

OFFICE OF THE EXECUTIVE COMMITTEE

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

(Official Address: Tower No.5, 4th Floor, Forest Complex,
Sector 68, SAS Nagar) Tel. No. 0172-2298091
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To

1. The Member Secretary
Punjab Pollution Control Board,
Patiala.
2. The Member Secretary
Haryana State Pollution Control Board,
Panchkula.
3. The Member Secretary
Himachal Pradesh Pollution Control Board,
Shimla.
4. The Member Secretary
Chandigarh Pollution Control Committee,
Sector 19,
Chandigarh

No. CEC/2020/712-715

Dated: 5.2.2020

Subject: Minutes of the 16th meeting held under the Chairmanship of Justice Pritam Pal, Former Judge, Punjab & Haryana High Court, and now as Chairman of the Executive Committee constituted by the Hon'ble NGT in OA no. 138 & 139 of 2016 in the matter of "Stench Grips Mansa's Sacred Ghaggar River (Suo-Moto case) with the State level officers of State of Punjab, Haryana, Himachal Pradesh & Chandigarh on 24.01.2020 at 11.00 AM onwards in the committee room, MGSIPA, Sector-26, Chandigarh.

Please find enclosed herewith Minutes of the 16th meeting held under the Chairmanship of Justice Pritam Pal, Former Judge, Punjab & Haryana High Court, and now as Chairman of the Executive Committee constituted by the Hon'ble NGT in OA no. 138 & 139 of 2016 in the matter of "Stench Grips Mansa's Sacred Ghaggar River (Suo-Moto case) with the State level officers of State of Punjab, Haryana, Himachal Pradesh & Chandigarh on 24.01.2020 at 11.00 AM onwards in the committee room, MGSIPA, Sector-26, Chandigarh for your kind information and necessary action please.

It is requested that these minutes may be sent to all the Officers of concerned department on you State with the request to take necessary action on the items relating to them and action taken report be submitted to the Executive Committee within 15 days.


(Dr. Babu Ram)
Technical Expert,
Executive Committee

Endst. No. CEC/2020/716

Dated: 5.2.2020

A copy of the above along with minutes of the meeting are forwarded to the Principal Secretary, Department of Environment, Punjab, Chandigarh for information and necessary action please.


(Dr. Babu Ram)
Technical Expert,
Executive Committee

Endst.No. CEC/2020/717

Dated: 5.2.2020

A copy of the above is forwarded to the Additional Chief Secretary to Government of Haryana, Department of Environment and Climate Change, Room No.39, 7th Floor, Haryana Civil Secretariat, Sector-1, Chandigarh for information and necessary action.


(Dr. Babu Ram)
Technical Expert,
Executive Committee

Endst. No. CEC/2020/718

Dated: 5.2.2020

A copy of the above along with minutes of the meeting are forwarded to the Additional Chief Secretary, Department of Environment, Science & Technology, Shimla for information and necessary action please.


(Dr. Babu Ram)
Technical Expert,
Executive Committee

Endst. No. CEC/2020/719

Dated: 5.2.2020

A copy of the above along with minutes of the meeting are forwarded to the Principal Secretary, Department of Environment, Chandigarh for information and necessary action please.


(Dr. Babu Ram)
Technical Expert,
Executive Committee

Endst. No. CEC/2020/720-723

Dated: 5.2.2020

A copy of the above alongwith minutes of the meeting are forwarded to the following for information and necessary action: -

1. Nodal Officer, Punjab Pollution Control Board, Patiala.
2. Nodal Officer, Haryana Pollution Control Board, Panchkula
3. Nodal Officer, Himachal Pradesh Pollution Control Board, Shimla
4. Nodal Officer, Chandigarh State Pollution Control Committee,
Chandigarh


(Dr. Babu Ram)
Technical Expert,
Executive Committee

Minutes of the 16th meeting held under the Chairmanship of Justice Pritam Pal, Former Judge, Punjab & Haryana High Court, and now as Chairman of the Executive Committee constituted by the Hon'ble NGT in OA no. 138 & 139 of 2016 in the matter of "Stench Grips Mansa's Sacred Ghaggar River (Suo-Moto case) with the State level officers of State of Punjab, Haryana, Himachal Pradesh & Chandigarh on 24.01.2020 at 11.00 AM onwards in the committee room, MGSIPA, Sector-26, Chandigarh.

The following were present in the meeting

a) Members of the Executive Committee

Sr. No.	Name and Designation in the Deptt.	Name & Designation in the Committee
1.	Justice Pritam Pal, Former Judge Punjab & Haryana High Court	Chairman
2.	Sh. Urvashi Gulati, IAS, Former Chief Secretary, Haryana	Member
3.	Sh. J.C Babu, Additional Director, CPCB	Member
4.	Dr. V.K Hatwal, Scientist D, MOEF & CC	Member
4.	Dr.Babu Ram, Former Member Secretary, PPCB	Technical Expert

b) The list of the participants is as per **Annexure-1**

The agenda of the meeting was taken up for discussion as under:

A) State of Punjab

It was apprised as under:

1. Status of STPs in operation and gap in sewage quantity to be treated:

- 45 STPs (1 STP of 0.2 MLD for Bassi Pathana and 1 STP of 0.5 MLD for Banur town have recently been added by PWSSB) are required to be installed in 30 towns.
- 21 STPs are in operation
- Quantity of sewage presently being treated: 170.16 MLD
- Gap in sewage quantity to be treated : 68.6 MLD

2. Status of remaining 24 STPs, which are under construction / planning stage

The monitoring committee was informed as under:

- 15% work of 2 MLD capacity STP in **Boha** town has been completed and is likely to be commissioned by 31.07.2020.
- Tender has been recalled for 2 MLD STP in **Cheema** Town and is likely to be commissioned by 31.10.2020
- For 3 MLD STP for **Bhadson** town, funds are yet to be tied up and is likely to be completed 31.12.2020.
- For 12 MLD STP for **Nabha** town, funds are yet to be tied up and is likely to be completed by 30.06.2021.

- 20% work of 5 MLD capacity STP in **Dhuri** town has been completed and is likely to be commissioned is 31.07.2020.
- For 6 MLD STP for **Dhuri** town, land issue is to be resolved by DC Sangrur and is likely to be completed by 30.11.2020.
- 20% work of 4 MLD capacity STP in **Sangrur** town has been completed and is likely to be commissioned by 31.07.2020.
- For 11 MLD STP for **Sangrur** town, land issue is to be resolved by DC Sangrur and is likely to be completed by 30.11.2020.
- 8 % work of 3 MLD capacity STP in **Bassi Patana** town has been completed and is likely to be commissioned by 31.07.2020.
- For 0.2 MLD STP for **Bassi Patana** town, land issue is to be resolved by DC Fatehgarh Sahib and is likely to be completed by 31.12.2020.
- Tender has been recalled for 3 MLD STP in **Langowal** Town and is likely to be completed by 31.10.2020.
- For 3 MLD STP for **Amloh** town, land issue is to be resolved by DC Fatehgarh Sahib and is likely to be completed by 31.12.2020.
- For 2 MLD STP for **Dera Bassi** town, land issue is to be resolved by DC Mohali and is likely to be completed by 30.10.2020.
- Tender has been recalled for 2 MLD STP in **Dera Bassi** Town and is likely to be completed by 31.10.2020.
- For 1.5 MLD STP for **Lalru** town, land issue is to be resolved by DC Mohali. Likely date of commissioning is 31.03.2021.
- DNIT under approval in case of 1 MLD STP for **Lalru** Town and is likely to be completed by 31.10.2020.
- DNIT under approval in case of 0.35 MLD STP for **Lalru (Gholu Majra)** and is likely to be completed by 31.12.2020.
- DNIT under approval in case of 0.35 MLD STP for **Lalru (Chaundheri Samalheri)** Town and is likely to be completed by 31.12.2020.
- For **Sanour** town, STP of capacity 4 MLD is to be installed under Badi and Chotti Nadi Project and is likely to be completed by 30.06.2022.
- Tender has been recalled for 2 MLD STP in **Ghanour** Town and is likely to be completed by 31.10.2020.
- For **Sirhind** Town, pond water diversion is in progress for installation of 2 MLD STP and is likely to be completed by is 31.07.2020.
- 8 % work of 4 MLD capacity STP in **Sirhind** town has been completed and is likely to be commissioned by 31.07.2020.
- 10 % work of 5 MLD capacity STP in **Sirhind** town has been completed and is likely to be commissioned by 31.07.2020.
- For installation of 0.5 MLD STP at **Banur**, tender has been received and is under progress and is likely to be completed by 31.12.2020.

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3. Up-gradation and capacity enhancement of STPs.

It was informed as under:

- For upgradation of **Bareta** town STP of capacity 3 MLD (WSP), funds are yet to be tied up and is likely to be commissioned by 31.12.2021.
- For upgradation of **Bhikhi** town STP of capacity 3 MLD (WSP), funds are yet to be tied up and is likely to be commissioned by 31.12.2021.
- For upgradation of STP of capacity 4 MLD (WSP) of Sardulgarh Town, funds are yet to be tied up and is likely to be commissioned by 31.12.2021.
- 5 % construction work of enhancement of 46 MLD STP to 61 MLD has been completed, hence is not likely to be commissioned before 31.01.2021.
- 6 MLD STP to be installed by **MES Patiala** is at tendering stage. Likely to be commissioned is 31.12.2020.
- 1 MLD STP to be installed by **MES Nabha** is at DPR scrutiny stage. Likely to be commissioned is 31.12.2020.

4. Performance of existing 21 STPs and action against non-compliant STPs

Sr. no.	Name of the Town	Capacity of STP (MLD)	Performance w.r.t. parameters BOD, TSS, and F.Coli			
			Sep, 2019	Oct, 2019	Nov, 2019	Dec, 2019
1.	Banur	4	Complying	Complying	Complying	Non complying
2.	Bareta	3	Non complying	Non complying	Non complying	Non complying
3.	Bhikhi	3	Non complying	Non complying	Non complying	Complying
4.	Budhlada	6.5	Non complying	Complying	Complying	Complying
5.	MandiGobindgarh	25	Complying	Complying	Complying	Complying
6.	Samana	10	Complying	Complying	Complying	Complying
7.	Sardulgarh	4	Non complying	Complying	Non complying	Non complying
8.	Sunam	8	Complying	Complying	Complying	Complying
9.	Zirakpur	17	Complying	Non complying	Complying	Non complying
10.	Khanauri	3	Complying	Complying	Complying	Complying
11.	Lehragaga	4	Complying	Complying	Complying	Complying
12.	Moonak	3	Complying	Complying	Complying	Complying
13.	Patran	4	Complying	Complying	Complying	Complying
14.	Rajpura	7	Complying	Complying	Complying	Complying
15.	Rajpura	10	Complying	Complying	Complying	Complying
16.	SAS Nagar	45.4	Complying	Non complying	Complying	Complying
17.	MC DeraBassi	4	Complying	Complying	Complying	Non complying
18.	Lalru	1.5	Complying	Complying	Complying	Sample not collected
19.	Patiala	46	Complying	Complying	Complying	Complying
20.	Patiala	10	Complying	Complying	Complying	Complying
21.	Patiala	13	Non complying	Complying	Complying	Complying

Therefore, out of 21 STPs, 4 STP (Bareta, Bhikhi, Sardulgarh and Zirakpur) have not been found complying with the parameters namely BOD, TSS and F.Coli and legal action against the officers of Municipal Councils / PWSSB responsible for operating STPs has been initiated alongwith imposition of EC in case STP Bareta and Sardulgarh.

5. Status of installation of CCTV cameras and OCEMS on 21 existing STPs.

- On 15 STPs operated by PWSSB, CCTV cameras have been installed. OCEMS has been installed only in case of STP Mandi Gobindgarh (25 MLD). In other STPs, no OCEMS has been installed.
- 01 STP, being operated by GMADA, has not been provided with CCTV cameras and OCEMS.
- MC Patiala is operating 2 STPs which have been provided with CCTV cameras but no OCEMS has been installed with these STPs.
- 01 STP, being operated by PDA CCTV cameras has been setup but no OCEMS has been installed.
- 01 STP operated by MC Lalru has neither been provided with CCTV cameras nor with OCEMS.
- 01 STP operated by MC DeraBassi has neither been provided with CCTV cameras nor with OCEMS.

6. Status of Treatment facilities in Rural areas

The status was submitted as under:

- 87 villages have been covered in phase-1 out of total 389 villages identified for installation of treatment facility.
- Presently, treatment systems in 21 villages have been installed.
- In 7 villages, treatment facilities are under construction.
- In 59 villages, no work has been started w.r.t installation of treatment system.

7. Utilization of treated sewage of town for irrigation

The status was reported as under:

- For utilization of 43 MLD treated sewage of 9 towns, irrigation schemes have been formulated to irrigate an agriculture land measuring 1283 ha.
- For utilization of treated sewage of 2 towns (Khanauri : 3 MLD, Rajpura: 7 MLD), irrigation schemes for irrigation of 250 ha. of land are under construction and shall be completed by 30.06.2020 and 31.03.2020.
- To utilize the treated sewage of 4 towns for irrigation, funds have been tied up but the construction work of irrigation schemes is yet to be started.
- For 4 towns, STPs have been installed but for the utilization of treated sewage for irrigation of these towns, funds are yet to be tied up.

- For 20 towns for which STPs are either under construction or under planning, funds are yet to be tied up for installation of irrigation schemes.
- For 4 towns (Budhlada : 6.5 MLD, Zirakpur : 17 MLD, SAS Nagar: 4 MLD & MC Derabassi: 4 MLD), irrigations schemes are not feasible.
- For 2 STPs (0.2 MLD STP for Bassi Pathana and 0.5 MLD STP for Banur town have recently been added by PWSSB), irrigation schemes are yet to be prepared.

8. Status of inspection of industries and action against the violators:

It was informed as under:

- Total water polluting industries in catchment area of river Ghaggar: 48
- Total quantity of wastewater generated by the industries: 23.79 MLD
- Total wastewater treated : 23.79 MLD
- Gap in treatment capacity : Nil.
- Out of the 48 industries, 16 industries have been inspected and action against the violating industries is under process.

9. Surface water quality monitoring

- For monitoring of water quality of river Ghaggar, 14 locations have been earmarked and monitoring is being carried out on monthly basis.
- The water quality monitoring data indicate that the values of BOD parameter at the following locations have been found varying between 12-32 mg/l.
 - ✓ Bhankarpur
 - ✓ Downstream Jharmal Nadi
 - ✓ Downstream Dhakanshu Nallah
 - ✓ Sagar Para Drain
 - ✓ Downstream Sagar Para Drain
 - ✓ At Khanauri
 - ✓ At Moonak
 - ✓ Downstream of Sardulgarh
- Further, the values of F.coli at all the 14 locations have been found between 14000-28000 MPN /100ml.

10. Status of Ground Water quality in the vicinity of river Ghaggar

It was informed that ground water sampling at 14 locations along river Ghaggar has been carried out. In all the samples inorganic constitutes like chloride, sulphate, magnesium, total hardness have been found higher than the permissible limits. This may be due to geogenic reasons.

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11. Status of installation of OCEMS installed by the industries

- Out of 48 industries located in the catchment area of river Ghaggar, 26 industries are required to install OCEMS, out of which 24 have installed OCEMS and action against the remaining 2 industries (M/s Rainbow Denim & M/s Rana Polycot) which have not installed OCEMS, has been taken by issuing directions u/s 33-A of the Water Act, 1974 and imposing Environmental Compensation amounting to Rs. 75000/-. (M/s Rana Polycot).

12. Meetings of State level Special Task Force (SLSTF) and District Level Special Task Force (DLSTF).

- 6 meetings of the SLSTF have been held to review the progress on the Action Plan.
- 5-7 meetings of the DLSTF of 4 districts (Patiala, SAS Nagar, Sangrur & Mansa) have been held.
- The minutes of the meeting of SLSTF and DLSTF have been uploaded on the website of PPCB.

13. Status of Health Check up Camps

It was informed that 12 health checkup camps have been organized in all the 4 districts (Patiala, SAS Nagar, Sangrur & Mansa) and 1068 patients were examined, out of which 14 patients were found suffering with water borne diseases, 35 patients with diarrhea, scabbies, vomiting and 2 patients with skin diseases.

14. Management of Septage of faecal sludge

The monitoring committee was informed that the Govt. of Punjab has constituted technical committee to suggest various technological options for treatment of wastewater of rural areas. The committee is in the process of framing the guidelines. Besides, ministry of Urban Development has prepared guidelines for management of septage which will be kept in view while preparing guidelines for septage management.

15. Water shed Management

It was informed that Department of Soil and Water Conservation and Department of Water resources are required to explore the possibility of providing water shed management in the catchment area of River Ghaggar.

16. Maintaining Environmental Flow

It was apprised that Member Secretary, PPCB has held meeting with the Chief Engineer, Canal, wherein, it was informed that River Ghaggar is non perennial water body and no fresh water is coming from Himachal Pradesh. It was decided in the meeting that the Department of Water Source shall take up the matter with State of Himachal Pradesh and BBMB to explore the possibility of getting fresh surface water to maintain E-flow in River Ghaggar.

17. Compliance of the decisions of the monitoring committee held on 18.11.2019

Sr. No.	Decisions	Compliance
1	All the new STPs should be installed and Commissioned within the time schedule.	The Department of local Govt. is to ensure the compliance of this point.
2	The upgradation of existing STPs and enhancement of capacity in STPs shall be made as per the time schedule.	The Department of local Govt. is to ensure the compliance of this point.
3	All the STPs should be monitored for all the parameters including F.Coli parameter. STPs may be considered compliant, only if, these meet with the standards prescribed for all the parameters including F.Coli parameters.	The Punjab Pollution Control Board is considering all the four parameters such as pH, TSS, BOD and F.Coli to check the quality of treated wastewater of STPs.
4	All the STPs, to be installed in rural areas, should be installed as per proposal made by the department of Rural Development and Panchayat and these may be installed before 31.03.2021.	As of now STPs have been installed in 21 villages and STPs in 07 villages are under construction.
5	<p>The treated sewage of the towns and rural areas may be utilized for irrigation purpose. The necessary irrigation schemes may be prepared and implemented by the Department of Soil and Water conservation/ Department of Water Resources in a time bound manner.</p> <p>However, regarding use of treated sewage for irrigation, its quality may be compared with water quality as prescribed by Agriculture University of the State.</p>	<p>The Present Status of Irrigation Schemes from STPs is as per following</p> <ul style="list-style-type: none"> • 9 irrigation schemes have been commissioned. • 2 irrigation schemes are under installation. • 4 Irrigation Projects sanctioned under Rural Infrastructure Development Funds (RIDF) by State Govt. but funds have not been released as yet. • Funds have not tied up for 4 STPs which have been already been commissioned and for 20 STPs under construction/ planning stage. • Irrigation schemes from 4 STPs not feasible due to non availability of irrigation command area.
6	Punjab Pollution Control Board shall increase the surveillance of industries by way of making surprise inspections/ random checking of industries and legal action including imposing of environment compensation may be taken against the defaulting industries.	PPCB assured to increase the surveillance of industries by conducting surprise inspections / random checking.

7	<p>While comparing the data w.r.t BOD parameter in the river Ghaggar Water for the months Jan to Oct of the year 2018 and 2019, it was observed that the value of BOD at Rattanheri has been found to be reduced from 55.5 mg/l to 26.10 mg/l, whereas the said value has been increased to 33.60 mg/l at the downstream of Sagar Para drain.</p> <p>The Chairman of Monitoring Committee took the matter seriously and constituted a committee of the following officers to carry out a detailed study of the pollution sources of State of Haryana and State of Punjab which are responsible for contributing high value of BOD in river Ghaggar at the downstream of Sagar Para drain and other points.</p> <ol style="list-style-type: none"> 1. Sh. Krunesh Garg, Member Secretary, PPCB: Head of the Committee. 2. Sh. J.C. Babu, Additional Director, CPCB: Member 3. Sh. S.S. Matharu, Environmental Engineer, PPCB: Member 4. Sh. J.P. Singh, Environmental Engineer, HSPCB: Member. <p>The Committee shall submit its report within one month:</p>	<p>The Committee constituted by the Executive Committee has already planned to visit the sources of Pollution in River Ghaggar on 28 and 29.12.2019. The Committee conducted the visit on 28/12/2019 and 29/12/2019 to the various drains entering into River Ghaggar. Samples of wastewater from various drains were collected and the analysis results of which are yet awaited.</p>
8.	<p>The Chairman of the Monitoring Committee directed that wherever the groundwater quality is found unfit for drinking purposes, such water sources be capped and a display board mentioning that "Water is not fit for drinking purposes" may be placed.</p>	<p>The minutes of the meeting have been conveyed to the PWSSB, Department of Water Supply and Sanitation, Department of Local Govt. and CGWB for ensuring compliance of this decision. Also a reminder has been issued to the said departments to ensure the compliance of this decision.</p>
9	<p>CCTV Cameras should be installed on the remaining 3 STPs by 30.11.2019 and OCEMS on all the 20 STPs should be installed by 31.03.2020.</p>	<p>CCTV Cameras on 3 STPs i.e. 45 MLD at Mohali, 4 MLD at Dera Bassi and 1.5 MLD at Lalru are yet to be installed. OCEMS on 25 MLD capacity STP of Mandi Gobindgarh has been installed and on the other STPs OCEMS is yet to be installed.</p>

10	OCEMS in the remaining industries should be installed by 31.12.2019, failing which suitable directions be issued under the provisions of Water Act, 1974 including imposing of environmental compensation of suitable amount	Out of 26 industries, OCEMS have been installed by 24 industries. Action has been initiated against the remaining two industries.
11	The District Level Task Force shall also visit the industries/pollution source on monthly bases and legal action against the violating industries/responsibility agencies for other pollution sources may be recommended to Punjab Pollution Control Board to take action under the provisions of Water Act, 1974.	None of the District Level Special Task Force visited the industries during the month of December, 2019.
12	In health checkup camps, the patients may be diagnosed especially for water borne diseases in the areas which are located near the bank of River Ghaggar.	During the month of December, 2019, 12 health camps were organized in which 1068 patients were checked, out of which 51 patients were diagnosed suffering from diarrhea, scabies and vomiting's etc.

After detailed deliberations, the following directions were given by the Executive Committee.

1. The construction work of 6 STPs for the town Boha (2MLD), Dhuri (5 MLD), Sangrur (4MLD), Bassi Pathana (3 MLD), Sirhind (4 MLD) and Sirhind (5 MLD) shall be completed by Punjab Water Supply and Sewerage Board by 31.07.2020.
2. 6 MLD STP to be installed by MES Patiala, which is presently at tendering stage, shall be completed by 31.12.2020.
3. 1 MLD STP to be installed by MES Nabha, which is at DPR scrutiny stage, shall be completed by 31.12.2020.
4. 04 STPs for the towns (Cheema: 2MLD, Langowal : 3 MLD, Dera Bassi : 2 MLD, Ghanour : 2 MLD), which are at tendering stage, shall be completed by 31.12.2020.
5. 02 STPs for the towns (Bhadson: 3 MLD, Nabha: 12 MLD) where funds are yet to tied up shall be completed by 31.12.2020.
6. 6 STPs for the towns (Dhuri : 6 MLD, Sangrur : 11 MLD, Bassi Pathana: 0.2 MLD, Amloh : 3 MLD, Dera Bassi : 2 MLD, Lalru: 1.5 MLD), the concerned Deputy Commissioner of the District shall resolve the issue of land for STPs by 28.02.2020.

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7. 03 STPs for the towns [Lalru: 1 MLD, Lalru (Gholu Majra): 0.35 MLD, Lalru (Chandheri Samalheri) : 0.35 MLD] are at DNIT approval stage and these shall be completed by 31.12.2020.
8. STP of capacity 4 MLD for Sanour town to be installed under Badi Chotti Nadi project shall be completed by 31.12.2020.
9. For Sirhind town, where the pond water diversion process is in progress for installation of 2 MLD STP, the same shall be completed by 31.07.2020.
10. For installation of 0.5 MLD STP at Banur for which tender has been received and is under progress, the same shall be commissioned by 31.12.2020.
11. The up-gradation work of 3 STPs (Bareta 3 MLD, Bhikki 3 MLD and Sardulgarh: 4 MLD) shall be completed by 31.12.2021.
12. The construction work of enhancement of 46 MLD to 61 MLD shall be completed by 31.12.2020.
13. In order to improve the performance of 4 STPs, (Zirakpur, Bareta, Bhikki & Sardulgarh), upgradation work of STPs Bareta, Bhikki and Sardulgarh may be taken on priority and shall be completed by 31.12.2020. In case of STP Zirakpur, detailed study w.r.t operation of various components of STPs may be carried out and reasons for its non performance may be identified and shall be rectified by 31.03.2020.
14. The treatment facilities which are under construction in 7 villages, shall be completed by 30.06.2020.
15. The treatment facilities for the remaining 59 villages, out of 87 villages covered in phase 1, shall be installed by 30.09.2020.
16. Irrigations schemes for utilization of treated sewage of 2 towns (Khanauri : 3 MLD, Rajpura : 7 MLD) shall be completed by 31.03.2020.
17. Irrigations schemes for utilization of treated sewage of remaining 10 towns, out of total 21 towns, shall be installed by 31.12.2020.
18. PPCB shall continue to inspect the industries through surprise inspections and through Environment protection squad and action against the defaulting industries may be taken under the provisions of Water Act, 1974.
19. In order to improve the water quality of river Ghaggar, all the STPs should be completed within the time schedule and no untreated sewage may be allowed to discharge into the river. Also, all the existing STPs should achieve the prescribed standards.
20. PPCB shall continue to monitor the ground water quality of ground water sources located along the catchment area of river Ghaggar as per the time schedule already decided in the earlier meetings. In case ground water of any tubewell/ hand pump is found containing contaminants, the said water source shall be capped and display boards be erected at sites mentioning that "water is not fit for drinking purpose."

21. CCTV cameras and OCEMS at inflow, outflow of any bypass system shall be installed on all the STPs by 31.03.2020.
22. PPCB shall get install OCEMS from the remaining 02 industries (M/s Rainbow Denim & M/s Rana Polycot) by 31.3.2020.
23. For management of Septage and faecal sludge, PPCB shall take up the matter with the State Govt. regarding finalization of the report of the committee constituted by the State Govt. and take immediate steps to suggest remedial measures to be taken to manage septage and faecal sludge by the concerned department of State of Punjab.
24. The department of Soil and Water conservation and Department of Resources shall explore the possibility of providing Water Shed Management in catchment area of River Ghaggar within 1 months.
25. In order to maintain Environmental Flow (E-Flow) in the river Ghaggar, the department of water source shall explore the possibility of providing check dams/ barrier in the catchment area of river Ghaggar to store the surface run off during rainy season and to release the water in river Ghaggar in regulated way so that Environmental Flow may be maintained in the river. Besides, the department of Water Resource shall take up with the matter with State of Himachal Pradesh and BBMB to explore the possibility of getting fresh surface water to maintain E-flow in River Ghaggar.

B) State of Haryana

The representative of Haryana State Pollution Control Board apprised the status as under:

1. Status of installation of new STPs

- 17 new STPs of 123 MLD capacity have been proposed to be constructed in the catchment of river Ghaggar.
- 6 STPs of 74 MLDs (Out of 17 STPs) have been constructed.
- 11 STPs of 49 MLD capacity are under construction.

2. Up gradation of existing STPs/ capacity enhancement of STPs

- 32 existing STPs of 179.5 MLD capacity are under up gradation.

3. Performance of existing STPs

- 62 STPs have been installed in the catchment of river Ghaggar.
- 1 STP out of 62 STPs is not meeting with BOD parameter.
- All the 62 STPs are not meeting with F-coli parameter.

4. Status of STPs in rural areas.

- 45 villages (7 villages of District Fatehabad, 7 villages of District Panchkula, 2 of District Sirsa and 29 of District Kaithal), falling in the catchment area of River Ghaggar, have been identified.

- In 7 villages of District Fatehabad, estimates for installation of STPs are yet to be prepared.
- In 7 villages of District Panchkula, funds for installation of STPs are yet to be approved / released by District authority.
- In 31 villages, neither estimates have been prepared nor funds arrangements have been made for installation of STPs.

5. Management of septage of fecal sludge

It was informed as under:-

- For disposal of septage from rural areas, tankers have been deployed in Hisar, Tohana, Jakhali Mandi, Pehowa, Ambala, Cheeka, Dhabwali, Kethal, Shahbad, Panchkula, Kalayat, Fetehanbad and Thanesar. The septage so collected through tankers is treated in nearby STPs.
- The concerned departments of State of Haryana has been asked to get the STP sludge analysed to check whether it is hazardous or non hazardous in order to decide on the mode of its disposal.

6. Water shed Management

The Executive Committee was apprised as under:

- The Department of Soil & Water Conservation has provided check dams/ earth gully plug and water harvesting systems to cover an area of 60091 ha. 1038 structures costing Rs. 33.64 crores have been constructed.
- 6250 structures under integrated Watershed Development and Management Project have been constructed, costing approximately Rs. 25.22 crores.

7. Environment Flow

It was informed that River Ghaggar is not a perennial river and discharge varies from zero to maximum during flood season, as such E-Flow is not feasible. About 15-20% of the discharge in the lean season is required for maintaining E-flow.

8. Status of utilization of treated sewage for irrigation

The status was submitted as under:

- For utilization of 1.47 MLD treated sewage of STP Pehowa, irrigation scheme to irrigate an area of 76 ha. has been completed and the treated wastewater is being utilized for irrigation.
- For utilization of 1.22 MLD treated sewage of STP Ladwa, irrigation scheme to irrigate an area of 63 ha. has been completed and the treated wastewater is being utilized for irrigation.
- For utilization of 3.0 MLD treated sewage of STP Shahabad, scheme to irrigate an area of 151 ha. has been completed and the treated wastewater is being utilized for irrigation.

- None other irrigation scheme is under construction.
- The department of irrigation has planned to utilize 158 MLD treated sewage of 4 towns (Panipat HSVP STP : 30 MLD, Panipat PHED STP : 60 MLD, Karnal STP : 50 MLD, Karnal H&S) TWW: 18 MLD) for irrigation.

9. Inspection of industries

The Executive Committee was informed as under:

- 198 industries are located in the catchment area of river Ghaggar.
- 117 industries have been inspected from August 2018 till date.
- 73 industries have been found complying.
- 44 industries have been found non-compliant.
- Out of these 44 non compliant industries, 35 industries have been issued closure order and action against 9 industries is under process.

10. Inspection of STPs

HSPCB has inspected all the 62 STPs, out of which 1 STP is found not compliant and action against STP is under process. However, all the 62 STPs are not meet with the F-coli parameter.

11. Status of water quality of River Ghaggar

The data presented by HSPCB indicated that water quality of River Ghaggar has been degraded at the following locations

- Saraswati Drain after discharge of M/s Sainsons Paper Mills
- River Ghaggar after mixing Pachisdhara Drain at Sarala Khurad
- Saraswati Drain at Partap Garh and Pehowa.
- Ghaggar River before meeting river Markanda at village Chiali
- Ghaggar River after mixing Markanda River at village Dhandota
- Patiala Nadi before mixing river Ghaggar
- River Ghaggar after mixing of Patiala Nadi
- Ghaggar River after mixing Sagarpara Drain
- River Ghaggar after mixing Kaithal Drain
- River Ghaggar after mixing of discharge of Moonak Town
- River Ghaggar after meeting Jhambowali Choe
- River Ghaggar after meeting the sewage of Sardulgarh Town
- Ellenabad drain carrying discharge of PHED, STP Ellenabad

12. Ground water quality in the catchment area of river Ghaggar

It was appraised as under:

- Ground water quality alongwith river Ghaggar at 75 locations (Panchkula:7, Ambala:7, Jind:2, Kaithal:13, Sirsa:28, Fatehabad:18) was analyzed.
- Out of these 75 locations, ground water of 28 locations has been found complying with the norms.

- At 47 locations, the ground water quality is not complying with the norms.
- Display boards have been erected at these locations with caution as "water is not fit for drinking".

13. Installation of CCTV Cameras and OCEMS on ETPs by the industries and STPs

The status was appraised as under:

- 4 industries are required to install OCEMS
- All the 4 industries have installed OCEMS
- 62 STPs have been installed
- CCTV cameras have been installed on 57 STPs
- On 5 STPs, CCTV cameras are yet to provided

14. Status of monthly meeting of District Level Task Force (DLSTF) and 3 monthly meeting of State Level Special Task Force (SLSTF) and their uploading on web site.

The monitoring committee was informed that monthly action taken report of DLSTF and quarterly report of SLSTF are being submitted to the Executive Committee from time to time.

The minutes of the meeting of State Level Special Task Force are being uploaded on website of HSPCB.

15. Status of Health Check Camps

With regard to organizing health check up camps, it was informed that during the period January, 2019 to November, 2019, 118 health checkup camps (Ambala: 20, Fatehabad: 26, Kaithal: 47, Panchkula: 10 and Sirsa: 15) have been organized in which 7732 patients have been examined and they were found suffering with diseases other than water borne diseases.

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After detailed deliberations, the following directions were given by the Executive Committee.

1. 11 STPs of 49 MLD capacity shall be commissioned by 31.12.2020.
2. 32 existing STPs of capacity 179.5 MLD, which are under upgradation, shall be upgraded by 31.12.2020.
3. HSPCB shall issue directions under the provisions of the Water Act, 1974 to all the operating agencies of STPs to make adequate arrangements for disinfections at all STPs to bring F.coli parameter within the norms by 31.03.2020.
4. In 45 villages, treatment facilities shall be provided by Department of Rural Development and Panchayat by 30.06.2020.
5. The Department of Urban Local Bodies and Department of Rural Development and Panchayat shall ensure that no septage and faecal sludge is disposed off

indiscriminately and the same shall be disposed off in nearby STPs having adequate capacity to treat the septage and faecal sludge .

6. The Department of Water sources and Department of Soil and Water Conservation shall identify the stretches in the catchment area of River Ghaggar to provide check dams/ barriers / ponds to store the surface run off during rainy season and the same may be released in a regulated way so as to maintain Environment Flow (E-Flow) in River Ghaggar.
7. For the Water Shed Management, the Department of Soil and Water Conservation shall make adequate arrangements in the catchment area of River Ghaggar.
8. The Department of Irrigation shall provide irrigation network to utilize the treated sewage of all the existing STPs by 31.12.2020.
9. The surveillance on effluent treatment plants of the industries and sewage treatment plants shall be increased by HSPCB for the effective operation of ETP/STPs. The action against the defaulting ETPs/ STPs may be taken under the provisions of Water Act, 1974.
10. In order to maintain water quality in river Ghaggar, the operating agencies of STP shall ensure that no untreated sewage is discharged into drains / Nalahs / Rivers. All the STPs, where the construction work is under progress or at planning stage, shall be completed by 31.12.2020.
11. All the STPs, which require up-gradation, shall be upgraded by 31.12.2020.
12. HSPCB shall monitor the ground water quality of ground water sources along river Ghaggar and ensure that no contaminated ground water is allowed to be consumed by the nearby inhabitants. Wherever, the groundwater quality is found affected, display boards on such sources may be erected mentioning that "water is not fit for drinking".
13. All the STPs of Department of Urban Development, HSVP or any other operating agency shall be installed with OCEMS and CCTV cameras by 31.01.2020.
14. All the minutes of the monthly meetings of DLSTF and quarterly meetings of SLSTF may be uploaded on the website of HSPCB.
15. More health checkup camps may be organized on quarterly basis in the areas located on river Ghaggar. If any patient found affected due to water borne diseases, the same may be reported to the concerned Chief Medical Officer of the concerned district.

C) State of Himachal Pradesh

The representative of HPPCB reported the status as under:

1. Status of installation of new STPs

- 2 STPs, each of capacity 1 MLD, have been proposed to be installed at Parwanoo (Sukhna Nallah catchment area). Tender have been floated and

shall be opened on 31.01.2020. These STPs shall be completed by 31.12.2020.

- One CETP cum STP of capacity 5 MLD has been proposed to be installed in Kala Amb Area (Markanda River Catchment Area). Tendering process shall be completed by 28.02.2020. EC has been applied under EIA notification dated 14.09.2006. CETP cum STP shall be completed by 31.12.2020.

2. Status of STPs in rural areas.

It was informed that villages near Kala Amb area shall be connected to proposed CETP cum STP of capacity 5 MLD.

3. Inspection of industries

- Out of total 49 industries located in the catchment area of Sukhna Nallah, effluent samples of 30 industries have been analyzed, out of which effluent sample of 01 industry has been found above the permissible limits and accordingly show cause notice has been issued to the industry.
- Similarly, in the catchment area of Markanda River, 94 industries are located, out of which effluents samples of 43 industries have been analyzed. Out of 43 industries, effluent sample 01 industry has been found above the norms and action has been taken in terms of disconnection of electric power supply and imposition of environmental composition amounting to Rs. 1,41,750/-.

4. Status of water quality of Sukhna Nallah and Markanda River

- The monitoring data w.r.t BOD parameter in Sukhna Nallah for the period September, 2019 to December, 2019 indicate that BOD is less than 3 mg/l and F-coli are less than 500 MPN/100ml.
- The monitoring data of Markanda River w.r.t BOD parameter indicate that BOD of River Markanda downstream of Jattan wala Nallah has come down from 5 mg/l to 2.5 mg/l.

5. Management of septage of fecal sludge

It was informed that the necessary directions have been issued to MC Parwanoo, BDPO Dharampur and BDPO Nahan to ensure that septage and Fecal sludge is managed in a scientific manner.

6. Environment Flow

It was apprised as under:

- In river Kaushalya near village Kamli, real time water quality monitoring systems (RTWQMS) have been installed to monitor the DO, BOD, TSS, pH and Temperature and these have connectivity with State Board Server.
- Similarly, in river Markanda, RTWQMS for monitoring the water quality and flow measurement has been installed and the same has its connectivity to HPPCB server.

7. Water shed Management

The status was submitted as under:

- The forest Department has submitted that the construction work of 22 check dams and check walls in the catchment of Sukhna Nallah is under process.
- 03 low height dams and 03 rain water harvesting structure have been proposed in the catchment area of river Markanda.

8. Ground water quality in the catchment area of river Ghaggar

It was informed as under:

- 19 ground water samples along Sukhna Nallah have been collected but no contamination has been found.
- Similarly, along the river Markanda, 6 ground water samples have been collected but no ground water contamination has been observed.

9. Status of Health Check Camps

It was informed as under:

- 11 health checkup camp have been organized in Parwanoo area in the month of November & December 2019.
- 2 health check up camps have been organized in catchment of river Markanda during the month of November & December, 2019.

10. Status of monthly meetings of District Level special Task Force (DLSTF) and 3 monthly meetings of State Level Special Task Force (SLSTF) and their uploading on web site.

It was stated as under:

- Minutes of the monthly meeting of District Level Special Task Force of the Districts falling the catchment area of Sukhna Nallah and Markanda River and State Level Special Task Force have been uploaded on the website of HPPCB.

After detailed deliberations, the following directions were given by the Executive Committee.

1. 2 STPs, each of capacity 1 MLD to be installed in Parwanoo area, shall be installed by 31.12.2020.
2. 01 CETP cum STP of capacity 5 MLD in Kala Amb area shall be installed by 31.12.2020.
3. The adjoining villages near Kala Amb area shall be connected to CETP cum STP by 31.12.2020.
4. HPPCB shall continue to check the industries located in the catchment areas of Sukhna Nallah and Markanda River and action against the defaulting industries may be taken under the provisions of the Water Act, 1974.

5. Water quality of Sukhna Nallah and Markanda River at various locations may be checked on monthly basis.
6. HPPCB shall ensure that septage and faecal sludge is disposed off in an environmentally sound manner. Action against the defaulting agencies/ individuals may be taken under the provisions of the Water Act, 1974.
7. Effective steps may be taken by the Department of Water Resources to maintain Environment Flow (E-Flow) in Markanda river and Sukhna Nallah.
8. HPPCB shall carryout the ground water sampling of the ground water sources located in the catchment area of Sukhna Nallah and River Markanda.
9. For Water Shed Management, the Department of Forest shall commission 22 check dams and check walls in the catchment area of Sukhna Nallah by 30.09.2020. In the catchment area of River Markanda, 3 low height dams and 3 rain water harvesting structures shall be completed by 31.12.2020.

D) UT Chandigarh

The representative of CPCC submitted the status as under:

1. Status of installation of new STPs

In Kishangarh area, a new STP of capacity 2 MLD shall be installed by 31.03.2021.

2. Up gradation of Existing STPs

6 existing STPs of capacity 53.85 MGD shall be upgraded to meet with the stringent norms by 31.03.2021.

3. Performance of existing STPs

The status was submitted as under

- 03 STPs (Maloya, 3 BRD and Dhanas) are meeting with the prescribed standards.
- 03 STPs (Diggian, Raipur Kalan and Raipur Khurd) are not complying with the prescribed norms.
- None of the STP is meeting with the coliform standards

4. Closing of the outlets falling into Sukhna Choe

Out of 13 outlets, falling into Sukhna Choe, 12 outlets have been plugged. Remaining one outlet of Babu Dham Colony near bridge on the road connecting IT park with sector 26, Chandigarh shall be closed by 31.01.2020.

5. Closing of outlets falling into N-choe

Out of total 15, outlets falling into N choe, 13 outlets have been closed and the remaining 02 outlets shall be closed by 15.02.2020.

6. Status of water quality of Sukhna Choe

The values of BOD, TSS and F-coli have been found varied between 77-230 mg/l, 83-399 mg/l, 7×10^3 - 9.4×10^6 MPN/100ml, respectively.

7. Status of water quality of N-Choe

The values of BOD, TSS and F-coli have been found varied between 81-109 mg/l, 44-212 mg/l, 2.0×10^3 – 7.9×10^6 MPN/100ml, respectively.

8. Management of Septage and Faecal Sludge

It was informed that since Chandigarh is fully covered with sewerage network and no septic tanks are allowed in Chandigarh, as such there is no generation septage and Faecal sludge.

9. Environment Flow

It was apprised that the Sukhna Choe and N-choe are non perennial drains and carry storm water during rainy season, as such, maintaining of Environment Flow is not possible in case of Chandigarh area.

10. Status of inspection of industries by CPCC and DLSTF

- 68 inspections have been carried out by CPCC during the months October, 2019 January 2020, out of which 5 industries have been found violating the norms and action against these industries is under process.
- 15 industries have been inspected by DLSTF, out of which 5 industries have been found violating the norms. Show cause notices to the violating industries have been issued.

11. Status of Health Check camps

It was informed that health check up camp was organized in the month of November 2019 and no water borne disease was observed in any of the patient.

10 Status of uploading of minutes of the monthly meetings of DLSTF and meetings of State level committee on the web site of CPCC

It was stated that DLSTF monthly report upto November, 2019 has been uploaded on the website of ENVIS.

State level STF has already submitted its fourth quarterly report (July 2019 to September 2019) to CPCB on the website of ENVIS.

After detailed deliberations, the following directions were given by the Executive Committee.

1. A new STP of capacity 2 MLD shall be completed by 31.12.2020.
2. 6 STPs of capacity 53.85 MGD shall be upgraded to meet with the stringent norms by 31.12.2020.
3. Municipal Corporation Chandigarh and UT administration shall operate and maintain STPs in such a way that these may meet with the prescribed norms.
4. Necessary and effective arrangements may be made in the existing STPs to disinfect the coliforms so that these may be brought within the norms.
5. Water quality of Sukhna choe, N-choe and River Ghaggar may be monitored on monthly basis.

6. CPCC and Municipal Corporation Chandigarh shall identify the areas, if any, where online sanitation systems have been provided and prepare the comprehensive plan for management of septage and faecal sludge.
7. CPCC and Municipal Corporation Chandigarh shall identify the stretches of Sukhna choe and N-choes where the Environment Flow can be maintained.
8. CPCC and DLSTF shall inspect more industries of Chandigarh areas and action against the violating industries may be taken under the provisions of Water Act. 1974.
9. All the outlets, falling into Sukhna Choe and N-choe, shall be closed by 15.02.2020.
10. Health check up camps may be organized in the catchment area of Sukhna Choe and N-choe.
11. The minutes of the monthly meetings of DLSTF and quarterly meetings of State level committee may be uploaded on the website of CPCC.

Minutes approved .


(Justice Pritam Pal)
Former Judge Punjab &
Haryana High Court, now
Chairman of Executive Committee


(Dr. Babu Ram)
Technical Expert