



Central Pollution Control Board

(Ministry of Environment, Forest & Climate Change, Govt. of India)

Parivesh Bhawan, East Arjun Nagar,

Delhi – 110032

Minutes of First Meeting of Monitoring Committee held on 10.08.2018 in CPCB for Ensuring Compliance to Hon'ble NGT Order dated 24.07.2018 in the matter of O.A No 101/2014 filed by Sobha Singh & Ors. Vs State of Punjab & Ors.

The first meeting of the 'Monitoring Committee' constituted in compliance to the Hon'ble National Green Tribunal (NGT) Order dated 24.07.2017 was held on 10.08.2018 at 11.00 AM in Conference Hall, CPCB, Delhi under the Chairmanship of Shri A. Sudhakar, Divisional Head WQM-I, CPCB. Afore-said meeting was attended by Sh. Balbir Singh Seechewal, Officials of Punjab Pollution Control Board (PPCB), Rajasthan State Pollution Control Board (RSPCB), as well as concerned officials of CPCB. None of the representatives from Urban Development Department of Punjab State attended the afore-said meeting. List of participants is attached at **Annexure I**.

Shri A. Sudhakar, DH, WQM-I CPCB welcomed all the officials and representatives of PPCB, RPCB, CPCB and *Sh. Balbir Singh Seechewal* and his associates. He briefed about the Hon'ble NGT Order dated July 24, 2018 related to control of pollution in River Sutlej and he informed that in pursuance to Hon'ble NGT Order, CPCB has constituted a 'Monitoring Committee' comprising *Shri Balbir Singh Seechewal*, Officials of PPCB, RSPCB, Urban Development, Punjab State, One Scientist and One Engineer from CPCB as members and *Shri J.Chandra Babu, Sc'D'*, CPCB as nodal officer. *Shri Sudhakar* also informed that first meeting of the Committee is convened to take a stock of actions taken by the concerned authorities so far and also to discuss the further course of action to be taken by the Committee for ensuring compliance to the Hon'ble NGT Order dated 24.07.2018. Thereafter, he requested *Sh. R.M. Bhardwaj*, Consultant Scientist in CPCB who will also associate with the activities of the committee, to brief about the major issues contributing to the pollution in river Sutlej and canals in the state of Punjab and Rajasthan.

Sh. R.M. Bhardwaj, informed that the interstate water quality dispute is an old issue between Rajasthan and Punjab States for more than 20 years and it was referred to the National Human Rights Commission. Although capacity building of Sewage Treatment Plants is taking place, with the funding of NRCDC the scenario did not improve. CPCB is regularly monitoring the water

quality of River Sutlej, Budda Nallah and other drains as well as canals from Harike Barrage supplying water to the State of Rajasthan and observations are communicated periodically. However, he is of the view that the overall scenario of river water quality is not changed as carrying capacity of River Sutlej exhausted. Therefore, Punjab State has to look into the matter seriously and prepare action plan for capacity enhancement in terms of infrastructure, STPs and CETPs to overcome the problems associated with pollution of River Sutlej.

Shri Balbir Singh Seechewal, member expressed his concern with regard to the poor water quality of river Sutlej is mainly due to discharge of contaminated waste water, especially by the electroplating and tannery units in river Sutlej leading to scarcity of clean and safe drinking water to the common man and people are suffering with health problems residing along the river. He also informed that there is a failure of municipal bodies in performing their responsibilities, especially for treatment of municipal sewage and requested that this committee should suggest suitable action plans for control of pollution in River Sutlej.

Thereafter, PPCB was requested to inform the actions taken for ensuring compliance to the directions of Hon'ble NGT order in the matter. Shri Pradeep Gupta, Chief Environmental Engineer and Representative of PPCB presented the measures taken to control pollution of River Sutlej as detailed below:

- River Sutlej pollution is mainly due to discharge of untreated or partially treated domestic sewage and industrial effluent. 35 Municipal Councils/Nagar Panchayats are discharging sewage into river Sutlej, Buddha Nallah and East Bein. Mainly 19 town/cities located in the catchment area of river Sutlej are contributing to river Sutlej pollution and informed that 32 numbers of STPs already commissioned by the municipal authorities and in operation to treat the generated domestic sewage, and 2 more STPs are in pipeline for commissioning. However, most of the STPs are not meeting the standards prescribed for the treated sewage.
- Major industries viz., M/s National Fertilizers Limited (NFL), Nangal; M/s Punjab Alkalies & Chemicals Ltd., Naya Nangal; M/s Guru Gobind Singh Super Thermal Plant (GGSSTP) and M/s Ambuja Cements Ltd., Village Daburji, Ropar which are located in the catchment area of River Sutlej have taken adequate measures and complying to the discharge norms. Similarly, three major industries namely M/s JCT, M/s Sukhjot Starch & Chemicals and M/s Wahid Sandhar Sugar Mills located in Paghwara have installed captive effluent

treatment plants and are complying to the effluent standards for discharge into municipal sewer.

- In Jalandhar, there are small scale electroplating industries which have become members of CETP, based on 'zero liquid discharge technology'. The effluent of these industries is lifted by CETP operator. No effluent from these industries is being discharged into sewerage system. As regards to the treatment of Leather tanning industries of Jalandhar, presently one CETP of capacity 5 MLD catering treatment to the industries against the estimated quality of about 9.5 MLD. Therefore, in order to restrict the quantity of effluent from these industries to 5 MLD, 50% drums of the leather tanning units have been sealed by Punjab Pollution Control Board. Also, he informed that there is a proposal for up-gradation of existing CETP capacity to 10 MLD under smart city project.
- In Ludhiana, dyeing and electroplating industries are the major industries. All the large and medium scale electroplating industries have installed individual ETPs based on 'Zero Liquid Discharge (ZLD) technology' and presently no effluent from these industries is being discharged into sewer or in Buddha Nallah. Under Phase-III, CETP to treat effluent generated from small scale electroplating industries have been installed.
- For treatment of effluent from small scale wire drawing/pickling industries, five reprocessing plants have been set up in Ludhiana, where spent acid collected from about 500 pickling industries is converted into ferrous sulphate using forced evaporation system. All the dyeing industries have installed captive ETPs and in order to monitor the small scale dyeing industries at single outlet, there was a proposal to install 3 Common Effluent Treatment Plants (CETPs) with capacities of 50 MLD, 40 MLD and 15 MLD for cluster of dyeing industries at Tajpur Road & Rahon Road; Focal Point and Bahadurke Road, respectively. These three CETPs are under installation.
- As regards to the sewage management, he informed that total estimated effluent from Ludhiana city is 750 -760 MLD out of which industrial component is around 120 MLD only. Present capacity of 5 STPs is 466 MLD. The capacity augmentation of about 200 MLD is required to bridge the gap. Municipal Corporation, Ludhiana has engaged the services of M/s. Engineers India Limited (EIL), New Delhi and M/s Shah Technical Consultant, Chandigarh for studying the whole stretch of Buddha Nallah to check the feasibility of laying interceptor sewer to tap direct outlets into Buddha Nallah as well as enhancement of the capacity of existing STPs.



- PPCB representative also mentioned that, an In-situ Bioremediation based on green bridge technology was sanctioned in 2016 at the cost of Rs 15.28 Cr by MoEF&CC and it shows 25% reduction in BOD on six monthly basis.
- He also informed that Punjab Energy Development Agency (PEDA) has already installed one Bio-Gas Plant for Haibowal Dairy Complex, Ludhiana. The Government of Punjab is in process of providing another Bio-Gas Plant for Tajpur Road Dairy Complex.

Shri Suneel Dave, Additional Director and Division Head, UPC-I Division, CPCB requested the 'Monitoring Committee' to take action against the Urban Development and Housing Department of the Punjab State as no representative attended first meeting of the monitoring committee which is a violation of Hon'ble NGT order. He also informed that the installed capacity of STPs in Ludhiana as shown by PPCB is different when compared to the records available with CPCB.

Thereafter, Shri Sudhakar requested the representatives of RSPCB to make his presentation. Dr. V.K.Singhal, Chief Engineer, RSPCB presented the Status of Water Quality of Indira Gandhi Nahar Pariyojna (INGP), Hanumangarh and Gang Canal, Shri Ganganagar (Rajasthan). He informed that the analysis report of water quality of the IG Canal indicates coliform contamination which is mainly due to untreated sewage discharge from urban/rural discharges of Punjab and presence of turbidity, fluoride, boron and metals (Iron, Zinc) in the water samples at INGP and Gang Canal indicates industrial effluent discharges from Punjab State. RSPCB representative also suggested measures be taken by Punjab for ensuring compliance of the Hon'ble NGT order dated 24.07.2018 as detailed below: -

- Next meeting should be scheduled in Punjab so that the visits to STPs and CETPs could also be planned by the Committee with the concerned officials of CPCB to take the stock of ground conditions.
- Strict actions including closure and filing of prosecutions should be taken against the violating industrial units as well as defaulting municipalities in Punjab as practiced in Rajasthan State.
- Only professional companies should be engaged in operation and maintenance of the STPs and CETPs for better performance and compliance to the effluent discharge standards.



- Raw effluent to the CETPs should be transported through closed conduit pipelines only instead of tankers. However, till such time the closed conduit pipelines are installed, all tankers carrying effluent to CETPs must be GPS enabled for better monitoring.
- All the member units of the CETPs should be connected through SCADA (Supervisory Control and Data Acquisition) System so as to monitor the quantity of effluent being discharged by each member unit. This will help in controlling illegal discharge of effluent by member units.

Thereafter, Shri J.C. Babu, Scientist D, WQM-I, CPCB and Nodal Officer in CPCB in the matter of OA No. 101 of 2014 made a brief presentation. Sh. J.C. Babu, in his presentation, informed that in compliance to the Hon'ble NGT Order dated 24, July 2018 in the matter of O.A No 101/2014, a 'Monitoring Committee' has been constituted by CPCB vide letter dated 06.08.2018 and also presented water quality data for the years 2017 and 2018 related to river Sutlej, Budda Nallah, Rajasthan Canal/ IG Canal at Hanumangarh. He described the way water quality of river Sutlej deteriorates on d/s after confluence of Budda Nallah, East Bein drain. The river water quality improves after confluence with river Beas at Harike barrage. He also showed visible changes in the color of river Sutlej water in a satellite image on Google map. He has mentioned the actions in the form of directions w.r.to control of river Sutlej pollution issued by CPCB from time to time for ensuring compliance by the RSPCB and PPCB. The main issues to be examined by the committee for ensuring compliance to the Hon'ble NGT order dated 24.07.2018 includes (i) Gap analysis w.r.to sewage and industrial effluent management in Punjab; (ii) Performance of existing STPs & CETPs especially at Jalandhar and Ludhiana in Punjab State, (iii) Present status of commissioning of additional capacity STPs/CETPs in Punjab, (iv) Assessment of industries discharging effluents into canals supplying water in Rajasthan (IGNP, Sir Hind and Ferozpur Feeder Canals); (v) Assessment of water quality of river Sutlej, River Beas, East Bein, Buddha Nallah and other drains Kala Singhia and Garha Drain in Punjab as well as assessment of ground water quality, if required in problem areas.

Upon deliberations on the course of actions to be taken by the 'Monitoring Committee', following decisions were taken in the meeting:-

S.No	Activity Proposed	Organisation Responsible for Compliance
(i)	Meeting with all the concerned authorities to be held in First week of September 2018 at Ludhiana for discussions with the concerned stakeholders	PPCB
(ii)	Visit to STPs and CETPs by the 'Monitoring Committee' and Officials of CPCB, PPCB during	PPCB



	September 05-06, 2018 after the Second meeting of the Monitoring Committee	
(iii)	Providing a 'Brief Note' relating to 'Actions taken' in compliance to Hon'ble NGT Orders (earlier) in the matter	Department of Urban Development and Housing, Punjab State Government, Concerned Municipal Corporations in Punjab State and Punjab Water Supply and Sewerage Board
(iv)	Providing information relating to 'Sewage generation and the existing mechanism for its treatment & disposal in Punjab State, as per the format Annexed as Annexure-II (Gap Analysis)	Department of Urban Development and Housing, Punjab State Government, Concerned Municipal Corporations in Punjab State and Punjab Water Supply and Sewerage Board
(v)	Providing information relating to 'industrial effluent generation and the existing mechanism for its treatment & disposal in Punjab State, as per the format Annexed as Annexure-III (Gap Analysis)	PPCB
(vi)	Information with regard to the 'Performance Assessment of STPs, CETPs in Punjab State as per the formats circulated by CPCB to PPCB	Concerned Municipal Corporations in Punjab State and PPCB
(vii)	Waste generation quantities, Waste collected, treated and disposed as per Rules and untreated waste disposal in TPD in Punjab State (in respect of Hazardous waste, bio-medical waste, plastic waste, e-waste, Construction & Demolition waste, Lead Battery waste and Municipal Solid Waste)	PPCB
(v)	Assessment of water quality at all salient points of River Sutlej and its tributaries and all drains contributing to pollution load in River Sutlej.	Joint Team of PPCB and RSPCB
(vi)	Brief Note on 'Performance assessment of captive ETPs of the electroplating, Leather, Dyeing/Textile and other industrial units contributing to the pollution load in River Sutlej in Punjab State	PPCB
(vii)	List of industries in Punjab <ul style="list-style-type: none"> • not having captive effluent treatment facilities • not complying to the Effluent Discharge Norms prescribed by PPCB • not installed OCEMS and or data transfer to the PPCB/CPCB Servers • not a member of the CETPs and indulged in discharge of effluent into drains or sewers leading to pollution load in River Sutlej 	PPCB
(viii)	Status on review of effluent standards for industrial sectors and CETPs and its implementation as well as review of effluent standards for the STPs (wherever applicable/wherever required)	Environment Department of Punjab State Government and PPCB
(ix)	Identification of institutions and also to organize awareness in Punjab State	PPCB
(x)	Organising III rd meeting of 'Monitoring Committee' with	PPCB

the Stakeholders in III rd Week of September 2018 at Amritsar to discuss on the short term and long term actions as a part of draft report of the 'Monitoring Committee'	
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Besides the above, the committee also express its strong displeasure on absence of the representative of Urban Development Department of the Punjab State despite directions from Hon'ble NGT and CPCB. It was decided that CPCB will write to Principal Secretary, UDH, Punjab to ensure participation of representative of UDH, Punjab in the next meeting/visit. It was also decided that Urban Development Department of the Punjab/PPCB will start taking action on the suggestions made by members of the committee during the meeting. Punjab Pollution Control Board will be coordinating with other State agencies for timely action in submitting information, organising the meeting and visit of the monitoring committee.

Above listed information shall be provided by respective organisation to the Nodal Officer of the Committee (e-mail: jcb.cpcb@nic.in) by 27.08.2018

The meeting ended with vote of thanks to the Chair

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List of Officials Attended First Meeting of the Monitoring Committee held on 10.08.2018 at CPCB, Delhi

S.No	Name of the Official	Designation and organisation
(1)	Shri A.Sudhakar	Addl. Director and DH, WQM-I, CPCB, Delhi
(2)	Shri Balbeer Singh Seechewal	Committee Member
(3)	Dr.V.K.Singhal	CE, RSPCB, Jaipur and Committee Member
(4)	Shri Pradeep Gupta	SEE/CEE, PPCB, Ludhiana
(5)	Shri P.K.Mishra	Addl. Director and DH, IPC-III, CPCB, Delhi
(6)	Shri Ajay Agarwal	Addl. Director and DH, IPC-VII, CPCB, Delhi
(7)	Shri N.K.Gupta	Addl. Director and DH, IPC-IV, CPCB, Delhi
(8)	Shri Suneel Dave	Addl. Director and DH, UPC-I, CPCB, Delhi
(9)	Shri Anil C.Ranveer	Addl. Director, IPC-VII, CPCB, Delhi
(10)	Sh.R.M. Bharadwaj	Consultant Scientist, WQM-I, CPCB, Delhi
(11)	Shri J.Chandra Babu	Scientist 'D' and Nodal Officer, WQM-I, CPCB, Delhi.
(12)	Shri Vishal Gandhi	Scientist 'D', UPC-I, CPCB, Delhi
(13)	Mrs. Suniti Parashar	Scientist 'B', WQM-I, CPCB, Delhi
(14)	Shri Y.N.Mishra	Scientist 'B', IPC-IV, CPCB, Delhi
(15)	Dr. Deepali Agarwal	RA-I, WQM-I, CPCB, Delhi
(16)	Shri Arun Kumar	SA, WQM-I, CPCB, Delhi



Annexure-II

Sewage contributing to River Beas or Sutlej Pollution/Drains Viz., Buddha Nallah, East Bein, Kala Singhia, Phagwara Drain by all the Towns and Cities in Punjab State :-

Name of the Town or City and District	Population in Lakhs		Water Consumption in MLD		Total Sewage Generation in MLD		Total Sewage presently treated and disposed in MLD	No. of STPs			STPs Capacity in MLD		Discharge Standards prescribed by PPCB to the STPs presently	Final mode of disposal of sewage in Drains/River nearby In MLD		Map indicating with all the details	
	Existing	Expected (in 2040)	Existing	Expected (in 2040)	Existing	Expected in 2040		Existing	Proposed	Under Commissioning	In Operation	Proposed		Treated	Untreated		
																	As attachment

3/10/22

Annexure-III

Industrial Effluent contributing to River Beas or Sutlej Pollution/Drains Viz., Buddha Nallah, East Bein, Kala Singhia, Phagwara Drain by all the Industries located in Towns and Cities in Punjab State :-

Name of the Town or City and District	Industrial Sector		Industrial Effluent Generation in MLD		Total Industrial Effluent presently treated and disposed in MLD		No. of CETPs		CETPs Capacity in MLD			Discharge Standards prescribed by PPCB to the CETPs presently	Final mode of disposal of Industrial Effluent in Drains/River nearby In MLD		Map indicating with all the details
	Type of industrial sector	No of industries	Type of industrial sector	Total industrial Waste water generation	Captive	Through CETP	Existing	Proposed	Existing	Proposed	Under commissioning		Treated	Untreated	
															Pl. attach as enclosure

Jaal