

Monthly Progress Report by State of Haryana regarding Yamuna Action Plan.

(Hon'ble NGT in the matter of OA No. 673/ 2018 dated 06.12.2019)

Sr. No.	Activity to be monitored	Timeline
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2020
	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured.	31.03.2020
2	Timeline for completing all steps of action plans including completion of setting up STPs and their commissioning.	31.03.2021
5	Chief Secretaries may set up appropriate monitoring mechanism at State Level <ul style="list-style-type: none">• Specifying accountability of nodal authorities not below the Secretary Level.• Chief Secretaries may have an accountable person attached in their office for this purpose.	22.01.2020
	<ul style="list-style-type: none">• Monitoring at State Level must take place	22.01.2020
6	Progress report may be furnished by the States/ UTs to <ul style="list-style-type: none">• Secretary, Ministry of Jal Shakti• Member Secretary, CPCB	Fortnightly Commencing 21.12.2019
		Monthly (Preferably before 20th of every month)

Progress report regarding Yamuna Action Plan by State of Haryana

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

Meeting of all stakeholder Departments was held on 04.11.2019, wherein the agencies for executing the Bio / Phyto remediation works in specific drains were identified (PHED, ULBD, GMDA & HSIIDC). Work is yet to be taken up. In the meeting held on 04.11.2019 two departments for each drain which contribute maximum share in the quantum of flow were identified. Further, one Nodal Department was identified for each drain for defining scope of work pertaining to the departments and shall be responsible for implementation of the work.

The Nodal departments were identified as under:-

Sr. No.	Name of Drain	Main Stakeholder Departments	Name of ULB	Nodal Department for execution of works
1.	Dhanura Escapes (Ditch Drain)	PHED, ULBD	Yamunanagar	PHED
2.	Drain no. 2	ULBD, HSVP	Panipat	ULBD
3.	Drain no. 6	ULBD, HSIIDC	Sonipat	HSIIDC
4.	Mungeshpur	ULBD, PHED	Bahadurgarh	ULBD
5.	KCB Drain	HSIIDC, ULBD	Bahadurgarh	HSIIDC
6.	Drain no. 8	Not required being nil flow		
7.	Leg I	MCG, GMDA	Gurugram	MCG
8.	Leg II	MCG, GMDA	Gurugram	MCG
9.	Leg III	MCG, GMDA	Gurugram	GMDA
10.	Budhiya Nalah	ULBD, HSIIDC	Faridabad	ULBD
11.	Guanchi	ULBD, PHED (For discharge of village Hodal and Hathin).	Faridabad	ULBD

6.1 (ii) Status of STPs, I&D and sewerage networks, Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline.

(a) Details for sewage management (in MLD)

River	Generated	Treatment capacity	Gap
Yamuna	1032.7	1207.2	0

Gap analysis- However, there is gap in treatment capacity of 79.9 MLD in Haryana i.e. Faridabad (70 MLD), Beri (0.1 MLD), Indri(0.8), Palwal(8.7) and Samalkha (0.3 MLD).

(b) Details of STPs

Existing STPs		Under Construction		Proposed STPs	
No.	Capacity	No.	Capacity	No.	Capacity
61	1170.7	17	176	11	303

Work of construction of new STPs will be completed latest by 31.07.2021.

(c) Status of laying of sewer network in approved/notified areas

1516 Km of sewer line was proposed to be laid in total 34 towns in the catchment of river Yamuna, out of which 832 KM length of sewer line have already been laid. Sewerage fully laid in 11 towns i.e. Radaur, Ganaur, Ladwa, Nuh, Kharkhoda, Sampla, Yamuna Nagar, Hathin, Meham, Gurugram and Chhachhrauli. Sewer lines are being laid in balance 23 towns. Plan for 2 towns (Beri and Panipat,) are beyond the timelines prescribed by NGT i.e. exceeding 31.12.2020. Work will be completed latest by 31.12.2021.

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

84.14 MLD of effluent was proposed to be tapped/ diverted at 165 locations. Out of which 28.6 MLD effluent has been diverted at 49 locations.

(e) Diversion of sewage at Leg-I, Leg-II, Leg-III drains in Gurugram

- **Leg I** – 13 locations out of total 16 locations have been plugged upto 1.1.2020. Work is under process at rest of 3 locations.
- **Leg II** - Effluent has been tapped at 23 locations out of total 33. Balance 10 locations to be attended.
- **Leg III** - Work completed at 21 locations out of total 61. Work is under progress at balance 40 locations.

The work of tapping of sewage in Leg-I, Leg-II, Leg-III drains will be completed by 31.12.2020.

6.1 (iii) 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
13	158.75	0	0	8	120.25

- No. of industries in catchment of River Yamuna -2597
- Quantum of Industrial effluent generation -129.7 MLD
- Existing treatment capacity of CETPs -158.750 MLD
- Treatment capacity under proposal - 114.25 MLD
- Gap in treatment -0

6.1 (iv) Status of Solid Waste Management & Details of Processing Facilities

Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline.

There are 84 Urban Local bodies in the state of Haryana and generates 5568 TPD Municipal Solid Waste. Out of which 2108 TPD is being processed/treated and remaining quantity i.e., 3460.12 TPD is being sent to landfills.

The current status of SWM

Table 1: Current status of SWM activities in the State is given in as under:

Sr. No.	SWM Activities in State	Quantity (in Nos)
1.	Total No. of Wards	1540
2.	Quantity of Solid Waste generated	5568 TPD
3.	No. of wards with 100% Door to Door Collection	1422
4.	No. of wards where segregation is initiated	923
5.	No. of vehicles	4299
6.	No. of vehicle with Compartment	3192
7.	No. of vehicles with GPS	1546
8.	No. of Garbage Vulnerable Points Identified	744
9.	No. of BWG identified	2692
10.	No. of BWG processing on site	486
11.	No. of Solid Waste Challan done	1868
12.	No. of Plastic Waste Challan done	4848

Government of Haryana has adopted cluster based integrated approach for Solid Waste Management. The entire State has been broadly divided into fourteen (14) clusters out of which four (4) will be Waste To Energy i.e., Faridabad, Rohtak, Sonapat, Ambala and (10) will be waste to Compost/RDF processing i.e., Jind, Hisar, Dabwali with Sirsa, Rewari, Panchkula, Bhiwani, Faruknagar, Yamuna Nagar, Punhana and Fatehabad.

➤ Processing Facilities

14 suitable sites for setting up of processing facilities in 14 clusters based on Integrated Solid Waste management approach have already been identified. It is informed by MC Hisar that international airport is proposed to be developed at a distance of 2 km from the proposed MSW site. In view of this, a new site should be identified for the project, till that time project is annulled for bidding. Out of 14 clusters for the development of Integrated Solid Waste processing facilities and Sanitary Landfill facilities, suitable sites for setting up of 12 clusters, have already been procured. The procurement of site (processing facilities and Sanitary Landfill) for Jind Cluster is under progress and will be procured at the earliest. As there is international Airport is about to set up within the range of 2Km of the site identified at hisar so the bidding process is annulled for Hisar cluster and MC Hisar has identified few sites, which are under the site feasibility

process. As per the Annual Report for the year 2018, presently in the state there are 14 nos. Solid Waste Composting Facilities, 10 nos. Vermi Composting Facilities and 03 nos. RDF Facilities. Rejects and residues collected from the above mentioned processes are disposed in dumping sites and further proposed to be processed for energy recovery.

6.1 (v) 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

River Yamuna	Sr. No.	Drain	Quantity (MLD)	BOD (mg/l)
	1	Dhanura Escape before meeting Yamuna, Vill. Jarauli, Karnal(Ditch Drain)	58.8	155
	2	Drain No.2 vill. Khojkipur	123.55	40
	3	Drain No.6 vill. Akbarpur Barota, Sonapat	170.44	65
	4	Mungeshpur drain in Delhi, Territory, Back side of Sainik School.	85.75	120
	5	KCB Drain Near MCD Toll Tax, VPO Lowa	90	52
	6	Drain No.8 Near Dhansa store of Executive	49	40
	7	Leg I Najafgarh drain Gurugram	9.52	55
	8	Leg II Najafgarh drain Gurugram	45.01	65
	9	Leg III (Badshahpur) Najafgarh drain Gurugram	334.94	65
	10	Budhiya Nalah Vill. Manjhawali, Faridabad	30	42
	11	Guanchi drain before river Yamuna	5.38	42

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

Ground water quality is being monitored at 66 locations in the catchment of river Yamuna by HSPCB. Out of total 66 locations, ground water is found fit for drinking at 50 locations and non complying at 16 locations. Directions have already been conveyed to all the task forces to cap such water sources and a display board mentioning that "Water is not for drinking purpose" may be placed. The same has been compiled by the task forces.

Sr. No.	Region	NO. of Points monitored	Complying	Non-Complying
1	Panipat	9	6	3
2	Faridabad	7	7	0
3	Sonepat	13	11	2
4	Ballabgarh	12	4	8
5	Bahadurgarh	7	4	3
6	Gurgaon South	7	7	0
7	Gurgaon North	8	8	0
8	Yamuna Nagar	3	3	0
	Total	66	50	16

6.1 (vi) 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.

(a) 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.

As per Annual Report 2018, there are 4079 number of Health Care Facilities (HCFs) in the State including 2723 number Bedded HCFs and 1356 number Non Bedded HCFs. In all Bedded HCFs of State total numbers of Beds are 53259. Total Bio Medical Waste (BMW) generated by all HCFs is 14217.88 Kg/day.

(b) Plastic Waste Rules Management

As per the detail provided by ULBD total 525.121 TPD plastic waste is being generated and out of which 283.06 TPD is being processed/Treated. There is gap of 242.061 TPD.

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.

The Municipal Corporation/Committee/Council is doing door to door collection and segregation and through private parties. ULBD is framing a proposal for use of plastic waste in road construction as per Indian road congress guidelines for energy recovery and waste oil from plastic waste.

For plastic waste (including other dry waste) segregation, 373 Material Recovery Facilities have been set up in the whole State. Apart from Material recovery Facilities, ULBs have also identified 3524 and registered 3232 rag pickers and Kabariwalas's for collection and segregation of plastic waste. These rag pickers are also segregating the plastic waste on their own level and selling it to the recyclers directly. At present 22 nos. Of Plastic Waste recyclers are registered in Haryana under PWM Rules, 2016.

6.1 (vii) Ground water regulation

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

6.1 (viii) 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.

6.1 (ix) 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.

6.1 (x) 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. (copy enclosed).

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.

6.1 (xi) 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.

6.1 (xii) Plantation on both sides of the river

Detail of plantation and Herbal/Bio-diversity Parks in catchment areas of Yamuna river						
	Plantation 2018-2019		Plantation Target 2019-2020		Herbal Parks for Bio-diversity conservation	
District	Ha.	No. of plants	Ha.	No. of plants	Names	Area in Acre
Yamuna Nagar	977	10,67,000	898	9,20,000	i) Rudraksh Vatika at village Chuharpur	184
					ii) Adi Badri Herbal Park	10
Karnal	543	4,91,000	844	6,48,000	i) Ashok Vatika at Gharaunda	5
					ii) Indri Herbal Park	10
Panipat	599	5,41,000	540	4,46,000	i) Bilva Vatika at Pati Kalyana Village	14
Sonipat	646	5,06,000	612	4,99,000	ii) Amaltas Vatika Pati Kalyana Village	8
					ii) Khanpur Kalan Herbal Park	12
Faridabad	527	3,62,000	940	7,44,000	i) Ratanjot Vatika at Gurugram Canal at Faridabad	10
Palwal	264	2,22,000	386	2,98,000		0
Total	3556	3189000	4220	3555000		253

6.1 (xiii) Setting up biodiversity parks on flood plains by removing encroachment.

Already given at Sr. No. xii.