



HSPCB

No. HSPCB/WC/6046-6052

To

HARYANA STATE POLLUTION CONTROL BOARD

C-11, SECTOR-6, PANCHKULA

Ph. 0172-2577870-73

E-mail: hspcbho@gmail.com

Dated:- 31-12-2020

1. The Additional Chief Secretary Environment Department, Govt. of Haryana, Chandigarh
2. The Additional Chief Secretary, Public Health Engineering Department, Govt. of Haryana, Chandigarh.
3. The Additional Chief Secretary, Irrigation Department, Govt. of Haryana, Chandigarh.
4. The Additional Chief Secretary, Urban Local Bodies Department, Govt. of Haryana, Chandigarh.
5. The Principal Secretary, Development & Panchayat Department, Haryana Chandigarh.
6. The Principal Secretary, Town & Country Planning Department, Haryana Chandigarh.
7. The Principal Secretary, Industries Department, Haryana, Chandigarh.

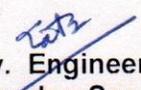
Sub: Proceedings of the meeting to review the effluent and water quality data of point sources, major drains and river Ghaggar at upstream and downstream of confluence of point sources and major drains with river Ghaggar as directed during the last meeting held on 19.11.2020 to be held under the Chairmanship of Justice Pritam Pal, Former Judge of Punjab and Haryana High Court and now as Chairman of the Executing Committee, constituted by Hon'ble NGT in OA No. 138/139 of 2016 in the matter of Stench Grips Mansa's Sacred Ghaggar River and Yogendera Kumar, w.r.t. control of pollution in river Ghaggar on 24.12.2020 at 11.00 AM.

Sir,

Kindly refer to letter No. CEC/2020/1156 dated 26.12.2020 (Copy enclosed) on the subject noted above.

In this connection, I have been directed to enclose herewith the copy of proceedings of the meeting to review the effluent and water quality data of point sources, major drains and river Ghaggar at upstream and downstream of confluence of point sources and major drains with river Ghaggar as directed during the last meeting held on 19.11.2020 to be held under the Chairmanship of Justice Pritam Pal, Former Judge of Punjab and Haryana High Court and now as Chairman of the Executing Committee, constituted by Hon'ble NGT in OA No. 138/139 of 2016 in the matter of Stench Grips Mansa's Sacred Ghaggar River and Yogendera Kumar, w.r.t. control of pollution in river Ghaggar on 24.12.2020 at 11.00 AM for your information and further necessary action please.

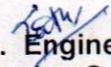
DA/As above


Sr. Env. Engineer (HQ)
For Member Secretary

Endst No. HSPCB/WC/ 6053-6058

Dated:- 31-12-2020

A copy of the above is forwarded to Regional Officer, Panchkula, Ambala, Kurukshetra, Kaithal, Jind and Hisar for information and further necessary action please.
DA/As above


Sr. Env. Engineer (HQ)
For Member Secretary

OFFICE OF THE EXECUTING COMMITTEE

Constituted by the Hon'ble National Green Tribunal in Original Application no. OA No.138 of 2016 and 139 of 2016 and 606 of 2018

(Official Address: Tower No.5, 4th Floor, Forest Complex,
Sector 68, SAS Nagar) Tel. No. 0172-2298091
Email: ceccswm606@gmail.com

To

The Member Secretary,
Punjab Pollution Control Board,
Patiala.

No. CEC/2020/ *1156*
Dated: 26.12.2020

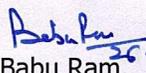
Subject: Minutes of the review meeting (to review the effluent and water quality data of point sources, major drains and river Ghaggar at upstream and downstream of confluence of point sources and major drains with river Ghaggar as directed during the last meeting held on 19.11.2020) held under the Chairmanship of Justice Pritam Pal, Former Judge of Punjab and Haryana High Court and now as Chairman of the Executing Committee, constituted by Hon'ble NGT in O.A. no. 138 and 139 of 2016 in the matter of Stench Grips Mansa's Sacred Ghaggar River and Yogendera Kumar, w.r.t control of pollution in river Ghaggar on 24.12.2020 at 11:00 AM (through video conferencing).

Please find enclosed herewith minutes of the review meeting (to review the effluent and water quality data of point sources, major drains and river Ghaggar at upstream and downstream of confluence of point sources and major drains with river Ghaggar as directed during the last meeting held on 19.11.2020) held under the Chairmanship of Justice Pritam Pal, Former Judge of Punjab and Haryana High Court and now as Chairman of the Executing Committee, constituted by Hon'ble NGT in O.A. no. 138 and 139 of 2016 in the matter of Stench Grips Mansa's Sacred Ghaggar River and Yogendera Kumar, w.r.t control of pollution in river Ghaggar on 24.12.2020 at 11:00 AM (through video conferencing).

It is requested that the list of the officers of various departments, present in the meeting, may be annexed with the minutes of the meeting marking it as **Annexure-1.**

It is further requested that the minutes of the meeting may kindly be conveyed under your signature to all the concerned departments of State of Himachal Pradesh, Haryana, Punjab and U.T Chandigarh to comply with the directions given by the Chairman of the Executing Committee on the points relating to their departments in a time bound manner and submit the action taken report within 21 days.

DA/as above

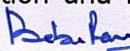

26.12.2020
Dr. Babu Ram,
Technical Expert,
Executing Committee

Endst, No. CEC/EC/2020/ 1157

Dated: 26.12.2020

A copy of the above is forwarded to the Member Secretary, Haryana State Pollution Control Board, C-11, Sector 6 Panchkula for information and necessary action please.

DA/as above

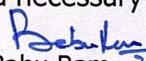

Dr. Babu Ram, 26.12.2020
Technical Expert,
Executing Committee

Endst, No. CEC/EC/2020/ 1158

Dated: 26.12.2020

A copy of the above is forwarded to the Member Secretary, Himachal Pradesh State Pollution Control Board, Shimla for information and necessary action please.

DA/as above

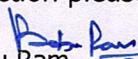

Dr. Babu Ram, 26.12.2020
Technical Expert,
Executing Committee

Endst, No. CEC/EC/2020/ 1159

Dated: 26.12.2020

A copy of the above is forwarded to the Member Secretary, Chandigarh Pollution Control Board, Chandigarh for information and necessary action please.

DA/as above


Dr. Babu Ram, 26.12.2020
Technical Expert,
Executing Committee

Minutes of the review meeting (to review the effluent and water quality data of point sources, major drains and river Ghaggar at upstream and downstream of confluence of point sources and major drains with river Ghaggar as directed during the last meeting held on 19.11.2020) held under the Chairmanship of Justice Pritam Pal, Former Judge of Punjab and Haryana High Court and now as Chairman of the Executing Committee, constituted by Hon'ble NGT in O.A. no. 138 and 139 of 2016 in the matter of Stench Grips Mansa's Sacred Ghaggar River and Yogendera Kumar, w.r.t control of pollution in river Ghaggar on 24.12.2020 at 11:00 AM (through video conferencing).

The following were presented in the meeting:

a. Members of the Executing 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.	Sh. J.C. Babu, Scientist – E, CPCB	Member
4.	Dr. Babu Ram, former Member Secretary, PPCB	Technical Expert

b. The list of the officers, present in the meeting, is annexed as per Annexure-1.

The Chairman of the monitoring committee apprised that in the last meeting held on 19.11.2020, PPCB had informed that water quality of river Ghaggar was monitored in the year 2019 and 2020 and data was compared for the period August to October, 2019 and August to October, 2020 and it indicated that there was no improvement in the water quality of river Ghaggar except 2 locations where also no significant improvement was observed w.r.t. BOD and T.Coli parameters. Further, water quality of river Ghaggar indicated that its quality varied between D to E as per the water quality criteria prescribed by CPCB.

PPCB had further informed that the Board has also carried out the water quality monitoring of major drains and river Ghaggar at the upstream and downstream of the confluence points of major drains and in these major drains, all the parameters have been found much higher and there is deterioration in the water quality of the drains and ultimately these have deteriorated the water quality of river Ghaggar.

The Executing Committee had observed that there is need to carry out the detailed monitoring of point sources falling into river Ghaggar and the responsible agencies contributing high values of parameters are to be identified so that these agencies be directed to take time bound action to bring down the values of the various parameters within the norms. However, PPCB had reported that monitoring of point sources, falling into river Ghaggar, has been completed and the report is under preparation and most likely, the report shall be ready within 15 days.

Accordingly, the Chairman of the Executing Committee had directed that next meeting of the Executing Committee shall be held on 24.12.2020, wherein, Punjab Pollution Control Board shall present the report in detail. PPCB shall also call the concerned departments to attend the

meeting. Copy of the report may be sent to the Executing Committee at least 10 days before the date of meeting.

Now, the team constituted by the Executing Committee has conducted detailed survey of the area w.r.t identification of each drain / point source entering into river Ghaggar starting from exit point of Himachal Pradesh, entry point in UT, Chandigarh, Haryana, Punjab and again in Haryana area till it enters into Rajasthan. The team has prepared its detailed report and submitted to the Executing Committee. The Chairman of the Executing Committee appreciated the efforts made by the team (consisting of officers of Punjab Pollution Control Board and Haryana State Pollution Control Board) for conducting detailed study, preparation of detailed report and its well documentation.

Thereafter, pointwise sources of pollution in river Ghaggar were taken up for discussion as under:

1. Water quality of river Ghaggar, river Kaushalya at boundary of Haryana and Himachal Pradesh, solid waste dumping on the bank of river Kaushalya and Sukhna drain:

It was reported that the water quality of river Ghaggar has been monitored at the boundary of Haryana and Himachal Pradesh and river Kaushalya and it was observed that the value of BOD, COD, TSS & T.Coli were observed as 2.6-3.6 mg/l, 18.4-22.8 mg/l, 8-11 mg/l & 2,32,000-2,42,000 MPN/100 ml. It was observed that the value of BOD, COD & TSS are low, whereas, the value of T.Coli is quite high, which may be probably due to the location of slum areas (Juggies) on the bank of the river, washing of clothes by the inhabitants and encroachment on the banks.

The Chairman of the Monitoring Committee directed as under:

- i) **The Department of Panchayat, Haryana shall provide proper sanitation system for slum area located on river Kaushalya and its nearby areas and shall make efforts to remove the encroachment on the river banks within 2 months so as to improve the water quality of river Ghaggar at the said location w.r.t T. Coli parameter.**
- ii) **The solid waste lying dumped along the river Ghaggar and river Kaushalya at the boundary of Haryana and Himachal Pradesh shall be removed by the Municipal Corporation, Panchkula and Municipal Council, Parwanoo (H.P) by 15/1/2021.**
- iii) **The District Administration, Panchkula and Solan shall impose restriction on washing of clothes and vehicles on banks of river Kaushalya and its nearby areas within 1 month.**

2. Solid waste dumping on the bank of river Kaushalya and its sub-drains.

The Executing Committee observed that in the report, it has been mentioned that lot of gunny bags and solid waste have been dumped on the bank of sub drains of river Kaushalya before its confluence to river Ghaggar and these are required to be removed immediately.

It was directed by the Executing Committee that Deptt. of Panchayat, Haryana shall remove solid waste lying on the bank of sub drains of river Kaushalya by 15/1/2021.

3. Monitoring of water quality of Sukhna drain / Jhajjra Nadi:

The analysis results, as mentioned in the report, indicated that the value of BOD, COD, TSS and T.Coli were observed as 16 mg/l, 67.2 mg/l, 32 mg/l and 3,45,000 MPN/100 ml. Besides, it has been informed that waste material such as clothes, plastic packaging material were found littered at the bed of Sukhna drain and this solid waste has been disposed of by the people residing along the bank of drain in Kalka area.

The Chairman of the Monitoring Committee directed that the Deptt. of Panchayat, Haryana shall remove solid waste from the bank of Sukhna drain in Kalka area by 15/1/2021 and shall continue to remove solid waste from Sukhna drains on quarterly basis.

4. Discharge of untreated wastewater from the colonies like Khilla colony, Bharon ki Sher, Khatig Mohalla into Jhajjra Nadi and littering of plastic and clothes in the river bed:

It was informed that sewage of the colonies namely Khilla colony, Bharon ki Sher, Khatig Mohalla is released into Jhajjar Nadi, which further finds its way into sub soil and contaminating the ground water quality. Moreover, the disposal of plastic and clothes in the Jhajjra river has also affected the water quality of the river.

After detailed discussion, it was directed as under:

- **HSVP, Haryana shall tap the wastewater of the colonies namely Khila colony, Bharon ki Sher, Khatig Mohalla by 31.1.2021 and shall be connected to the nearby STP or shall make arrangements to provide in-situ remediation technology for the treatment of sewage of these colonies till the arrangements for connectivity to STP is made.**
- **Municipal Corporation, Kalka shall make immediate arrangements for the removal of plastic and waste clothes littered in the Jhajjra nadi by 15/1/2021 and shall continue to remove solid waste from Jhajjra Nadi on quarterly basis.**

5. Disposal of untreated sewage of colonies of Kalka area:

It has been mentioned in the report that the untreated sewage of Gurbax colony, Railway colony, Bangali Basti is discharged into drain which leads to Jhajjra Nadi. Public Health Engineering Department of Haryana has installed STP of capacity 0.25 MLD at Kalka and the sewage of these colonies is required to be tapped and routed to the STP.

Besides, untreated sewage and solid waste of Khatig Mohalla and DCW colony, Surajpur and Mahadev Colony is discharged into Jhajjra Nadi, which ultimately meets to river Kaushalya. The analysis results of the effluent samples collected from BCW colony indicate that the value of BOD, COD and TSS were observed as 230 mg/l, 752 mg/l & 256 mg/l, respectively.

The Executing Committee apprehended that there is quite possibility that some industrial effluent is being discharged into Jhajjar Nadi, which has increased value of BOD, COD and TSS.

After detailed discussion, it was directed as under:

- i) HSPCB, Regional Office, Panchkula shall identify the polluters contributing high value of BOD, COD & TSS in Jhajjra Nadi in Surajpur area within 15 days.**
- ii) Department of Panchayat, Haryana shall install STP to treat the sewage of the colonies namely Khatig Mohalla, DCW colony, Mahadev Colony, Surajpur by 31/3/2021.**
- iii) The solid waste lying dumped in Jhajjra Nadi shall be removed by the Deptt. of Panchayats, Haryana by 15/1/2021 shall continue to remove solid waste from Jhajjra Nadi on quarterly basis.**

6. Disposal of solid waste in the rivulet adjoining Village Bhoria:

In the report, it has been mentioned that solid waste was found dumped in rivulet adjoining to Village Bhoria, Panchkula, which further leads to river Ghaggar.

It was directed by the Executing Committee that the Deptt. of Panchayats, Haryana shall remove the solid waste lying dumped in the rivulet by 15/1/2021 and shall continue to remove solid waste from the rivulet on quarterly basis.

7. Disposal of untreated sewage of Mansa Devi complex Sectors and Manimajra area into Manimajra complex drain:

It was informed that effluent quality of sewage of Mansa Devi Complex and Manimajra Complex indicated the value of BOD, COD and TSS were observed as 90 mg/l, 286 mg/l, 146 mg/l and 110 mg/l, 324.8 mg/l, 140 mg/l, respectively.

It was informed that in order to treat the sewage of Mansa Devi Complex sectors, separate STP has been proposed. The area of Manimajra falls under U.T., Chandigarh.

After discussions on the issue, it was directed as under:

- i) Municipal Corporation, Panchkula shall install STP of adequate capacity for treatment of sewage of Mansa Devi complex sectors by 31/3/2021.**
- ii) For the treatment of sewage of Manimajra complex, STP of adequate capacity shall be installed by Municipal Corporation, Chandigarh by 31/3/2021.**

8. Discharge of untreated sewage of Sector-17, Panchkula into MDC drain:

It has been mentioned in the report as under:

- Sewage of Sector-17, Panchkula and solid waste is disposed of into MDC drain. The effluent samples collected from the drain indicated the value of BOD, COD and TSS as 130 mg/l, 401 mg/l and 138 mg/l, respectively. Lot of solid waste was found thrown into MDC drain at bridge near Sector-17, Panchkula.
- From MDC drain at boundary of Haryana and Punjab, effluent sample was collected and its analysis results indicate that the values of BOD, COD and F.coli were found as 16 mg/l, 68 mg/l and 4600 MPN/100 ml.

After detailed discussions, it was directed as under:

- i) **HSVP shall tap the wastewater of Sector-17, Panchkula and the same shall be routed to STP located at Sector-20, Panchkula by 31/1/2021.**
- ii) **The solid waste lying accumulated in MDC drain at bridge near Sector-17 and near Mandir in Shivalik Vihar, Panchkula shall be removed by the Municipal Corporation, Panchkula by 15/1/2021 and shall continue to remove solid waste on quarterly basis.**
- ii) **The solid waste lying dumped in the parking area meant for vehicles in the vacant plot should be removed by Department of Panchayat by 15/1/2021 and greenery should be developed along the bank of the drain.**

9. Quality of wastewater in Sukhna Choe at the boundary of U.T., Chandigarh & State of Punjab and border of Haryana and U.T., Chandigarh:

The Sub-committee has collected the wastewater samples from Sukhna choe at the boundary of UT, Chandigarh and Punjab and border of Haryana and UT, Chandigarh and their analysis results indicate that the value of BOD, COD and F.coli were observed as 117 mg/l, 470 mg/l and 63000 MPN/100 ml and 131 mg/l, 525 mg/l and 63000 MPN/100 ml, respectively. It was further informed that there is possibility of discharge of industrial effluent of Industrial area, Chandigarh into Sukhna Choe and it needs to be ascertained.

It was informed that Municipal Corporation, Chandigarh is in the process of upgradation of 5 existing STPs, the work of which has been allotted. The upgradation work of these STPs shall be completed by 31/3/2021. Thereafter, there may be improvement in the water quality of Sukhna choe.

After discussion on the issue, it was directed as under:

- i) **Municipal Corporation, Chandigarh shall complete the upgradation work of 5 existing STPs by 31/3/2021.**
- ii) **The solid waste lying dumped in MDC drain at the boundaries of Punjab, Haryana and UT, Chandigarh shall be jointly removed by the Municipal Corporation, Panchkula, Municipal Corporation, Mohali and Municipal Corporation, Chandigarh by 15/1/2021 on campaign basis. HSPCB shall coordinate the matter.**
- iii) **Joint team consisting of Sh. S.S. Matharu, Environmental Engineer, PPCB; Sh. J.P. Singh, Senior Environmental Engineer, HSPCB, Sh. Vivek Panday, Scientist, CPCC and J.C.Babu, Scientist -E, CPCB shall jointly survey the area and identify the sources of pollution contributing high values of organic parameters into Sukhna Choe within 21 days.**

10. Disposal of untreated sewage of Industrial area, Phase-II, Panchkula:

It has been mentioned in the document/report that the effluent sample from K-area drain, originating near industrial area, Phase-II, Panchkula and after passing through habitation area of Panchkula, converges into Sukhna Choe, was analyzed and the analysis results indicate that the value of BOD, COD and F.coli were observed as 240 mg/l, 960 mg/l and 27000

MPN/100ml. The values of these parameters were further reduced to 25 mg/l, 90 mg/l and 17000 MPN/100ml, respectively, in Harmilap colony area near railway line and further to 24 mg/l, 96 mg/l and 7000 MPN/100 ml, respectively, in military area.

After discussion on the issue, it was directed that HSVP, Haryana shall connect untreated sewage of Industrial area, Phase-II, Panchkula with STP installed at Sector-20, Panchkula by 31/1/2021.

11. Discharge of untreated sewage in Singh Nallah.

It was informed that the sewage of Village Abhaypur and Sector-14, 15 and Industrial Area, Phase-I, Panchkula is discharged into Singh Nallah. The analysis results of effluent samples collected from the discharge of Village Abhaypur and Industrial Area, Phase-I, Panchkula and untreated sewage of Sector-14 & 15, Panchkula indicate that the values of BOD, COD and TSS were observed as 62 mg/l, 192.4 mg/l, 133 mg/l; 140 mg/l, 460.4 mg/l, 192 mg/l, respectively. Besides, solid waste was also found dumped near Singh Nallah.

After detailed discussion on the issue, it was directed as under:

- i) **HSVP, Haryana shall connect the untreated sewage of Village Abhaypur, Industrial Area, Phase-I, Panchkula, Sector-14 & 15, Panchkula with STP, Sector-20, Panchkula by 31/1/2021.**
- ii) **Solid waste lying dumped near Singh Nallah shall be removed by the Deptt. of Panchayats, Haryana by 15/1/2021 and shall continue to remove solid waste on quarterly basis.**

12. Discharge of untreated sewage of Krishna Enclave and Mamta Enclave into Singh Nallah leading to river Ghaggar:

In the report, it was mentioned that substantial quantity of untreated wastewater of Krishna Enclave and Mamta Enclave in Zirakpur area is discharged into Singh Nallah. The analysis results of the effluent sample collected from the discharge of Krishna Enclave indicated the value of BOD, COD and F.Coli as 102 mg/l, 149 mg/l and 21000 MPN/100 ml.

R1 PWSSB informed that there is proposal to install new STP of capacity 17 MLD at Zirakpur because the capacity of existing 17 MLD STP has been almost exhausted. In the proposed STP, the sewage of Krishna Enclave and Mamta Enclave shall also be treated. A new STP of capacity 17 MLD shall be installed by 31/3/2022.

It was directed by the Chairman of the Executing Committee that PWSSB shall install new STP of capacity 17 MLD to treat the additional quantity of sewage of Zirakpur area including sewage of Krishna Enclave and Mamta Enclave by 30/6/2021.

13. Discharge of untreated sewage of Sector-21, Panchkula into Gazipur drain leading of Sukhna Choe:

It was reported that the wastewater of Sector-21, Panchkula is discharged into Gazipur drain further leading to Sukhna choe in Zirakpur area. Besides, the untreated sewage of slum area (Jhuggies) is also discharged into Gazipur drain. The analysis results of the effluent samples

collected from the drain indicated the value of BOD, COD and F.coli as 23 mg/l, 101 mg/l and 6300 MPN/100 ml.

It was directed that HSPCB shall identify the reasons for containing high value of F.coli in the sewage of Sector-21, Panchkula and the concerned department be directed to take steps to control F.Coli parameter by 31.1.2021.

14. Quality of wastewater of Ambala drain and Ghel drain:

The data mentioned in the report indicate that wastewater of Ambala city is discharged into river Ghaggar through Ambala drain and Ghel drain. The analysis results of the wastewater samples collected from the Ambala drain and Ghel drain indicated the value of BOD, COD and F.Coli as 28 mg/l, 134 mg/l, 21000 MPN/100 ml and 18 mg/l, 84 mg/l, 4600 MPN/100 ml, respectively.

After discussion on the issue, it was directed that HSVP, Haryana shall take immediate steps to install and commission STPs of Ambala town by 31/1/2021 and all the outlets leading to Ambala drain and Ghel drain should be connected to the STPs of Ambala town by 31/1/2021.

15. Untreated discharge of wastewater of villages into Sular drain, SYL 2-L drain, Chormastpur drain, Baknour drain, Ganda Nallah drain and Mahesh Nagar drain into Markanda / Tangri river:

Biel The analysis results of the effluent samples collected from Sular drain carrying wastewater of villages Kurbanpur, Baranga and Saini Majra; SYL2-L drain carrying wastewater of villages Ismailpur and Naggal; Chormastpur drain carrying wastewater of Chormastpur and village Amipur; Baknour drain carrying wastewater of villages Baknour and Metlan; Ganda Nallah drain carrying wastewater of Begomajra, village Mohri and village Naggal and Mahesh Nagar drain carrying wastewater of village Nanhara and village Nagla indicate that the value of BOD, COD and F.coli were found in the range of 4.6 to 11 mg/l, 18.4 to 42 mg/l and 2000-17000 MPN/100 ml. The Executing Committee has observed that the value of BOD and COD are low, whereas, the value of F.Coli is abnormally high, the reasons of which are to be ascertained by HSPCB and PPCB jointly and thereafter, the necessary directions are required to be given to the concerned department to take action to bring down F.coli parameter within the norms.

After discussion on the issue, it was directed that HSPCB and PPCB jointly identify the reasons for high value of F.Coli parameter in the wastewater samples of the drains (Sular drain, SYL2-L drain, Chormastpur drain, Baknour drain, Ganda Nallah drain and Mahesh Nagar drain) within 15 days. Thereafter, the necessary directions may be issued to the concerned department by PPCB and HSPCB to take action to bring down F.coli parameter within the norms. PPCB shall coordinate the matter.

16. Discharge of untreated sewage of ChUNETIE drain, HATHI KHANA drain, MC drain, Village Nallah, Link drain and JATTAN WALA Nallah into Markanda / Tangri river:

The analysis results of untreated wastewater flowing into the drain namely ChUNETIE drain, HATHI KHANA drain, MC drain, Village Nallah, Link drain and JATTAN WALA Nallah indicate the value

of BOD, COD and F.coli were found varied between 28-160 mg/l, 98.4-565 mg/l and 4000-109000 MPN/100ml, respectively.

After detailed discussion on the issue, it was directed as under.

- i) Deptt. of Panchayats, State of Haryana shall install treatment system for the treatment of sewage of villages discharging their wastewater into Chunetie drain, Hathi Khana drain, MC drain, Village Nallah and Link drain by 31/3/2021.**
- ii) Department of Irrigation and Public Health, State of Himachal Pradesh shall install treatment systems to treat sewage of villages having their discharge into Jattanwala Nallah by 31.3.2021.**

17. Water quality of river Ghaggar and major drains entering into river Ghaggar:

It was informed that 13 major drains namely Sukhna choe, Dera Bassi choe, Jharmal choe, Basauli drain, Bagna drain, Pachisdhara drain, Patiala Nadi, Sagarpara drain, Kaithal drain, Jhambowali choe, Lehra Gagga main, Sirhind choe and Miranwala choe fall into river Ghaggar. The monitoring of these drains was carried out by collecting the effluent samples from the point sources, their upstream and downstream in river Ghaggar. The values of parameters namely BOD, COD and F.coli have been found higher in Sukhna choe, Dera Bassi choe, Jharmal Choe, Patiala Nadi, Sagarpara drain and Jhambowali choe.

After detailed discussion on the issue, it was directed as under.

- i) PPCB and HSPCB shall jointly identify the sources of pollution in the drains namely Sukhna choe, Dera Bassi choe, Jharmal Choe, Patiala Nadi, Sagarpara drain and Jhambowali choe within 1 month.**
- ii) PPCB and HSPCB shall issue necessary directions to the concerned departments to install treatment system to bring down the parameters within the norms by 31.3.2021.**

18. Water quality of point sources entering major drains:

It was reported that the treated / untreated sewage of MCs namely Ghanaur, Sanaur, Bassi Pathana, Sirhind, Sunam, Cheema, Budlada, Nabha, Dhuri, Sangrur, Longowal, Bhikhi, Bareta, Lehragaga, Moonak, Sardulgarh, Khanauri and MES, Patiala is discharged into river Ghaggar.

PWSSB informed as under:

- STPs for the towns Sunam, Budhlada, Bhikhi, Bareta, Lehragaga, Moonak, Sardulgarh and Khanauri have been installed.
- The upgradation work of the STPs, which are not meeting with the prescribed norms, shall be completed after getting necessary funds from the State Govt.
- STPs for the towns Bassi Pathana and Sirhind are under construction and shall be completed at the earliest.

- PPCB reported that STP by MES, Patiala, which is under construction, shall be completed by 31.3.2021.
- STPs for the towns Ghanaur, Sanaur, Cheema, Nabha, Dhuri, Sangrur and Longowal have not been installed. The STPs for these towns shall be installed by 31/3/2022.

After detailed discussions on the issued, it was directed as under:

- PPCB shall conduct the performance study of the existing STPs installed for the towns (Sunam, Budhlada, Bhikhi, Bareta, Lehragaga, Moonak, Sardulgarh and Khanauri) located on river Ghaggar within 15 days.**
- PWSSB and MES, Patiala shall complete the STPs for the towns Bassi Pathana & Sirhind and military cantt., respectively, which are under construction, by 31/3/2021.**
- PWSSB shall resolve the land issues for the STPs within 2 months and construction of STPs may be started at the earliest.**
- The upgradation work of existing STPs, not meeting with the standards, may be completed by 31/3/2021.**
- STPs for the towns, where the land is available, should be completed by 31/3/2021.**

19. Discharge of wastewater of villages into drains leading to river Ghaggar:

In the last meeting held on 19.11.2020, it was informed by the Department of Rural Development and Panchayat that there are 389 villages which are discharging their wastewater directly / indirectly into river Ghaggar. Out of these villages, 87 villages have been covered in Phase-I. Treatment systems in 29 villages have been completed and in 43 villages, the work of STPs is under construction. For the construction of STPs for the remaining 317 villages, funds are being arranged for installation of STPs.

After detailed deliberation, it was directed as under:

- PPCB shall monitor the performance of STPs of 29 villages, for which treatment systems have been installed, within 1 month.**
- STPs for 43 villages, out of 87 villages, covered in Phase-I, shall be completed by 31/12/2020.**
- STPs for the remaining 317 villages shall be completed by 31/3/2021.**

sd/-
Dr. Babu Ram

sd/-
Ms. Urvashi Gulati

sd/-
Justice Pritam Pal, former Judge
Punjab & Haryana High Court
now as Chairman of Executing Committee

Note: The Chairman and members of the Monitoring Committee have given their concurrence on the minutes of the meeting.

Pritam Pal
26.12.2020