



HSPCB

No. HSPCB/WC/2885-2892

To

HARYANA STATE POLLUTION CONTROL BOARD
C-11, SECTOR-6, PANCHKULA
Ph. 0172-2577870-73
E-mail:hspcbho@gmail.com

Dated:- 10-08-2020

1. The Chief Executive Officer, Gurugram Metro Development Authority, Gurugram.
2. The Director, Science and Technology Department, Govt. of Haryana, Panchkula
3. The Chief Administrator, Haryana Shehri Vikas Pradhikaran, Panchkula.
4. The Director, Urban Local Bodies Department, Govt. of Haryana, Panchkula.
5. The Director, Development and Panchayat Department, Haryana Chandigarh
6. The Managing Director, HSIIDC, Sector-6, Panchkula.
7. The Engineer-In-Chief, Public Health Engineering Department, Govt. of Haryana, Panchkula
8. The Engineer-In-Chief, Irrigation Department, Govt. of Haryana, Panchkula


Sub:- Minutes of the meeting regarding Rejuvenation of river Yamuna w.r.t. compliance of order dated 06.07.2020 in OA No. 06 of 2012 in the matter of Manoj Mishra Vs. Union of India & Ors. under the Chairmanship of Justice Pritam Pal, former Judge, Punjab and Haryana High Court now as a Member in OA No. 606 of 2018 in the matter of compliance of Solid Waste Management Rules, 2016 on 28.07.2020 at 11:00 AM (through video conferencing).

Sir,

Kindly refer to the subject noted above.

In this connection, I have been directed to enclose herewith copy of Minutes of the meeting regarding Rejuvenation of river Yamuna w.r.t. compliance of order dated 06.07.2020 in OA No. 06 of 2012 in the matter of Manoj Mishra Vs. Union of India & Ors. under the Chairmanship of Justice Pritam Pal, former Judge, Punjab and Haryana High Court now as a Member in OA No. 606 of 2018 in the matter of compliance of Solid Waste Management Rules, 2016 on 28.07.2020 at 11:00 AM (through video conferencing) for your information and arrange to provide the action taken report in compliance of Monitoring Committee within time bound manner as recommended by Monitoring Committee, please.

DA/As above.



Sr. Env. Engineer(HQ)
For Member Secretary

Endst No. HSPCB/WC/2893

Dated:- 10-08-2020

A copy of the above is forwarded to Sr. Environmental Engineer-I. He is requested to upload on website of HSPCB please

DA/As above


Sr. Env. Engineer(HQ)
For Member Secretary

OFFICE OF THE MONITORING COMMITTEE

Constituted by the Hon'ble National Green Tribunal in Original Application no. 606 Of 2018 in the compliance of Solid Waste Management Rules, 2016 and OA no. 06 of 2012 in the matter of Manoj Mishra vs. Union of India & Others

(Official Address: Tower No.5, 4th Floor, Forest Complex,
Sector 68, SAS Nagar) Tel. No. 0172-2298091
Email: yamunacommittee@gmail.com

To

The Member Secretary,
Haryana State Pollution Control Board,
Panchkula

No. YMC/2020/01
Dated: 30.7.2020

Subject: Minutes of the meeting regarding rejuvenation of river Yamuna w.r.t. compliance of order dated 6.7.2020 in OA No. 06 of 2012 in the matter of Manoj Mishra Vs. Union of India & Others held under the Chairmanship of Justice Pritam Pal, former Judge, Punjab & Haryana High Court now as chairman of the Monitoring Committee (constituted by Hon'ble National Green Tribunal, in OA No.606 of 2018 in the matter of Compliance of Solid Waste Management Rules, 2016) on 28.7.2020 at 11.00 AM (through video conferencing) .

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Please find enclosed herewith minutes of the meeting regarding rejuvenation of river Yamuna w.r.t. compliance of order dated 6.7.2020 in OA No. 06 of 2012 in the matter of Manoj Mishra Vs. Union of India & Others held under the Chairmanship of Justice Pritam Pal, former Judge, Punjab & Haryana High Court now as chairman of the Monitoring Committee (constituted by Hon'ble National Green Tribunal, in OA No.606 of 2018 in the matter of Compliance of Solid Waste Management Rules, 2016) on 28.7.2020 at 11.00 AM (through video conferencing) . for your information and necessary action please.

It is requested that the minutes of meeting may be conveyed to all the concerned departments with the request to comply with the directions given by the Monitoring Committee and submit the action taken report within 21 days.

DA/As above.


(Dr. Babu Ram) 30/7/2020
Technical Expert,
Monitoring Committee

Endst. No. YMC/2020/02

Dated: 30.7.2020

A copy of the above is forwarded to the Chief Secretary, Haryana, for information and necessary action please.

DA/As above.


(Dr. Babu Ram) 30/7/2020
Technical Expert,
Monitoring Committee

Endst. No. YMC/2020/03

Dated: 30.7.2020

A copy of the above is forwarded to the Additional Chief Secretary, Department of Environment, Haryana, for information and necessary action please.

DA/As above.


(Dr. Babu Ram)
Technical Expert,
Monitoring Committee

Endst. No. YMC/2020/04

Dated: 30.7.2020

A copy of the above is forwarded to the Principal Secretary to Government of Haryana, Department of Local Government, for information and necessary action please.

DA/As above.


(Dr. Babu Ram)
Technical Expert,
Monitoring Committee

Minutes of the meeting regarding rejuvenation of river Yamuna w.r.t. compliance of order dated 6.7.2020 in OA No. 06 of 2012 in the matter of Manoj Mishra Vs. Union of India & Others held under the Chairmanship of Justice Pritam Pal, former Judge, Punjab & Haryana High Court now as chairman of the Monitoring Committee (constituted by Hon'ble National Green Tribunal, in OA No.606 of 2018 in the matter of Compliance of Solid Waste Management Rules, 2016) on 28.7.2020 at 11.00 AM (through video conferencing)

The following were present during meeting:

1) Members of the Monitoring Committee

Sr. No.	Name and Designation in the Deptt.	Name & Designation in the Committee
1.	Justice Pritam Pal, Former Judge, Punjab and Haryana High Court	Chairman
2.	Ms. Urvashi Gulati, IAS, Former Chief Secretary, Haryana	Member
3.	Dr. Babu Ram, Former Member Secretary, PPCB	Technical Expert

The list of the other officers, present in the meeting, is as per Annexure-1

The Chairman of the Monitoring Committee apprised the officers of various departments, present in the meeting, about the orders of Hon'ble National Green Tribunal in various cases connected to the matter, which are briefly mentioned as under:

- 1) The Hon'ble National Green Tribunal vide order dated 10.01.2020 in OA No.606 of 2018 in the matter of compliance of Solid Waste Management Rules, 2016 in Para No.36 has directed that most of the statutory timelines have expired and directions of Hon'ble Supreme Court and the Tribunal to comply Solid Waste Management rules, 2016 remain unexecuted and accordingly, compensation scale is laid down for continued failure after 31.03.2020. The compliance of the rules requires taking of several steps mentioned in Rule 22 (S. No.1 to 10). Any such continued failure will result into liability of every Local Body to pay compensation at the rate of Rs. 10 lakh per month per Local Body for population of above 10 lakh, Rs. 5 Lakh per month per Local Body for population between 5 lakh and 10 lakh and Rs. 1 lakh per other Local Bodies from 1.04.2020 till compliance. If the Local Body is unable to bear financial burden, the liability will of the State Govt. with liberty to take remedial action against erring Local bodies. Apart from compensation, adverse entries must be made in the ACRs of the CEO of the said Local Bodies and other senior functionaries in Department of Urban Development etc. who are responsible for compliance of order of this Tribunal. The Hon'ble Tribunal has also directed in para No 31 (ii) that the date of commencement of setting up of STPs is 31.3.2020, failing which compensation amounting to Rs 5 lakh/month/STP by the concerned local bodies/States in terms of order dated 28.8.2019 in OA No. 593/2017 and 6.12.2019 in OA No. 673/2018 w.e.f 1.4.2020 shall be imposed.
- 2) The Hon'ble Tribunal in its order dated 6.12.2019 in OA No. 673 of 2018 (mentioned in order dated 6.12.2019 uploaded on 12.12.2019 in OA No. 916 of 2018) had issued direction that 100% treatment of sewage may be ensured as directed by the Tribunal

vide order dated 28.08.2019 in O.A No. 593/2017 by 31.03.2020 at least to the extent of in-situ remediation and before the said date, commencement of setting up of STPs and the work of connecting all the drains and other sources of generation of sewage to the STPs must be ensured. If this is not done, the local bodies and the concerned departments of States/UT's will be liable to pay compensation as directed vide order dated 22.08.2019 in case of river Ganga i.e. Rs. 5 lakh per month per drain for default in in-situ remediation and Rs. 5 lakh per STP for default in commencement of setting up of the STP. The timeline for completing all steps of action plans including completion of setting up STPs and their commissioning till 31.03.2021 in terms of order dated 08.04.2019 in the present case will remain as already directed.

- 3) It was further informed that the Hon'ble Tribunal vide its order dated 21.05.2020 in OA No. 593 of 2017 at Para 8 [47(i) &ii)] has directed as under:
- i) 100% treatment of sewage may be ensured as directed by this Tribunal vide order dated 28.08.2019 in O.A. No. 593/2017 by 31.03.2020 at least to the extent of in-situ remediation and before the said date, commencement of setting up of STPs and the work of connecting all the drains and other sources of generation of sewage to the STPs must be ensured. If this is not done, the local bodies and the concerned departments of the States/UTs will be liable to pay compensation as already directed vide order dated 22.08.2019 in the case of river Ganga i.e. Rs. 5 lakhs per month per drain, for default in in-situ remediation and Rs. 5 lakhs per STP for default in commencement of setting up of the STP
 - ii) Timeline for completing all steps of action plans including completion of setting up STPs and their commissioning till 31.03.2021 in terms of order dated 08.04.2019 in the present case will remain as already directed. In default, compensation will be liable to be paid at the scale laid down in the order of this Tribunal dated 22.08.2019 in the case of river Ganga i.e. Rs. 10 lakhs per month per STP.

Further, in para 13 of order dated 21.05.2020 in OA No. 593 of 2017 has directed that as regards non-compliant STPs, further action may be completed by the State PCBs/PCCs and it may be ensured that there is 100% treatment of sewage and till STPs are set up, at least in-situ remediation takes place. However, on account of Corona pandemic which has affected several on-going activities, the timeline of levy of compensation in terms of order dated 28.08.2019 in O.A. No. 593/2017 read with order dated 06.12.2019 in O.A. No. 673/2018, of 01.04.2020 may be read as 01.07.2020 and 01.04.2021 may be read as 01.07.2021. Further reports may be taken by the CPCB from all the State PCBs/PCCs as per the system evolved by the CPCB from time to time.

- 4) The Hon'ble Tribunal vide its order dated 1.6.2020 in OA No. 325 of 2015 in the matter of Lt. Col. Sarvadaman Singh Oberoi vs Union of India &Ors, has directed in para No.6 that harvesting surplus water during excessive rains from any areas of catchment needs to be optimized by enhancing the capacity of the existing ponds/water bodies, creation of water harvesting structures in the sub-watersheds to the extent possible, apart from setting up of additional water bodies/water harvesting structures wherever viable,

utilizing available funds including under MGNREGA and involving the community at large at every level. Gram Panchayats can certainly play a significant role in the matter. Once adequate capacity enhancement of water bodies takes place, excess flood/rain water can be channelized by using appropriate water harvesting techniques. This action needs to be coordinated by the District Magistrates in coordination with the Department of Irrigation and Flood Control or other concerned Departments such as Department of Rural Development/Urban Development/Local Bodies/Forests/Revenue etc. The District Magistrate may as far as possible hold a meeting of all the stakeholders for the purpose as per the District Environment Plan or Watershed Plan within one month from today. The District Magistrates may also ensure that as far as possible at least one pond/water body must be restored in every village, apart from creation of any new pond/water body.

- 5) The Hon'ble National Green Tribunal vide its order dated 6.7.2020 in OA No. 06 of 2012 in the matter of Manoj Mishra Vs. Union of India & Others has passed the detailed order, the operating para no. 21 of which relating to the present Monitoring Committee is reproduced as under: -

"21. Accordingly, we direct that:

- a. DDA must forthwith comply with the earlier direction instead of finding lame excuses and taking stand of avoiding public duty.
- b. Let the concerned authorities in Delhi, Haryana and UP to take further action in terms of the recommendations of the Committee as well as earlier directions of this Tribunal dated 13.01.2015, as updated vide earlier orders dated 11.09.2019 and 05.03.2020. The compliance may be overseen by the Chief Secretaries concerned. The Committees headed by Justice Pritam Pal in Haryana and Justice SVS Rathore in UP may also oversee such compliances in their respective states and give their independent reports periodically."

Therefore, in order to implement the directions of the Hon'ble Tribunal, as mentioned above, the Monitoring Committee has held its meeting with State level officers of State of Haryana on 28.7.2020 regarding rejuvenation of river Yamuna.

Thereafter, point-wise agenda of the meeting was taken up for discussion as under:

1. **Water quality of river Yamuna at various locations.**

It was apprised that Haryana State Pollution Control Board is monitoring the water quality of river Yamuna at 13 locations and parameters namely pH, BOD, COD, TSS, O & G, ammonical nitrogen(NH₃-N), DO and F.Coli and Total Coll are monitored. As per the water quality data provided by the Board, it has been observed that the quality of water monitored at Point No.9, 10 and 11 contains high level of BOD ranging between 33.75-44.5 mg/l and F.Coli parameter in some of the river water samples are more than 25000 MPN/100 ml. As such, the water quality of river Yamuna has been contaminated due to discharge of untreated sewage of the towns in the river.

The concerned department informed that poor water quality of river Yamuna before and after meeting of Budiya Nallah is due to the discharge of untreated

sewage of Faridabad area and there is proposal to install 02 STPs of capacity 180 MLD and after the commissioning of the STPs, the water quality of river Yamuna shall be improved. Also, the faecal coliform in the sewage shall be controlled by imparting treatment through disinfectant mechanism on all STPs located on river Yamuna.

After detailed deliberation, the Chairman of the Monitoring Committee directed as under: -

- All the concerned departments like PHED, HSVP, GMDA, ULBD and HSIEDC shall take immediate steps to rectify the deficiencies in STPs/CETPs within 1 month.
- HSPCB shall analyze the water quality of river Yamuna at the same locations in the first week of September, 2020 and submit the analysis results to the Monitoring Committee.

2. **Sources of pollution in river Yamuna and details of drains carrying sewage/industrial effluent in river Yamuna.**

The Monitoring Committee was informed that in river Yamuna, 11 major drains are falling at different locations. Haryana State Pollution Control Board has analyzed the water quality of these drains recently and as per the analysis results, the values of BOD and F.Coli in drain No.2, Drain No.6, Entry point of Mungeshpur Drain, entry point of KCB drain, Leg1 drain, Leg2 drain, Leg3 drain and Budiya Nallah were found varying between 45- 210 mg/l and 6150-1750000 MPN/100 ml which are much higher than the permissible level.

It was further informed that the water quality of these 11 drains w.r.t. various parameters shall be improved after making necessary rectification on the deficiencies observed in these STPs.

After detailed deliberation, the Chairman of the Monitoring Committee directed as under: -

- All the concerned departments like PHED, HSVP, GMDA, ULBD and HSIEDC shall take immediate steps to rectify the deficiencies in STPs/CETPs within 1 month.
- HSPCB shall analyze the water quality of 11 drains ultimately leading to river Yamuna in the first week of September, 2020 and submit the analysis results to the Monitoring Committee.

3. **Status of Sewage Treatment Plants installed for treatment of sewage of the towns located on river Yamuna and their performance.**

It was submitted that total 58 STPs are existing in the catchment area of river Yamuna, out of which 50 STPs are found complying, 7 are non-complying and 1 STP is non-functional. As per the status report submitted to the Monitoring Committee, 50 STPs have been mentioned as complying w.r.t. all the parameters whereas as per the data, presently, no treatment system has been provided

onmost of the STPs to bring F.Coli parameter within the norms. Moreover, no data has been made available w.r.t. parameter BOD, COD, TSS and F.Coli parameters. With respect to STPs 40 MLD and 8 MLD installed at Karnal and 30 MLD and 25 MLD installed at Sonipat, which have been found non-complying, the officer of Department of Urban Local Bodies claimed that necessary upgradation in the system shall be made and these STPs shall be made fully functional by 31.12.2020.

PHED informed that 1.5 MLD at Indri (Karnal) and 40 MLD at Sonaria (Rohtak) shall be made functional after removing deficiencies in these STPs by 31.12.2020. It was further stated that STPs of capacity 171 MLD to treat sewage of Faridabad area, the work shall be allotted by 15.8.2020 and shall be completed within 1 year.

After detailed deliberation, the Chairman of the Monitoring Committee directed as under: -

- i) **The Department of Urban Local Bodies shall remove all the deficiencies in STPs of Karnal (capacity: 40 MLD and 8 MLD) and Sonipat (capacity: 30 MLD and 25 MLD) by 31.12.2020.**
- ii) **PHED was directed to remove all the deficiencies in STPs of Indri, Sonaria (capacity: 1.5 MLD and 40 MLD) by 31.12.2020.**
- iii) **The Department of Urban Local Bodies shall install and commission 02 STPs of capacity 80 MLD and 100 MLD to treat sewage of Faridabad area by 30.6.2021,**
- iv) **All the above Departments shall submit an interim report to the Monitoring Committee by 31.10.2020.**

4. **Status of Sewage Treatment Plants which are under construction/planning.**

It was reported that 23 new STPs of capacity 227 MLD have been proposed to be constructed in the catchment of river Yamuna. Out of these 23 STPs, 05 STPs of capacity 50 MLD have all ready been completed. The work in progress w.r.t 18 STPs of capacity 177 MLD, out of which work of 01 STP of capacity 10 MLD to be installed at Faridabad has been delayed. All the 17 STPs shall be completed by 31.12.2020 and 01 STP of capacity 10 MLD of Faridabad area shall be completed by 31.7.2021.

After detailed deliberation, the Chairman of the Monitoring Committee directed as under: -

- i) **Urban Local Body Department shall complete and commission 16 STPs (capacity: 169.5 MLD) and 01 STP (capacity: 10 MLD) by 31.12.2020 and 30.6.2021, respectively.**
- ii) **HSVP shall complete 01 STP of capacity 7.5 MLD for Faridabad town by 30.9.2020.**

4-A

Status of sewage treatment plant which are under proposal.

It was informed that 11 new STPs of capacity 387 MLD are under proposal. The status of these STP was submitted as under:

- 01 STP of capacity 100 MLD to be installed at Dhanwapur by GMDA is at DNIT stage
- 02 STPs of capacity 20 MLD and 25 MLD to be installed by GMDA at Jhazgarh and Manesar and 02 STPs of capacity 2 MLD and 2 MLD at Dhankot and Bajghera to be installed by Gram Panchayat department and 02 STPs of capacity 80 MLD and 100 MLD, to be installed at Mirzapur and Partapgarh by the department of Urban Local Bodies in Faridabad, are tendering stage.
- In the case of 04 STPs of capacity 15 MLD, 3 MLD, 10 MLD and 30 MLD, to be setup in Sonipat, Murthal, Rohtak and Faridabad, respectively, by HSVP, work has been allotted.

After detailed deliberation, the Chairman of the Monitoring Committee directed as under: -

- i) **HSVP shall install and commission 04 STPs of capacity 15 MLD, 3 MLD, 10 MLD and 30 MLD to be set up at Sonipat, Murthal, Rohtak and Faridabad, respectively, by 30.6.2021.**
- ii) **GMDA shall complete 03 STPs of capacity 20 MLD, 100 MLD and 25 MLD at Jhazgarh, Dhanwapur and Manesar, respectively, by 30.6.2021.**
- iv) **Gram Panchayat Department shall complete 2 MLD and 2 MLD STPs to be installed at Dhankot and Bajghera by 30.6.2021.**
- v) **Urban Local Department shall complete 02 STPs of capacity 80 MLD and 100 MLD to be set up at Mirzapur and Partapgarh, respectively, in Faridabad by 30.6.2021.**

5.

Status of STPs which required technologically up-gradation.

It was submitted that there is proposal to upgrade 09 STPs of capacity 70.5 MLD. The data indicate that upgradation work 3 STPs of capacity 25 MLD, 3.5 MLD and 3 MLD for Yamuna Nagar, Radaur and Chachrauli has been completed, whereas, upgradation work is in progress w.r.t. 06 STPs for Yamunanagar (10MLD), Nissing (4 MLD), Indri (4 MLD), Beri (3 MLD), Karnal (8 MLD) and Sector 25, Rohtak (10 MLD).

After detailed deliberation, the Chairman of the Monitoring Committee directed as under: -

- i) **Upgradation of all the 6 STPs :Yamunanagar (10MLD), Nissing (4 MLD), Indri (4 MLD), Beri (3 MLD), Karnal (8 MLD) and Sector 25, Rohtak (10 MLD) shall be completed by the concerned departments by 31.12.2020.**
- ii) **The concerned departments namely Public Health Engineering Department and HSVP shall ensure that these STPs should also be upgraded by adding disinfectant treatment mechanism to control fecal coliform parameter.**

- iii) **HSPCB shall collect the effluent samples at the inlet and outlet of STPs in the 2nd week of January, 2021.**

6. **Status of installation of effluent treatment plants by the industries and mode of disposal of treated effluent.**

The Monitoring Committee was apprised that 2597 water polluting industries exist in the catchment area of river Yamuna and all these industries have installed their individual ETPs to treat the industrial effluent.

The Monitoring Committee observed that no data has been made available w.r.t. category of the Industries (Red, Orange and Green category) and further sub category of industries in Red category industries and cluster of industries which have joined common effluent treatment plants.

After detailed discussion, the Chairman of the Monitoring Committee directed as under: -

- i) **HSPCB shall segregate the list of the 2597 water polluting industries and categorize these industries into Red, Orange and Green within 2 days.**
- ii) **The Red category industries may be further sub-categorized and cluster of particular type of industries, their discharge and characteristics of effluent.**
- iii) **HSPCB shall submit the analysis results of all the CETPs collected in the month of June, 2020 within 3 days otherwise the concerned Regional office of the Board may be directed to carry out analysis of un-treated and treated effluent of the CETP within 7 days and submit the analysis results to the Monitoring Committee within 21 days.**

6-A Inspection of industries of Faridabad and Panipat area

With regard to action to be taken on the directions of the Executing Committee during its visit to Faridabad area on 3rd and 4th March, 2020, it was submitted that inspection of illegal dyeing units was conducted by the joint team constituted by District Magistrate, Faridabad and based on the report, electric connection of 5 units have been disconnected, 12 units have been closed, environmental compensation amounting to Rs.1.81 crores has been imposed on 10 units.

Regarding control of pollution in Panipat area, it was reported that HSPCB has issued closure order to 139 industrial units, closure notices to 19 units and show cause notices to 24 industries. Besides, environmental compensation amounting to Rs. 1.21 crores has been imposed and Rs.37.87 lakh has been recovered. Also, in the special drive with regard to inspection of dyeing and bleaching industries of Panipat area, out 127 units inspected during the drive, 62 units were found dismantled, 48 industrial units were resealed and electric connection of 17 newly identified units have been disconnected.

The Monitoring Committee noted the compliance and action of HSPCB.

7.

Implementation of irrigation schemes to utilize treated sewage for irrigation and irrigation schemes which are under construction/planning.

It was submitted that the Department of Irrigation, State of Haryana has prepared consolidated projects for river Ghaggar and Yamuna to utilize the treated sewage of 207 STPs with an estimate cost of Rs.1098.25 crores. **Presently, as per the policy decision of the State Government, Thermal Power Plants within 50 Kms radius are required to utilize treated sewage of STPs, which has been assessed as 145 MLD.**

Further, out of 207 STPs, 35 STPs have been selected to utilize their treated sewage (338.85 MLD) for irrigation through micro irrigation schemes and the project shall be completed within 2 years. Further, the consolidated project for the remaining STPs shall be completed within 5 years.

It was suggested in the meeting that the treated sewage may be utilized for other activities like construction activities, watering of parks/gardens/horticulture area, cleaning of roads, flushing of toilets and washing of vehicles.

After detailed discussion, it was directed as under.

- i) **For utilization of treated sewage (338.85 MLD) of 35 STPs for which irrigation schemes have been prepared, priority may be given to the STPs of the towns which are located on river Yamuna and these irrigation schemes may be completed by 30.6.2021 by the Department of Irrigation.**
- ii) **Irrigation schemes to utilize the treated sewage of 58 STPs for the towns, located in the catchment area of river Yamuna, shall be prepared by the Department by 30.9.2020.**
- ii) **Irrigation network to utilize the treated sewage of the STPs should be laid simultaneously with the construction of STPs so that irrigation schemes may be commissioned simultaneously with the commissioning of the STPs.**

8.

Non point sources and control of pollution of these sources.

No data has been provided w.r.t Non point sources in river Yamuna.

The Chairman of the Monitoring Committee observed that identification of Non-point sources into river Yamuna is an imperative task as the number of illegal discharges, containing toxic or highly organic effluent, are discharged by the miscreants. Such Non point sources may include discharge of sludge/effluent of illegal established industries, deposition of solid waste in the river or drains etc.

The detailed discussion on the issue was held and it was directed as under: -

The Department of Science & Technology, Haryana shall constitute Committee under the chairmanship of the Deputy Commissioners of the concerned Districts and other members of the Committee shall be from the Department of PHED, ULB, HSPCB, HSVP, GMDA and Police

Department and these committees shall identify various sources of Non- point sources into river Yamuna in the jurisdiction of various Districts and submit the consolidated report to the Monitoring Committee within 2 months. HSPCB shall coordinate the matter.

9. **Status of installation of sewage treatment plant for the villages.**

It was reported that 277 villages have been identified in the catchment area of river Yamuna. The discharge of sewage/sullage from these villages is 90 MLD. The work of diversion/treatment of sewage has been completed in 22 villages. The data provided by the Panchayats Department indicate that in most of the villages, the work of STPs has not been started so far. Moreover, no project cost of the STPs for the villages has been mentioned.

After discussion on the issue, the Chairman of the Monitoring Committee directed as under:

- i) **Construction work of STPs in the villages may be started in phased manner and ensure that STPs for 277 villages should be completed by 31.3.2021.**
- ii) **The treated sewage of the villages may be utilized for irrigation of agriculture purposes.**

10. **Gaps in treatment of sewage of the town located on river Yamuna.**

The data w.r.t 34 towns located on river Yamuna has been provided, which include: total quantity of sewage generation in the town (80 % of the consumption of water), number of STPs and their capacity installed to treat the sewage of the towns, STPs under construction and proposed, total capacity of STPs and gap in treatment of sewage.

The perusal of the data indicates that there is gap in treatment of sewage in the towns Indri (0.8 MLD), Samalkha (0.5 MLD), Beri (0.1 MLD), Faridabad (171 MLD) and Palwal (9 MLD) and the total gap in treatment of sewage has been mentioned as 181.4 MLD.

Public Health Engineer Department, Haryana vide its statement dated 28.7.2020 (received through mail) has claimed that there is no gap in treatment of sewage w.r.t Beri and Samikhatowns, whereas gap in treatment of sewage in the case of Indri and Palwal towns is 0.08 MLD and 3.82 MLD, respectively, instead of 0.8 MLD and 9 MLD as mentioned in the data provided to the Monitoring Committee. After considering the statement of Public Health Engineer Department, the net gap in the treatment of sewage remains 175 MLD, out of which major gap in treatment of sewage is of Faridabad (171 MLD).

It was further submitted as under:

- Construction work of STPs of capacity 80 MLD and 100 MLD to treat sewage of Faridabad shall be allotted to the agency by 15.8.2020 and completed by 30.6.2021.

- In order to treat the gap in sewage of Indri town (0.08 MLD), new STP of capacity 4 MLD shall be completed by 31.12.2020 and for Palwal town having gap sewage discharge of 3.82 MLD, STP shall be installed by department of Urban Local Bodies by 31.12.2020.
- After the completion of these STPs(80 MLD, 100 MLD, 0.08 MLD and 3.82 MLD), there shall be no gap in the treatment of sewage in the town.

After detailed deliberation on the issue, the Chairman of the Monitoring Committee directed as under:

- The Department of Urban Local Bodies shall allot construction work of 02 STPs of capacity 80 MLD and 100 MLD of Faridabad to treat gap in sewage of 171 MLD by 15.8.2020 and these STPs shall be completed by 30.6.2021.**
- In order to treat 0.08 MLD gap in sewage quantity of Indri town, 4 MLD capacity STP shall be completed by the Public Health Engineering Department by 31.12.2020.**
- For treatment of 3.82 MLD gap in sewage of Palwal town, 27.5 MLD STP shall be completed by the Public Health Engineering Department by 31.12.2020.**

11. **Ground water quality in the catchment area of river Yamuna.**

The groundwater quality monitoring data analyzed by HSPCB for the towns Yamuna Nagar, Karnal, Panipat, Sonipat, Bahadurgarh, Gurugram North, Gurugram South, Nuh, Palwal, Ballabgarh and Faridabad, located in the catchment area of river Yamuna, indicate that water quality of the groundwater sources installed at the following points were found non-compliance w.r.t Chloride, Calcium and TDS parameters.

- ✓ Near Western Yamuna canal near village Rohat, District Sonipat (**Chloride : 294 mg/l**)
- ✓ Groundwater of Village Nathupur(**Chloride : 264 mg/l**).
- ✓ Village Akbarpur Barouta, Sonipat (**Chloride : 288mg/l**).
- ✓ Hand pump opposite so many ceramics Ltd. sector-16, HSIIDC, Bahadurgarh(**TDS : 3500 mg/l and Calcium : 280 mg/l**).
- ✓ Tubewell of Hotel Teej near BCCI office, Bahadurgarh(**TDS :6650 mg/l and Chloride : 320 mg/l**).
- ✓ Tubewell of Rohit steels, HSIIDC, Kutana, Rohtak (**TDS: 2980 mg/l, Calcium: 300 mg/l**).
- ✓ Hand pump near JLN canal, Rohtak (**Calcium : 320 mg/l**)
- ✓ Hand pump In front of Mini secretariat, Jhaggar(**Calcium : 290 mg/l**).
- ✓ Hand pump near water works of PHED, Sampla, District Rohtak (**Calcium : 270 mg/l**).
- ✓ Tubewell at entry gate of Ansal Pioneer Industrial park, Bilaspur, Gurugram (**Chloride : 560 mg/l, Calcium : 560 mg/l**).

- ✓ Tubewell of Suresh S/o Shri Nathi at village Dudhola, Palwal (TDS : 2210 mg/l, Chloride : 630 mg/l).
- ✓ Tube at Prithla, Palwal (Chloride: 280 mg/l).
- ✓ Thermal power Plant, Palwal (Chloride: 290 mg/l).
- ✓ Tubewell near Sandeep Axel at village Mohla(Chloride: 340 mg/l).
- ✓ Government tubewell sector-59, PragtiVihar, Balhabgarh(Chloride: 310 mg/l).
- ✓ Tubewel of ParmvirDagar near Power house, sector-58, Faridabad (Chloride : 290 mg/l).
- ✓ TubewellPower house colony, sector-23, Faridabad (Chloride : 280 mg/l)
- ✓ Tubewell at Government High School, Sihi, sector-7, Faridabad (Chloride : 270 mg/l).

After detailed discussion, the Chairman of the Monitoring Committee directed as under:

- i) **HSPCB shall identify all the above points and seal these ground water sources within 15 days and display board mentioning "water is not fit for drinking" may be erected at the said locations.**
- ii) **HSPCB shall analyze the ground water samples of ground water sources located in the catchment area of river Yamuna with the frequency as fixed by the Hon'ble NGT.**

12.

Environmental Flow

It was submitted as under:

- National Institute of Hydrology has prepared its report and submitted that environmental flow in river Yamuna may be maintained by releasing 22.81 to 44.45 cumec of water from Hathinkund Barrage during January to June and 24.32 to 43.46 cumecs of water during October to December, which cannot be maintained due to water scarcity in the State.
- State of Haryana has agreed to maintain minimum flow of 10 cumec to maintain E-Flow in the river Yamuna.
- E-Flow of 10 cumecs can be progressively increased on the construction of upstream storage dams, which may be probably constructed by 2025, till then 10 cumec E-Flow shall be maintained in river Yamuna.

It was suggested in the meeting that e-flow can be maintained by providing storage ponds/retaining structures, check dams etc. so as to store the excess rain water during rainy season and the same can be discharged in the river Yamuna in a regulated manner for whole of the year to maintain e-flow in the river.

After detailed discussion, the Chairman of the Monitoring Committee directed as under:

- i) **The Department of Irrigation, State of Haryana shall ensure that 10 cumec of water is released from Hathinkund Barrage for**

whole of the year to maintain environmental flow in the river Yamuna.

- ii) The State of Haryana shall construct proposed storage dams to store the excess flow of rain water during rainy season and maintain the regulated flow in river Yamuna for whole of the year, by the year 2025 and thereafter the present quantity of 10 cumec of water, being released in river Yamuna, may be increased substantially.
- iii) The Department of Irrigation shall construct small storage ponds/retaining structures in the catchment area of river Yamuna to retain the excess rainwater during rainy season and it may be discharged in a regulated way during non-monsoon period to maintain environmental flow in the river.

13. **Seepage and faecal sludge management.**

It was reported that 31 Urban Local Bodies, falling in the catchment area of river Yamuna, has notified their policy for septage management. The data providing to the Monitoring Committee w.r.t. generation of septage and faecal sludge and their transportation through tankers to the STPs indicate that from January 2020 to May, 2020 about 14-35 MLD of sewage has been discharged into STPs. In order to carry the septage/faecal sludge, 166 private tankers and 23 tankers of Municipal Councils, have been deployed.

The matter has been discussed in detail and it has been directed as under:

The Department of Science & Technology shall constitute Committee of the officers from the Department of Urban Local Bodies, HSVP, PHED and Development of Panchayats to conduct study w.r.t quantify the discharge of septage and faecal sludge generated from various areas, capacity of STPs in the nearby vicinity, quantity of sewage to be treated in the STPs, concentration of BOD and faecal coliform in the septage/faecal sludge and quantity of septage/faecal sludge to be treated at the STPs. A document for guidance may be prepared and be circulated among all the operators of STPs of the towns located in the catchment area of river Yamuna. The said study may be completed within 2 months.

14. **Installation of CETPs and their operation.**

It was reported that 14 CETPs are located in the catchment area of river Yamuna, out of which 03 STPs have been found non-complying w.r.t. various parameters. The capacity of these 14 STPs is 161.5 MLD. The details of these CETPs are as under: -

- HSVP has set up 2 CETPs of capacity 42 MLD.
- HSIIDC has installed 10 CETPs of capacity 118.7 MLD.

- Private agencies have set up 02 CETPs of capacity 0.8 MLD.
- Out of these 14 CETPs, 2 CETPs of HSVP, 01 of HSIIDC are not complying with the prescribed standards.

After detailed discussion, the Chairman of the Monitoring Committee directed as under:

HSPCB shall submit the details of the CETPs installed by each Departments w.r.t. category and number of industries in each cluster joining to CETPs, mode of disposal of treated effluent of CETPs, quantity and management of the sludge of CETPs and analysis results of last monitoring of CETPs within 15 days to the Monitoring Committee.

15. In-situ bio- remediation in the drains

It was informed that the Hon'ble National Green Tribunal in its order dated 6.12.2019 in OA No. 673 of 2018 has directed to ensure 100% treatment of sewage at least through in-situ bio-remediation in the drains carrying untreated sewage which are not connected to any STPs by 31.3.2020, failing which penalty of Rs. 5 lakh per month per drain shall be imposed.

It was submitted that meeting of the stakeholder departments was held on 4.11.2019, wherein the agencies for executing the bio-remediation works in a specific drains were identified. In the meeting, two departments for each drain were made responsible to provide in-situ remediation in the drains.

The details of in-situ remediation to be provided in the drains are 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.	BudhiyaNalah	ULBD, HSIIDC	Faridabad	ULBD
11.	Guanchi	ULBD, PHED (For discharge of village Hodal and Hathin).	Faridabad	ULBD

Detailed discussion on the issue was held and it was directed that all the concerned departments shall install in-situ remediation techniques in the drains carrying untreated sewage and not connected to any STP immediately and a report in this regard be submitted to the Monitoring Committee.

16 Status of laying of sewerage network and interception of sewage.

It was reported that in 34 towns, 1544 Kms of sewer line was proposed to be laid, out of which 983 Kms length of sewer line has been laid so far, completing sewerage system in 20 towns. Sewer line in remaining 14 towns is being laid and shall be completed by 31.12.2020. Sewerage system for the towns (Berry and Panipat) shall be delayed and shall be laid by 31.3.2021.

For interception of sewage, 91.7 MLD of effluent was proposed to be tapped/diverted at 128 locations, out of which 12.51 MLD effluent has been diverted at 38 locations. The work is under progress at 37 locations, whereas, no work has been started at 53 locations. Therefore, 79.235 MLD sewerage is yet to be diverted from 90 locations.

Similarly, quantity of sewage diverted from Leg-1, Leg- II and Leg -III drains was mentioned as under.

Leg-I

Out of total discharge 22.80 MLD to be diverted, 14.2 MLD sewage has been diverted and the remaining 8.6 MLD sewage from 6 points shall be diverted soon

Leg-II

Out of total sewage discharge 35.64 MLD to be diverted, 27.84 MLD sewage has been diverted and the remaining 7.6 MLD sewage from 5 points shall be diverted soon

Leg-III

Out of total sewage discharge 80.25 MLD to be diverted, 45.35 MLD sewage has been diverted and the remaining 34.90 MLD sewage from 38 points shall be diverted in a time bound manner.

After detailed discussion, the Chairman of the Monitoring Committee directed as under.

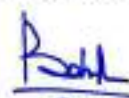
- **79.235 MLD effluent from the remaining 90 locations shall be diverted to the nearby STPs by 31.12.2020.**
- **8.6 MLD sewage from 6 points in Leg-I drain, 7.6 MLD sewage from 5 points in Leg-II drain and 34.90 MLD sewage from 38 points in Leg- III drain shall diverted to nearby sewerage system leading to STPs by 31.03.2021.**

Sd/-
Dr Babu Ram

Sd/-
Ms. Urvashi Gulati

Sd/-
Justice Pritam Pal,
Former Judge Punjab and Haryana
High Court and now as Chairman of
the Monitoring Committee

Note: The Members of the Monitoring Committee have given their concurrence on the Minutes of the meeting.


30/7/2020

List of participants for Video Conferencing held at 1100 Hrs on 28.07.2020 under the Chairmanship of Justice Pritam Pal to review the progress of Yamuna Action Plan in OA No. 673/2018 and OA No. 6/2012

Sr. No.	Name and Designation
1.	Sh. VS Kundu, IAS, CEO, GMDA, Gurugram.
2.	Smt. Dheera Khandelwal, IAS, Environment Department, Haryana, Chandigarh.
3.	Sh. AK Singh, IAS, PS, Town & Country Planning Department, Haryana and Industries & Commerce Department, Haryana, Chandigarh.
4.	Sh. Sudhir Rajpal, IAS, PS, D & P Department, Haryana, Chandigarh.
5.	Sh. Ashok Kheterpal, Chairman, HSPCB, Panchkula
6.	Sh. S. Narayanan, IFS, Member Secretary, HSPCB, Panchkula.
7.	Sh. Manpal Singh, EIC, PHED, Panchkula.
8.	Sh. Pardeep Kumar, Chief Engineer, GMDA, Gurugram.
9.	Sh. PK Garg, GM, HSIIDC, Panchkula.
10.	Sh. Shankar Jindal, Chief Engineer, D & P, Haryana, Chandigarh.
11.	Sh. DR Bhaskar, Chief Engineer, Urban Local Bodies Department, Panchkula.
12.	Sh. Naresh Pawar, Chief Engineer, HSVP, Panchkula.
13.	Sh. VK Kalra, Chief Engineer, HSVP, Panchkula
14.	Sh. KK Verma, Chief Engineer, PHED, Panchkula.
15.	Sh. Rajesh Bansal, Supdt. Engineer, GMDA, Gurugram.
16.	Sh. JP Singh, SEE, HSPCB, Panchkula.
17.	Sh. Ranbir Singh, XEN, ULBD, Panchkula.
18.	Dr. Kirti Grow, Scientist B, HSPCB, Panchkula