

**Agenda**  
**For**  
**6<sup>th</sup> meeting of River Rejuvenation Committee**  
**to review progress of Implementation of Action Plans**  
**for River Sutlej, Beas & Ghaggar**



**Date: 9<sup>th</sup> August, 2019 at 11.00 AM**  
**Venue: Committee Room, PSCST**

**Directorate of Environment and Climate Change**  
**Department of Environment**  
**Government of Punjab**

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**Agenda No. 6.1    Leave of Absence**

1.        Following Departments of the State Government invited for the meeting:
  - (i).        Administrative Secretary, Department of Local Government
  - (ii).        Administrative Secretary, Department of Rural Development and Panchayats
  - (iii).        Administrative Secretary, Department of Industries and Commerce
  - (iv).        Administrative Secretary, Department of Housing and Urban Development
  - (v).        Administrative Secretary, Department of Water Supply & Sanitation
  - (vi).        Administrative Secretary, Department of Health & Family Welfare
  - (vii).        Administrative Secretary, Department of Water Resources
  - (viii).        Chairman, Punjab Pollution Control Board
  - (ix).        Commissioner, Municipal Corporation, Ludhiana
  - (x).        Commissioner, Municipal Corporation, Jalandhar
  - (xi).        Chief Conservator of Soils, Department of Soil & Water Conservation
  
2.        Leave of absence may be granted to those, who are unable to attend the meeting.

**Agenda No. 6.2 Confirmation of the proceedings of the 5th Meeting of RRC**

1. The minutes of the 5<sup>th</sup> meeting of the River Rejuvenation Committee have been circulated vide Letter No. DECC/2019/1058-1068 dated 25.07.2019.
2. The minutes may accordingly be confirmed.

**Agenda No. 6.3 Follow ups of the decisions taken during the 5th Meeting of RRC held on 08.07.17**

Sr. No.	Decision	Action/Status
1.	State to sign MoU with IIT, Ropar for taking their technical services to analysis of water quality data of rivers	PSCST is working out modalities for engaging IIT Ropar for development of IoT based River Water Quality Monitoring System.
2.	PPCB to monitor 100% STPs till the time non compliance is reduced substantially	PPCB monitored 77 STPs out of total 86 STPs during July, 19
3.	PPCB to fix responsibility and prepare SOPs for Officers at different levels for efficient functioning of CETPs	PPCB to present the status
4.	PPCB to link R.O wise %age non compliance of ETPs with their performance	PPCB to present the status
5.	PSCST to suggest the way forward for ensuring effective usage of online data of CCTV & other devices in STPs	PSCST to present the status
5.	PWSSB to make data of OCEMS of STPs available to PSCST for integration in the DECC website	PSCST to present the status
6.	PPCB to make data/feed of already installed OCEMS of ETPs to PSCST for integration on DECC website	PSCST to present the status
7.	PWSSB to identify towns for adoption of low cost technology finalized for the villages and revise timelines for setting up of new STPs to 1 <sup>st</sup> April 2021	PWSSB to present the status
8.	PPCB to penalize and imposed environment compensation on the SPV for failure to operationalize 15 MLD CETP at Bahadur-Ker-road and also initiate action against concerned ROs and supervise the staff for not taking timely corrective actions	EC of Rs. 30,000/- per day imposed w.e.f 01.07.19

9.	PPCB to provide timelines for up-gradation of 5 MLD CETP and additional 5 MLD module at Leather Complex, Jalandhar	Timelines not provided.
10.	MC, Jalandhar to provide firm timelines for setting up of ETPs and Biogas Plants for Jamsher Dairy Complex	Timelines not provided.
11.	Department of Local Govt. and Department of Housing & Urban Development to nominate Nodal Officers to provide Monthly Progress Report for STPs being operated by 7 MCs and by GMADA & PDA, respectively.	Nodal officers not nominated

**Agenda No. 6.3      Review of monitoring of Water Quality of Rivers**

1.      The status of Water Quality as monitored by PPCB on the polluted stretches as identified by NGT is placed at **Annexure-I**.
2.      The Water Quality of river Beas along Mukerian (Priority-V Stretch) has been improved from Class-C to Class-B (desired river quality). Improvement in water quality has been observed in some of the locations especially D/S Budha Nallah confluence in River Sutlej. However, no improvement was observed in River Ghaggar.
3.      PPCB informed that tender for installation of 11 Real Time Water Quality Monitoring Stations (RTWQMS) has been opened on 16.07.19 and being processed to install all the stations by 01.12.19 as decided in the NGT Committee Meeting held on 23.07.19.
4.      PPCB to intimate the locations of 2 RTWQMS being installed on Budha Nallah.
5.      State to sign MoU with IIT, Ropar for taking their technical services to analysis of water quality data of rivers. PSCST is working out modalities for engaging IIT Ropar for development of IoT based River Water Quality Monitoring System.
6.      The Committee may accordingly review the matter.

**Agenda No. 6.4 Review of monitoring of functioning of STPs in the catchment area**

- (i) The status of non-compliance of existing STPs for the month of July 2019 on the basis of inspections carried out by PPCB is as follows:

	Total Number of STPs	No of STPs inspected	No. of Non-compliant STPs	% of Non-compliance
No. of STPs	86	77	31	40
Capacity (in MLD)	1320	1116	521	47

- (ii) Action taken by PPCB against non-compliant STPs is given below:

Month	Total no. of STPs found non-compliant	No. of cases filed without any action	New PBG/ EC	Cases filed for prosecution	No. of pending cases
April, 19	36	14	4	7	11
May, 19	46	22	5	7	12
June, 19	34	20	0	6	8
July, 19	31	0	0	0	31
<b>Total</b>	<b>147</b>	<b>56</b>	<b>9</b>	<b>20</b>	<b>62</b>

- (iii) Action Taken by Agencies against the Operators/ Contractors

The following penalties have been imposed by the departments from STP operators payments for non-compliance:

Recoveries made by various agencies (in lacs)				
Month	PWSSB	MC Ludhiana	MC Jalandhar	GMADA
April, 19	23.96 *	0	0	0
May, 19	1.55	0	0	2
June, 19	0.048	50.88	5.27	0
July, 19	0.187	0	0	2
<b>Total</b>	<b>25.745</b>	<b>50.88</b>	<b>5.27</b>	<b>4</b>



(iv) Action Taken against Supervisory Staff

The NGT Monitoring Committee in the meeting held on 23.07.19 directed that in case of continued failures and in the absence of any valid justification on the part of supervisory staff, action shall be initiated against the staff. Therefore, concerned departments should report the action taken against the supervisory staff.

(v) Operation & Maintenance Manual of STPs

PWSSB to get the feedback of concerned agencies on draft O&M Manual and also to obtain comments of some of the professional agencies such as NEERI to address all the aspects involved in O&M of STPs.

As directed by NGT Monitoring Committee in the meeting held on 23.07.19, expected expenditure on monthly/annual O & M may also be worked out in respective of various STPs so that suitable policy for deducting the amount from GST devolution by Deptt. of Finance be made for making available dedicated funds for maintenance. PWSSB to present the status.

(vi) Progress of installation of OCEMS/CCTV

CCTVs have been installed on 48 STPs by PWSSB out of total 86 STPs. However, OCEMS has been installed on only 3 existing STPs at Jalandhar. NGT in the meeting held on 23.07.19 directed that all the STPs shall install OCEMS/ CCTV by 30.11.19 failing which EC be imposed on the concerned Departments/ Agencies.

(vii) Sealing of Bypass System

PPCB shall submit compliance report that all the STPs have sealed their bypass systems as informed by Department of Local Government.

**Agenda No. 6.5      Review of monitoring of functioning of CETPs in the catchment area**

**1.      Monitoring of CETPs for the month of July 2019 by PPCB**

- (i) Out of 3 monitored CETPs, CETP of 5 MLD at Leather Complex, Jalandhar has been found non compliant. The CETP has been found consistently non-compliant since March, 2019.
- (ii) PPCB reported that it has already filed 3 complaints against PETS and CETP Operator in the Hon'ble CJM, Jalandhar.
- (iii) PPCB to submit report regarding CETP for electroplating units as it is not receiving effluents as per the capacity of the industries and some industries are not giving effluents to CETP at all or partly. However, no such report has been received.
- (iv) Further, the CETP electroplating to strengthen the GPS based IT system for monitoring the quantity lifted and the movement of tankers deployed for collecting the effluent.
- (v) PPCB to prepare SOP for Officers at different levels for ensuring that CETPs function effectively as decided in the last meeting of RRC held on 08.07.19.

PPCB to present the Status.

**Agenda No. 6.6      Review of Monitoring of functioning of ETPs installed by Industries**

- (i) 42 industries (8% of total) have been inspected by PPCB in July, 2019, out of which 10 industries (24%) found non-compliant.
- (ii) Out of the total inspections, 8 inspections carried out by SEE, 1 by CEE. No inspection has been carried out by Chairman.
- (iii) RRC in the last meeting held on 8.7.19 directed PPCB that RO wise %age non-compliance of ETPs be linked with their performance.
- (iv) PPCB reported that out of 119 industries, OCEMS commissioned in 33 industries and installed in 8 industries. PPCB to take action against the remaining units for non-installation of OCEMS by 31.07.19
- (v) The details of action taken against the non-compliant industries/ ETPs are as under:

Month	No. of ETPs found non-compliant	Cases filed without action	Encashment of PBG/EC	New PBG/EC	Sealing/ Disconnection	Prosecution	Pending cases
April, 19	21	1	1	6	2	0	11
May, 19	11	1	0	5	0	0	5
June, 19	15	0	0	4	1	0	10
July, 19	10	0	0	0	0	0	10
<b>Total</b>	<b>57</b>	<b>2</b>	<b>1</b>	<b>15</b>	<b>3</b>	<b>0</b>	<b>36</b>

**Agenda No. 6.7 Setting up of New/ Up-gradation/ Rehabilitation of STPs**

- (i) The current progress for setting up of the STPs by the concerned departments is as under:

Deptt.	No. of STPs	Baseline Target dates			Current Status
		DPR	Tender	Completion	
PWSSB	09	31.05.19	30.09.20	30.06.22	Sewerage not exist, Funds not tied up, Land issue- I ULB, DPR- 5 ULBs by 31.08.19 DPR- 3 ULBs – under approval
	13			31.12.20	Land yet to be acquired
	04	Approved	31.07.19	31.10.20	DNIT being revised as per new eligibility criteria
	15	Approved	Allotted	Started	To be completed in 3 ULBs by 2019, 11 ULBs by 2020 and 1 ULB by 31.03.21
	3	Approved	01.07.19	31.12.20	PPCB requested to provide new technology details
	3	30.05.19	01.04.20	31.12.21	Funds not tied up DPR to be prepared to up-grade these plants from WSP to SBR
	5	31.03.19	01.04.20	30.06.22	Funds not tied up
	14	Approved	01.08.19	31.12.20	Under various stages of development
MCJ	3	28.04.19	30.06.20	31.12.21	DPR under preparation
MCL	5	Approved	Under Prep.	31.12.20	DPR under preparation
DWSS	1	Approved	Completed	31.12.19	DPR by 31.07.19 & completion by 30.06.20
	3	31.01.19	15.05.19	31.12.19	Tendering by 30.07.19 & completion by 28.02.20
PSIEC	1	Approved	31.12.19	30.06.21	DPR by 31.07.19
	1	30.09.19	28.02.20	30.09.21	DPR by 31.07.19
	1	Approved	Completed	30.05.19	Completed

	1	Approved	Completed	30.11.19	To be completed by target date
MES	1	Approved	Completed	31.03.20	To be completed by 30.09.19
	1	Approved	28.02.19	31.08.20	Progress not received
MC, Patiala	1	Approved	Yet to allot	31.12.20	Work in progress and to be completed by 31.12.20

- (ii) The progress for setting up of STPs was found to be slow.
- (iii) PWSSB has still not revised timelines as per NGT directions. This matter is pending since long time.
- (iv) PWSSB to examine the low cost options, as being explored for rural areas, for the ULBs towns where funds have not been tied up. PWSSB are yet to provide the details.

**Agenda No. 6.8 Review of Progress for Setting up of New CETPs**

(i) Current status of Progress of Projects

S no.	Project	Target Date of Completion	Progress upto 31 <sup>st</sup> July, 19		
			DPR	Tender	Status of Work
1	Setting up of 15 MLD CETP at Ludhiana	30.06.19	100%	100%	85%
2	Setting up of 40 MLD CETP at Ludhiana	31.08.19	100%	100%	63%
3	Setting up of 50 MLD CETP at Ludhiana	31.01.20	100%	100%	25%
4	Setting up of 0.15 MLD CETP at Jalandhar	31.03.20	100%	100%	5%
5	Up-gradation up of 5 MLD CETP and setting up of 6 MLD at Leather Complex, Jalandhar	-	50%	-	DPR under vetting with CLRI

- (ii) PPCB imposed EC of Rs. 30,000/day to the SPV of 15 mld CETP w.e.f. 01.07.19.
- (iii) PPCB given hearing to SPV of 40 mld CETP and 50 mld CETP wherein it was directed to meet the target timelines, failing which EC will be imposed.
- (iv) PPCB reported that 0.15 mld CETP shall start the construction by 20.04.19, which was stopped on public complaint.
- (v) No timelines given by PPCB for up-gradation up of 5 MLD CETP and setting up of 6 MLD at Leather Complex, Jalandhar
- (vi) PPCB to put in place a legally binding system for successful operation and maintenance of CETPs. This issue has been pending since long time.

**Agenda No. 6.9      Reconciliation of Domestic Wastewater and Industrial Effluents for Ludhiana city**

- (i) As decided in the NGT Monitoring Committee Meeting held on 23.07.19, the draft report prepared by MCL to prevent the pollution in Budha Nallah be finalized at the earliest and must address all issues concerning segregation of wastewater and treatment of industrial effluents including legal framework so that lasting solution to the pollution in Budha Nallah could be ensured.
- (ii) All the options available for the scattered units such as setting up of CETP for Industrial Area-A units in the plot lying vacant in this area, connection of around 20 units with the conveyance system of CETPs, stringent norms for the remaining units be explored jointly by MCL & PPCB.
- (iii) STPs to be designed on actual discharge basis rather than based on water consumption per capita basis. The sewer connection of the industries presently connected with MCL sewerage system be disconnected after joining CETP.

**Agenda No. 6.10    Setting up of ETPs for Tajpur, Haibowal & Jamsher Dairy Complex & Biogas Plants**

- (i) MCL reported that draft feasibility report prepared by Consultant for setting up of ETPs is under vetting by PMIDC.
- (ii) PEDDA has not received any communication from MCL regarding the decision for non-shifting of Tajpur Dairies. MCL to take up the matter with PEDDA to facilitate the setting up of the Biogas Plant for Tajpur Dairy Complex
- (iii) MCJ reported that the DPR is under preparation for setting up of ETP and lease agreement is being signed for setting up of biogas plant for Jamsher Dairy Complex.
- (iv) The activities w.r.t. setting up of ETPs for Tajpur, Haibowal & Jamsher Dairy Complex and Biogas Plants for Tajpur & Jamsher Dairy Complex found non-starter.



**Agenda No. 6.11 Review of progress w.r.t. release of 200 cusec of water from Sirhind Canal to Budha Nallah**

- (i) PPCB & MCL have jointly agreed to fund the proposal of Rs. 5.77 crore on 50:50 basis to Department of Water Resources
- (ii) DWR to provide the timelines to implement the same.

**Agenda No. 6.12 Review of progress w.r.t. release of 150 cusec of water from Mukerian Hydel Channel to Holy Bein**

- (i) DWR informed that necessary funds have been approved by Govt. of Punjab and project would be completed by 30.09.19

**Agenda No. 6.13 Review of progress for setting up of treatment facilities in villages**

- (i) DRDP reported that out of 167 villages to be taken up in Phase-I, the work in 28 villages are likely to be completed by 30.09.19
- (ii) The preparation of DPR for the remaining villages is under progress

**Agenda No. 6.14 Reuse of Treated Wastewater of STPs**

- (i) DSWC reported that it is carrying out feasibility study for reuse of treated wastewater of STPs of Ludhiana City for irrigation purpose. The study shall be completed by September 2019.
- (ii) The proposal for utilizing the treated wastewater of 25 STPs for irrigation has been cleared by FD, Government of Punjab and further submitted to NABARD for consideration of funds.

**Agenda No. 6.15 Review of progress regarding organization of Health Checkup Camps**

- (i) The NGT Monitoring Committee in the meeting held on 23.07.19 directed Department of Health to coordinate with PGI, Chandigarh for carrying out the epidemiological studies to establish co-relation with the disease caused due to water pollution
- (ii) The Department of Health to present the Status.

**Annexure-I: Status of Water Quality**

Sr. No.	River	Polluted Stretch as per NGT	Classification of stretch as per criteria given by NGT (Priority-I to Priority-V)	Baseline (Average value of 2018-19)			Current Month				Performance w.r.t. baseline (improved /degraded/ no change)
				BOD (mg/l)	TC (MPN/ 100ml)	Class	Flow in River on date of sampling (cusec)	BOD (mg/l)	TC (MPN/ 100ml)	Class	
1	2	3	4	5	6	7	8	9	10	11	12
1	Sutlej	Rupnagar to Harike Bridge	Priority-I								
i	Sutlej	Ropar Head-Works	Priority-I	<1	1161.7	C	23080	<1	350	B	Improvement
ii	Sutlej	D/S of Rishab- Paper Mills	Priority-I	<1	1319.2	C	9880	<1	490	B	Improvement
iii	Sutlej	U/S Buddha Nallah	Priority-I	<1	2950	C	9880	<1	1100	C	No change
iv	Sutlej	100 m D/S Budha Nallah confluence	Priority-I	49.2	574285.7	E	10480	9	140000	D	Improvement
v	Sutlej	Boat Bridge, Dharamkot Nakodar Road	Priority-I	14.1	114888.9	D	10480	3.4	46,000	D	No change
vi	Sutlej	D/S East Bein	Priority-I	10.2	27000	E	10580	3.6	22000	D	Improvement
vii	Sutlej	Harike	Priority-I	3.4	14383.3	D	Sample not collected				
2	Beas	Along Mukerian	Priority-V	1.9	758	C	13470	1.1	490	B	As per NGT order this stretch of river beas is in priority V. As per analysis of current month it does not fall in any priority polluting stretch.
3	Beas	Sultanpur Lodhi to confluence of Beas	-	1.3	449	B	19690	BDL (<1)	280	B	No improvement
4	Ghaggar	Mubarakpur to Sardulgarh	Priority-I				-				
i	Ghaggar	Mubarikpur Rest house	Priority-I	10.3	21000	D	-	8	24000	D	No improvement

Sr. No.	River	Polluted Stretch as per NGT	Classification of stretch as per criteria given by NGT (Priority-I to Priority-V)	Baseline (Average value of 2018-19)			Current Month				Performance w.r.t. baseline (improved /degraded/ no change)
				BOD (mg/l)	TC (MPN/100ml)	Class	Flow in River on date of sampling (cusec)	BOD (mg/l)	TC (MPN/100ml)	Class	
1	2	3	4	5	6	7	8	9	10	11	12
ii	Ghaggar	Bhankarpur Bridge	Priority-I	21.8	27667	E	1225	29	35000	E	No improvement
iii	Ghaggar	Chattbir	Priority-I	17.5	24333	E	-	22	28000	E	No improvement
iv	Ghaggar	U/S Jharmal Nadi	Priority-I	12.8	20833	E	-	10	21000	E	No improvement
v	Ghaggar	D/S Jharmal Nadi	Priority-I	18.8	24583	E		18	24000	E	No improvement
vi	Ghaggar	U/S Dhakanshu Nallah	Priority-I	11.7	16750	E	Found dry at the time of sample collection due to consumption of waste water at the u/s by the farmers using the pumping stations				-
vii	Ghaggar	D/S Dhakanshu Nallah	Priority-I	14	22417	E	Found dry at the time of sample collection due to consumption of waste water at the u/s by the farmers using the pumping stations				-
viii	Ghaggar	Rattanheri	Priority-I	37.9	29833	E	-	42	35000	E	No improvement
ix	Ghaggar	U/S Sagar para Drain	Priority-I	20.7	23636	E	-	38	43000	E	No improvement
x	Ghaggar	D/S Sagar para Drain	Priority-I	37.5	29545	E	-	44	46000	E	No improvement
xi	Ghaggar	Khanauri	Priority-I	37.5	28250	E	50	10	21000	E	No improvement
xii	Ghaggar	Moonak	Priority-I	30.8	26333	E	50	18	28000	E	No improvement
xiii	Ghaggar	U/S Sardulgarh	Priority-I	23.9	20867	E	500	10	17000	D	Improvement
xiv	Ghaggar	D/S Sardulgarh	Priority-I	26.9	25000	E	500.13	13	24000	D	Improvement