, but due to proposed international airport within the vicinity of 2 km, the same site cannot be used, so the alternate site is under procurement for Hisar Cluster.

- ii. Identification of suitable sites for setting up common regional sanitary landfill facilities for suitable clusters of local authorities under 0.5 million population and for setting up common regional sanitary landfill facilities or standalone sanitary landfill facilities by all local authorities having a population of 0.5 million or more.

Total common regional sanitary landfill sites required for the state is 14. Out of 14 cluster sites for setting up of Common Sanitary Landfill facilities (including cities with population more than .5 million), total 13 sites based on Integrated Solid Waste processing projects have already been identified.

Site for Hisar cluster site is under procurement process.

- iii. Procurement of suitable sites for setting up solid waste processing facility and sanitary landfill facilities.

14 suitable sites for setting up of Solid Waste processing facilities and Sanitary Landfill facilities has been identified out of which 13 sites for the development of Integrated Solid Waste processing facilities and Sanitary Landfill facilities have already been procured. The procurement of site (processing facilities and Sanitary Landfill) for Hisar cluster is under progress and will be procured at the earliest.

- iv. Enforcing waste generators to practice segregation of biodegradable, recyclable, combustible, sanitary waste domestic hazardous and inert solid wastes at source.

Source segregation has been initiated in 1112 wards (72%) out of total 1540 wards in the state of Haryana.

- v. Ensure door to door collection of segregated waste and its transportation in covered vehicles to processing or disposal facilities.

The details of the door to door collection of the waste in the Municipalities of the State is tabulated as under: -

| SWM Activities in State | Quantity |
|--|-----------------|
| Total No. of Wards | 1540 |
| Quantity of Solid Waste | 5568 TPD |
| No. of wards with 100% Door to Door Collection | 1470 |
| No. of wards where segregation is initiated | 1112 |

| SWM Activities in State | Quantity |
|--|-----------------|
| No. of vehicles | 6007 |
| No. of vehicle with Compartment | 3720 |
| No. of vehicles with GPS | 1547 |
| No. of GVPs Identified | 835 |
| No. of BWG identified | 1426 |
| No. of BWG processing on site | 516 |
| No. of Solid Waste Challan collected | 5297 |
| No. of Plastic Waste Challan collected | 9587 |

- vi. Ensure separate storage, collection and transportation of construction and demolition wastes.

All the ULBs have initiated separate collection and transportation of Construction and Demolition waste. Separate storage sites for Construction and Demolition waste have been identified in 79 ULBs.

- vii. Setting up solid waste processing facilities by all Local Bodies having 100000 or more population.

The approach adopted by the state is broadly categorized under two heads;

- a. Decentralized Approach (Town/City Wise)
- b. Integrated Centralized Waste Processing Approach (Cluster Wise)

Decentralized Approach is being adopted with an objective to create an atmosphere which impacts the ideology and mind set of people as to how important is their role in ensuring effective and efficient waste management with minimal resources and which is self-driven.

As part of this approach presently around 1559 Compost pits have been constructed across all the ULBs. The no. was merely 789 pits in March 2019. Also 392 Material Recovery Facilities have been set up and the target is to reach 600 MRFs, within a span of next 3 months with each ULB having at-least 1(One) MRF. There were only 56 MRF in March 2019. Apart from setting up Compost pits, Vermi-Composting facility, Bio-methanation plant, windrow composting at existing dumpsite is being currently practiced. Also, in Karnal city alone approx. 2000 Household composting pits have been recorded.

All the ULBs have also ensured that all the Bulk Waste Generators are identified and have started processing their wet waste, this resulted in overall reduction in volume of wet waste being sent for disposal.

The nos. pertaining to Compost pits, Household composting, Wet Waste Processing through Vermi-Composting, Windrow composting and bio-methanation and dry waste

recovery, reuse and recycling through MRFs are continuously increasing and all the efforts are being made to improve the Solid Waste Management Scenario in time bound manners.

The Integrated Centralized Waste Processing Approach (Cluster Wise) is being adopted as a long-term approach within 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 Cluster have been formed covering all the ULBs. Two (2) Clusters are Waste to Energy having average solid waste quantum more than 500 TPD and remaining Eleven (11) are Open technology cluster. 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 Dec 2020. The Environmental Clearance of Gurugram-Faridabad (1500 TPD) Waste to Energy Projects has been granted and application has been submitted for obtaining Consent to Establish (CTE) for same. The construction of the plant is likely to be started soon. Once commissioned these two projects alone will cater to approx. 40% processing of entire waste being generated in the state i.e. approx. 5000 TPD.

Also, there are two existing operational centralized waste to compost processing facilities in the State i.e. Rohtak (150 TPD) & Karnal (150 TPD). Under this approach these plants will be upgraded and expanded to cater the future waste generation requirements.

The sites have been identified and procured for all the clusters except 2 Clusters and the tendering process is under progress. The Overall targeted schedule for successfully awarding and commissioning rest 11 Clusters is December 2022.

- viii. Setting up solid waste processing facilities by Local Bodies and census towns below 100000 population.

The sites have been identified and procured for all the clusters except Hisar Clusters. The Overall targeted schedule for successfully awarding and commissioning rest 11 Clusters is December 2022.

- ix. Setting up common or standalone sanitary landfills by or for all Local Bodies having 0.5 million or more population for the disposal of only such residual wastes from the processing facilities as well as untreatable inert wastes as permitted under the Rules.

The sites have been identified and procured for all the clusters except Hisar Clusters. The Overall targeted schedule for successfully awarding and commissioning rest 11 Clusters is December 2022.

- x. Setting up common or regional sanitary landfills by all Local Bodies and census towns under 0.5 million population for the disposal of permitted waste under the rules.

The sites have been identified and procured for all the clusters except Hisar Cluster. The Overall targeted schedule for successfully awarding and commissioning rest 11 Clusters is December 2022.

- xi. Bioremediation or capping of old and abandoned dump sites.

Bioremediation of the legacy waste has been started in Municipal Corporation, Rohtak, Gurugram, Panchkula, Hisar & Municipal Council, Bahadurgarh.

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

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

| Pollution Load in the River Yamuna (before and after). | | | | | |
|--|------------------------------------|----------------------------|----------------------|-------------------|---------------|
| Sr. No. | Name of drain | latitude/ Longitude | Flow (in Cs.) | BOD (mg/l) | F.Coli |
| 1 | Yamuna before Dhanura Escape | 29.726992/ 77.13079 | 352 | 3.8 | 22000 |
| | Yamuna after Dhanura Escape | | 400 | 4.2 | 26000 |
| 2 | Yamuna before Drain No.2 | 29.279022/ 77.123801 | 720 | BDL | 9000 |
| | Yamuna after Drain No.2 | | 735 | 7.12 | 23000 |
| 3 | Drain No. 6 | Falls in Delhi Territory | | 28 | 460000 |
| 4 | Yamuna before Diversion Drain No.8 | 28.86158/ 77.206427 | 95 | 1.9 | 22000 |
| | Yamuna after Diversion Drain No.8 | | 280 | 1.6 | 27000 |
| 5 | Yamuna before Budhiya Nalah | 28.379079/ 77.486982 | 9850 | 20 | 19000 |
| | Yamuna after Budhiya Nalah | | 9878 | 28 | 21000 |
| 6 | Yamuna before Guanchi | 27.912886/ 77.519735 | 9820 | 12 | 15000 |
| | Yamuna after Guanchi | | 9847.65 | 9 | 17000 |

(b) 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 55 locations and non complying at 19 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 |
| 3 | Sonepat | 13 | 12 | 1 |
| 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 |
| | Total | 74 | 55 | 19 |

6. Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams, etc.

(i) Bio Medical Waste Management:-

As per the Annual Report of 2018 Haryana state has generated 14217.88 KG/Day and same is processed/treated by the authorized 11 nos. of Common Bio Medical Waste Treatment Facilities. Total Incineration Capacity of these CBWTFs is 1650 Kg/hr.

- **Existing Treatment Facilities:** Haryana has 11 authorized Common Bio Medical Waste Treatment Facilities (CBWTF) in the State for Treatment and disposal of waste generated during Treatment/ Diagnosis/ Quarantine of COVID-19 patients. The total incineration capacity of these CBWTFs is around 39,600 kg / day and the autoclave capacity is around 38,440 kg / day. The list of these authorized CBWTFs and their jurisdiction is as under:-

| Sr. No. | Name of CBWTF | Area of Operation (Districts) |
|---------|--|---|
| 1. | M/s Biotic Waste Ltd., Sec-37, Gurugram | Gurugram & Rewari |
| 2. | M/s Golden Eagle Waste Management Co., Vill. & PO Jasana, Opp, aravali collage Faridabad | Faridabad, Palwal & Mewat |
| 3. | M/s SD Bio Medical Waste Management Co., Vill. Baland Rohtak | Rohtak & Jhajjar |
| 4. | M/s Maruti Bio Medical Waste Plant, Vill. & PO Hetampura, Distt. Bhiwani | Bhiwani, Charkhi Dadri & MahindraGarh (Narnaul) |
| 5. | M/s Divya Waste Management Co., Vill. Kandela, Distt. Jind | Jind & Sonapat, |
| 6. | M/s Synergy Waste Management Pvt. Ltd., P.No. 168, Sec-27-28 Hisar | Hisar |

| Sr. No. | Name of CBWTF | Area of Operation (Districts) |
|----------------|--|---------------------------------------|
| 7. | M/s Surya Waste Management, Sahuwala road, Vill. Chandiwala, tehsil & district Sirsa | Sirsa(Govt hospitals) & Kaithal |
| 8. | M/s Invision Enviro Services, VPO Phulka, Sirsa | Fatehabad & Sirsa(Private hospitals) |
| 9. | M/s Rudraksh Enviro care Pvt. Ltd., Vill. Bhadog, Distt. Ambala | Ambala , Kurukshetra |
| 10. | M/s Esskay Hygienic Services, Vill. Bagwala, Distt. Panchkula | Panchkula, Yamuna Nagar |
| 11. | M/s HAAT Supreme Waste Tech Ltd., Vill. Bazida Kalan, Distt. Karnal | Karnal & Panipat |

- **Status of Covid-19 Bio Medical Waste generated during COVID 19 Period** : During the last Four months (and during the current month, till 19th August 2020), the following quantum of waste has been generated in the State.

| Month | Quantum generated (Tonnes) | Average (Kg / Day) |
|-------------------------------|-----------------------------------|---------------------------|
| April 2020 | 65.94 | 2,198 |
| May 2020 | 109.91 | 3,545 |
| June 2020 | 247 | 8,233 |
| July 2020 | 290.32 | 9,365 |
| August 2020 (upto 19/08/2020) | 146.3 | 7,700 |

(a) Plastic Waste Rules Management

- As per annual report for 2019 total 190163.9 TPD plastic waste is being generated and out of which 54% is being processed/Treated.
- Under the notification no 2/8/2013/R issued in the official Gazette of Haryana Govt. dated 20th August 2013, complete plastic ban has been enforced in the whole State.
- Regular inspections & Challans are being done by the MCs. 9587 nos. of Challans amounting to Rs. 1,27,70,305 have been imposed for the violations from April 2019 to till date.
- Door to door waste collection & segregation is being done through private bodies in almost all MCs.
- Out of 87 MCs, 41 MCs have setup the Material Recovery Facility Centre for sorting and storage & Processing of Plastic Waste. There are 3279 compartmentalized vehicles for collection of segregated waste in MCs. Further, all the MCs have been directed to setup the MRF centres as per requirement and to manage their Plastic waste as per SWM Rules-2016 & Plastic Waste Management Rules-2016.
- State is exploring the possibility to use RDF as fuel meanwhile plastic waste is being used on road construction and co- processing in cement plant.
- At present 46 nos. Of Plastic Waste recyclers are registered under PWM Rules, 2016 to recycle and reutilize the plastic waste in Haryana.

- ULB Department, Haryana has prepared an action plan for Plastic Waste Management which has already been submitted to CPCB.

7. Ground water regulation

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

8. Adopting good irrigation practices,

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

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

Project was prepared under the guidelines of the scheme for "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 MLD capacity in the catchment of river Yamuna are selected for the project.

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

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

9. Protection and management of Flood Plain Zones (FPZ).

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.

10. Rain water harvesting,

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

(a). Roof Top Rain Water Harvesting Scheme

On 31.10.2001, a notification regarding making roof rain water harvesting- Conversation & Artificial recharge of ground water compulsory in Govt. buildings/HSVP Buildings, including all the private houses/buildings to be constructed in Urban Estates, in future having roof top surface area 100 Sqm. more was issued. Notification has already been circulated vide No.9945-46 dated 29.11.2001 (copy enclosed) and the areas/Urban Estates in Haryana where this notification has been made applicable have also been notified vide letter no.1200 dated 10.12.2001. (copy enclosed).

| Sr. No. | Name of Urban Estate | Nos. of Harvesting Well |
|----------------|-----------------------------|--------------------------------|
| 1 | Kurukshetra | 4879 |
| 2 | Shahbad | 638 |
| 3 | Karnal | 4395 |
| 4 | Panipat | 3032 |
| 5 | Sonipat | 3217 |
| 6 | Gohana | 338 |
| 7 | Faridabad | 10162 |
| 8 | Yamunanagar / Jagadhari | 139 |
| 9 | Gurugram | 21834 |
| | Total | 48634 |

425 rain water harvesting systems have been constructed by HSVP.

(b). Installation of dual button flushing cistern

Haryana Govt. has issued notification on 13.08.2014, making installation of dual button cisterns (capacity 10/5 Litre and 6/3 Litre) mandatory for all types of plot holders (new buildings) in HSVP areas in addition to all Govt. Buildings and Buildings in licensed areas. Occupation certificate shall not be issued in the absence of dual button flushing cisterns in these buildings.

(c). Graded tariff for economic use of water

The graded water tariff has been implemented in various Urban Estates in Haryana for economical domestic use of water.

(d) Reuse of tertiary treated / recycled water

To avoid exploitation of ground water, tertiary treated water is being used for irrigation/flushing purpose in some of Urban Estates of HSVP. Efforts are being made for its implementation in other Urban Estates also.

11. Maintaining minimum environmental flow of river

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.

12. Plantation on both sides of the river

| Urban Estate Wise Plantation Done in HSVP Area | | | | | |
|---|----------------------|--|--|--|--|
| 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 |
| | | 32077 | 39247 | 20400 | 26878 |

Plantation done in catchment of river Yamuna by Forest Department. Detail of plantation in catchment areas of Yamuna river

| 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 |
| Total | 3556 | 3189000 | 4220 | 3555000 |

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

prepared. The details are as under:-

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

13. Setting-up biodiversity parks on flood plains by removing encroachment.

| Herbal Parks for Bio-diversity conservation | | |
|--|---|---------------------|
| District | Names | Area in Acre |
| Yamuna Nagar | i) Rudraksh Vatika at village Chuaharpur | 184 |
| | ii) Adi Badri Herbal Park | 10 |
| Karnal | i) Ashok Vatika at Gharaunda | 5 |
| | ii) Indri Herbal Park | 10 |
| Panipat | i) Bilva Vatika at Pati Kalyana Village | 14 |
| Sonipat | ii) Amaltas Vatika Pati Kalyana Village | 8 |
| | ii) Khanpur Kalan Herbal Park | 12 |
| Faridabad | i) Ratanjot Vatika at Gurugram Canal at Faridabad | 10 |
| Palwal | | 0 |
| Total | | 253 |

Annexure-1

Management of sewage generation from towns in the catchment of river Yamuna.

| Sr. No | District | | Name of Town | Present Population as on 01.01.2020 | Water Consumption in 2020 MLD | Name of Departments | No. & Treatment Capacity (in MLD) | | | | | | Total Capacity | Sewage generated/Treatment Capacity required upto 2020 (MLD) | Gap in treatment upto 2020 (MLD) | Actual discharge reaching to STPs | Quantity of sewage to be diverted from unauthorized area |
|--------|--------------|---|--------------|-------------------------------------|-------------------------------|---------------------|-----------------------------------|------|--------------------|------|-------------|------|----------------|--|----------------------------------|-----------------------------------|--|
| | | | | | | | Existing | | Under construction | | Proposed | | | | | | |
| | | | | | | | No. | Cap. | No. | Cap. | No. | Cap. | | | | | |
| 1 | Yamunana gar | 1 | Jagadhri | 152995 | 23.71 | PHED | 1 | 24 | | | | | 24 | 18.97 | -5.03 | 16.2 | |
| 2 | | 2 | Yamunanagar | 265912 | 41.22 | PHED | 3 | 55 | 1 | 10 | Replacement | | 65 | 32.98 | -22.02 | 38 | 38.56 |
| 3 | | 3 | Radaur | 16770 | 2.26 | PHED | 1 | 3.5 | | | | | 3.5 | 1.81 | -1.69 | 2.5 | |
| 4 | | 4 | Chhachhrauli | 12903 | 1.74 | PHED | 1 | 3 | | | | | 3 | 1.39 | -1.61 | 1.6 | |
| 5 | | 5 | Ladwa | 35387 | 4.78 | PHED | 1 | 7 | | | | | 7 | 3.82 | -3.18 | 5 | |
| 6 | Karnal | 1 | Nilokheri | 21974 | 2.97 | PHED | 1 | 6 | | | | | 6 | 2.37 | -3.63 | 4.5 | 0 |
| 7 | | 2 | Taraori | 31781 | 4.29 | PHED | 1 | 5.5 | | | | | 5.5 | 3.43 | -2.07 | 3.5 | 0 |

| Sr. No. | District | | Name of Town | Present Population as on 01.01.2020 | Water Consumption in 2020 MLD | Name of Departments | No. & Treatment Capacity (in MLD) | | | | | | Total Capacity | Sewage generated/Treatment Capacity required upto 2020 (MLD) | Gap in treatment upto 2020 (MLD) | Actual discharge reaching to STPs | Quantity of sewage to be diverted from unauthorized area |
|---------|----------|---|--------------|-------------------------------------|-------------------------------|---------------------|-----------------------------------|-------|--------------------|------|--|-------|----------------|--|----------------------------------|-----------------------------------|--|
| | | | | | | | Existing | | Under construction | | Proposed | | | | | | |
| | | | | | | | No. | Cap. | No. | Cap. | No. | Cap. | | | | | |
| 8 | | 3 | Indri | 20984 | 2.89 | PHED | 1 | 1.5 | 1 | 4 | Replacement of total STP with increased capacity new STP (4 MLD) | 4 | 2.31 | 0.81 | 2 | | |
| 9 | | 4 | Karnal | 338397 | 46 | MC Karnal | 5 | 116 | 2 | 28 | | 144 | 36.5 | -79.5 | 52 | 4 | |
| 10 | | 5 | Nissing | 21362 | 2.88 | PHED | 1 | 4 | | | | 4 | 2.31 | -1.69 | 2 | 2.89 | |
| 11 | | 6 | Gharaunda | 43970 | 6 | PHED | 1 | 7 | | | | 7 | 4.7 | -2.3 | 5 | 4.8 | |
| 12 | Panipat | 1 | Panipat | 674300 | 90.62 | PHED HSAVP | 6 | 120.8 | | | | 120.8 | 67.5 | -53.3 | 90 | 19.82 | |
| 13 | | 2 | Samalkha | 48645 | 6.57 | PHED | 1 | 5 | | | | 5 | 4 | -1 | 3.2 | | |

| Sr. No. | District | | Name of Town | Present Population as on 01.01.2020 | Water Consumption in 2020 MLD | Name of Departments | No. & Treatment Capacity (in MLD) | | | | | | Total Capacity | Sewage generated/Treatment Capacity required upto 2020 (MLD) | Gap in treatment upto 2020 (MLD) | Actual discharge reaching to STPs | Quantity of sewage to be diverted from unauthorized area |
|-----------|----------|---|--------------|-------------------------------------|-------------------------------|---------------------|-----------------------------------|------|--------------------|------|----------|------|----------------|--|----------------------------------|-----------------------------------|--|
| | | | | | | | Existing | | Under construction | | Proposed | | | | | | |
| | | | | | | | No. | Cap. | No. | Cap. | No. | Cap. | | | | | |
| 14 | Sonipat | 1 | Gohana | 80492 | 10.87 | PHED | 2 | 11.3 | | | | | 11.3 | 8.69 | -2.61 | 8.5 | 10.87 |
| 15 | | 2 | Ganaur | 43614 | 5.89 | PHED | 1 | 7 | | | | | 7 | 4.71 | -2.29 | 6.29 | |
| 16 | | 3 | Sonepat | 324053 | 44 | ULBD/H SVP | 3 | 62.5 | 2 | 18 | 0 | 0 | 80.5 | 35 | -27.5 | 8.5 | - |
| 17 | | 4 | Kharkhoda | 30687 | 4.14 | PHED | 1 | 4.5 | | | | | 4.5 | 3.31 | -1.19 | 2.5 | 0 |
| 18 | Rohtak | 1 | Maham | 25093 | 3.39 | PHED | 1 | 5 | | | | | 5 | 2.71 | -2.29 | 3.6 | - |
| 19 | | 2 | Rohtak | 458508 | 61.9 | PHED/H SVP/ULBD | 5 | 93.5 | 3 | 37 | 1 | 10 | 140.5 | 60.8 | -32.7 | 57.5 | - |
| 20 | | 3 | Kalanaur | 28566 | 3.86 | PHED | 1 | 3.5 | | | | | 3.5 | 3.09 | -0.41 | 2 | - |
| 21 | | 4 | Sampla | 25190 | 3.4 | PHED | 1 | 4 | | | | | 4 | 2.72 | -1.28 | 3 | 0(Already tapped to sewer line) |
| 22 | Jhajjar | 1 | Beri | 19178 | 2.64 | PHED | 1 | 2 | | | | | 2 | 2.11 | 0.11 | 0.5 | --- |
| 23 | | 2 | Bahadurgarh | 209190 | 28.24 | PHED HSAVP | 3 | 64 | | | | | 64 | 22.59 | -41.41 | 26.6 | 5.48 |

| Sr. No. | District | | Name of Town | Present Population as on 01.01.2020 | Water Consumption in 2020 MLD | Name of Departments | No. & Treatment Capacity (in MLD) | | | | | | Total Capacity | Sewage generated/Treatment Capacity required upto 2020 (MLD) | Gap in treatment upto 2020 (MLD) | Actual discharge reaching to STPs | Quantity of sewage to be diverted from unauthorized area |
|---------|-----------|------------------|------------------|-------------------------------------|-------------------------------|---------------------|-----------------------------------|------|--------------------|------|-------------|------|----------------|--|----------------------------------|-----------------------------------|--|
| | | | | | | | Existing | | Under construction | | Proposed | | | | | | |
| | | | | | | | No. | Cap. | No. | Cap. | No. | Cap. | | | | | |
| 24 | | 3 | Jhajjar | 58371 | 8.01 | PHED | 2 | 10.5 | | | | | 10.5 | 6.41 | -4.09 | 3.75 | 0.08 |
| 25 | Gurugram | 1 | Taoru | 27684 | 3.74 | PHED | 1 | 4.5 | 0 | 0 | 0 | 0 | 4.5 | 2.99 | -1.51 | | |
| 26 | Gurugram | 3 | Gurugram | 1800000 | 538 | GMDA | 5 | 388 | 0 | 0 | 5 | 149 | 535.5 | 390 | 0 | 373 | 51.3 |
| | | MCG | | | | 0 | 0 | 6 | 7 | 0 | 0 | 7 | | | 0 | | |
| | | Colonizers (DLF) | | | | 28 | 40 | | | | | 40 | | | | | -40 |
| 27 | Mewat | 1 | Nuh | 19919 | 2.69 | PHED | 1 | 3.6 | | | | | 3.6 | 2.15 | -1.45 | 1.6 | |
| 28 | | 2 | Ferozepur jhirka | 30319 | 4.09 | PHED | 1 | 5 | | | | | 5 | 3.27 | -1.73 | 4 | |
| 29 | | 3 | Punahana | 30299 | 4.09 | PHED | 1 | 4.5 | | | | | 4.5 | 3.27 | -1.23 | 2.75 | |
| 30 | Faridabad | 1 | Faridabad | 1827770 | 247 | MCF/H SVP | 1 | 45 | 2 | 17.5 | 3 | 210 | 272.5 | 210 | 165 | 158 | 3 |
| 31 | Palwal | 1 | Palwal | 161609 | 21.82 | PHED | 1 | 9 | 3 | 27.5 | Replacement | | 36.5 | 17.45 | 8.45 | 8.5 | |
| 32 | | 2 | Hathin | 17666 | 2.38 | PHED | 1 | 4.5 | | | | | 4.5 | 1.91 | -2.59 | 2.9 | |
| 33 | | 3 | Hassan Pur | 14172 | 1.91 | PHED | 1 | 3 | | | | | 3 | 1.53 | -1.47 | 1.2 | |
| 34 | | 4 | Hodal | 61425 | 8.29 | PHED | 1 | 9 | | | | | 9 | 6.63 | -2.37 | 4.6 | |

| Sr. No. | District | | Name of Town | Present Population as on 01.01.2020 | Water Consumption in 2020 MLD | Name of Departments | No. & Treatment Capacity (in MLD) | | | | | | Total Capacity | Sewage generated/Treatment Capacity required upto 2020 (MLD) | Gap in treatment upto 2020 (MLD) | Actual discharge reaching to STPs | Quantity of sewage to be diverted from unauthorized area |
|---------|----------|--|--------------|-------------------------------------|-------------------------------|---------------------|-----------------------------------|----------------------------------|--------------------|------|----------|------|--------------------------|--|----------------------------------|-----------------------------------|--|
| | | | | | | | Existing | | Under construction | | Proposed | | | | | | |
| | | | | | | | No. | Cap. | No. | Cap. | No. | Cap. | | | | | |
| | Total | | | 6979185 | 1246.28 | | 58+ 28= 86 | 105 2.2+ 40= 109 2.2 | 20 | 149 | 9 | 369 | 1617.2+ 40= 1657.2 | 973.43 | -170.8 | 904.79 | 98.24 |

Annexure-2

Status of Existing STPs

| Sr. No. | Name of the district | Name of the town/ city | Deptt. | Existing STP and Capacity (MLD) | Present discharge reaching to STP | A/R No. and date | Latest Compliance Status | Action Taken Report |
|---------|----------------------|--------------------------|--------|---------------------------------|-----------------------------------|---------------------|----------------------------------|---------------------|
| 1 | Yamuna Nagar | Yamuna Nagar | PHED | 25 | 10 | 2937 dt. 29.06.2020 | Complying except Faecal Coliform | |
| 2 | Yamuna Nagar | Radur Road, Yamuna Nagar | PHED | 20 | 12.97 | 2936-29.06.2020 | Complying except Faecal Coliform | |
| 3 | Yamuna Nagar | Parwaloo, Jagadhri | PHED | 24 | 15 | 2935-29.06.2020 | Complying except Faecal Coliform | |
| 4 | Yamuna Nagar | Chhachhrauli | PHED | 3 | 1.39 | 1829 dt. 13.12.2019 | Complying except Faecal Coliform | |
| 5 | Yamuna Nagar | Radaur | PHED | 3.5 | 1.81 | 1830 dt. 13.12.2019 | Complying except Faecal Coliform | |
| 6 | Yamuna Nagar | Baddimajra, Yamuna Nagar | PHED | 10 | 0 | 3020 dt. 08.07.2020 | Complying except Faecal Coliform | |
| 7 | Karnal | Gharaunda | PHED | 7 | 4.7 | 1626-13.11.2019 | Complying except Faecal Coliform | |
| 8 | Karnal | Indri | PHED | 1.5 | 2.31 | 26.06.2020 | Complying except Faecal Coliform | |
| 9 | Karnal | Nilokheri | PHED | 6 | 2.37 | 2248 dt. 26.02.2020 | Complying except Faecal Coliform | |
| 10 | Karnal | Nissing | PHED | 4 | 2.31 | 1629 dt. 13.11.2019 | Complying except Faecal Coliform | |

| Sr. No . | Name of the district | Name of the town/ city | Deptt. | Existin g STP and Capacit y (MLD) | Present dischar ge reachin g to STP | A/R No. and date | Latest Complianc e Status | Action Taken Report |
|----------|----------------------|------------------------|--------|-----------------------------------|-------------------------------------|---------------------|-------------------------------------|--|
| 11 | Karnal | Tarori | PHED | 5.5 | 3.43 | 2247 dt. 26.02.2020 | Complying except Faecal Coliform | |
| 12 | Panipat | Sewah, Panipat | PHED | 35 | 67.5 | 2776 dt. 29.05.2020 | Complying except Faecal Coliform | |
| 13 | Panipat | Jattal Road, Panipat | PHED | 10 | | 2774 dt. 29.05.2020 | Complying except Faecal Coliform | |
| 14 | Panipat | Sewah, Panipat | PHED | 25 | | 2777 dt. 29.05.2020 | Complying except Faecal Coliform | |
| 15 | Panipat | Jattal Road, Panipat | PHED | 20 | | 2775 dt. 29.05.2020 | Complying except Faecal Coliform | |
| 16 | Panipat | Samalkha | PHED | 5 | | 4 | 2780 dt. 29.05.2020 | Complying except Faecal Coliform |
| 17 | Sonepat | Kharkhoda | PHED | 4.5 | 2 | 1914 dt. 7.1.2020 | Complying except Faecal Coliform | PHED has engaged Jamia Milia Islamia University to conduct efficacy study of STPs. |
| | | | | | | 21.05.2020 | Sample Collected but result awaited | |
| 18 | Sonepat | Ganaur | PHED | 7 | 4.71 | 1924 dt. 07.01.2020 | Complying except Faecal Coliform | |

| Sr. No . | Name of the district | Name of the town/ city | Deptt. | Existin g STP and Capacit y (MLD) | Present dischar ge reachin g to STP | A/R No. and date | Latest Complianc e Status | Action Taken Report |
|----------|----------------------|------------------------|--------|-----------------------------------|-------------------------------------|------------------------|-------------------------------------|--|
| | | | | | | 21.05.2020 | Sample Collected but result awaited | |
| 19 | Sonepat | Gohana | PHED | 3 | 2 | 1938 dt. 13.1.2020 | Complying except Faecal Coliform | |
| | | | | | | 21.05.2020 | Sample Collected but result awaited | |
| 20 | Sonepat | Gohana | PHED | 8.3 | 6.89 | 1937 dt. 13.1.2020 | Complying except Faecal Coliform | |
| | | | | | | 21.05.2020 | Sample Collected but result awaited | |
| 21 | Jhajjar | Jhajjar | PHED | 5.5 | 3.41 | 748-49 dt. 23.3.2020 | Complying | |
| 22 | Jhajjar | Jhajjar | PHED | 5 | 3 | 117-18 dt. 01.06.2020 | Complying | |
| 23 | Jhajjar | Beri | PHED | 2 | 0.5 | 750 dt. 23.03.2020 | Complying | |
| 24 | Jhajjar | Bahadurgar h | PHED | 18 | 7 | 443-444 dt. 27.07.2020 | Complying | PHED has engage d Jamia Milia Islamia Universi ty to conduct efficacy study of STPs. |
| 25 | Jhajjar | Bahadurgar h | PHED | 36 | 15.59 | 441-442 dt. 27.07.2020 | Complying | |
| 26 | Rohtak | PGI Rohtak | PHED | 19.5 | 9.5 | 491-92 dt. 30.07.2020 | Complying | |
| 27 | Rohtak | Sonaria, Rohtak | PHED | 40 | 29.52 | 455-456 dt. 27.07.2020 | Complying | |

| Sr. No . | Name of the district | Name of the town/ city | Deptt. | Existing STP and Capacity (MLD) | Present discharge reaching to STP | A/R No. and date | Latest Compliance Status | Action Taken Report |
|----------|----------------------|------------------------|--------|---------------------------------|-----------------------------------|---|----------------------------------|--|
| 28 | Rohtak | Kalanaur | PHED | 3.5 | 2 | 453-54 dt. 27.07.2020 | Complying | |
| 29 | Rohtak | Meham | PHED | 5 | 2.66 | 451-52 dt. 27.07.2020 | Non-Complying | PHED has engaged Jamia Milia Islamia University to conduct efficacy study of STPs. |
| 30 | Rohtak | Singhpura, Rohtak | PHED | 10 | 4 | TP has been inspected on 25.07.2020 and found under maintenance, the effluent is being treated through 14 MLD STP installed in the same premises. | | |
| 31 | Rohtak | Singhpura, Rohtak | PHED | 14 | 6.5 | 493-94 dt. 30.07.2020 | Complying | PHED has engaged Jamia Milia Islamia University to conduct efficacy study of STPs. |
| 32 | Rohtak | Sampla | PHED | 4 | 2.65 | 417-18 dt. 22.07.2020 | Complying | |
| 33 | Gurgaon | Tarou | PHED | 4.5 | 2 | 174 M dt. 04.09.2020 | Complying except Faecal Coliform | |
| 34 | Mewat | Punhana | PHED | 4.5 | 1.35 | 59-60 dt. 26.05.2020 | Complying except Faecal Coliform | |
| 35 | Mewat | Nuh | PHED | 3.6 | 1.5 | 173M dt. 04.09.2020 | Complying except Faecal Coliform | |
| 36 | Mewat | Ferozpur Jhirka | PHED | 5 | 1.6 | 172M dt. 04.09.2020 | Complying except Faecal Coliform | |
| 37 | Palwal | Hassanpur | PHED | 3 | 1.25 | 264 dt. 4. 09.2020 | Complying except Faecal Coliform | |

| Sr. No . | Name of the district | Name of the town/ city | Deptt. | Existin g STP and Capacit y (MLD) | Present dischar ge reachin g to STP | A/R No. and date | Latest Complianc e Status | Action Taken Report |
|----------|----------------------|--|--------|-----------------------------------|-------------------------------------|-----------------------|-------------------------------------|--|
| 38 | Palwal | Hathin | PHED | 4.5 | 1.91 | 174 M dt. 04.09.2020 | Complying except Faecal Coliform | PHED has engaged Jamia Milia Islamia University to conduct efficacy study of STPs. |
| 39 | Palwal | Hodal | PHED | 9 | 4.68 | 263 dt. 04.09.2020 | Complying except Faecal Coliform | |
| 40 | Palwal | Palwal | PHED | 9 | 9 | 253 dt. 31.08.2020 | Complying except Faecal Coliform | |
| 41 | Kurukshe tra | Indri Road, Ladwa | PHED | 7 | 3.82 | 3558 dt. 19.08.2020 | Complying except Faecal Coliform | |
| 42 | Panipat | Sec-19, Panipat | HSVP | 30 | 6 | 2776 dt. 29.05.2020 | Complying except Faecal Coliform | |
| 43 | Panipat | Sec-6, Panipat | HSVP | 0.8 | 0.5 | 2778 dt. 29.05.2020 | Complying except Faecal Coliform | |
| 44 | Sonepat | Rajiv Gandhi Edu. City, Phase-I, Sonepat | HSVP | 7.5 | 0.3 | 1926 dt. 07.01.2020 | Complying except Faecal Coliform | |
| | | | | | | 21.05.2020 | Sample Collected but result awaited | |
| 45 | Jhajjar | Sec-36, Bahadurgar h | HSVP | 10 | 5.5 | 479-80 dt. 30.07.2020 | Complying | |

| Sr. No . | Name of the district | Name of the town/ city | Deptt. | Existing STP and Capacity (MLD) | Present discharge reaching to STP | A/R No. and date | Latest Compliance Status | Action Taken Report |
|----------|----------------------|-------------------------|--------|---------------------------------|-----------------------------------|-----------------------|----------------------------------|-------------------------------------|
| 46 | Rohtak | Sec-25, Rohtak | HSVP | 10 | 6 | 489-90 dt. 30.07.2020 | Non-Complying | |
| 47 | Gurgaon | Dhanwapur, Gurgaon | GMD A | 68 | 65 | 197 dt. 06.08.2020 | Complying except Faecal Coliform | |
| 48 | Gurgaon | Dhanwapur, Gurgaon | GMD A | 100 | 85 | 198 dt. 06.08.2020 | Complying except Faecal Coliform | |
| 49 | Gurgaon | Behrampur | GMD A | 50 | 45 | 220 dated 10.08.2020 | Complying except Faecal Coliform | |
| 50 | Gurgaon | Behrampur, Gurgaon | GMD A | 120 | 90 | 221 dated 10.08.2020 | Complying except Faecal Coliform | |
| 51 | Gurgaon | Dhanwapur, Gurgaon | GMD A | 50 | 48 | 196 dt. 06.08.2020 | Complying except Faecal Coliform | |
| 52 | Faridabad | Badshahpur , Faridabad | ULB | 45 | 10 | 51-52 dt. 26.05.2020 | Complying except Faecal Coliform | prosecution filed |
| 53 | Karnal | Near Sector-4, Karnal | ULBD | 40 | | 3021 dt. 08.07.2020 | Non-Complying | Being converted to a new 50 MLDSTP) |
| 54 | Karnal | Gogharipur Road, karnal | ULBD | 10 | 4.5 | 1628 dt. 13.11.2019 | Complying except Faecal Coliform | |
| 55 | Karnal | Kaithal Road, Karnal | ULBD | 8 | 8 | 1627 dt. 13.11.2019 | Complying except Faecal Coliform | Under-Upgradation |

| Sr. No . | Name of the district | Name of the town/ city | Deptt. | Existing STP and Capacity (MLD) | Present discharge reaching to STP | A/R No. and date | Latest Compliance Status | Action Taken Report |
|----------|----------------------|------------------------|--------|---------------------------------|-----------------------------------|---------------------|--|---|
| 56 | Karnal | RK Puram, Karnal | PHED | 8 | 3 | 2250-26.02.2020 | Complying except Faecal Coliform | Completed on 31.10.2019 and is under trial run. The STP is being handed over to MC, Karnal. |
| 57 | Sonepat | Rathdana Road, Sonepat | ULBD | 30 | 20 | 1927 dt. 07.01.2020 | Non-Complying (Sample could not be collected as effluent is not reaching to STP. The sample of bypass has been collected and show cause for prosecution issued.) | The STP has been made functional recently after rectification of deficiencies. Latest sample has to be collected. |
| | | | | | | 21.05.2020 | Sample Collected but result awaited | |
| 58 | Sonepat | Kakroi Road, Sonepat | ULBD | 25 | | 1925 dt. 07.01.2020 | Non-Complying | |
| | | | | | | 21.05.2020 | Sample Collected but result awaited | |
| | | Total | | 1052.2 | | | | |

Annexure-3

Status of Construction of new STPs in the catchment of river Yamuna

| Sr. No. | Name of town/city | Deptt. | Capacity (MLD) | Target date | Progress upto August, 2020 |
|-----------------------|--|--------|----------------|-------------|----------------------------|
| In Progress | | | | | |
| 1 | Baddi Majra, Yamuna Nagar | PHED | 10 | 30.09.2020 | 95% |
| 2 | Shiv Colony, Karnal | ULBD | 8 | 31.12.2020 | 60% |
| 3 | Phooshgarh, Karnal | ULBD | 20 | 31.12.2020 | 60% |
| 4 | Garhi Bohar, Rohak | ULBD | 12 | 15.03.2021 | 21% |
| 5 | Singhpura, Rohtak | ULBD | 10 | 31.12.2020 | 85% |
| 6 | Peer Bodhi, Rohak | HSVP | 15 | 31.03.2022 | 0 |
| 7 | Sarai Alawardi | ULBD | 1 | 31.08.2020 | 95% |
| 8 | Gadoli Kalan | ULBD | 1 | 31.08.2020 | 90% |
| 9 | Baliawas (against Gwalpahadi) | ULBD | 1 | 31.07.2020 | 85% |
| 10 | Mohmadpur Jharsa | ULBD | 2 | 31.12.2020 | 80% |
| 11 | Darbaripur | ULBD | 1 | 31.10.2020 | 85% |
| 12 | Bandwari(Shifted from Sihi/Khedki Daula) | ULBD | 1 | 31.03.2021 | 8% |
| 13 | Faridabad | HSVP | 7.5 | 31.12.2020 | 82% |
| 14 | Faridabad, sector-21 | ULBD | 10 | 31.07.2021 | 3% |
| 15 | Kithwari (against Ferozpur, Palwal) | ULBD | 10 | 31.12.2020 | 31% |
| 16 | Jodhpur Road, Palwal | ULBD | 15 | 31.12.2020 | 41% |
| 17 | Ferozpur, Palwal | ULBD | 2.5 | 31.12.2020 | 40% |
| 18 | Sonepat (Aterna) | HSVP | 15 | 30.06.2021 | 10% |
| 19 | Murthal Sonepat | ULBD | 3 | 30.06.2021 | Work recently allotted |
| | Total | | 145 | | |
| Work Completed | | | | | |
| 1 | Radaur Road Yamuna Nagar | PHED | 20 | 30.09.2019 | Completed |
| 2 | Baddi Majra, Yamuna Nagar | PHED | 10 | 26.07.2019 | Completed |
| 3 | Gharaunda | PHED | 7 | 31.05.2019 | Completed |
| 4 | RK Puram, Karnal | PHED | 8 | 31.10.2019 | Completed |
| 5 | Firozpur Jhirka | PHED | 5 | 20.11.2019 | Completed |
| 6 | Transport Nagar, Karnal | ULBD | 50 | 30.09.2020 | Completed |
| | Total | | 100 | | |

Status of action plan for Under Proposal STPs

| Sr. No . | Name of the district | Name of the town/city | Deptt. | Capacity (MLD) | Timelines | Latest status as on 31.08.2020 |
|----------|----------------------|--------------------------------------|--------|----------------|------------|---|
| 1 | Gurugram | Jhazgarh | GMDA | 20 | 31.12.2021 | DNIT under finalization |
| 2 | Gurugram | Dhanwapur | GMDA | 100 | 31.12.2022 | DNIT under finalization |
| 3 | Gurugram | Manesar and Naharpur Kasan, Gurugram | GMDA | 25 | 31.12.2022 | DNIT under finalization |
| 4 | Rohtak | Rohtak | HSVP | 10 | 31.12.2021 | Hydraulic Design & Drawing approved on dated 06.03.2020. No progress achieved due to non availability of labour due to complete Lockdown w.e.f 23.03.2020 to 04.05.2020 and partial Lockdown in May and June 2020 due to COVID 19. Sufficient number of labour personal still not available. At present, sewage of this area is being treated in existing 10 MLD STP in Sector-25 Rohtak. However, the existing STP is nearing its ultimate capacity and need has arisen for construction of this new STP. It is clarified that no untreated sewage is being disposed off by HSVP at Rohtak. |
| 5 | Faridabad | Faridabad | HSVP | 30 | 30.06.2022 | Work allotted recently. Hydraulic Design & Drawings approved on 30.07.2020. The colonizer of this area are treating the sewage effluent in their STPs and after treating the sewage, the same is being used by them for gardening purpose. It is also to submit here that the master sewer line of Municipal Corporation, Faridabad is passing through the proposed site of STP and due to non functioning of MCF STP, the sewage effluent is leaking in the proposed site of STP. Matter has been taken up with MCF for early repairing of master sewer line and plug the leakage point. The work of construction of STP can |

| Sr. No . | Name of the district | Name of the town/city | Deptt. | Capacity (MLD) | Timelines | Latest status as on 31.08.2020 |
|----------|----------------------|-----------------------|---------------------------|----------------|------------|--|
| | | | | | | not be started at site till the overflowing of sewage effluent is not controlled / stopped by Municipal Corporation Faridabad. |
| 6 | Gurugram | Dhankot, Gurugram | Gram Panchayat Department | 2 | 30.09.2021 | Proposal had been submitted by Panchayat Raj Department to install STP. As Panchayat Raj Department doesn't has technical expertise, it has been decided that GMDA would execute the work as deposit work. The estimate for construction of STPs of capacity 2 MLD at village Dhankot has been framed amounting to Rs. 8.11 Cr and Administrative approval to the works has been accorded by GMDA Authority during the meeting held under the Chairmanship of Chief Minister, Haryana on 16.3.2020. However, tender could not be floated considering the epidemic of COVID-19 and hence, the action points to be achieved by 31-12-2020 is likely to be delayed by nine months and Honble NGT may consider minimum extension of timelines for completion till 30-9-2021. Further, Development & Panchayat deptt has been requested vide letter dt 20.3.2020 to deposit the requisite funds with GMDA as works will be carried out as deposit work. |
| 7 | Gurugram | Bajghera | Gram Panchayat Department | 2 | 30.09.2021 | The estimate for construction of STPs of capacity 2 MLD at Baghera has been framed amounting to Rs. 7.58 Cr. Respectively and Administrative approval to the work has been accorded by GMDA Authority during the meeting held under the Chairmanship of Chief Minister, Haryana on 16.3.2020. However, tender could not be floated considering the epidemic of COVID-19 and hence, the |

| Sr. No . | Name of the district | Name of the town/city | Deptt. | Capacity (MLD) | Timelines | Latest status as on 31.08.2020 |
|--------------|----------------------|-----------------------|--------|----------------|------------|---|
| | | | | | | action points to be achieved by 31-12-2020 is likely to be delayed by six months and Honble NGT may consider minimum extension of timelines for completion till 30-9-2021.Further, Development & Panchayat deptt has been requested vide letter dt 20.3.2020 to deposit the requisite funds with GMDA as works will be carried out as deposit work. |
| 8 | Faridabad | Mirjapur, Faridabad | ULBD | 80 | 31.12.2021 | Tender has been invited which is scheduled to be opened on 25.06.2020. |
| 9 | Faridabad | Partapgarh, Faridabad | ULBD | 100 | 31.12.2021 | Tender has been invited which is scheduled to be opened on 25.06.2020. |
| Total | | | | 369 | | |

Status of laying of sewerage in approved area

| Sr. No. | Name of town | Deptt. | Target date | Length to be laid (in Meters) | Progress upto August, 2020 | %age of work done |
|-----------------------|------------------|--------|--------------------------------------|-------------------------------|----------------------------|-------------------|
| In progress | | | | | | |
| 1 | Beri | PHED | 31.12.2020 | 8720 | 2000 | 22.94% |
| 2 | Jagadhri | ULB | 30.11.2020 | 109320 | 62600 | 57.26% |
| 3 | Palwal | ULB | 31.12.2020 | 148700 | 87100 | 58.57% |
| 4 | Sonepat | ULB | 31.12.2020 | 63500 | 43650 | 68.74% |
| 5 | Panipat | ULB | 31.07.2021 | 211548 | 95000 | 44.91% |
| 6 | Rohtak | ULB | 30.09.2020 | 174690 | 91080 | 52.14% |
| 7 | Ferozepur Jhirka | PHED | 31.12.2020 | 4000 | 3000 | 75.00% |
| 8 | Punhana | PHED | 31.12.2020 | 25839 | 21400 | 82.82% |
| 9 | Faridabad | ULBD | 31.12.2020 | 450000 | 343000 | 76.22% |
| 10 | Karnal | ULBD | 31.12.2020 | 152000 | 127000 | 83.55% |
| Work completed | | | | | | |
| 11 | Samalkha | PHED | Sewerage in approved area 100 % laid | 3700 | 3700 | Completed |
| 12 | Nissing | PHED | Sewerage in approved area 100 % laid | 3850 | 3850 | Completed |
| 13 | Bahadurgarh | ULB | Sewerage in approved area 100 % laid | 25000 | 25000 | Completed |
| 14 | Gohana | PHED | Sewerage in approved area 100 % laid | 18000 | 18000 | Completed |
| 15 | Indri | PHED | Sewerage in approved area 100 % laid | 7350 | 7350 | Completed |
| 16 | Radaur | PHED | Sewerage in approved area 100 % laid | 2000 | 2000 | Completed |
| 17 | Nilokheri | PHED | Sewerage in approved area 100 % laid | 3640 | 3640 | Completed |
| 18 | Taoru | PHED | Sewerage in approved area 100 % laid | 10070 | 10070 | Completed |
| 19 | Gannaur | PHED | Sewerage in approved area 100 % laid | 28346 | 28346 | Completed |
| 20 | Nuh | PHED | Sewerage in approved area | 4857 | 4857 | Completed |

| Sr. No. | Name of town | Deptt. | Target date | Length to be laid (in Meters) | Progress upto August, 2020 | %age of work done |
|---------|--------------|--------|---|--|----------------------------|-------------------|
| | | | 100 % laid | | | |
| 21 | Hodal | PHED | Sewerage in approved area 100 % laid | 26820 | 26820 | Completed |
| 22 | Jhajjar | PHED | Sewerage in approved area 100 % laid | 3595 | 3595 | Completed |
| 23 | Kalanaur | PHED | Sewerage in approved area 100 % laid | 17000 | 17000 | Completed |
| 24 | Kharkhoda | PHED | 30.06.2021 Sewerage in approved area 100 % laid | Due to narrow streets, not possible to lay sewer and drains water diverted/ tapped into nearby sewer by ULBD | | Completed |
| 25 | Ladwa | PHED | Sewerage in approved area 100 % laid | 4400 | 4400 | Completed |
| 26 | Sampla | PHED | Sewerage in approved area 100% laid | 3720 | 3720 | Completed |
| 27 | Hathin | PHED | Sewerage in approved area 100 % laid | 1887 | 1887 | Completed |
| 28 | Hassanpur | PHED | Sewerage in approved area 100 % laid | 4000 | 4000 | Completed |
| 29 | Meham | PHED | Sewerage in approved area 100 % laid | 4905 | 4905 | Completed |
| 30 | Gharaunda | PHED | Sewerage in approved area 100 % laid | 23340 | 23340 | Completed |
| 31 | Yamuna Nagar | | Sewerage already laid. | | | Completed |
| 32 | Chhachhrauli | | Sewerage already laid. | | | Completed |
| 33 | Gurugram | | Sewerage already laid. | | | Completed |
| 34 | Taraori | PHED | 30.09.2020 | 4700 | 4700 | 100.00% |
| | | | Total | 1549497 | 1077010 | |

Status of existing CETPs in the catchment of river Yamuna

| Sr. No. | Name of CETP | Capacity in MLD | Deptt. | Existing/ Under construction/proposed | Present status |
|---------|--------------------------------------|-----------------|---------|---------------------------------------|---|
| 1 | IE Rai, Sonapat | 5 | HSI IDC | Existing | Plant functional and Complying. |
| 2 | IE Barhi, Sonapat | 16 | HSI IDC | Existing | Plant functional and Complying. |
| 3 | IE Kundli, Sonapat | 4 | HSI IDC | Existing | Plant functional but and Complying. |
| 4 | IE Murthal, Sonapat | 0.2 | HSI IDC | Existing | Plant functional and Complying. |
| 5 | IMT Rohtak | 10 | HSI IDC | Existing | Plant functional and Complying, |
| 6 | IE Kutana, Rohtak | 3 | HSI IDC | Existing | Plant under trial run. |
| 7 | IE Panipat Refinery Complex, Panipat | 2.5 | HSI IDC | Existing | Could not be functional, due to Non availability of sufficient effluent |
| 8 | HSI IDC Sector 16-17, Bahadurgarh | 12.5 | HSI IDC | Existing | Plant functional and Complying, |
| 9 | IMT faridabad | 10.5 | HSI IDC | Existing | Running satisfactory and Complying |
| 10 | IMT Manesar, Gurugram | 55 | HSI IDC | Existing | Plant functional and Complying, |
| 11 | Sector-29, Panipat | 21 | HSVP | Existing | Plant functional but non complying. |
| 12 | Sector-29, Panipat | 21 | HSVP | Existing | Plant functional but non complying . |
| 13 | Faridabad Electroplaters Association | 0.6 | Private | Existing | Plant functional and Complying, |
| 14 | Industrial Area, Sector-37, Gurugram | 0.2 | Private | Existing | |
| | Total | 161.5 | | | |

Status of under proposal CETPs in the catchment of river Yamuna

| Sr. No. | Name of CETP | Capacity in MLD | Deptt. | Timelines as per action plan | Progress upto August, 2020 |
|---------|--------------------------------------|-----------------|---------|--|---|
| 1 | Partapgarh, Faridabad | 50 | HSI IDC | 31.12.2022 | In the meeting of ACS Finance dated 11.08.2020, it is decided that MCF will construct the CETP. |
| 2 | Mirzapur, Faridabad | 25 | HSI IDC | 31.12.2022 | In the meeting of ACS Finance dated 11.08.2020, it is decided that MCF will construct the CETP. |
| 3 | Badshahpur, Faridabad | 15 | HSI IDC | 31.12.2022 | In the meeting of ACS Finance dated 11.08.2020, it is decided that MCF will construct the CETP. |
| 4 | Sector-34, Gurugram | 20 | HSI IDC | 33 month after the pending decision are finalized. | Matter w.r.t. land acquisition is sub judicious in Punjab & Haryana High Court in CP no. 38 of 2012 next date of hearing is fixed for 03-07-2020. |
| 5 | Sector- 18, Gurugram | 1.5 | HSI IDC | 31.12.2022 | In the meeting of ACS Finance dated 11.08.2020, it is decided that MCG will plan and construct the CETPs at Gurugram. |
| 6 | IDC, Gurugram | 0.75 | HSI IDC | 31.12.2022 | In the meeting of ACS Finance dated 11.08.2020, it is decided that MCG will plan and construct the regarding CETPs at Gurugram. |
| 7 | Industrial Area, Sector-37, Gurugram | 9 | HSI IDC | 31.12.2022 | In the meeting of ACS Finance dated 11.08.2020, it is decided that MCG will plan and construct the regarding CETPs at Gurugram. |
| 8 | Rai, Sonapat | 5 | HSVP | 31.12.2021 | The estimate and DNIT stands approved. Tenders are to be received and opened on 22.07.2020; likely date of completion is 31.12.2021 |
| | Total | 126.25 | | | |