

**Minutes of 14<sup>th</sup> Meeting of the Executing Committee held with the officers of U.T Chandigarh, State of Punjab, Haryana and Himachal Pradesh on 26.08.2019 at 11:00 A.M onwards in the Committee Room, MGISPA, Sector 26, Chandigarh under the Chairmanship of Hon'ble Justice Pritam Pal, Former Judge, Punjab & Haryana, High Court, in compliance to the Hon'ble NGT order dated 07.08.2018 in the matter of OA No. 138 of 2016 and 139 of 2016 titled Stench Grips Mansa's Sacred Ghaggar River (Suo-Motu Case) and Yogender Kumar.**

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The concerned officers of U.T Chandigarh, State of Punjab, Haryana and Himachal Pradesh attended the meeting on 26.8.2019.

The list of participants is as per **Annexure-1**.

### **1) U.T. Chandigarh**

The Member Secretary CPCC welcomed the Chairman of the Executive Committee and other members. Thereafter, he presented the status of action taken to control pollution in river Ghaggar as under:

#### **A) Issues relating to Municipal Corporation, Chandigarh**

##### **1) Closing of outlets falling into Sukhna Choe**

It was informed that out of 11 outlets falling into Sukhna Choe, 9 outlets have been closed.

##### **The status of closing of remaining two outlets is as under:**

- For closing of outlet from industrial area phase-1, colony no.4, temporary bund has been made with sand bags and for the construction of permanent plug i.e construction of RCC wall, tenders have been invited and shall be opened shortly.
- For closing of outlet of village Hallomajra, open channel wastewater has been tapped. 90% of sewerage system, for the connection of this outlet, has been completed and shall be completed by 31.10.2019.

##### **2) Closing of outlets falling into N-Choe**

It was informed that out of 22 outlets falling into N-Choe, 12 outlets have been closed.

##### **The status of closing of remaining 10 outlets is as under:**

- For closing one outlet from Bougainvillea Garden, the concerned authority looking after the area has been asked to stop the discharge. Previously, the discharge was stopped but reoccurred during maintenance. Now the same shall be plugged by 15.9.2019.
- Two points of sewage discharge from Attawa area were identified and these shall be closed by 31.12.2019.

- One outlet carrying sewage of Sec-53, near furniture market, Chandigarh, shall be plugged by 31.10.2019.
- One outlet carrying sewage of Sec-53, near Garden of Spring, Chandigarh, shall be plugged by 31.12.2019.
- One outlet from bridge point, near Beant memorial, shall be closed by 31.10.2019.
- One outlet from Beant memorial shall be completed by 15.9.2019.
- Two outlets from Sec-52 shall be plugged by 30.11.2019.
- One outlet from Sec-52 (end) shall be plugged by 30.11.2019.

### **3) Status of STPs**

It was informed as under:

- After commissioning of 6<sup>th</sup> STP (Maloya 5 MGD capacity), now Chandigarh is having the total sewage treatment capacity of 53.85 MGD almost completing the 100% treatment capacity w.r.t. generation of 54 MGD waste water.
- For treatment of remaining 0.15 MGD, STP of capacity 2 MLD at Kishangarh has already been proposed which will be completed by 30.11.2021.
- In order to achieve the stringent parameters, all the STPs shall be upgraded by 30.11.2021.

### **4) Water Quality of Sukhna Choe and N-Choe**

It was apprised as under:

- As per the analysis results of the year, 2019, the value of BOD in N-Choe at the exit point of Chandigarh was observed as 84 mg/l and no heavy metals were detected.
- As per the analysis results of the year, 2019, the value of BOD in Sukhna-Choe at the exit point of Chandigarh was observed as 71 mg/l and no heavy metals were detected.

### **B) Issues relating to CPCC**

#### **5) Inspection of industries by CPCC**

It was apprised as under:

- 102 electroplating industries were inspected by CPCC.
- 71 industries were found functional.
- Effluent samples of 71 industries were collected.
- Out of 71 industries, 47 units were found complying.
- 24 units were not found complying.
  - ✓ Out of 24 industries, electric connection of 11 units disconnected.
  - ✓ Re-sampling of 10 units is to be carried out.
  - ✓ Show cause notices issued to 3 units.

### C) Issues relating to District level Task Force

#### 6) Inspection of industries by DLTF

- District Level Special Task Force has visited 15 units.
- Out of 15 units, 10 units were found complying with the norms.
- 5 units were found to be non-complying.
- Show cause notices have been issued to these 5 units.

### D) Department of Health

#### 7) Organizing Health check up camps

It was informed that Department of Health is organizing the health check up camp on monthly basis and the latest health camp was organised on 31st July, 2019 in Civil Dispensaries at Village Kaimbwala.

#### 8) Action taken report on the minutes of the last meeting held on 18.7.2019.

Sr. No.	Decision taken in the last meeting held on 18.7.2019	Action taken report
1.	STP at Raipur Kalan of capacity 5.675 MLD and Kishangarh area of capacity 2 MLD shall be completed as per the time schedule.	These STPs shall be completed within the time schedule.
2.	Upgradation of existing STPs to meet with the latest norms	Upgradation of existing STPs to meet with latest norms shall be made as per the time schedule.
3.	Closing of all outlets falling into Sukhna-Choe and N-choe	All outlets into these Choes shall be closed as per the time schedule mentioned in point no. 1 and 2 (page no. 1 and 2).
4.	CPCC shall finalize the legal action against 13 non complying industries within 15 days.	Action against the non complying units including electroplating unit is under process.
5.	Health checkups camps shall be organized on monthly basis.	Health checkups camps are being organized by the Health Department on monthly basis.
6.	Monitoring of water quality of N-Choe and Sukhna-Choe at their exit points.	Water quality of N-Choe and Sukhna-Choe is being carried out on monthly basis.

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#### 9) Interaction with Additional Chief Inspector of factories

The Chairman of the Executive Committee informed the Additional Chief Inspector of Factories that during the visit of the Executing Committee to the industries of Chandigarh area, the working conditions in factories are pathetic and labours are working in very poor environment. There is hardly any



ventilation in the factory buildings and no personal protective equipments have been provided to the workers.

He assured that he shall personally visit the industries and ensure the compliance of the factory rules by the industries for the welfare of the workers and providing good working condition in the factories.

**After detailed deliberation, the following decisions were taken**

- Outlet from industrial area phase-1, colony no.4, falling into Sukhna-Choe shall be closed by 31.12.2019.
- Outlet of village Hallomajra, falling into Sukhna-Choe shall be closed by 31.10.2019.
- Outlet from Bougainvillea Garden, falling into N-Choe shall be closed by 15.9.2019.
- Two points of sewage discharge from Attawa area shall be closed by 31.12.2019.
- One outlet carrying sewage of Sec-53, near furniture market, Chandigarh shall be plugged by 31.10.2019.
- One outlet carrying sewage of Sec-53, near Garden of Spring, Chandigarh, shall be plugged by 31.12.2019.
- One outlet from bridge point, near Beant memorial, shall be closed by 31.10.2019.
- One outlet from Beant memorial shall be closed by 15.9.2019.
- Two outlets from Sec-52 shall be plugged by 30.11.2019.
- One outlet from Sec-52 (end) shall be plugged by 30.11.2019.
- Health check up Camp should be organised on monthly basis and prior intimation should be provided to the Executing Committee.
- The Commissioner, Municipal Corporation, Chandigarh should watch the tendering process and ensure the upgradation of existing STPs and installation of new STPs by 30.11.2021.
- CPCC should regularly inspect the industries and take necessary action under the provisions of the Water Act, 1974 against the defaulting units.
- Additional Chief Inspector of Factories shall inspect the industries and ensure the compliance of the factory rules to provide good environment and healthy condition to the workers of the factories.

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## 2) State of Punjab

Nodal officer PPCB presented the status w.r.t control of pollution in river Ghaggar as under:

### A) Status of Sewage Treatment Plants

- 43 STPs are required to be installed in 30 towns.
- 21 STPs are in operation.
- Out of remaining 22 STPs, which are yet to be completed/constructed, 6 STPs are under construction and are within the timelines as mentioned in the Action Plan.
- The remaining 16 STPs are delayed due to land issues, eligibility criteria for DNIT, tendering process, technology issues, DPRs preparation etc.
- 2 STPs to be installed by MES, have also been delayed and are at tendering and DPR preparation stage.

### B) Upgradation of existing STPs based on WSP

- 4 existing STPs have been delayed and are at DPR preparation stage.

### C) Operational status of STPs

It was appraised as under:

- The monitoring of 21 STPs carried out by PPCB in the months April-July, 2019 indicates that 11-15 STPs have been found complying with the pollution control norms, whereas 6-10 STPs are not meeting with the prescribed standards.
- Show cause notices along with personal hearing have been given to PWSSB for non-complying STPs. Necessary directions have been issued to operate STPs properly and effectively.

### D) STPs in Rural areas

It was informed as under:

- 389 villages have been identified
- 87 villages have been covered to install STPs in Phase-1.
  - ✓ Rs 26.10 crore are required for STPs in 87 villages.
  - ✓ Timeline: 30.6.2020
- 152 villages covered to install STPs in Phase-II.
  - ✓ Rs 45.6 crore are required for STPs in 152 villages.
  - ✓ Timeline: 30.6.2021
- 150 villages covered to install STPs in Phase-III.
  - ✓ Rs 45 crore are required for STPs in 150 villages.
  - ✓ Timeline: 30.6.2022

### **E) Schemes for utilization of treated wastewater for irrigation**

It was informed as under:

- In 9 towns, irrigation network has been laid to utilize treated domestic wastewater for irrigation.
- In 2 towns, irrigation schemes are under progress.
- For 10 towns, 15 irrigation schemes for utilization of treated sewage for irrigation are under process.

### **F) Inspection of industries by PPCB**

It was apprised as under:

- 13 industries located in the catchment area of river Ghaggar have been visited from April, 2019 to June, 2019 and suitable directions have been issued to these industries.

### **G) Surface water quality monitoring**

It was informed as under:

- 14 locations have been fixed for monitoring of water quality of river Ghaggar.
- Based on the analysis study of July, 2019, quality of water remains to class 'D' at the entry and exit point in Punjab.
- At 11 locations in the State of Punjab, the quality of water has been found to be class 'E'.
- Quality of water suddenly deteriorate before and after the confluence point of Sagar Para Drain coming from Haryana.
- The value of BOD in river Ghaggar water at 14 locations has been observed to be varied between 13-65 mg/l in the year, 2018, whereas, in the year, 2019, the value of BOD has been observed as 10-41 mg/l.
- F.coli in river Ghaggar water has been observed to be more than 20000 MPN/100ml in the year, 2018-2019.
- The value of DO in river Ghaggar water at these 14 locations has been found increased in the year, 2019 as compared to previous year of 2018.

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### **H) Ground water quality in the Vicinity of river Ghaggar**

It was informed as under:

- CGWA has carried out ground water sampling at 53 locations, of which 14 ground water samples of hot-spot locations have been analyzed by PBTI.
- All the 14 ground water samples have been found within the permissible limits except the value of chloride, sulphate, magnesium and total hardness which may be due to natural reasons.



## I) Online continuous effluent monitoring system (OCEMS)

It was apprised as under:

- All the industries having discharge more than 50 KLD are required to install OCEMS.
- 26 industries are required to install OCEMS.
- 21 industries have already installed OCEMS.
- 4 industries are in the process of installing OCEMS.
- 1 industry is lying temporary closed.

## J) Monitoring by State Level and District Level Special Task Force

It was informed as under:

- 6 meetings of State level Special task Force have been held to monitor the progress on the Action Plan.
- 4 meetings in each district by the district level special task force have been held.
- Proceedings of the meetings have been uploaded on PPCB website.

## K) Organizing Health camps

It was apprised as under:

- In Patiala, SAS Nagar, Sangrur and Mansa health camps have been organized, where 918, 47, 167 and 51 patients totalling 1183 patients were checked, out of which total 38 patients were found suffered from water borne diseases.

## L) Action taken report on the minutes of the last meeting held on 18.7.2019.

Action taken report on the decisions taken in the last meeting held on 18.7.2019 is as under:

Sr. No.	Decision taken in the last meeting held on 18.7.2019	Action taken report
1.	Identification of culprits throwing their waste into sewerage system leading to STP Zirakpur.	Committee has been constituted to submit detail report regarding source of oil & grease in the STP Zirakpur.
2.	Installation of STPs for town located on river Ghaggar as per time schedule.	Details of STPs have been given in point no. 'A'.
3.	Identification of alternate site for installation of STP at Lalru	Private land is being identified for installation of STP.
4.	Surprise checking of industries by PPCB	The details have been given at point no. 'F'.
5.	Monitoring of STP by PPCB	Monitoring of STP is being carried out on monthly basis.
6.	Operation of irrigation scheme to utilize treated wastewater for irrigation.	<ul style="list-style-type: none"><li>• 9 irrigation scheme have been implemented.</li><li>• 2 irrigation scheme are under installation</li></ul>

7.	Installation new STPs based on new standards as per order of Hon'ble NGT	PWSSB has informed that new STPs shall be installed based on new standards.
8.	Resolving the issue of sudden rise in BOD value in river Ghaggar water after confluence of Sagar Para Drain by PPCB and HSPCB.	PPCB asked HSPCB to look into the matter and take action against the defaulters responsible for discharging untreated/partial treated wastewater in Sagar Para drain leading to river Ghaggar.
9.	Installation of OCEMS by remaining industries by 31.7.2019.	Out of 12 industries, 7 industries have installed OCEMS, 4 industries are in the process of installing OCEMS and 1 industry is lying temporary closed.
10.	Installation of CCTV cameras and OCEMS on STPs.	Out of 21 STPs, which are in operation, CCTV cameras have been installed in 15 STPs and OCEMS on 1 STP.
11.	Inspection of industries by District Level Special Task Forces of districts Mohali, Patiala, Sangrur and Mansa.	Deputy Commissioners of district Mohali, Patiala, Sangrur and Mansa have been requested to visit the industries along catchment area of river Ghaggar.
12.	Carrying out groundwater sampling along river Ghaggar.	Groundwater sampling of 53 locations has been carried out by CGWB, out of which samples of 14 locations have been got analyzed from PBTI.
13.	Installation of STPs by department of Rural Development & Panchayats for villages.	Details have been mentioned at point no. 'D'.
14.	Organizing Health check up camps	Details have been mentioned at point no. 'K'.

**After detail deliberation, the following decisions were taken by the chairman of the Monitoring Committee.**

- 1) The department of Local Government shall resolve all the land issues, eligibility criteria for DNIET, tendering process, technology issues, DPR preparation etc of the remaining 16 STPs by 31.12.2019 and ensure that these STPs may be installed within the time schedule as mentioned in the Action Plan. The proportionate progress w.r.t each STP shall be presented in each meeting of the executive committee.
- 2) Upgradation work of 4 existing STPs may be completed within the time schedule as mentioned in the Action Plan. The proportionate progress w.r.t each STP shall be presented in each meeting of the executive committee.
- 3) PPCB shall take up the matter with Garrison Engineer, MES, Patiala to install STP of capacity 6 MLD for cantonment at Patiala and STP of 1 MLD capacity for cantonment at Nabha, within the time schedule as mentioned in the



Action Plan. The proportionate progress w.r.t each STP shall be presented in each meeting of the executive committee.

- 4) Member Secretary, PPCB shall hold a meeting with Member Secretary, HSPCB to resolve the issue w.r.t sudden rise in the value of BOD in the water of river Ghaggar at confluence point of Sagar Para drain and submit action taken report in the matter in the next meeting of the Executive Committee.
- 5) PPCB shall continuously monitor the STPs which are in operation and take action against the defaulters for not achieving the prescribed standards.
- 6) Department of rural Development & Panchayat shall install STPs to treat the wastewater of the Rural areas as per the time schedule mentioned in the Action Plan. The lists of the 14 villages where treatment systems have been installed and 14 villages where treatment systems are under installation may be submitted in the next meeting of the Executive Committee.
- 7) Irrigation networks for 15 irrigation schemes for 10 towns for utilization of treated sewage for irrigation may be laid at the earliest.
- 8) PPCB shall continuously monitor the effluent treatment plants of the industries and take legal action under the provision of the Water Act, 1974 against the defaulting industries.
- 9) PPCB shall continuously monitor the surface water quality of river Ghaggar at the defined locations and data may be analyzed w.r.t improvement in the quality in terms of various parameters.
- 10) PPCB shall carry out groundwater sampling of the points located in the vicinity of river Ghaggar as per the frequency already decided in earlier meetings.
- 11) PPCB shall get install OCEMS from the remaining 5 industries by 31.08.2019 and the same be got connected to PPCB and CPCB servers. PPCB shall also get connect OCEMS of 7 industries, which have recently installed OCEMS with server of CPCB.
- 12) PPCB shall take up the matter with District Level Special Task Force to visit the industries located in the catchment area of river Ghaggar and action against the defaulting industries may be recommended to PPCB.
- 13) Regular health check up camps may be organized by the department of Health and Family Welfare. PPCB shall take up the matter with concerned Chief Medical Officer in this regard.

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### 3) State of Haryana

Member Secretary, HSPCB presented the status of various activities w.r.t. control of pollution in River Ghaggar as under:

#### 1. Status of Sewage Treatment Plant

- 46 STPs have been installed and commissioned in 27 Towns of 8 Districts by the Public Health Engineering Department of the State.
- 5 STPs in 3 Towns of 3 Districts have been installed and commissioned by HSVP.

#### 2. Status of STPs under construction

- In Panchkula district, 8 STPs in the towns namely Toka, Nangal, Khatoli, Kot, Billa, Sukhdarshanpur, Kangowalan, Suketri are under installation and shall be commissioned by 26.10.2019.
- In Ambala District, 4 STPs in the towns namely Barara, Ambala, 12 Cross Road and Khuda Khurd are under installation and shall be commissioned by 31.10.2019, 31.3.2020, 4.2.2020 and 4.2.2020, respectively.
- In Kurukshetra District, 1 STP in Kurukshetra town shall be completed by 31.12.2019,
- In Jind town, 1 STP shall be completed by 30.12.2019.
- In Village Dabra of District Hisar, STP shall be completed by 05.02.2020.
- In Sirsa town, STP shall be completed by 30.11.2019.
- In Jakhal Mandi, STP shall be completed by 31.08.2019.

#### 3. List of industries inspected by HSPCB in July, 2019

It was apprised as under:

- HSPCB has inspected 3 industries in the month July 2019 and effluent samples of these industries were not found meeting with the prescribed standards, as such, show cause notices have been issued to these industries.

Chairman of the Monitoring Committee desired that more industries shall be inspected by HSPCB and surprise checking of the industries may also be conducted by the Board.

#### 4. Inspection of STPs by HSPCB in July, 2019

It was apprised as under:

- HSPCB has inspected 5 STPs in the month July, 2019 and all the STPs are found meeting with the standards prescribed by the Board.
- No action is required to be taken against the operators of the STPs.

## **5. Status of irrigation schemes to be implemented to utilize the treated sewage**

It was apprised as under:

- A pilot project by irrigation department for installation of solar / grid powered micro irrigation infrastructure on STPs for utilization of treated sewage for irrigation has been completed on 31.01.2019 and irrigation facility has been created for 76 hectares in Pehowa block.
- Testing of the equipments / pipe lines network is under process.
- Regular irrigation scheme is likely to be started in the next crop season.
- After watching success story of the above pilot project, similar projects will be replicated in other blocks of the district.
- Another project costing Rs. 235.94 crores for recycle and reuse of treated wastewater of the towns for irrigation has been planned by irrigation department.
- In the first phase, treated wastewater from STPs of Fatehabad, Sirsa, Hisar and Jind districts costing Rs. 87 Crores has been planned and administrative approval has been obtained but no funds have been provided by Govt..
- Accordingly, in order to get the funds, project has been submitted to agriculture department of the State.

## **6. Status of installation of STPs for the villages having discharge more than 300 KLD.**

- No action has been taken by Department of Rural Development & Panchayat.

## **7. Ground water sample collection in July, 2019**

It was apprised as under:

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- 33 Ground water sample have been collected from various locations located in the catchment area of River Ghaggar in districts Panchkula, Ambala, Kurukshetra, Kaithal, Jind, Fatehabad, Hisar and Sirsa.
  - Out of these 33 ground water samples, 5 samples are not found complying with the norms, whereas, remaining 28 samples are meeting with the norms.



## 8. Status of Health camps organized

It was informed as under:

In 8 districts (Panchkula, Ambala, Kurukshetra, Kaithal, Jind, Fatehabad, Hisar and Sirsa ) located in the catchment area of River Ghaggar, Health Check up Camps have been organized.

- 21 Health Check up Camps have been organized.
- Out of the 21 Health Check up Camps, 14 camps have been organized in district Kaithal, where 565 patients were examined in different villages.
- Out of remaining 7 camps, 3 camps have been organized in district Ambala, 2 camps in Fatehabad, where, 54 patients were examined and in district Sirsa 2 Health Check up Camps were organized, where, 84 patients were examined.

## 9. Action taken report of District Level Special Task Force

- In was informed that District Level Special Task Force of the all the 8 districts have submitted their action taken report for the month July 2019.
- Action taken reports of District Level Special Task Force are being uploaded on the website of HPSCB.

## 10. Water quality of river Ghaggar

- It was informed that water quality of River Ghaggar is checked at 38 locations, which have been jointly fixed by 3 States and U.T., Chandigarh.
- Besides, water quality of River Ghaggar is analyzed at 4 locations in District Hisar and 21 locations in district Jind.
- There is no improvement in the water quality of River Ghaggar w.r.t. T.Coli parameter, which indicates that chlorination is hardly being given to any STP to kill T.Coli.

## 11. Action taken report on the decisions taken 13<sup>th</sup> meeting held on 18.7.2019

The action report was submitted as under:

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Sr. No.	Decisions taken in the 13 <sup>th</sup> meeting held on 18.7.2019	Action taken report
1.	Installation of STPs for the towns located on the drains / Nallah leading to River Ghaggar	The report has been mentioned at point 1. & 2.
2.	Monitoring of ETPs of the industries by HSPCB	Report has been mentioned at point no. 3.
3.	Monitoring of STPs by HSPCB	Report has been mentioned at point no. 4.
4.	Preparation of irrigation schemes for utilization of treated sewage for irrigation	Report has been mentioned at point no. 5.

5.	Installation of STPs for the villages having discharge more than 300 KLD	No scheme has been prepared so far.
6.	Preparation of irrigation schemes for utilization of treated sewage of villages for irrigation scheme	No scheme has been prepared so far.
7.	Ground water monitoring by HSPCB	Report has been mentioned at point no. 7.
8.	Organizing Health Checkup Camps	Report has been mentioned at point no. 8.
9.	Carrying leachability test by HSPCB	Matter referred to Scientific Branch of HSPCB.
10.	Provisions of GPS system on sewage carrying tankers	Necessary directions have been issued to ULB department for installation of GPS system on the tankers.
11.	Installation of new STPs as per the new standards mentioned in order dated 30.4.2019 of Hon'ble NGT in OA No. 1069 of 2018	Necessary directions have been issued to concerned departments.
12.	Inspection of industries by DLSTF	DO letters have been issued to all the DC's of the State.
13.	Monitoring of water quality of River Ghaggar	Report has been mentioned at point no. 10.
14.	Installation of OCEMS by the industries for monitoring of ETPs	4 units have already installed OCEMS. Out of 60 OCEMS to be installed on the STPs, 52 OCEMS have been installed on STPs.
15.	Submission of performance guarantee as per order of Hon'ble NGT in OA No. 673 of 2018.	Performance guarantee will be submitted by PHED.
16.	Plantation of trees by HSPCB along Sukhna Choe	Action under process
17.	Installation of OCEMS into drain / nallah leading to River Ghaggar by HSPCB.	Action under process

**After detailed deliberation, the following decisions were taken:**

1. The Deptt. of Urban Local Bodies shall install and commission all the STPs for the towns located in the catchment area of River Ghaggar as per the time schedule mentioned at point no. 2 (page 9 and 10).
2. HSPCB shall continuously monitor the STPs of the towns and take action against the defaulters for not achieving the prescribed standards.
3. HSPCB shall inspect more industries located in the catchment area of River Ghaggar, collect effluent samples of the industries and legal action under the provisions of the Water Act, 1974 may be taken against the defaulting industries.
4. State of Haryana shall prepare the irrigation schemes for utilization of treated sewage of all the towns located on the catchment area of River Ghaggar by 31.12.2019 and shall arrange funds for the same.

5. The Deptt. of Rural Development & Panchayat shall install STPs for the villages located on the catchment area of River Ghaggar and having discharge more than 300 KLD by 31.3.2021.
6. HSPCB shall carry out ground water sampling of the points already identified by it as per the sampling schedule already decided in the earlier meetings and the ground water samples, which are not meeting with the prescribed norms, may not be allowed to be used by the public.
7. Deptt. of Health & Family Welfare shall regularly conduct Health Check up Camps in the towns / villages located in the catchment area of River Ghaggar.
8. District Level Special Task Force of all the districts shall visit the industries and other water polluting sources on monthly basis and action may be recommended to HSPCB against the violating industries / culprits.
9. HSPCB shall monitor the water quality of River Ghaggar at different locations as already earmarked and data may be analysed w.r.t. improvement in the water quality of the River Ghaggar.

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#### **4. State of Himachal Pradesh**

##### **a) Status of existing STPs**

It was apprised that presently, no STP exists in Parwanoo and Kala Amb area.

##### **b) Status of STPs under construction**

It was apprised as under:

- Sukhna Nallah at Parwanoo and River Markanda at Kala Amb fall in the catchment area of River Ghaggar.
- Parwanoo town located on Sukhna Nallah.
- For installation of STPs for Parwanoo town, land has been finalized and shall be commissioned by 31.01.2022.
- Kala Amb town located on River Markanda.
- One CETP cum STP of capacity 5 MLD costing Rs. 23 Crores shall be installed in Kala Amb area for which DPR has been prepared. Land for CETP has been acquired by Deptt. of Industries. EC has been applied by SPV.

##### **c) List of industries inspection by HPPCB in August, 2019**

It was apprised as under:

###### **▪ Sukhna at Parwanoo**

- 6 Industries were inspected by HPPCB.
- Analysis results of the effluent samples, collected from these industries, are awaited.

###### **▪ River Markanda at Kala Amb**

- 22 industries were inspected HPPCB in the month July, 2019.
- ETPs of all the industries were found in operation.
- No major violations/observations were observed in any of the ETP of these industries.

##### **d) Inspection of STPs by HPPCB**

There is no STP in Parwanoo and Kala Amb area, as such, no inspection is applicable.

##### **e) Status of irrigation schemes to be implemented to utilize the treated sewage**

It was informed that no irrigation scheme either operational or proposed in Parwanoo and Kala Amb area.

**f) Status of installation of STPs for the villages having discharge more than 300 KLD**

It was apprised as under:

- 2 STPs have been proposed by I& PH department Solan, which shall also include village areas.
- 1 CETP of capacity 5 MLD costing Rs. 23 Crores shall be installed in Kala Amb area for which DPR has been prepared. Land for CETP has been acquired by Deptt. of Industries. EC has been applied by SPV.

**g) Ground water sample collection in July, 2019**

▪ **Sukhna Nallah at Parwanoo**

It was apprised as under:

- Fresh water supply through Lift Water Supply Scheme on River Kaushalya is there.
- Water quality of this river is meeting Class 'A'.
- 2 rounds of ground water samples have been completed but no contamination has been found.
- One ground water sample has been collected in August, 2019. Result awaited.

▪ **River Markanda at Kala Amb**

It was apprised as under:

- 39 ground water samples have been collected by HPPCB and I& PH from Kala Amb area. Results awaited.

**h) Status of Health camps organized**

▪ **Sukhna Nallah at Parwanoo**

It was informed as under:

7 health camps have been organized till date by Health department.

▪ **River Markanda at Kala Amb**

It was informed as under:

- 7 health camps have been organized by Deptt. of Health & Family Welfare in Kala Amb area and about 1500 patients have been examined.
- In July 2019, health camp was organized by Kala Amb area and about 250 patients were examined.

**i) Action taken report of District Level Special Task Force**

▪ **Sukhna Nallah at Parwanoo**

It was informed as under:

- 7 meetings of DLSTF have been held.
- Closure directions have been issued to 15 units.
- Challans have been issued for solid waste burning and plastic littering.
- Survey for real time water quality station done with I & PH, Solan.
- Joint inspection for land finalization for STPs at Parwanoo area was made.

▪ **River Markanda at Kala Amb**

It was informed as under:

- All water polluting industries in Kala Amb area were inspected.
- 14 effluent samples from outlet of ETPs of the industries were collected in July, 2019. Analysis results are awaited.
- HPPCB imposed environmental compensation of Rs. 18750/- on M/s Bhandari Katha Udyog, Distt. Sirmour for violation of provisions of Water Act, 1974.
- 10 meetings of DLSTF have been held.
- DPR for installation of CETP has been prepared and estimated cost of the same is Rs. 23 crores. Land for CETP has been acquired by the Deptt. of Industries.

j) **Water quality of river Ghaggar (Jan, 2018 to Dec, 2018)**

▪ **Sukhna Nallah at Parwanoo**

It was informed as under:

- HPPCB is not directly monitoring water quality of River Ghaggar as the same does not flow through its territory.
- HPPCB is monitoring water quality of Sukhna Nallah on monthly basis.
- No industry in the catchment area of Sukhna Nallah discharge wastewater directly into River Ghaggar.
- Water quality monitored from Sukhna Nallah before confluence with River Kaushalya indicate the value of BOD and COD as 4.8 mg/l and 40 mg/l, respectively.
- Water quality of Kaushalya River after confluence of Sukhna Nallah was monitored and analysis results indicate the value of BOD and COD as 2 mg/l and 5 mg/l, respectively.
- At exist point of HP, Near Kalka, water of Sukhna Nallah was found containing BOD between 8-28 mg/l and COD as 60-104 mg/l.

▪ **River Markanda at Kala Amb**

It was informed as under:

- Water quality of River Markanda up stream of Jattan Walla Drain indicate the value of BOD as 0.8 mg/l and T.Coli as 79 MPN/100 ml.



- Water quality of Jattan Walla Drain indicate the value of BOD as 45 mg/l and T.Coli as 180000 MPN/100 ml.

**k) Water quality of river Ghaggar (Jan, 2019 to August, 2019)**

▪ **Sukhna Nallah at Parwanoo**

It was informed as under:

- HPPCB is monitoring water quality of Sukhna Nallah on monthly basis.
- No industry in the catchment area of Sukhna Nallah discharge wastewater directly into River Ghaggar.
- The water quality of Sukhna Nallah at exit point of HP near Kalka indicate the value of BOD varying between 0.6 – 72 mg/l and COD value between 8-280 mg/l.

▪ **River Markanda at Kala Amb**

No analysis results were submitted for the period January, 2019 to August, 2019.

**L) Action taken report on the decisions taken 13<sup>th</sup> meeting held on 2.8.2019**

**The action report was submitted as under:**

▪ **Sukhna Nallah at Parwanoo**

- Regarding ZLD technology to be adopted by electroplating industries and other highly polluting industries, 2 meeting were held on 20.8.2019 and 21.08.2019.
- Inspection and sampling of all water pollution industries in catchment area of Sukhna Nallah was carried out.
- Closure directions u/s 33-A of the Water Act, 1974 have been issued against one industrial unit.
- HPPCB carried out cleanliness drive in Parwanoo area in June 2019 and about 350 participants from various industries, schools and Government offices participated and 20 MT solid waste was collected from Samtel Nallah.
- 7 meetings of DLSTF have been held.
- Funds for real time OCEMS stations have been released by HPPCB and I & PH. OCEMS shall be installed in River Kaushalya by 31.08.2019.
- Proposal has been prepared for installation of 2 STPs each of capacity 1 MLD and the same are likely to be completed by 31.01.2022.
- One pilot basis bio digester shall be made functional by 31.08.2019

▪ **River Markanda at Kala Amb**

- Inspection of all the water pollution industries in Kala Amb area has been carried out by HPPCB. 14 effluent samples have been collected and the analysis results are awaited.

- HPPCB has imposed an EC amounting to Rs. 18750/- on M/s Bhandari Katha Udyog, Distt. Sirmour for violation of provisions of the Water Act, 1974.
- Water samples of River Markanda up stream Kala Amb, downstream Kala Amb and Jattan Walla drain are being collected on monthly basis.
- 10 meetings of DLSTF have been held.
- DPR for installation of CETP of capacity 5 MLD costing Rs. 23 Crore has been prepared. Land for CETP has been acquired by DIC.
- Site for setting up of solid waste management facility has been identified.
- Funds for installation of OCEMS have been released by HPPCB.
- HPPCB started cleanliness drive in Kala Amb area from 19.6.2019 to 21.6.2019 in which about 400 participants from various industries, school and Government offices were participated and more than 15 MT of solid waste from various streams of Kala Amb area was collected.

**After detailed deliberation, the following decisions were taken:**

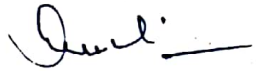
1. 2 STPs each of capacity 1 MLD for treatment of sewage of Parwanoo area shall be installed and commissioned by 31.03.2021.
2. 1 CETP cum STP of capacity 5 MLD shall be installed and commissioned to treat sewage / industrial effluent of Kala Amb area by 31.03.2021.
3. HPPCB shall inspect the water polluting industries falling in catchment area of Sukhna Nallah on monthly basis. Surprise inspection of the industries may also be carried out. Action against the defaulting units may be taken.
4. HPPCB shall inspect the water polluting industries falling in catchment area of River Markanda and Jattan Walla Nallah on monthly basis. Surprise inspection of the industries may also be carried out. Action against the defaulting units may be taken.
5. The State of Himachal Pradesh shall prepare irrigation schemes for utilization of treated sewage of Parwanoo area and Kala Amb area by 31.12.2019 and funds for the same shall be arranged.
6. Ground water samples from different locations along Sukhna Nallah, Markanda River and Jattan Walla Nallah may be collected as per the frequency already decided in the earlier meetings and data may be analyzed w.r.t. water quality of the ground water of the area.
7. Deptt. of Health & Family Welfare shall regularly conduct Health Check up Camps in the towns / villages located in the catchment area of Sukhna Nallah, River Markanda and Jattan Walla Nallah.
8. District Level Special Task Force of the concerned districts shall visit the industries and other water polluting sources on monthly basis and action may be recommended to HPPCB against the violating industries / culprits.

9. HPPCB shall monitor the water quality of Sukhna Nallah, River Markanda and Jattan Walla Nallah and river Kaushalya at different locations as already earmarked and data may be analysed w.r.t. improvement in the water quality of Sukhna Nallah, River Markanda and Jattan Walla Nallah.

  
**Dr. Babu Ram** 31/5/2019

Member, Executive Committee

Minutes approved.



**( Justice Pritam Pal )**

Former Judge, Punjab and Haryana  
High Court,

(Chairman of the Executive Committee)



**List of the Participants****A) Members of the Monitoring Committee**

Sr. No	Name and Designation	Designation in the Committee
1.	Justice Pritam Pal, former Judge, Punjab & Haryana High Court	Chairman
2.	Dr. Babu Ram, Former Member Secretary, PPCB	Member
3.	Dr. V.K Hatwal, Additional Director, MOEF, Chandigarh	Member

**B) List of the officers of U.T Chandigarh, State of Punjab, State of Haryana and State of Himachal Pradesh****a) U.T Chandigarh**

Sr. No.	Name, Designation & Department
1.	Sh. K. K. Yadav, IAS Commissioner, Municipal Corporation, Chandigarh
2.	Sh. T.C. Nautiyal, IFS, Member Secretary, CPCC
3.	Sh. Mukesh Bansal, Chief Engineer, Municipal Corporation, Chandigarh
4.	Sh. Varun Benipal, Addl. Chief Inspector of Factories
5.	Sh. Ramesh Dhiman, Labour Inspector & Factory Inspector
6.	Sh. Vivek Pandey, Scientist 'B', CPCC

**b) State of Punjab****a) Department of Science, Technology and Environment**

Sr. No.	Name, Designation & Department
1	Sh. Rakesh Kumar Verma, IAS, Principal Secretary, Department of Science, Technology & Environment
2	Sh. Pardeep Garg, Additional Director, Department of Environment, Chandigarh

**b) Officers of other Departments/Boards/Corporations**

Sr. No.	Name, Designation & Department
1.	1) Er. Krunesh Garg, Member Secretary, Punjab Pollution Control Board.
2.	2) Er. V.K. Garg, Chief Engineer, PWSSB.
3.	3) Ms. Lovejeet Kalsi, ACA, PUDA
4.	4) Er. Pankaj Mehmi, Executive Engineer, PUDA
5.	5) Er. Tejpal Singh, Executive Engineer, Rural Department & Panchayat.
6.	6) Er. Lata Chauhan, Supertending Engineer, PWSSB.
7.	7) Sh. Gurdarshan Singh, EO, MC, Derabassi
8.	8) Sh. Gurdeep Singh, EO, MC, Banur
9.	9) Sh. S.K. Sharma, Executive Engineer, PSIEC.
10.	10) Er. Bholu Tiwai, Garrison Engineer (South), MES, Patiala
11.	2) Er. S.S. Matharu, Environmental Engineer, Punjab Pollution Control Board, Regional Office, Hoshiarpur

**c) State of Haryana**

<b>Sr. No.</b>	<b>Name, Designation &amp; Department</b>
1.	Sh. Anand Mohan Sharan, IAS, Principal Secretary, ULB, Haryana, Chandigarh
2.	Sh. S. Naryanan, IFS, Member Secretary, HSPCB, Panchkula
3.	Sh. K.K. Verma, Chief Engineer, Public Health Engineering Department, Panchkula
4.	Sh. Naresh Pawar, Chief Engineer, HSVP, Panchkula
5.	Sh. Phool Singh Nain, Chief Engineer, Irrigation Department, Haryana, Panchkula
6.	Dr. Sanjay Sharma, Deputy Director, Health Department, Panchkula
7.	Sh. J.P. Singh, Environmental Engineer, HSPCB, Panchkula
8.	Sh. Mandeep Singh, XEN, MC, Panchkula
9.	Sh. N.K. Payal, XEN, HSVP, Panchkula
10.	Sh. R.K Mago, ME, Thanesar, Kurukshetra
11.	Sh. B.N. Bharti, EO, M.C. Thanesar, Kurukshetra
12.	Sh. Hari Krishan Sharma, EE, MC, Hisar
13.	Sh. Ranvir Singh, SDE, ULBD, Panchkula

**d) State of Himachal Pradesh**

<b>Sr. No.</b>	<b>Name, Designation &amp; Department</b>
1.	Shri, Lalit Jain, IAS, Director, Rural Development, GoHP
2.	Dr. Sharwan Kumar, SEE, HPPCB, RO Ponta Sahib
3.	Er. SK Shandil, EE, HPPCB cum Nodal Officer
4.	Dr. Sanjay Sharma, Deputy Director, Health, Shimla
5.	Dr. KK Parashar, CMO, Nahan
6.	Dr. Mahesh Sharma, MS, Solan
7.	Dr. Gagan Deep Raj Hans, Deptt. of Health
8.	Shri, SumitSood, Ex En, I&PH, Solan
9.	Rajesh K Jharta, Consultant, RDDHO
10.	Er. Lalit Thakur, AEE HPPCB Sub Regional Office Kala Amb