

Minutes of 13th meeting of the Executive Committee held on 18.7.2019 at 11.00 am to 1.30 pm at MGSIPA, Sector-26, Chandigarh under the Chairmanship of Justice Pritam Pal, Former Judge, Punjab & Haryana High Court, Chandigarh and now as Chairman of the Executive Committee constituted by the Hon'ble National Green Tribunal, New Delhi in OA No. 138 of 2016 and 139 of 2016 in the matter of "Stench Grips Mansa's Ghaggar River" (Suo-Moto Case) V/s Joginder Kumar with the officers of the U.T Chandigarh, State of Punjab and Haryana.

List of the participants is as per **Annexure-1**.

The following agenda points were taken for discussion in the meeting

1.0 U.T. CHANDIGARH

1.1 Water Quality of N-Choe, status of STP completed & commissioned and closing of the direct outlet into N-Choe and Sukhna Choe leading to river Ghaggar.

The Commissioner, Municipal Corporation, Chandigarh apprised that as per census 2011, the total population of U.T., Chandigarh is 10.54 Lacs and wastewater generation is 54 MGD, of which 53.85 MGD is treated by installing 6 Sewage Treatment Plants (STP) of capacity 11 MGD, 5 MGD, 30 MGD, 1.25 MGD, 1.6 MGD and 5 MGD. It has been further apprised that these STP shall be upgraded to treat the wastewater upto the latest norms by November 2021, for which, presently, the tenders are under process. One STP located at Raipur Kalan of capacity 1.2 MGD, has been proposed to be constructed by 31.7.2019 and the same shall be commissioned by 31.08.2019. Similarly, the STP of capacity 2 MLD, to be setup at Kishangarh near Sukhna Choe, shall be completed by November 2021. The treated sewage of all these STPs is discharged into natural choe except the treated sewage of digging STP, which goes to the irrigation channel.

With Regard to quality of water of River Ghaggar during the period January, 2018 to December, 2018 and January, 2019 to June, 2019, it was informed that N-Choe enters River Ghaggar. The analysis results of the N-Choe at its exist point indicate that the values of BOD, COD, TSS, Boron, T.Coli and F.Coli were found to be varied between 60-141 mg/l, 120-321 mg/l, 44-182 mg/l, 0-0.04 mg/l, 3.48×10^5 - 1.8×10^7 MPN/100 ml and 1.30×10^5 - 2.4×10^6 MPN/100 ml, respectively, which are much higher the permissible values. These values indicate that there is no improvement in the quality of water of N-Choe leading to River Ghaggar.

Further, the quality of River Ghaggar was also analysed in the Year 2018 and January to June 2019. The analysis results indicate that the value of parameters in River Ghaggar namely BOD, COD & TSS in the year, 2018 were found to be varied between 4-27 mg/l, 20-159 mg/l & 138-2294 mg/l, respectively. The

values of these parameters in the month of January to June 2019 were found to be varied between 20-32 mg/l, 56-167 mg/l & 701-2053 mg/l, respectively, which are higher than the desired value in River Ghaggar. Therefore, Municipal Corporation, Chandigarh; Deptt. of Local Govt. and CPCC has to be more vigilant to closed all the outlets directly falling into the drain /Nallah leading to River Ghaggar and operation of STPs effectively & efficiently and closed monitoring of the industries of Chandigarh area, so that quality of water of River Ghaggar may be improved.

It was informed in the meeting that some of the outlets are still to be closed due to which the level of above parameters have found in increased trend. Regarding closing of the untreated wastewater discharging into N-Choe, it was informed that out of total 20 direct outfalls into N-choe, the Municipal Corporation has closed 11 outlets and for closing the remaining outlets, the action plan is mentioned as per **Annexure-2**.

1.2 Inspection of the industries

It has been informed that CPCC has carried out inspection of electroplating industries of Chandigarh area. Out of total 102 electroplating industries, 71 were found functional and these industries have been inspected by CPCC. Out of the remaining non functional 31 industries, 16 units have temporarily closed their electroplating process on their own, 12 units have been closed permanently, 2 units have not started with operation and 1 unit has not been established so far.

Out of 71 functional units, 53 industries were inspected, of which effluent samples of 33 industries were collected. 14 industries were found non-complying, of which show cause notices have been issued to 8 industries and show cause notices to the remaining 6 industries is under process.

1.3 Organizing Health Check up Camp in Chandigarh

It was apprised that one health check up camp was organized in the Month of June 2019, but nothing has been mentioned about the nature of diseases observed during the camp.

After detailed deliberation, the following decisions were taken

1) Municipal Corporation, Chandigarh shall ensure that STPs at Raipur Kalan of capacity 5.675 MLD and Kishangarh near Sukhna lake of capacity 2MLD shall be completed within the time schedule as mentioned in the Action Plan.

- 2) **Upgradation of the existing STPs to treat the wastewater upto the latest norms shall be commissioned as per the time schedule mentioned in the Action Plan.**
- 3) **All the outlets falling into drain/Nallahs further leading to N-Choe and Sukhna Choe should be plugged by 31.12.2019.**
- 4) **CPCC shall finalize the legal action against the 14 non-complying industries within 15 days. It shall further continue to visit the industries of Chandigarh area surprisingly and legal action against the violating industries should be taken immediately.**
- 5) **Health checkup camps should be organized on monthly bases and data with regard to any serious disease relating to water borne should be reported to the Executive Committee.**
- 6) **Water quality of N-Choe and Sukhna Choe at their exit points should be monitored on monthly basis.**

2.0 State of PUNJAB

2.1 Action Taken Report on the minutes of the last meeting held on 12.4.2019

- **Identification of miscreants discharging their waste into STP Zirakpur.**
 - ✓ It was apprised that PPCB has collected treated effluent samples of STP Zirakpur in February 2019, March 2019 and June 2019 and on all the occasions, the concentration of oil & grease was found within the prescribed limits. These results have also been corroborated with oil & grease in the untreated effluent samples and the same were also found within permissible limits.
- **Hindrance created by the locals and not allowing installation of STP, Lalru (1.5 MLD capacity)**
 - ✓ Since the matter has not been sorted out. Therefore, it has been proposed to identify the alternate sites for installation of STP of 1.5 MLD capacity at Lalaru.
- **Designing of STPs at BOD level less than 10 mg/l**
 - ✓ It was informed that compliance to the order dated 30.04.2019 in OA No. 1069/2018, in future all the STPs shall be designed on the parameters namely BOD : 10 mg/l, pH : 5.5-9.0, TSS : 20 mg/l and F.Coli : 100 MPN/100 ml.
- **Surprise checking of industries by PPCB**
 - ✓ It was informed that out of total 48 industries located in the catchment area of River Ghaggar, 26 industries were required to install OCEMS, of which 14 industries have already installed the said system. Regular readings on OCEMS system are taken by PPCB and are compared with actual analysis results of

wastewater. The OCEMS of these industries have also connectivity with website of PPCB and CPCB and in case the variation in values of the parameters is observed and SMS alerts shall be generated, action against the defaulting industries shall be taken by PPCB.

- **PPCB to take up the matter with HSPCB regarding sudden rise in the value of BOD in River Ghaggar at confluence point of Sagarpara drain**
 - ✓ Matter is yet to be taken with HSCPB.
- **Installation of OCEMS for remaining 12 industries**
 - ✓ These industries shall install OCEMS by 31.07.2019.
- **Uploading of monthly and quarterly Action Taken Report of DLSTF and SLSTF on CPCB and PPCB website**
 - ✓ All the monthly and quarterly action taken reports have been uploaded on CPCB and PPCB websites.
- **Inspection of the industries by District Level Special Task Force**
 - ✓ No inspection of industries has been carried out by District Level Special Task Force.
- **Ground water sampling by PPCB**
 - ✓ PPCB has collected 14 groundwater samples of important points.

2.2 Average water quality of River Ghaggar during January 2018 to December 2018 and January 2019 to June 2019.

The data submitted by PPCB indicate that the values of BOD, DO & T.Coli at various points in River Ghaggar have been observed as 10.5-49.8 mg/l, 1.9-4.6 mg/l & 15667-34917 MPN/100 ml, respectively, during the sampling carried out from January 2018 to December 2018. The values of these parameters as analysed during the period January 2019 to June 2019 indicate that these parameters have been found varied between 10-40 mg/l, 2.5-5 mg/l & 19500-34333 MPN/100 ml, respectively. The data indicate that there is slight improvement in the values of BOD and DO but no improvement in terms of reduction of T.Coli has been observed.

2.3 Towns where STPs have been completed and commissioned

It was apprised that 21 STPs of capacity 231.4 MLD, have been installed in 18 Towns, based on different technologies like WSP, UASB, FAB, MBBR & SBR.

2.4 Towns / habitation areas, where STPs are yet to be installed

It was informed that the out of total 30 towns located in the catchment area of River Ghaggar for which 43 STPs are required to be installed. STPs in 5 towns namely Boha, Dhuri, Sangrur, Bassi Pathana & Sirhind has been started but the

construction of the same is very slow. In other towns, the work of STP could not be started due to the reasons as mentioned in **Annexure-3**.

2.5 Industries inspected by PPCB during the month June, 2019

It was apprised that PPCB has inspected 11 industries in the month of June, 2019, of which 2 industries were found violating the norms, against which the legal action is under process.

2.6 STPs inspected by PPCB during the month of June, 2019

It was informed that 20 STPs were inspected by PPCB, of which 5 STPs were found violating the norms, against which the legal action is under process.

2.7 Irrigation schemes to be implemented to utilize the treated sewage

It was apprised that for 8 towns namely Baretta, Sardulgarh, Bhikhi, Banur, Lehragagga, Moonak, Sunam & Patran, irrigation schemes, to utilize the treated sewage, have been commissioned. In 2 towns namely Khanauri & Rajpura, these irrigation schemes are under process and the same shall be commissioned by 01.12.2019 and 31.12.2019, respectively. For rest of 11 towns namely Mandi Gobindgarh, Patiala, Rajpura, Boha, Dhuri, Sangrur, Bassi Pathana, Sirhind, Focal Point Mandi Gobindgarh, Lalru & Dera Bassi where 15 STPs are in operation, irrigation schemes have been prepared and funds are being tied up with NABARD under Rural Infrastructure Development funds.

2.8 Installation of STPs for villages having discharge \geq 300 KLD.

It was informed that the technical committee constituted by Chief Secretary, Punjab has decided that DRDP shall provide treatment technology consisting of Screen Chamber, Grit Chamber, Aerobic WSP, Facultative WSP and Maturation Ponds in 10 villages. PPCB shall also provide such system in 2-5 villages.

It was further apprised that per new proposal, in 1st, 2nd & 3rd phase the treatment facility will be provided in 87, 152 & 150 villages irrespective of discharge of the village. The requirement of funds for 1st, 2nd & 3rd phase has been estimated as Rs. 26.10 crores, Rs. 45.6 crores & Rs. 45 crores. The Finance Department of the State has made budgetary provision of Rs. 50.00 crores for the financial year 2019-20. If the funds are timely released by the Finance Department, the work of 1st phase would be completed by 30.06.2020. The target dates for providing treatment facility in the rural areas for the 2nd & 3rd phase are 30.06.2021 and 30.06.2022, respectively. The construction work of treatment system based on WSP in 28 villages of 1st phase has already been started and the same is likely to be completed by 31.08.2019.

2.9 Status of Health Camps to be organized

It was informed that during the 3 months (April to June, 2019), 40 Health checkup camps have been organized. However, no details about the patients diagnosed during the said period and serious disease, if any, found in any patient has been mentioned.

2.10 Action taken report of the District Level Special Task Force

It was informed that the District Level Special Task Force of SAS Nagar, Patiala, Sangrur & Mansa have taken decisions during their meetings as under:

- PPCB shall keep regular check on the 48 industries located in the catchment area of River Ghaggar.
- Regarding STP monitoring and installation of STPs for the remaining towns, PWSSB shall expedite the process.
- For Plugging the outlets of the industries into sewer of MC, Zirakpur, the units shall be identified, which are discharging their effluent into sewer and submit the report to PPCB.
- Regarding installation of proposed STP of 1.5 MLD capacity at Lalru, PWSSB to pursue the matter and submit the action taken report. Maintenance work of STP of capacity 4 MLD of Dera Bassi, likely to be commissioned immediately, shall be given to the responsible agency.
- Operator of STP shall obtain consent to operate from PPCB. The concerned agencies like MCs, PWSSB and GMADA shall immediately apply for consent to PPCB and PPCB shall ensure full support to these agencies.
- The other decisions taken in the DLSTF are mentioned as per **Annexure-4**.

2.11 After detailed deliberation, the following decisions were taken

- 1) E.O. M.C. Zirakpur alongwith officials of PWSSB shall indentify the culprits, who may be throwing their waste into sewerage system leading to STP Zirakpur and initiate action such persons and submit a list of such culprits alongwith action taken against them within 15 days to the Executing Committee with a copy of the same to the Nodal Office, Punjab Pollution Control.**
- 2) STPs for the remaining towns/habitation area located on the drains/Nallahs falling into river Ghaggar should be installed as per the time schedule mentioned in the action plan. Proportionate progress of each STP should be submitted on monthly basis and shall be presented in each meeting of the Executive Committee.**

- 3) The M.C. Lalru & PWSSB jointly identify the alternate site for installation of STP of 1.5 MLD capacity at Lalru Mandi and submit action taken report in this regard within one month to the Executing Committee with a copy of the same to the Nodal officer, Punjab Pollution Control Board for Action Plan for clean river Ghaggar.**
- 4) Punjab Pollution Control Board shall continue the surprise checking of industries and initiate action in accordance with law against the defaulting units. Punjab Pollution Control Board shall also compare the analysis results of the wastewater with the values of parameters shown during visit by the OCEMS and take appropriate action in the matter in case any major difference is found on comparison. The Punjab Pollution Control Board will also carry out the data analysis of OCEMS to identify the violators.**
- 5) PPCB shall continue to monitor the sewage treatment plants of the local bodies surprisingly and action against the violating local bodies should be taken within 21 days from the date when the violations were observed.**
- 6) All the irrigation schemes, already commissioned, must be made operational to use the treated sewage for irrigation of the fields. The proposed irrigation schemes, prepared for the towns, shall also be commissioned simultaneously with the commissioning of the STP for the towns.**
- 7) The department of local Government/other stakeholder departments of the State Government responsible for installation of STP should be asked that in future all the STPs shall be designed on the parameters namely BOD : 10 mg/l, COD: 50mg/l, pH: 5.5-9.0, Total Nitrogen : 10 mg/l, phosphorus Total : 1.0 mg/l, TSS : 20 mg/l and F.Coli : 100 MPN/100 ml (desirable) and 230 MPN/100ml (permissible) as mentioned in order passed by Hon'ble NGT on 30.4.2019 in OA No. 1069 of 2018.**
- 8) PPCB and HSPCB shall jointly resolve the issue w.r.t. sudden rise in the value of BOD in river Ghaggar at confluence point of Sagarpara drain for which separate D.O. letters have been issued to Chairman PPCB and Chairman HSPCB by the Chairman of the Executive Committee.**
- 9) PPCB shall ensure that OCEMS for the remaining 12 industries shall be installed by 31.7.2019 and the same may be got**

connected to PPCB and CPCB server.

- 10) **PWSSB, Municipal Corporation, Patiala; Municipal Corporation, SAS Nagar; PDA & GMADA shall intimate the status of installation of CCTV Cameras and OCEMS on their STPs within 15 days to the Executing Committee and Nodal Officer.**
- 11) **Nodal officer, PPCB shall take up the matter with the Deputy Commissioners of Districts SAS Nagar, Patiala, Sangrur and Mansa regarding inspection of industries to be carried out by district level special task force (DLSTF) as per the direction of the Hon'ble NGT.**
- 12) **PPCB shall ensure that the ground water sampling along river Ghaggar shall be carried out at the frequency as decided in the last meeting of the Executive Committee.**
- 13) **Department of Rural Development & Panchayats shall submit time schedule alongwith arrangement of funds for installation of treatment system in 389 villages in writing to the Executing Committee, within 15 days.**
- 14) **Health checkup camps should be organized on monthly bases and data with regard to any serious disease, relating to water borne, should be reported to the Executive Committee.**

3.0 State of HARYANA

3.1 Action Taken Report minutes of the previous meeting

- **Submission of Monthly Action Taken Reports of DLSTF to State Level Special Task Force.**
 - ✓ Action Taken Reports of DLSTF are submitted to State Level Special Task Force and the same are uploaded on the website of the PCB and CPCB.
- **Inspection of industries by DLSTF**
 - ✓ No industry has been inspected by DLSTF
- **Closing of Non-complying industries discharging untreated effluent into drain**
 - ✓ HSPCB has taken action against the violating industries in terms of closing of the same.
- **Ground water sampling**
 - ✓ Ground water sampling has been carried out and sign boards have been placed at the sites indicating that the water is not fit for drinking, where analysis results do not comply with the standards of drinking water.

- **Industries located on the catchment area of River Ghaggar**
 - ✓ List of such industries has been prepared and submitted to Executive Committee. Surveillance squad has been formed and list of these industries has been submitted to the squad for inspection.
- **Organizing Health Checkup camps**
 - ✓ It has been informed that health checkup camps have been organized at Panchkula (6), Ambala (22), Fatehabad (15), Sirsa (18) and Kaithal (28). The health study is also being given to the PGIMER by HSPCB.
- **Checking of water quality of River Ghaggar**
 - ✓ Quality of River Ghaggar is being checked on monthly basis
- **Uploading of monthly and quarterly Action Taken Report on website of HSPCB and CPCB**
 - ✓ These reports are being uploaded on the website of HSPCB and CPCB.
- **Installation of OCEMS**
 - ✓ These are yet to be installed by the departments.
- **Designing of STPs at BOD less than 10 mg/l**
 - ✓ It was apprised that new STPs shall be designed on BOD less than 10 mg/l and instructions in this regard have been issued to all the concerned departments.
- **Installation of GPS system on the tankers carrying sewage of areas having accessibility to STP.**
 - ✓ Necessary instructions have been issued to Deptt. of Local Govt. to provide GPS system on tankers.
- **Leachability test in the sludge**
 - ✓ The test is yet to be conducted by HSPCB.
- **Submission of performance guarantee as decided in case of OA No. 673 of 2018 by the Hon'ble NGT.**
 - ✓ Case file submitted to State Government for approval.
- **Installation of STPs within the time schedule**
 - ✓ It was ensure that the construction of STPs shall be completed as per time schedule mentioned in the Action Plan
- **Plantation of trees along Sukhna choe**
 - ✓ Plantation drive shall be started soon.
- **Installation of OCEMS into drain joining River Ghaggar**
 - ✓ Suitable locations in the drains are being indentified by HSPCB.

3.2 Average water quality of River Ghaggar during January 2018 to December 2018 and January 2019 to June 2019

The study on water quality of River Ghaggar before and after confluence point of pollution sources carried out by HSPCB indicates that the river water quality has been analyzed for 4 parameters namely pH, BOD, DO & Conductivity. The value of BOD is mostly more than 30 mg/l against requirement of 3 mg/l. Thus, the State of Haryana has to take immediate steps to install remaining STPs and improve the quality of effluent generated after treatment of sewage through STPs.

3.3 Towns where STPs have been completed and commissioned

It has apprised that in 9 towns, 59 STPs have been installed and commissioned. The details of these STPs have been given as **Annexure-5**.

3.4 Towns / habitation areas, where STPs are yet to be installed

It has been mentioned that work of STPs in towns namely Ambala, Fatehabad, Hisar, Jind, Kaithal, Kurukshetra, Panchkula & Sirsa has been started.

3.5 Industries inspected by HSPCB during the month June, 2019

No inspection carried out in the month of June, 2019.

3.6 STPs inspected by HSPCB during the month of June, 2019

It has been mentioned that in the month of June, 2019, 17 STPs has been inspected by HSPCB, of which 16 STPs are complying with the parameters BOD, COD, TSS and oil & grease. One STP is not meeting with the parameters of oil & grease and BOD. However, all the STPs have been found failure to remove total and Fecal Coliform. The details of STPs monitored are annexed as per **Annexure-6**.

3.7 Irrigation schemes to be implemented to utilize the treated sewage

No irrigation scheme has been prepared.

3.8 Installation of STPs for villages having discharge more than 300 KLD.

No proposal for such type of STPs has been prepared by State of Haryana.

3.9 Ground water sampling

It has been mentioned that in Panchkula, Ambala, Kaithal, Jind & Sirsa, ground water samples have been collected from 45 locations, of which 14 have been found complying with the norms and 31 are not complying with the norms. HSPCB has to take action to put ban on the use of water of these water sources for drinking purposes and sign Boards indicating that water is not for drinking may be displayed on these points.

3.10 Status of Health Camps to be organized

It was apprised that 6, 22, 15, 10, 28 number of health camps have been organized in Panchkula, Ambala, Fatehabad, Sirsa & Kaithal. However, no report is available about any water borne disease found in any patient.

3.11 Action taken report of the District Level Special Task Force

It has been reported that District Level Special Task Force of District Panchkula, Ambala, Kurukshetra, Jind, Kaithal, Fatehabad, Hisar and Sirsa have submitted their Action Taken Report of 4 months. For 2 months, reports have not been submitted, whereas, the reports of the last 6 months (January 2019 to June 2019) were required to be submitted.

3.12 Uploading of Action Taken Reports of DLSTF and SLSTF on website of CPCB and HSPCB

It has been reported that the Action Taken Reports for the months January 2019 to May 2019 have been uploaded on the website of HSPCB and CPCB.

After detailed deliberation, the following decisions were taken

- 1) STPs for the towns/habitation area located on the drains/Nallahs falling into river Ghaggar should be installed as per the time schedule mentioned in the action plan. Proportionate progress of each STP should be submitted on monthly basis and shall be presented in each meeting of the Executive Committee.**
- 2) HSPCB shall continue to monitor the effluent treatment plants of the industries surprisingly and action against the violating industries should be taken within 21 days from the date when the violations were observed.**
- 3) HSPCB shall continue to monitor the sewage treatment plants of the local bodies surprisingly and action against the violating local bodies should be taken within 21 days from the date when the violations were observed.**
- 4) The department of local Government, State of Haryana shall take up the matter with the Chief Secretary, Haryana to ask the concerned department to prepare irrigation schemes to utilize the treated sewage of the towns for irrigation and no treated/untreated sewage should be allowed to be discharged into drains/Nallahs leading to river Ghaggar.**
- 5) The department of Rural Development and Panchayat, State of Haryana shall take up the matter with the Chief Secretary, Haryana regarding installation of sewage treatment plants for the villages having discharge ≥ 300 KLD in first phase in a time bound manner. An action plan in this regard shall be submitted to**

the Executive Committee.

- 6) The department of Rural Development and Panchayat, State of Haryana shall take up the matter with the Chief Secretary, Haryana regarding laying of irrigation schemes to utilize the treated sewage of the villages for irrigation purposes. An action plan in this shall be submitted to the Executive Committee.**
- 7) HSPCB shall continue to monitor ground water samples of the water sources points located along river Ghaggar and it shall take action to put ban on the use of water of those water sources for drinking purposes, which are not complying with the norms and sign boards on these points should be displayed indicating that the water is not fit for drinking purposes.**
- 8) Health checkup camps should be organized on monthly bases and data with regard to any serious disease relating to water borne, should be reported to the Executive Committee in its each meeting.**
- 9) HSPCB shall carried out leachability test in the STP sludge within 15 days.**
- 10) The department of local Government, State of Haryana shall provide GPS system on the tankers carrying sewage of the areas which have accessibility to nearby STPs.**
- 11) The department of local Government/other stakeholder departments of the State Government responsible for installation of STP should be asked that in future all the STPs shall be designed on the parameters namely BOD : 10 mg/l, pH : 5.5-9.0, TSS : 20 mg/l and F.Coli : 100 MPN/100 ml as mentioned in order passed by Hon'ble NGT on 30.4.2019 in OA No. 1069 of 2018.**
- 12) Nodal officer, HSPCB shall take up the matter with the Deputy Commissioners of all the Districts falling on the catchment area of river Ghaggar regarding inspection of industries to be carried out by district level task force as per the directions of the Hon'ble NGT.**
- 13) The water quality of river Ghaggar should be analyzed on monthly basis and shall be submitted to the Executive Committee in its each meeting.**
- 14) HSPCB shall get install OCEMS for the monitoring of ETPs of the industries falling on the catchment area of river Ghaggar and also for the towns, where STPs have already completed and commissioned.**
- 15) HSPCB shall submit performance guarantee as decided by the**

Hon'ble NGT in OA no. 673 of 2018.

- 16) HSPCB shall ensure the plantation of trees along Sukhna Nallah within 15 days.**
- 17) HSPCB shall get install OCEMS into drains/Nallahs joining to river Ghaggar. A definite time schedule should also be submitted.**

List of participants**A) Members of the Executive Committee**

- 1) Hon'ble Justice Pritam Pal, Former Judge, Punjab & Haryana Court.
- 2) Sh. Vimal Hatwal, Joint Director, Northern Regional Office, MoEF & CC at Chandigarh.
- 3) Dr. Babu Ram, former Member Secretary, Punjab Pollution Control Board.

B) Officers of the U.T./State Governments**a) U.T. Chandigarh**

Sr. No.	Name, Designation & Department
1.	Sh. Debendra Dalai, Special Secretary, Environment.
2.	Sh. K.K. Yadav, Commissioner, Municipal Corporation, Chandigarh.
3.	Sh. Manoj Bansal, Chief Engineer, Municipal Corporation, Chandigarh.
4.	Sh. Rajinder Singh Ahluwalia, S.E. (P.H.), Engineering Department, Chandigarh Administration.
5.	Sh. Shailendra Singh, S.E., Municipal Corporation, Chandigarh.
6.	Sh. I.D. Sharma, Ex. Engg. (P.H.), Municipal Corporation, Chandigarh.
7.	Sh. Harish K. Saini, Executive Engineer (P.H.) Municipal Corporation, Chandigarh.
8.	Sh. Suresh Saini, Executive Engineer, Municipal Corporation, Chandigarh.
9.	Sh. Vivek Pandey, Scientist 'B', Chandigarh Pollution Control Committee.
10.	Sh. Sushil Dogra, Scientist ` B' , Chandigarh Pollution Control Committee.

b) State of Punjab

- 1) Er. Krunesh Garg, Member Secretary, Punjab Pollution Control Board.
- 2) Er. Gulshan Rai, Chief Environmental Engineer, Punjab Pollution Control Board, Ludhiana.
- 3) Er. K.P. Goyal, Engineer-in-Chief, PWSSB.
- 4) Sh. Anoop Nagar, Regional Director, CGWB.
- 5) Er. Davinder Kumar, Superintending Engineer, Rural Department & Panchayat.
- 6) Er. Lata Chauhan, Executive Engineer, PWSSB.
- 7) Er. Ramandeep Bains, Executive Engineer, Department of Drainage.
- 8) Sh. S.K. Sharma, Executive Engineer, PSIEC.
- 9) Er. S.S. Matharu, Environmental Engineer, Punjab Pollution Control Board, Regional Office, Hoshiarpur.

C) State of Haryana

Sr. No.	Participants Name, Designation and Department
1.	Sh. Ashok Kheterpal, Chairman, HSPCB, Panchkula
2.	Sh. KK Verma, CE, PHED, Panchkula
3.	Sh. NS Chauhan, (CTP IT &M), Town and Country Planning Deptt., Panchkula
4.	Sh. Naresh Pawar, Chief Enigneer, HSVP, Panchkula
5.	Sh. Anoop Nagar, RD, CGWB, Chandigarh
6.	Sh. KS Jakhar, SE(HQ), Development & Panchayats Department, Panchkula
7.	Sh. DS Dahiya, SE, PHED, Panchkula
8.	Sh. Satyawar Singh, SE, MC, Panchkula
9.	Dr. Nirmal S. Sidhu, Deputy Director, Health Services
10.	Sh. JP Singh, EE, HSPCB, Panchkula
11.	Sh. Rajesh Kumar, ME, MC, Pehowa
12.	Sh. Surender Singh, XEN, MC, Kaithal
13.	Sh. Satish Goel, XEN (HQ), Urban Local Bodies Department, Panchkula
14.	Sh. Hari Kishan Sharma, XEN, MC, Hisar
15.	Sh. Ankit Loran, EE, MC, Panchkula
16.	Sh. SK Mohiddin, Scientist-B, CGWB, Chandigarh
17.	Sh. Ashok Kumar, EO, MC, Kaithal
18.	Sh. Ranbir Singh, SDE (HQ), Urban Local Bodies Department, Panchkula
19.	Sh. Khushi Ram, JE, MC, Cheeka
20.	Mr. Mandeep, JE, MC, Kalayat
21.	Sh. C. Bhaskar, Engineer, Consultants

Annexure-2

STATUS OF UNTREATED WASTE WATER DISCHARGE IN N-CHOE

Sr. No.	Point	Status as on September 2018	Action Plan	Present Status
1.	Bougainvillea Garden	One Outlet was discharging from MLA hostel side. However fresh water is being discharged.	-	Still fresh water from MLA hostel is being discharged. The Concerned authorities have been intimated for plugging the same
2.	Near red cross (Madhya Marg)	01 outlet was discharging waste water	-	A leakage has been detected at Home Science College Sector 10. The work to be done by Chd. Admn. Matter has been taken up with Chd. Admn. and they have assured that it will be plugged soon.
3.	01 outlet in Beant Memorial	Water logging	This is major work and will be completed by August, 2019.	-
4.	Sector 52 (starting)	Two outlets were discharging Sewage Water	The work will be taken care when the work of Beant Memorial Outlet, (Will be plugged by 31.12.2019).	--
5.	Sector 52 (End)	Two outlets were discharging Sewage Water	One outlet has been plugged and another outlet will be plugged by 31.12.2019.	--
6.	Attawa	02 points were discharging sewage water into N-Choe.	-	1 point has been Plugged. Other points has also been identified and rectified and the discharge of sewer has been considerably reduced.

7.	Sector 53 point near furniture market	One outlet of sewage water was being discharged.	-	The source has been identified and necessary repair has been carried out, however the connections have not been made as repair of 2 manholes on the downstream side of sewer line has to be carried out and the tender for the same will be opened on 26.07.2019.
8.	Sector 53 point in Gardens of springs	One outlet of sewage water in huge quantity was being discharged (Adarsh Colony).	-	The diversion work to be done near Adarsh Colony. Estimate for constructing the sump to lift sewage to the nearest line is in progress.
9.	Bridge point near Beant Memorial	-	-	The source near Beant Memorial side has been identified and tenders for rectifying the same have been invited to be opened on 26.07.2019. The quantity of discharge in the choe has been reduced. The pipe leakage has been plugged.

Annexure-3**List of the towns where construction of STPs has not been started**

Sr. No.	Name of the town/habitation area	Name of the drain	Waste water discharge (MLD)	Capacity of STP (MLD)	Likely dates of commissioning of STP as per action plan	Likely date of completion as per revised action plan	Present astatus of STP (whether under construction/complete/commissioned)	Reason for not starting construction/commissioning of STP
1	Cheema	Sirhind choe	1.5	2	31.7.2020	31.7.2020	Not started	Tenders being called
2	Bhadson	Sirhind choe	0.93	3	-	30.6.2022	Not started	Funds not tied up
3	Nabha	Nabha drain	7.81	12	-	30.6.2021	Not started	DNIT prepared and under approval.
4	Longowal	Bahadur Singh Wala Drain	3.26	3	31.10.2020	31.10.2020	Not started	DNIT shall be revised as per new eligibility criteria to be approved in meeting to be held on 19.7.19 under Chairmanship of PSLG

5	Amlloh	Sirhind Choe	2.28	3	-	31.12.2020	Not started	Case for final approval for land is in process in DLG office. DLG office referred back to DC, office in DEC, 2018 for comments. DC office received letter in march,2019 and sent reply to DLG office in May,2019 for final approval.
6	Dera Bassi (Issapur & Mirpur)	Dera Bassi Choe	5.77	2	31.10.2020	31.10.2020	Not started	DNIT shall be revised as per new eligibility criteria to be approved in meeting to be held on 19.07.2019 under the Chairmanship of PSLG.
7	Lalru (Lalru, Lalru mandi Dappar, Samarheri)	Jharmal Choe	4.74	1	31.10.2020	31.10.2020	Not started	DNIT shall be revised as per new eligibility criteria to be approved in meeting to be held on 19.07.2019 under the Chairmanship of PSLG.

		Jharmal Choe		1.5	-	-	Not started	Land issue. Court case by residents.
		Jharmal Choe		2x0.3	31.12.2020	31.12.2020	Not started	New technology being explored by PPCB
8	Sanour	Patiala nadi	2.8	4	-	30.6.2022	Not started	Land and funds not available
9	Ghanaur	Miranpur Choe	0.8	2	31.10.2020	31.10.2020	Not started	DNIT shall be revised as per new eligibility criteria to be approved in meeting to be held on 19.07.2019 under the Chairmanship of PSLG.
10	Bareta	Baretta drain	2.13	3 MLD capacity STP based on WSP technology to be upgraded	-	31.12.2021	Not started	Funds not tied up
11	Bhikhi	Bahadur Singh	2.52	3 MLD capacity	-	31.12.2021	Not started	Funds not tied up

		Wala drain		STP based on WSP technology to be upgraded				
12	Sardulgarh	Direct to Ghaggar	2.69	4 MLD capacity STP based on WSP technology to be upgraded	-	31.12.2021	Not started	Funds not tied up

Other decisions taken in the District Level Special Task Force

SAS Nagar

- Distribution of Pipeline network for utilization of treated wastewater. The MC, Kharar to utilized the treated wastewater for plantation or for construction purposes and shall look for the possibility for utilization of treated wastewater for any other useful activity. The MC, Zirakpur to provide treated wastewater to the construction project namely M/s GBP group located near the STP Zirakpur and also to provide wastewater to all the nearby construction project to ensure maximum utilization of wastewater.
- Villages discharging their wastewater into drain leading to river Ghaggar. The DDPO to identify the various drains carrying wastewater into River Ghaggar and to provide the list of villages which are discharging the wastewater into the drains leading to river Ghaggar to the PPCB and Distt. Administration.
- Health check camps by Department of Health & Family Welfare. The Civil Surgeon, SAS Nagar shall create awareness about the water borne diseases and shall get a study of the impact of industrial pollution on the health of the workers and shall submit the report in this regard alongwith the health checkups carried on the monthly basis to the PPCB and to the Distt. Administration.
- Ground water sampling- the Deptt. Of Water Supply & Sanitation to continue the activity and shall submit the report to the PPCB.
- **Identification of drains/Nallahs/Choes, which are eventually meeting river Ghaggar**– the Deptt. of Irrigation (Drainage) shall identify all the drains/Nallahs/Choes, which are eventually meeting river Ghaggar and shall mark these on the map of river Ghaggar. The Deptt. Shall also identify the villages/industries discharging wastewater in to the said drains/Nallahs/Choes and submit report.

Patiala

- PWSSB and MC, Patiala and PDA to ensure that STPs should run efficiently to achieve the standards prescribed by MOEF and PPCB. EE, PWSSB is to recheck the DPR of Tata project for Badi nadi and Chotti Naddi and write to PPCB regarding need of STP for Sanour as well as amendment in the Action Plan too.
- PWSSB, PDA, MC, Patiala shall ensure that CCTV cameras should be interlinked with the server of PPCB within 10 days. Online continuously effluent monitoring system (OCEMS) shall be installed as per the timelines submitted in this meeting and reason for delay as per action plan timelines.

- EE, PWSSB shall ensure that the monthly meeting of sub division level committee shall be held as per orders issued in the 3rd meeting of District Level Special Task Force.
- All the Executive officers, Municipal committee as well as EE, Municipal Corporation, Patiala shall apply consent to operate for STPs from PPCB within 15 days.
- Municipal Corporation, Patiala shall take necessary action to tap all the outlets, which have been identified by them to restrain flow in the Badi Nadi and Chotti Nadi.
- MES, Patiala should make proper arrangement for utilization of its treated effluent for irrigation and plantation purposes with present arrangements and not to discharge into drain.
- Municipal Corporation, Patiala, PUDA, PWSSB to maintain proper record for generation/disposal of sludge in their respective STPs.
- EE, Water Supply and Sanitation, Patiala to get all parameters for drinking water standards tested from area/villages along the bank of River Ghaggar with the help of mobile van. A copy of the analysis results be sent to DC office, Patiala as well as to Regional office, PPCB, Patiala.
- Civil Surgeon, Patiala to organize atleast 4 camps in the catchment area of river Ghaggar per month and complete information in these camps be sent to DC office, Patiala as well as to PPCB after camp on prescribed Performa.
- CGWA shall send the report of analysis results of samples collected to PPCB.
- EE, drainage to keep regular check on all the drains and river Ghaggar of District Patiala to the effect that if any industry or other outlet is discharging treated/untreated effluent into any drain/river, intimation to be given to PPCB immediately.
- EE, drainage to maintain record of the flow of river Ghaggar on daily basis and to send information to DC office, Patiala as well as to PPCB every month.
- PDA and District Level Soil Conservation officer shall ensure that treated effluent shall be utilized to the maximum extent for construction as well as for irrigation purposes.
- Executive officer, Municipal Council, Bhadson shall get the land earmarked for the proposed STP and intimate the PWSSB.
- It is directed to all that this work cannot be complied by an individual department and will be accomplished with the joint efforts of all the departments. Directions given above be complied with in too.

List of Existing STPs

Sr. No.	Name of the District	Name of the town/city	Department	Existing STP and Capacity (MLD)
1	Ambala	Naya Gaon, unit-I, Ambala city	PHED	3.25
2	Ambala	Naya Gaon, unit-II, Ambala city	PHED	3.25
3	Ambala	Baldev Nagar, unit-I, Ambala city	PHED	5
4	Ambala	Baldev Nagar, unit-II, Ambala city	PHED	3.25
5	Ambala	Moti Nagar, unit-I, Ambala city	PHED	5
6	Ambala	Moti Nagar, unit-II, Ambala city	PHED	5
7	Ambala	Modal Town, Ambala city	PHED	6
8	Ambala	Nasirpur, Ambala city	PHED	3.25
9	Ambala	Sadipur	PHED	0.25
10	Ambala	Devi Nagar, Ambala city	PHED	3.25
11	Ambala	Naraingarh	PHED	3
12	Kurukshetra	Modal Town, Pehowa	PHED	8
13	Kurukshetra	Ladwa road, Shahbad	PHED	11.5
14	Kurukshetra	Indri road, ladwa	PHED	7
15	Panchkula	Kalka	PHED	4.5
16	Panchkula	Kalka	PHED	0.25
17	Panchkula	Nalagarh road, Pinjore	PHED	5
18	Jind	Jind	PHED	15
19	Jind	Narwana	PHED	3.5
20	Jind	Narwana	PHED	3.75
21	Jind	Narwana	PHED	2.6
22	Jind	Uchana	PHED	2
23	Jind	Uchana	PHED	1.5
24	Jind	Jind	PHED	5
25	Jind	Safidon	PHED	9
26	Jind	Julana	PHED	4
27	Kaithal	Cheeka	PHED	10
28	Kaithal	Jind road, kaithal	PHED	10
29	Kaithal	Mansa road, kaithal	PHED	10
30	Kaithal	Mansa road, kaithal	PHED	10
31	Kaithal	Kalyat	PHED	5
32	Kaithal	Pundri	PHED	3.5
33	Hisar	Dhani Kushal, Bhiwani Road, hansi	PHED	5
34	Hisar	Lalpura, Jind Road, Hansi	PHED	7.5
35	Hisar	Dhani gram, Barwala	PHED	6
36	Hisar	Azad nagar, rajgarh road, Hisar	PHED	15
37	Hisar	Rishi Nagar, Hisar	PHED	40
38	Hisar	Hisar	PHED	4
39	Hisar	Ulkana	PHED	6.5
40	Hisar	Narnaund	PHED	4.0
41	Sirsa	Chautala Road, Dabwali	PHED	16.5
42	Sirsa	Shamsabad patti, Kalania Road, Sirsa	PHED	15
43	Sirsa	Vill. Nattar 1, Sirsa	PHED	5
44	Sirsa	Vill. Nattar 2, Sirsa	PHED	5

45	Sirsa	Daddu road, kalanwali	PHED	9.5
46	Sirsa	Ellenabad	PHED	7.5
47	Sirsa	Rania	PHED	6
48	Fatehabad	Vill. Bhodia khera, Bhattu road, Fatehabad	PHED	10
49	Fatehabad	Vill. Amani, Tohana Distt. Fatehabad	PHED	10
50	Fatehabad	Ratia	PHED	6.5
51	Fatehabad	Fatehabad	PHED	5
	HSVP			342.6
1	Ambala	Sec-7, Urban Estate, Ambala city	HSVP	2
2	Panchkula	Sec-20, panchkula	HSVP	18
3	Panchkula	Sec-20, panchkula	HSVP	39
4	Panchkula	Sec-28, panchkula	HSVP	15
5	Jind	Jind	HSVP	10
6	Kaithal	Kaithal	HSVP	7.5
7	Hisar	Dabara Tosham Road, Hisar	HSVP	15
8	Fatehbad	Village Majra	HSVP	10

Annexure-6

List of the STPs monitored in the Month of June, 2019

Sr. no	STP	Report No. & Date	BOD mg/l (30)	COD mg/l (100)	PH (5.5 to 9.0)	TSS mg/l (100)	Oil & grease mg/l (10)	Total Coliform mg/l (2.0)	Fecal Coliform	Remarks
1	5 MLD STP Dhani Kushal, Bhiwani road, Hansi, Hisar by PHED in 15.4.2014	433-434 Dt. 1.7.19	27	156	8.7	72	4			Complying
2	7.5 MLD STP Lalpura, Jind road, Hansi, Hisar by PHED in 15.4.2014	431-432 Dt. 1.7.2019	26	152	8.6	80	2			Complying
3	6 MLD STP Dhani Gram, Barwala, Hisar by PHED in 9.12.2014	90-91 Dt. 3.6.19	14	72	8.8	26	2	240000	14600	Complying
4	15 MLD STP Azad Nagar, Rajgarh road, Hisar by PHED in 31.12.2014	101-102 Dt. 11.6.19	8	24	7.2	10	ND	110000	9200	Complying
5	40 MLD STP Rishi Nagar, Hisar by PHED in 2.12.2017	105-106 Dt. 11.6.19	8	24	7.9	10	ND	260000	10600	Complying
6	4 MLD STP Narnaund, Hisar by PHED	118-119 Dt. 24.6.19	8	24	7.2	10	ND	380000	19200	Complying
7	15 MLD STP Dabara Tosham Road, Hisar by HUDA in 31.7.2014	108-109 Dt. 11.6.19	8	24	8	10	4	248000	13600	Complying
8	4 MLD STP kaimri road, Hisar by PHED in 2018	103-104 Dt. 11.6.19	6	16	8	10	ND	140000	9400	Complying
9	15 MLD STP dt. Shamsabad patti, Kalaria road, Sirsa by PHED in 1.7.2012	105 Dt. 9.7.19	36	88	10.3	80	12	340000	22200	Non Complying
10	7.5 MLD STP Ellenabad, Sirsa by PHED in 11.5.2015	105 Dt. 9.7.19	36	88	10.3	80	12	340000	22200	Non Complying
11	6 MLD STP Rania Sirsa, by PHED in 30.6.2017	92-93 Dt. 11.6.19	8	24	7.9	10	ND	190000	9600	Complying
12	16.5 MLD STP Dabwali, Sirsa by PHED in 4.12.2017	140-141 Dt. 24.6.19	8	48	8.2	12	ND	280000	9600	Complying

13	10 MLD STP Vill. Bhodia Khera dt. Bhattu road dt. Fatehabad by PHED in 1.4.2013	124-125 Dt. 24.6.19	24	64	8.2	18	4	460000	15900	Complying
14	10 MLD STP Vill. Amani, Tohana, Distt. Fatehabad by PHED in 1.4.2013	138-139 Dt. 24.6.19	22	72	8.3	26	4	390000	14100	Complying
15	6.5 MLD STP Ratia, Fatehabad by PHED in 1.9.2014	120,121 Dt. 24.6.19	14	48	8.4	20	4	310000	17500	Complying
16	10 MLD STP Majra, Fatehabad by HUDA in 16.12.2017	126-127 Dt. 24.6.19	6	16	8.2	10	ND	120000	9300	Complying
17	5 MLD STP Kharati Khera Road, Fatehabad by PHED in 31.10.2018	122-123 Dt. 24.6.19	10	24	8.1	10	ND	290000	10100	Complying