Government of Punjab
Department of Science Technology & Environment
Directorate of Environment & Climate Change

To

Mrs. Ruby Raju,
Project Engineer
National Mission on Clean Ganga,
Ministry of Jal Shakti, Govt. of India
1st Floor, Dhyan Chand National Stadium,
India Gate, New Delh-110002

Letter No.: DECC/2020/ 8896
Date: 06.01.2020

Subject: **Submission of information in compliance of NGT Order dated 06.12.2019 in O.A No. 673/2018.**

Respected Madam,

This is with reference to your email dated 29th January, 2020 addressed to Chief Secretary, Punjab w.r.t above noted subject.

2. The Progress Report for the Month of December, 2019 in compliance of NGT Order dated 06.12.19 in O.A No 673/2018 is enclosed herewith in the prescribed format of NMCG for your kind consideration and further necessary action, please.

Thanking You,

Senior Scientific Officer

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National Mission for Clean Ganga

Punjab: Format for Submission of Monthly Progress Report for Dec., 2019

(Hon'ble NGT in the matter of OA No. 673/2018 dated 06.12.2019)

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by Punjab - Compliance Status
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2020	Chief Secretary, GoP during the meeting held on 08.01.20 under the chairmanship of Secretary, DoWR, Ministry of Jal Shakti, New Delhi, informed that deadline for in-situ remediation of drains and setting up the STPs are not achievable. The State is planning to approach NGT for seeking relaxation in the timelines.
	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2020	
2	Timeline for completing all steps of action plan including completion of setting up of STPs and their commissioning	31.03.2021	• 90 STPs (new/ rehabilitation/ up-gradation) are being set up in the catchment areas of rivers (Sutlej- 42, Ghaggar-32 and Beas-16) by 31.09.2022. • Out of 90 STPs, funds for 65 STPs (966.3 MLD) tied up and funds for 25 STPs (98.5 MLD) are yet to be tied up.
3	Chief Secretaries may set up appropriate monitoring mechanism at State Level: • Specifying accountability of nodal authorities not below the Secretary level • Chief Secretaries may have an accountable person attached in their office for this purpose.	22.01.2020 22.01.2020	Matter to be taken up with Competent Authority to ensure compliance.
	• Monitoring at State Level must take place	Fortnightly commencing 21.12.2019	• Progress w.r.t implementation of Action Plans on Clean Rivers being reviewed regularly by State Level Apex Committee under the Chairmanship of Chief Secretary, Punjab. Twelve meetings of State level Apex

			Committee held from Jan, 19 to Jan, 20. • The progress of implementation of Action Plans is being also reviewed on monthly basis by River Rejuvenation Committee under the Chairmanship of Principal Secretary, Deptt. of Environment and NGT appointed Sub Committees on monthly basis.
6	Progress report may be furnished by the States/ UT to: • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB	Monthly (preferable before 20th of every month)	Copy of Progress Report for the last two quarters (Jul to Dec, 19) furnished to Central Pollution Control Board is enclosed at **Annexure -I**.
6.1	Progress report may be comprised of details along with completion timelines on:		
(i)	Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment.		• 4 polluted river stretches and major drains contributing to rivers identified. • Punjab Pollution Control Board has been directed to monitor the drains. • Action is being initiated by Department of Local Government for in-situ treatment of major drains where sewerage system does not exist and the funds for setting up of STPs not tied up.
(ii)	**Status of STPs, I&D and sewerage networks** Details of existing infrastructure, Gap Analysis, Proposed along with completion timeline.		• Total 88 STPs are in operation in the catchment areas of rivers Sutlej (50), Beas (16) and Ghaggar (22). The % Non-compliance of STPs reduced from 46 % in April, 19 to 26 % in Dec., 19 • 78% of sewerage network is in place in the State. • 90 new STPs to be setup by 30.09.22

			• Quantity of sewage generated in the State is 2478 MLD, out of which 1872 MLD (73.72%) being treated.
(iii)	**Status of CETPs** Details of Existing CETP and ETP infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status.		• 3 CETPs of total installed capacity of 5.535 MLD exist. • Out of 3 CETPs, one CETP of 5 MLD capacity at Leather Complex, Jalandhar found non-compliant. • 3 CETPs for textile dyeing cluster with total capacity of 105 MLD to be set up by 31.03.2020 at Ludhiana with details as under: o One CETP of 15 MLD has almost completed o Other two CETPs of 40 MLD and 50 MLD capacity to be completed by 31.03.2020 and 18.05.2020 respectively. • A total of 204.02 MLD of industrial effluent is generated, out of which, 203.57 is treated in captive ETPs installed by the industries. • 513 ETPs are under operation in the catchment area of rivers. • Approximately 10% of ETPs being monitored every month. The average % non compliance for the period between July to Dec, 19 reduced from 20.59% to 17.06%.
(iv)	**Status of Solid Waste Management & Details of Processing Facilities** Details of existing infrastructure, Gap Analysis, Proposed along with completion timeline		• Out of 4100 TPD MSW generated in the State, 2635 TPD (64%) is processed & 1465 TPD is being sent to landfills. • D2D Collection: 95% House Holds • Source Segregation: 58% HHs • Processing facilities for wet waste will be commissioned by 30.06.2020

(v)	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river		• The range of water quality of polluted river stretches monitored in the month of Dec. 2019 as per CPCB water quality criteria is as under: o Sutlej (Roopnagar to Harike Bridge): C to E o Ghaggar (Sardulgarh to Mubarkpur): D to E o Beas (Along Mukerian): B o Beas (Sultanpur Lodhi to Confluence point to Beas): B • Water quality status of some of major drains is attached at **Annexure-II.**
(vi)	Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams, etc.		• State has strengthened Door to Door collection system by achieving 95% D2D collection in all ULBs to restrain dumping of waste. • State has set up mechanism for scientific collection of biomedical waste through bar code system and its treatment at 4 Common Biomedical Waste Treatment Facilities. • Separate Material Recovery Facilities are being set up for effective sorting, channelizing and processing of recyclable & non-recyclable fractions of plastic waste. • Bulk Waste generators have been identified and efforts are being taken up to ensure in-situ management of wet waste by BWGs, in compliance of SWM Rules, 2016. • Adopted decentralized model for processing of wet waste to minimize environmental impacts entailed with its transportation.

(vii)	Ground water regulation		• Directorate of Ground Water Management set up by State with the prime objective of conserving and managing water resources. • In order to deal with the problems of falling water table, increasing surface water pollution and water logging in the south-west Punjab etc., Govt. of Punjab signed an agreement with M/s Mekorot, National Water Company, Israel on 23rd October, 2018 to formulate Water Conservation and Management Master Plan (WCMMP) for the State of Punjab. M/s Mekorot will give recommendation to State on Current Situation of the water Sector, water based economy regulations, projection of water resources viz-a-viz demand, alternative water supply schemes within 18 months i.e by October, 2020. • Promulgation of Punjab Water Resources (Management and Regulation) Act, 2019 for the management and regulation of water resources to ensure judicious, equitable and sustainable utilization of water • Setting up of Punjab Water Regulation and Development Authority.
(viii)	Adopting Good Irrigations Practices		• Good irrigation practice such as drip irrigation, sprinkler irrigation, laser leveling, etc are being adopted and promoted in the State by Department of Agriculture and Department of Soil and Water Conservation.

(ix)	Protection and Management of Flood Plain Zones (FPZ)		• Department of Water Resources informed that flood protection embankment have been already constructed on both sides of the rivers in state. As the rivers are already channelized, therefore flood plain zoning is not technically feasible.
(x)	Rain Water harvesting		• Rain water harvesting is being carried out by Department of Soil and Water Conservation in Kandi area of Punjab by constructing check dams, rain water harvesting structures, silt detention structures, stream bank protection, contour bunding, runoff check and drop structures etc. • The State Government has made rainwater harvesting mandatory for all public and commercial establishments and all properties in plots covering more than 500 sq. m in urban areas.
(xi)	Maintaining minimum environmental flow of river		• Minimum 15% of average lean season flow is being maintained in river Sutlej (640 cusecs) & Beas (370 cusec) by Department of Water Resources in compliance of NGT order dated 9.8.2017 in O.A. No. 498 of 2015 in the matter of "Pushp Saini Vs MoEF&CC GoI. • As per Department of Water Resources, there is no regulation point in the State for Ghaggar, which is not a perennial river. Department of Water Resources has been asked to take up the matter with Haryana Government for release of water from Kaushalya Dam, Pinjore in River Ghaggar.

(xii)	Plantation on both sides of river		• Plantation is regularly being carried by Department of Forest on the side slopes of embankments and berms of rivers which help in checking erosion of embankments and river berms/edges.
(xiii)	Setting up of bio-diversity parks on flood plains by removing encroachment		• Matter is being taken up with Department of Forest to explore the feasibility of using CAMPA funds for setting up of Bio-diversity parks and plantation purposes in the catchment areas of the rivers to enhance the biodiversity.

Quarterly Progress Report

(Upto December, 2019)

in compliance of NGT orders dated 07.03.2019

in O.A. no. 606/2018

7th January 2020

Directorate of Environment and Climate Change,
Department of Science, Technology and Environment,
Government of Punjab

Quarterly Progress Report

(Quarter ending 30th September 2019 and 31st December, 2019)

1. The National Green Tribunal (NGT) vide order dated 07.03.2019 in Original Application No. 606/2018, titled as "Compliance of Municipal Solid Waste Management Rules, 2016" for State of Punjab has directed the Chief Secretary to furnish Quarterly Report about the status of various activities. First such report has been submitted to Hon'ble NGT on 19th July, 2019.

2. Subsequently, the NGT vide orders dated 12.09.2019 in the matter of O.A no 606/2018 has directed States & Union Territories to submit information on 14 following thematic areas:

   (i) Compliance to Solid Waste Rules including Legacy Waste.
   (ii) Compliance to Bio-medical Waste Rules.
   (iii) Compliance to Construction & Demolition Waste.
   (iv) Compliance to Hazardous Waste Rules.
   (v) Compliance to E-waste Rules.
   (vi) 351 Polluter Stretches in the country.
   (vii) 122 Non-attainment cities.
   (viii) 100 industrial clusters.
   (ix) Status of STPs and re-use of treated water.
   (x) Status of CETPs/ETPs including performance.
   (xi) Ground water extraction/contamination and re-charge.
   (xii) Air pollution including noise pollution.
   (xiii) Illegal sand mining.
   (xiv) Rejuvenation of water bodies.

3. Further, NGT in its order dated 26.09.19 in O.A. No. 360 of 2018 titled as "Shree Nath Sharma v/s Union Of India" has directed all the States to prepare District Environment Plans for all districts and be monitored by Chief Secretaries with report to Tribunal in O.A no. 606/2018. The Department of Environment shall collect such District Environment Plans of their respective States and finalize the State Environment Plan covering the specific thematic areas and template of Model/ Models District Environment Plans be provided by CPCB.

4. Accordingly, Department of Environment, Punjab has initiated the process for preparation of District Environment Plans (DEPs) in line with Model Plan devised by CPCB incorporating the matrix consisting of baseline data, target and timelines of existing Action plans being monitored by the State. Accordingly, the State Environment Plan covering all the thematic areas will be prepared and sent to CPCB. The State has also notified Single District Environment Committee (DEC) under respective Deputy Commissioners to monitor various environmental issues and review Action Plans at district level.

5. The progress w.r.t. various activities as mentioned in para 20 of NGT Orders dated 07.03.19 in O.A. no. 606/2018 for the quarters ending on 30th September, 2019 and 31st December, 2019 is given in the succeeding paras.

A. Status of Compliance of SWM Rules, 2016, Plastic Waste Management Rules, 2016 and Bio Medical Waste Management Rules, 2016 in their respective areas.

6. Solid Waste Management Rules, 2016

The State has adopted 3-tier monitoring mechanism for reviewing the progress of various activities as part of implementation of Comprehensive Action Plan for Waste Management. Following activities in compliance of Rule 22 & 24 of SWM Rules, 2016 along with Key Performance Indicators as recommended by Hon'ble NGT are being monitored as a part of implementation of Action Plan and the summary of progress is given below:

Sno	Activity	Unit	Baseline 31.03.19	Target	Timeline	Progress up to 30.09.19	Progress up to 31.12.19
1	2	3	4	5	6	7	8
1	**Meetings to review the performance of ULBs by Deputy Commissioners** Rule 12 (b)	% age of DL meetings conducted	59%	100%	7th of every month	75%	77.2% (17/22)
2	**Approval of SWM Action Plans by ULBs** Rule 15 (a)	No. of ULBs	112	167	30.06.19	148	167
3	**Identification and Procurement of sites for setting up solid waste processing and Sanitary Landfill facilities** (Rule 22 at Sr. no. 1-3)	No. of sites	166	167	30.06.20	166	167
4	**Setting up of Aerobic Composting pits by all local bodies** (Rule 22 at Sr. no. 7-8)	No. of compost pits	3463	6000	31.12.19	4676 (78%)	5143 (85.7%)
5	**Setting up of Material Recovery Facilities** (Rule 22 at Sr. no. 7-8)	No. of MRFs	83	600	31.12.19	115 (19.1%)	169 (28.1%)
6	**Setting up of Waste to Energy Facilities** (Rule 22 at Sr. no. 7-8)	No. of WTE facilities	1	3	31.12.19	1 (33.3%)	1 (33.3%)
7	**Setting up of suitable sites for setting up sanitary landfill facilities (SLFs)** (Rule 22 at Sr. no. 9-10)	No. of SLF site	Nil	167	31.12.20	Nil	Nil
8	**Enforcing waste generators to practice segregation of waste at source** (Rule 22)	% age coverage HHs/ shops/est.	27%	100%	31.03.20	50%	58%
9	**Ensure door to door collection of segregated waste** (Rule 22)	% age coverage HHs/shops	85.10%	100%	31.12.19	95%	95.1%
10	**Compliance by Bulk Waste Generators** (Key Indicator by NGT OA 606/2018)	% age compliance	16.70% (314/ 1871)	100% (4129 no.)	31.12.19	15.5% (594/ 3820)	29.4% (1217/ 4129)
11	**Onsite waste management of green/ horticulture waste in parks, green belts/institutions** (Rule 15 (p) and Key Indicator by NGT in OA 606/2018)	No. of parks/greenbelts/institutions	552	3816 (100%)	31.12.19	688 (18.0%)	1035 (27.1%)
12	**Integration of Rag Pickers/Waste collectors/Kabadis/ Volunteers/CBOs/ NGOs** (Rule 15 (c)	% age integration	77.90%	100% (10463 no.)	31.12.19	90.9%	92%

Sno	Activity	Unit	Baseline 31.03.19	Target	Timeline	Progress up to 30.09.19	Progress up to 31.12.19
1	2	3	4	5	6	7	8
13	**Transportation of segregated waste in covered and compartmentalized vehicles** (Rule 15 (q) and Key Indicator by NGT in OA 606/2018)	Nos. of vehicles	2416	Not defined	31.12.19	5026	6482
14	**Enabling mechanized vehicles with GPS for monitoring for waste collection and transportation** (Key Indicator by NGT OA 606/2018)	No. of vehicles with GPS	497	1238	31.12.19	793 (64.0%)	900 (72.7%)
15	**Bio-remediation or capping of old and abandoned dump sites (**Rule 22 and Key Indicator by NGT in OA 606/2018)	No. of ULBs	initiated in 4 ULBs	167	7.04.21	initiated in 7 ULBs	Initiated in 10 ULBs
16	**Elimination of Garbage from Vulnerable Points /Vacant Plots** (Key Indicator by NGT in OA 606/2018)	%age of GVPs cleared	44.30%	100% (3459 no.)	31.12.19	46.7% (1617 no.)	25.4% (881 no.)
18	**Prevention of mixing of Solid Waste in water bodies** (Key Indicator by NGT in OA 606/2018)	%age of VPs where arrangements have been made	0	100%	31.03.20	46.40%	60% (81/135)
19	**Sweeping in residential wards- once a day** (Rule 15 (n) and Key Indicator)	% age of residential wards covered	90.40%	100% (2413 wards)	Monthly	99%	99.08%
20	**Sweeping in commercial wards- once a day/night sweeping** (Rule 15 (n) and Key Indicator by NGT in OA 606/2018)	% age of commercial wards covered	76.10%	100% (706 wards)	Monthly	89.3%	99.7%
21	**Citizen Grievance Redressal through Swachh App** (Key Indicator by NGT in OA 606/2018)	% age of complaints resolved within specified time	96.40%	100%	Monthly	83%	90%
22	**Awareness mechanism for behaviour change** (Rule 15 (zg) and Key Indicator by NGT in OA 606/2018)	No. of programmes	1278	10000	31.03.20	13562	17766
23	**Inspection of Processing sites** Rule 15 (y) 16 (1) (c), 21(3)	%age of sites visited	60%	At least25 %	Monthly	36%	6.38%
24	**Ensuring compliance of Processing sites** Rule 15 (y) 16 (1) (c), 21(3)	%age of non-compliance	Nil	<2%	Monthly	5%	0%

Sno	Activity	Unit	Baseline 31.03.19	Target	Timeline	Progress up to 30.09.19	Progress up to 31.12.19
1	2	3	4	5	6	7	8
25	**Action taken against violating ULBs** Rule 15 (y) 16 (1) (c), 21(3)	%age of Action taken	Nil	100%	Monthly	100%	NA
26	**Monitoring of Sanitary Landfill sites by the Board** Rule 15 (y) 16 (1) (c), 21(3)	%age of non-compliance	No SLF site exists	<2%	Monthly	No SLF site exists	No SLF site exists
27	**Submission of Annual Report by each ULB in Form IV to PPCB** Rule 24 (2)	No. of ULBs submitted Annual Report	17	167	30th June every year	163	-
28	**Submission of Consolidated Annual Report in Form V to CPCB** Rule 24 (3)	Timely submission	Submitted for year 2018-19	Consolidated Annual Report	31st July every year	Report submitted on time	Report submitted on time

7. Plastic Waste Management Rules, 2016

The State has prepared and implementing Action plan for Plastic Waste Management, in compliance to Hon'ble NGT orders in the matter of OA no. 247 of 2017. Following activities are being monitored as a part of implementation of action plan for Plastic Waste Management and the summary of progress is given below:

S. N.	Activity	Unit	Baseline (31.03.19)	Target	Timeline	Progress up to 30.09.19	Progress up to 31.12.19
1	2	3	4	5	6	7	8
1	**Framing of bye-laws by all ULBs incorporating provision of the Rules** Rule 6(4)	Notification of byelaws	Bye Laws under preparation	167 ULBs	30.09.19	Notification underway	Bye- laws being notified.
2	**Enforcing waste generators to practice segregation of waste at source** (Rule 6 2(a) - PWM, 2016 and Rule 22 - SWM, 2016)	% age coverage HHs/ shops/estb.	Monitored as part of SWM				
3	**Door to door collection of plastic waste** (Rule 6 2(a) - PWM, 2016 and Rule 22 - SWM, 2016)	% age coverage HHs/shops/ estb.	Monitored as part of SWM				
4	**Setting up of Material Recovery Facilities (MRF) by all ULB** Rule 6 (1)	No. of MRFs	83	600	31.12.19	115 (19.1%)	169 (28.1%)
5	**Awareness programmes to discourage use of single use plastic** Rule 6 2(e)	No. of programmes	1278	10000	31.03.20	13562	17766

S. N.	Activity	Unit	Baseline (31.03.19)	Target	Timeline	Progress up to 30.09.19	Progress up to 31.12.19
1	2	3	4	5	6	7	8
6	**Littering / open burning of plastic waste** Rule 6 2(g)	%age of challans	76.1%	100%	Monthly	49%	5.7%
7	**Monitoring of Producers, Importers and Brand owners under EPR** (Rule 9)	%age of registration	3.9%	100%	31.03.20	31.8%	36.38%
8	**Random Inspection of Recyclers, producers, etc.** (Rule 13)	%age of sites visited	Nil	990	Every Year	288	1067
9	**Ensuring compliance by Recyclers, Producers, etc.** (Rule 13)	%age of non-compliance	74.0%	<2%	Monthly	15%	8.3% (1/12)
10	**Monitoring of Annual Return to be filed by ULBs** Rule 17 (2)	No. of ULBs	9	167	30th June of every year	167	167
11	**Monitoring of the ban on plastic carry bags in the State** Rule 12 (2)	% age of challans	8.41%	100%	Monthly	66.3% (2514/ 3790)	57.5% (2507/ 4355)

8. Bio Medical Waste Management Rules, 2016

The State has prepared separate Action Plan for Bio- Medical Waste Management, in compliance to Hon'ble NGT orders in the matter of OA no. 710-713 of 2017. Following activities are being monitored as a part of implementation of Action Plan:

Sno	Activity	Unit	Baseline (31.03.19)	Target	Timeline	Progress up to 30.09.19	Progress up to 31.12.19
1	2	3	4	5	6	7	8
1	**Inventorization of HCFs**	No. of HCFs	8194	13385	31.03.20	13076 (100%)	13495 (100%)
2	**Agreement of HCFs with CBWTF**	No of HCFs	8194	13495	31.03.20	9116 (66%)	9535 (70.6%)
3	**Authorization of HCFs**	No. of HCFs	3913	13495	30.06.20	5332 (40.7%)	5957 (44.14%)
4	**Annual Return to be filed by HCFs**	No. of HCFs	493	13076	30th June every year	29%	29%
5	**Annual Return to be filed by CBWTFs**	No. of CBWTFs	0	4	30th June every year	4	4
6	**Meetings of the State Level Committee constituted under BMW Rules, 2016**	No. of Meetings	No regular meetings	Once in six months	30.09.19	No regular Meetings	2

7	**Meetings of the District Level Committees constituted under BMW Rules, 2016**	No. of Meetings	No regular meetings	Monthly meetings	Monthly	No regular Meetings	
8	**Percentage of non-compliance of HCFs**	% age	10.6% (Quarterly data)	< 2%	30.06.20	6.7% for the month of Sept.	1.2% for the month of Dec.
9	**Installation of the ETPs by Govt. HCFs**	No of HCFs	0	211	30.06.21	2 installed and 59 underway	2 installed and 59 underway
10	**Capacity Building Programs for HCFs**	No. of Programs conducted	32	48	31st March of every year	84	111

9. Compliance of Construction and Demolition Waste Management Rules, 2016

Following activities as mentioned in the Action Plan for Construction and Demolition Waste Management are being monitored and the summary of progress is given below:

Sno	Activity	Unit	Baseline (31.03.19)	Target	Timeline	Progress upto 30.09.19	Progress upto 30.12.19
1	2	3	4	5	6	7	8
1	**Formulation of policy by State Government** Rule 9(1)	Notification of Policy	No Policy	Policy to be finalized	30.09.19	Notification underway	Bye- laws being notified.
2	**Notification of sites for collection and processing facility of C&D Waste** Rule 6(4 & 5), 9 (2) and 13 - C&D WM Rules, 2016)	No. of ULBs which have notified sites	129	220	30.09.19	182	202
3	**Commissioning and implementation of Processing / Recycling facility** (Rule 6(4,5 & 8), 9(2) and 13)	No. of facilities set up	Nil	56	31.12.21	1	1
4	**Levy of Penalties by ULBs**	%age of penalties levied against violations	89%	100%	Monthly	37.7% (247/ 655)	35.3% (346/978)
5	**Sanctioning of waste management plans of generators** Rule 6(1)	No. of plans sanctioned	Nil	_	31.12.19	Nil	Nil

10. Hazardous Waste Management Rules, 2016

Following activities as a part of implementation of Action plan for Hazardous Waste Management are being monitored and the summary of progress is given below:

SN	Activity	Unit	Baseline (31.03.19)	Target	Timeline	Progress upto 30.09.19	Progress upto 31.12.19

1	2	3	4	5	6	7	9
1	**Identification of hazardous waste generating units**	No of HW units	3086	3202	31.03.20	3181	3219
2	**Authorization of hazardous waste generating units**	No of HW units	2326	3181	30.06.20	2343	2359
3	**Percentage of non-compliance of HW units.**	%age	4.20%	< 5%	31.03.20	5.5% for the month of Sept.	8.84% for the month of Dec.
4	**Installation of Incinerator at Common TSDF**	Installation date	Process underway	To be installed	31.03.20	No Progress	No Progress

11. Compliance of E-Waste Management Rules, 2016

Following activities are being monitored as a part of implementation of Action plan for E- Waste management, the summary of which is given below:

S N.	Activity	Unit of Measurement	Baseline (31.03.19)	Target	Timeline	Progress upto 30.09.19	Progress up to 31.12.19
1	2	3	4	5	6	7	8
1	**Inventorization of bulk consumers**	No of Units	112	20,000	31.03.20	2987	6615
2.	**Compliance of Extended Producer Responsibility**	No of Units	4	7	31.03.20	5	7
3(a)	**Grant of Authorization to Manufacturers and its online updation**	No of Units	0	1	90 days	1	1
(b)	**Grant of Authorization to Dismantlers and Recyclers**	No of Units	0	4	90 days	3	3
4.	**Verification of facilities of dismantlers and recyclers for their infrastructure & records**	No of facilities	1	8	Every year	4	4

B. Status of Functioning of Committees

12. Following Committees are monitoring the implementation of Action Plans on regular basis:

Sr. No.	Name of Committee	No. of meetings held upto 31.12. 2019
1.	District Level Task Force (Reconstituted as Distt. Environment Committee) under Deputy Commissioners	197

2.	River Rejuvenation Committee for monitoring the progress of Action Plans for Clean Rivers under the Chairmanship of Principal Secretary, Department of Science Technology & Environment, Govt. of Punjab	8
3.	Air Quality Monitoring Committee for monitoring the progress of Action Plans for Clean Air for 9 non-attainment cities under the Chairmanship of Principal Secretary, Department of Science Technology & Environment, Govt. of Punjab	8
4.	State Apex Committee under the Chairmanship of Chief Secretary, Punjab to review the monthly progress of Environmental Protection Action Plans for Clean Water, Clean Air & Waste Management	7
5.	Monitoring Committee appointed by NGT under the Chairmanship of Justice Jasbir Singh, Former Judge, Punjab & Haryana High Court	17

C. Status of Action Plan for Clean Rivers in compliance with the order dated 20.09.2018 in the news item published in, "The Hindu" titled as "More River Stretches are now critically polluted: CPCB" (O.A no. 673/2018)

13. The Quarterly Progress Report of O.A 673/2018 pertaining to polluted river stretches has been prepared in line with NGT directions for following thematic areas. The progress w.r.t. various activities as mentioned in Action Plan of Clean Rivers is given as under:

14. 351 Polluter Stretches in the Country

SN.	Activity	Unit	Baseline (2018-19)	Target	Timeline	Progress upto 30.09.19	Progress upto 31.12.19
1	2	3	4	5	6	8	9
1	Sutlej (Roopnagar to Harike Bridge)	Water Quality Class	C to E	B	30.06.22	B to D	C to E
2.	Ghaggar (Sardulgarh to Mubarkpur)	Water Quality Class	D to E	B	30.06.22	D to E	D to E
3.	Beas (Along Mukerian)	Water Quality Class	C	B	30.06.22	C	B
4.	Beas (Sultanpur Lodhi to Confluence point to Beas)	Water Quality Class	C	B	30.06.22	B	B
5	Installation of Real Time Monitoring Stations for River Water Quality	Number of CMS	0	11	15.12.19	Tender under Evaluation	Order Placed

Department of Environment is availing the services of IIT Ropar for development of low cost sensor to monitor various parameters of water quality i.e pH, TDS, Conductivity, BOD, DO & COD and analysis of data for ascertaining the sources of pollution. Five data acquisition nodes and 1 gateway node will be developed. The project will be completed by 31.07.2020.

15. Status of STPs and Re-Use of Treated Wastewater

(i) Existing STPs

SN.	Activity	Unit	Baseline (2018-19)	Target	Timeline	Progress upto 30.09.19	Progress upto 31.12.19
1	2	3	4	5	6		8
1.	**Monitoring of 88 Existing STPs**	% of Non-compliance	42.80%	0% NC	Monthly	39.27%	33.80%
2.	**Installation of CCTVs in existing 88 STPs**	% of installed CCTV	0	100%	31.12.19	56%	56%
3	**Installation of OCEMS on existing 88 STPs**	% of installed OCEMS	0	100%	31.12.19	5%	5%

(ii) Setting up new STPs (including rehabilitation and up-gradation) : 90

SN.	No. of STPs	Capacity (MLD)	Status of Funds	Timeline	DPR Stage	Tender Stage	Commencement of work	Completion & Commissioning
1	2	3	4	4	6	7	8	9
1	65	966.3	Tied Up	30.09.22	6	40	13	6
2	25	98.5	Not Tied Up	30.06.22	24	-	-	-

(iii) Re-Use of Treated Wastewater for irrigation Purposes

SN.	Details	No of STPs	Reuse of Treated Water (MLD)	Area Covered (hectares)
1	Existing Schemes	56	282	8021
2	Proposed Schemes	133	1469	30755

16. Status of CETPs/ETPs including performance

(i) Functioning of CETPs and ETPs

SN.	Activity	Unit	Baseline (2018-19)	Target	Timeline	Progress upto 30.09.19	Progress upto 31.12.19
1	2	3	4	5	6	8	9
1	**Monitoring of 3**	% of Non-	33%	0% NC	Monthly	33%	33%

	Existing CETPs	compliance					
2	**Monitoring of Existing 513 ETPs (approx. 10% of ETPs being monitored every month)**	% of Non-compliance	0% NC	PPCB	Monthly	20.59%	17.06%
3	**Installation of OCEMS in existing 129 ETPs more than 50 KLD**	% of installed OCEMS	100%	PPCB	31.07.19	53.27%	76%

(ii) Setting up of New CETPs

S.N	**Activity**	**Target Date of Completion**	**Status of Completion**	
			Progress upto 30.09.19	**Progress upto 31.12.19**
1	**2**	**3**	**5**	**6**
1	Setting up of 15 MLD CETP at Ludhiana	30.06.19	93.5%	96%
2	Setting up of 40 MLD CETP at Ludhiana	31.08.19	67%	72%
3	Setting up of 50 MLD CETP at Ludhiana	31.01.20	40%	50%
4	Setting up of 0.15 MLD CETP at Jalandhar	31.03.20	5%	5%
5	Up-gradation up of 5 MLD CETP at Jalandhar	31.03.20	DPR under vetting with CLRI	DPR under vetting with CLRI

17. Ground Water Extraction/ Contamination and Re-charge

The Department of Environment is taking up the matter regarding abstraction of ground water, its contamination and its re-charge with Department of Water Resources for data collection of the State and prepare comprehensive guidelines to regulate the abstraction of ground water and its quality.

18. Restoration of Water Bodies

The State Government has constituted Technical Committee to study various models regarding wastewater treatment of villages and to recommend appropriate design, schedule & methodology for treatment of wastewater in villages (especially village ponds). The Technical Committee has recommended various technological options along with their capital cost, O&M cost and area requirements for the treatment of wastewater in villages.

These technologies are to be demonstrated in around 50 villages in the State by the Department of Rural Development & Panchayats, Department of Water Supply & Sanitation and Punjab Pollution Control Board by 31st March, 2020 and then replicated in the remaining villages of the State.

The Department of Environment has already asked the Department of Rural Development & Panchayats and Department of Local Government to prepare the Action Plan for restoration of water bodies.

D. Status of Functioning of Committee constituted in News Item published in, "The Times of India" Authored by Shri. Vishwa Mohan titled, "NCAP with multiple timelines to Clear Air in 102 cities to be released around August, 15" dated 08.10.2018

19. State has prepared Action Plans to control Air pollution in 9 Non-Attainment cities (Mandi Gobindgarh, Khanna, Ludhiana, Jalandhar, Amritsar, Derabassi, Patiala, Dera Baba Nanak and Nangal) of Punjab. The progress of these Action Plans is being monitored on monthly basis by District Level Committees under the chairmanship of Deputy Commissioners, Air Quality Monitoring Committee (AQMC) under Principal Secretary, Environment and State Apex Committee under Chief Secretary, Punjab w.r.t. following sources of air pollution:

(i) Control on Industrial Emissions (CIE)

SN.	Activity	Unit	Baseline (31.03.19)	Target	Timeline	Progress as on 30.09.19	Progress as on 31.12.19
1	2	3	4	5	6	7	8
1	CIE-1: Conversion to Side Hood Suction in Induction Furnaces	% of Induction furnaces converted to Side Hood Suction out of 163 units	15%	100%	30.09.19	56%	67%
2	CIE -2: Industries to be converted from coal to CNG	% of Industries converted to CNG out of 914 units	0.60%	100%	31.03.21	2%	3%
3	CIE-2(ii): Progress regarding creation of infrastructure for CNG Pipeline	Length of the pipleline laid (inch Km)	-	53865	31.03.21	1058 (2%)	3314 (6%)
4	CIE-3: Conversion of Natural Draft Brick Kilns to Induced Draft Brick Kilns	% of brick kilns converted to induced draft out of 70 units	13%	100%	30.09.19	50%	54%
5	CIE-4A: Control of Industrial Emissions	% of units found non-complying out of 1585	10%	0%	Regular Activity	14%	13%
6	CIE-4B: Action against non-complying Industrial units	% of pending cases for more than 45 days out of 208 units	100%	0%	Regular Activity	16%	38%
7	CIE-5: Shifting of industries from non-designated areas to industrial Area	Number of industries shifted	0	196	31.08.25	0	0%

State Govt. directed PPCB to issue notice u/s 31-A of Air Act, 1981 for converting industries from coal to CNG fuel. PPCB has been asked to recover Environmental Compensation from non complying brick kilns w.e.f 01.02.2019 and not to allow operation of Conventional Brick Kilns after 30.09.2019.

(ii) Control on Road Dust (CRD)

SN	Activity	Unit	Baseline (31.03.19)	Targets	Timeline	Progress as on 30.09.19	Progress as on 31.12.19
1	2	**3**	**4**	**5**	**6**	**7**	**8**
1	CRD-1: Maintain pothole free roads / timely patchwork on roads	Identified road length to be made pothole free (Km)	278	278	31.03.20	205 (73%)	261 (94%)
2	CRD-2A: Water sprinkling on identified roads	Average road length to be sprinkled (Km/day)	158	158	Regular Activity	80 (51%)	179.7 (113%)
3	CRD-2B: Procurement of water sprinklers	No. of water sprinklers procured	0	12	31.03.20	3 (25%)	8 (67%)
4	CRD-3A: Procurement of Mechanical sweeping machines	No. of mechanical sweeping machines procured	0	7	31.03.20	0	3 (42%)
5	CRD-4A: Creation of green buffers along road side	No. of trees/shrubs planted	3850	30237	Regular Activity	30237 (100%)	30237 (100%)
6	CRD-5: Greening of parks, open areas, community places, schools and housing societies	No. of trees/shrubs planted	-	53000	Regular Activity	52305 (99%)	53000 (100%)
7	CRD-6: Installation of Water fountains at major traffic intersections	No. of chowks/ intersections installed with new water fountain	0	6	31.03.20	2 (33%)	1 (17%)
8	CRD-7A: Kaccha/Brick Paved Roads to be made Pucca roads	Katcha /Brick Paved roads made pucca roads (Km)	87	87	31.03.21	34 (39%)	36 (41%)
9	CRD-7B: Existing roads requiring recarpeting	Existing roads recarpeted (Km)	342	342	31.03.21	96 (28%)	224 (66%)
10	CRD-7C: Pavement of road side using interlocking tiles	Length of berm stabilized by using inter-locking tiles(Km)	132	132	31.03.21	50 (38%)	62 (47%)

(iii) Control on Vehicular Emissions (CVE)

SN.	Activity	Unit of Measurement/ Performance Indicator	Baseline as on 31.03.19	Targets	Timeline	Progress as on 30.09.19	Progress as on 31.12.19
1	2	3	4	5	6	7	8
1	CVE-1: Public awareness campaign for control of vehicular emissions	Nos of Public awareness campaigns	718	Regular Activity	31.03.20	1452	2798
2	CVE-2: Setting up of Remote Sensor Based PUC System	% of PCC linked with VAHAN/ SAARTHI out of 303 PCC	0	100%	30.06.20	0	130 (43%)
3	CVE-3: Extensive drive against polluting vehicles	No. of challans issued (% of vehicle found polluting)	3093	Regular Challans to be issued	Monthly	4977	6854
4	CVE-4A(i):Creating parking infrastracture by additional designated parking sites	Nos of additional parking sites	0	9	31.03.21	4 (44%)	4 (44%)
5	CVE-4A(ii): Creating parking infrastructure by developing additional Multi storied parking	Nos of additional Multistorey parking site to be constructed	0	8	31.03.22	DPR prepared for 3 sites	DPR prepared for 3 sites
6	CVE-4A(iii): Creating additional parking for trucks/ commercial vehicles	Nos of additional parking site to be constructed	0	1	31.03.21	0	DPR sent to the Govt. for approvaL
7	CVE-4B(i): Instaling additional "No Parking" sign boards to prevent parking of vehicles in non-designated areas	Nos. of additional Sign Boards installed	0	309	31.12.19	69 (22%)	213 (69%)
8	CVE-4B(ii) Prevent parking of vehicles in non-designated areas by enforcement actions	No. of challans issued	15083	Regular Challans to be issued	Monthly	31113	47917

9	CVE-5:Checking of Fuel Adulteration	% of petro pumps found non complying during inspections	0	0%	Monthly	0%	0%
10	CVE-6A: Widening of roads and infrastructure for decongestion of roads	Total road length identified for widening (Km)	93	93	31.03.20	23 (25%)	36 (38%)
11	CVE-6B: Road design improvement	Road length (Km)	2.7	2.7	31.3.20	Work under progress	Work under progress in Ludhiana
12	CVE-7: Installation of intelligent traffic systems	No. of intelligent traffic lights already installed	0	51	31.03.20	Work under progress in Jalandhar	Work under progress in Jalandhar
13	CVE-8: Construction of expressways/ bypasses to avoid congestion	Existing No. of bypass/ expressways	1	2	30.06.21	Work under progress	Work under progress in Ludhiana
14	CVE-9: Phasing out commercial diesel vehicles more than 15 years old	Policy matter	No such ban	Legal examining of the matter	31.03.20	Proposal sent to the Govt.	Proposal sent to the Govt.
15	CVE-10: Promotion of E-Vehicles	Policy matter	Policy is in final stages	Notification of Policy	31.03.20	Under progress	Draft policy circulated for comments
16	CVE-11A: Infrastructure development for additional CNG based filling stations	Number of additional CNG Stations	0	24	31.03.20	5 (21%)	7 (29%)
17	CVE-11B: Introduction of CNG based city Bus Service	No. of CNG based buses	0	Local Govt to update	31.03.22	No progress	No progress
18	CVE-11C: Introduction of CNG based autos/taxis	No. of CNG based autos/taxis	0	Transport Deptt. to update	31.03.22	No progress	No progress

State Govt. has directed Local Govt. to integrate GPS / GIS based monitoring of various activities such as water sprinkling and mechanical sweeping of roads, creation of green buffers etc at one web portal.

(iv) Control on Burning of Garbage and Biomass (CBGB)

Sr No.	Activity	Unit	Baseline (31.03.19)	Targets	Timeline	Progress as on 30.09.19	Progress as on 31.12.19
1	2	3	4	5	6	7	8
1	CBGB-1: Control on open burning of bio-mass in City	Nos of Composting Pits	301	1032	31.03.20	215 (21%)	421 (41%)
2	CBGB-2: Control on burning of municipal solid wastes	% of sites found burning solid waste out of total inspections	64%	0%	Monthly	16%	11%
3	CBGB-3A: Control on burning of agriculture waste and crop residue - challans issued	% of challans issued from total reported incidents (52942)	-	100%	During Kharif Season	-	44%

(v) Control on Construction and Demolition Activities (CCDA)

SN.	Activity	Unit	Baseline as on 31.03.19	Target	Timeline	Progress as on 30.09.19	Progress as on 31.12.19
1	2	3	4	5	6	7	8
1	CCDA-1A: Enforcement of Rules - inspection of sites	No. of sites inspected	270	Regular Activity	Monthly	1250	3028
2	CCDA-1B: Enforcement of Rules - non-complying sites	% of non-complying sites from the total 3028 sites inspected	47%	0%	Monthly	25%	20%
3	CCDA-1C: Enforcement of Rules - Action against non-complying sites	% of non-complying sites against which action initiated	100%	100%	Monthly	100%	100%
4	CCDA 2 – Development of Processing site for C&D Waste	Number of sites to be notified for C&D waste disposal	0	25	31.03.22	12 (48%)	15 (60%)
5	CCDA 3 – Control measures for fugitive emissions w.r.t C & D activity	% of non complying sites against which action initiated out of 46 inspected	-	100%	30.09.19	100%	100%

(vi) Control on Other Sources (COS)

SN.	Activity	Unit	Baseline (31.03.19)	Targets	Timeline	Progress as on 30.09.19	Progress as on 31.12.19
1	2	3	4	5	6	7	8
1	COS-1A: Dissemination of Air Quality Index by installing additional CAAQMS	No. of additional CAAQMS installed	0	9	31.03.20	0	0
2	COS-1B: Dissemination of Air Quality Index by installing additional display boards in the city	Nos of additional display Board to be installed	0	14	31.03.20	0	0
3	COS-2: Establish an Air Quality Management Division at PPCB	Set up Division	No proper division	9	31.03.20	Yet to be set up	Yet to be set up
4	COS-3: Establish helpline in each city as well as SPCB HQ	Number of helpline set up	o help exists	9	31.03.20	Yet to be set up	Yet to be set up
5	COS-4A: Monitoring of DG sets	% of DG sets found non-complying out of 1006 inspected	100%	0%	Regular inspections	3%	7%
6	COS-4B: Monitoring of DG sets - Action against non-complying DG Sets	% of pending cases for more than 45 days out of 73 no. Non compliant units	100%	0%	Regular inspections	22%	8%
7	COS-5: Source Apportionment Study	Nos of city covered	2	7	31.03.20	2 (22%)	2 (22%)

20. Noise Pollution

In pursuance of NGT order dated 15.03.2019 in O.A. No. 681/2018, the Department of Environment has prepared Draft Action Plan for mitigation of noise pollution. The same has been circulated to all the stakeholder departments for seeking their inputs. The Punjab Pollution Control Board is in the process of hiring agency for identification of hot spots & for noise mapping. The final plan will be submitted to CPCB within 2 months.

E. Status of the Action Plan w.r.t. identification of polluted industrial clusters in O.A. no. 1038/2018, News Item published in, " The Asian Age", authored by Sanjay Kaw titled, "CPCB to rank industrial units on pollution levels" dated 13.12.2018

21. CPCB carried out fresh assessment of industrial clusters in the country in 2017-18 and submitted its report to MoEF&CC, Govt. of India for consideration and approval. MoEF&CC is yet to notify the industrial clusters based on the latest CPCB report. Action Plans of the polluted industrial cluster will be prepared accordingly.

F. Status of Work in compliance of the directions passed in O.A. no. 173/2018, Sudarsan Das V/s. State of West Bengal & Others Order dated 04.09.2018

22. The matter does not relate to Punjab.

G. Total amount collected from erring industries on the basis of, "Polluter Pays" Principle, "Precautionary Principle" and details of utilization of funds collected

23. Punjab Pollution Control Board has been asked to submit the necessary details and institutional mechanism for levy of environmental compensation and utilization thereof as per NGT directions is being worked out.

H. Status of the identification & development of Model Cities and Towns in the State in the first phase which can be replicated later for other cities and towns of the State

24. Action Plans for the 3 Model Cities (Amritsar, Bathinda & SAS Nagar) and 3 Model Towns (Nawanshahr, Roopnagar & Moonak) for scientific management of solid waste have been prepared and are being executed by the respective ULBs under administrative control of Department of Local Government.

25. The progress w.r.t implementation of the key activities of solid waste management in these Model Cities / Towns is being regularly monitored and the progress in this regard is annexed as **Annexure-I.**

26. The Department of Rural Development & Panchayats has prepared a Sample Plan for the 66 villages being developed as Model villages. The plan has been implemented in 17 such villages and its implementation work is underway in 24 villages as reported by the Department of Rural Development & Panchayats. Funds are being tied up for the remaining 36 villages and work in these model villages would be completed by 31.03.2020.

I. Status of Action Taken for prohibiting mining activities within river bed in the State of Punjab, in compliance of directions of Hon'ble NGt in the matter O.A. No. 767/2018 dated 31.01.2019 (now connected with the matter of O.A. No. 606/2018)

27. The Department of Mines and Geology reported that in compliance of NGT order dated 31.01.2019 in O.A. No. 767/2018, following actions were taken:

(i) Recovery notices to the defaulting contractors have been issued. The appeals filed by the contractors against the recovery notices have been sent to Deputy Commissioner, Roopnagar for getting it checked by Site Appraisal Committee.

(ii) Regarding Environmental damage due to illegal mining, Assessment Report of Committee constituted by Hon'ble NGT has yet to be received.

(iii) Regarding action against erring officials, meeting was conducted by Secretary-Cum-Director, Mining on 23.04.2019 with Department of Industries and the report in this regard is awaited. However, the Department of Mines & geology is pursuing the matter.

(iv) Regarding replenishment study, the field survey of river sites have been conducted by the field Engineers indicating that there is a natural deposition of sand in river bed. Accordingly, a report has been submitted to Hon'ble NGT on 09.07.2019. The same has been considered by Hon'ble NGT. As far as long term effect on river health is concerned, the matter regarding replenishment is being taken up with IIT Roorkee. Subsequently, a meeting was held with Drainage deptt. on 1/11/2019 to discuss the matter and they have been requested to carry out detailed survey regarding siltation of rivers and submit the report.

J. Status of Action Taken on Performance audit of functioning of all regulatory bodies and remedial measures, in compliance of directions of Hon'ble NGT in the matter O.A No. 606/2018 dated 07.03.2019

28. It has been observed that there is lack of clear guidelines for many of the regulatory functions being exercised by PPCB and outcomes of inspections and action being taken are not standardized. There is lack of adequate delegation of powers at Regional Office level and the Senior Officers are doing original work rather than supervising and exercising oversight on the functioning of regional officers. The Board has been advised to take necessary corrective action. The Department of Environment has also initiated the process of regulatory audit of the Board and remedial action will be taken based on the findings of the audit.

K. Status of Action Taken on System of ranking of cities, town and villages in the State based on level of compliance with environment laws in compliance of directions of Hon'ble NGT in the matter in O.A. No. 606/2018 dated 15.03.2019 for the State of Bihar

29. The Department of Environment is in the process of evolving a system for ranking of cities, towns and villages with the technical assistance of expert agency. MOU has been signed with NEERI and work order for evolving a system for ranking is going to be issued shortly.

L. Interventions for Robust Monitoring System

30. Keeping in view the issues identified in existing manual system such as inherent delay in processing & retrieval of information, synchronization & analysis of data generated by online monitoring systems and compulsion of providing a good e-governance monitoring environment, the following IT interventions have been made:

31. **MIS for EPMS**: A dedicated IT platform i.e Management Information System (MIS) for Environment Protection Monitoring System (EPMS) is being developed to monitor the implementation of Actions Plan. The entire data from stakeholder departments and project sites will be captured online and all reports and analysis for monitoring of the Action plans at various levels will be done through a web portal. MIS will be supported by Dash Board at Primary and Secondary level for monitoring purpose and provide real time information through Dashboards, data analytics, drill down reports, tables, appropriate graphical representations. The system would also be able to generate alerts in the form of SMS and Email to the concerned department as well as the owner department in the event of a default. The system shall provide a single point of access to about 600 users from various departments through the mobile application & web browsers with a provision to add their inputs which would enable the Authorities to monitor the various activities. The project will be completed by 30.06.2020.

32. **Integrated Dashboard for Real Time Data Monitoring:** Keeping in view the need to develop the unified portal which will receive the data in common format from Continuous Ambient Air Quality Monitoring Stations, online monitoring systems for stack emission, Online Continuous Monitoring System, ETPs, RTWQMS to analyze and generates trends & report using Artificial Intelligence (AI) and Big data analytics, an Integrated dashboard for real time data monitoring and analytics of emissions, ambient air, effluent & river water quality monitoring is being developed. The integrated dashboard with three level i.e. public dashboard, departmental dashboard and management dashboard is likely to be made operational by March, 2020.

Annexure-I

Summary Sheet for Model Cities/ Towns

Name of City/ Town	Total Waste Generation (TPD)	D2D Collection (%)	Source Segregation (%)	Setting up of Processing facilities			% BWGs Compliance	Remediation of Dump site	Setting up of SLF	C&D Waste Processing Facilities
				%age of compost pits constructed	% age of parks/green belts doing onsite composting	%age MRF set up for dry waste channelization				
Amritsar	500	100%	24%	88.3% (53/60)	24.3% (110/452)	11.7% (4/34)	4.6% 15/320 (100 Kg or above)	Yet to initiate	Project approved	Project approved
Bathinda	118	100%	100%	100% (24/24)	100% (144/144)	100% (1/1)	100% 36/36 (100 Kg or above)	Yet to initiate	Project approved	Mini processing plant set up
SAS Nagar	53	100%	55%	95.6% (87/91)	0.6% (3/540)	100% (19/19)	54.5% 36/66 (100 Kg or above)	Initiated	Project approved	Project approved
Moonak	4	100%	100%	100% (28 /28)	100% (2/2)	100% (1 /1)	100% 2/2 (10 -50 Kg or above)	Initiated	Project approved	Project approved

Nawansha hr	14	100%	94%	100% (75/75)	100% (2/2)	Integrated facility with MRF	100% 2/2 (10 -50 Kg or above)	Initiated	Project approved	Project approved
Roopnagar	16	100%	90%	86.6% (104/120)	52.6% (10/19)	50% (1/2)	72.7% 8/11 (10 -50 Kg or above)	Initiated	Project approved	Project approved

Table 5-A: Details of Drains contributing to Pollution in River Sutlej

River Stretch: (Roop Nagar to Harike Bridge)			Priority: I	
Drain	**Type Domestic/ industrial/ mixed**	**Approx. Quantity (MLD)**	**Avg. BOD (mg/l)**	**Avg. FC (MPN/100ml)**
Budha Nallah	Mixed	650	170	1684444
Theing Drain	Mixed	3	42	376889
East Bein	Mixed	350	61	150625

Apart from above major drains, Punjab Pollution Control Board has been asked to monitor other drains also and progress in this regard will be reported in the next quarter.

Table 5-B: Details of Drains contributing to Pollution in River Ghaggar

River Stretch : (Sardulgarh to Mubarakpur)				Priority: I	
	Drain	**Type Domestic / industrial / mixed**	**Approx. Quantity (MLD)**	**Avg. BOD (mg/l)**	**Avg. FC (MPN/100ml)**
1.	Sukhna Choe	Drain originate from Chandigarh (UT)	1.23	62.7	84755
2.	DeraBassi Choe	Domestic	3.832	43.16	43733
3.	Jharmal Choe	Domestic	4.532	61.77	24455
4.	Basauli Drain	Domestic	0.5	53.22	20033
5.	Pachisdara Drain (Dakansu Choe)	Domestic	55.054	24.57	9820
6.	Patiala Nadi	Domestic	94.520	38.55	12911
7.	Sagarpara Drain	Drain originate from Haryana	0.028	67.88	13788
8.	Kaithal Drain	Drain originate from Haryana	2.641	25.22	7188
9.	Jhambowalichoe	Domestic	33.385	24.75	10977
10.	Lehragagga Main	Domestic	9.016	18.55	10566
11.	Sirhind Choe	Domestic	102.862	9.5	894
12.	Miranpur Choe	Domestic	2.753	16	4866

Table 5-C: Details of Drains contributing to Pollution in River Beas

River Stretch: (Along Mukerian)			Priority: V	
Drain	**Type Domestic / industrial/ mixed**	**Approx. Quantity (MLD)**	**Avg. BOD (mg/l)**	**Avg. FC (MPN/100ml)**
Swan Khadh	Mixed	2	3.1	261
ChakPhandian Drain	Domestic	12.2	2.7	230
Bhangala Drain	Domestic	2	3.9	244
Gazi Drain	Domestic	1	3.8	735
NikasMansar Drain	Domestic	2.5	21.1	4500
Tanda Ram Sahai Drain	Domestic	4	16.0	3300
River Chakki	Domestic	20	1.9	597

Table 5-D

River Stretch: (Sultanpur Lodhi to Confluence point to Beas)			Priority: IV	
Drain	**Type Domestic / industrial / mixed**	**Approx. Quantity (MLD)**	**Avg. BOD (mg/l)**	**Avg. FC (MPN/100ml)**
Wadala Drain	Mixed	25	6	220
Bhulana Drain	Domestic	6	4.0	250
Khane&Khane Extension Drain	Domestic	0.5	2	220
Sultanpur Drain	Domestic	3	5.0	250

Apart from above major drains, Punjab Pollution Control Board has been asked to monitor other drains also and progress in this regard will be reported in the next quarter.