

National Mission for Clean Ganga

Punjab: Submission of Monthly Progress Report for July, 2020

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

Sr. 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	<p>Department of Local Government has taken following measures for in-situ remediation:</p> <ul style="list-style-type: none">• The work for in-situ remediation of the Sirhind Choe (near Bhadson, District Patiala), with the demonstration of Constructing Wet Land Technology has been completed. The results would be analyzed before 31.03.2021. After analyzing the results, the said technology will be replicated in rest of the drains in the State in phased manner.• In-situ remediation of Bhulana drain by Punjab Pollution Control Board by installing bioremediation, phyto-remediation enhanced by Nano Bubble Technology on pilot basis is under progress.• WSP based STP at Bhulath has been upgraded by adding Nano Bubble Technology on 26.07.2020 and results are expected by 15.10.2020.• The work on piloting low cost eco-friendly on 500 KLD STP for Banur, based on modified constructed wetland approach, has been awarded at a cost of Rs. 74.17 lacs which is to be completed by 31.12.20.• A solar aerator installed in maturation pond of WSP based STP Malout in July 2020 at a cost of Rs. 1.50 lacs. This would help in to improve water quality of STP.
	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	<ul style="list-style-type: none">• Out of 88 New STPs (including rehabilitation / up-gradation of existing 13 STPs), the status is as under:<ul style="list-style-type: none">- Completed: 1 STP (25 MLD),- Under Construction: 22 STPs (259.8 MLD)- Tender Stage: 45 STPs (675.1 MLD)- DPR Stage: 20 STPs (96.6 MLD)

			<ul style="list-style-type: none"> Incremental Progress during the month: <ul style="list-style-type: none"> Work for rehabilitation of existing 25 MLD STP at Kapurthala has been completed. Work allotted for 100 MLD & 50 MLD STP at Jalandhar, 5 MLD STP at Longowal & 12 MLD STP at Nabha. Land of STP for Sultanpur Lodhi (4 MLD) & Mallanwala (3 MLD) have been identified for setting up of STP.
	Timeline for completing all steps of action plan including completion of setting up of STPs and their commissioning	31.03.2021	<p>88 STPs (75 new & 13 up-gradation) are being set up in the catchment areas of rivers as per following details:</p> <ul style="list-style-type: none"> 11 STPs (88.2 MLD) by 31.03.21 25 STPs (356.45 MLD) by 31.03.22 32 STPs (278.75 MLD) by 31.03.23 20 STPs (333.10 MLD) by 31.12.23 <p>The details of 75 new STPs and 13 existing STPs under up-gradation along with their timelines, are attached at Annexure- 1A & 1B.</p>
3	<p>Chief Secretaries may set up appropriate monitoring mechanism at State Level:</p> <ul style="list-style-type: none"> Specifying accountability of nodal authorities not below the Secretary level Chief Secretaries may have an accountable person attached in their office for this purpose. 	<p>22.01.2020</p> <p>22.01.2020</p>	<p>Govt. of Punjab had set up Directorate of Environment & Climate Change within the Department of Science, Technology & Environment to coordinate implementation of Environment Protection Action Plans and compliance of NGT orders</p>
	<ul style="list-style-type: none"> Monitoring at State Level must take place 	<p>Fortnightly commencing 21.12.2019</p>	<ul style="list-style-type: none"> 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. Thirteen meetings of State Apex Committee were held from Jan, 19 to June, 2020. The last meeting was held on 14 May, 2020. The progress of implementation of Action Plans is being also reviewed on monthly basis by River Rejuvenation Committee

			<p>under the Chairmanship of Principal Secretary, Department of Environment and NGT appointed Sub Committees on monthly basis.</p> <ul style="list-style-type: none"> Tenth meeting of River Rejuvenation Committee under the Chairmanship of Principal Secretary was held on 22 June, 2020.
6	<p>Progress report may be furnished by the States/ UT to:</p> <ul style="list-style-type: none"> Secretary, Ministry of Jal Shakti Member Secretary, CPCB 	<p>Monthly (preferable before 20th of every month)</p>	<p>Progress Report for the month of June, 2020 submitted to Ministry of Jal Shakti vide email dated 15.07.2020 with copy to CPCB.</p>
6.1	<p>Progress report may be comprised of details along with completion timelines on:</p>		
(i)	<p>Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment.</p>		<ul style="list-style-type: none"> 4 polluted river stretches and major drains contributing to rivers identified. Punjab Pollution Control Board has been directed to monitor the drains. Department of Local Government has taken steps for in-situ treatment as brought out at Sr.No. 1
(ii)	<p>Status of STPs, I&D and sewerage networks</p> <p>Details of existing infrastructure, Gap Analysis, Proposed along with completion timeline.</p>		<ul style="list-style-type: none"> Total 92 STPs are in operation in the catchment areas of rivers Sutlej (51), Beas (17) and Ghaggar (24). 78% of sewerage network is in place in the State. Quantity of sewage generated from 95 ULB/town falling in the catchment area of river has been estimated as 1610.5 MLD. Presently 92 STPs of 1303 MLD (80.9%) are in operation. There is a Gap of 456 MLD in the river towns. 75 New STPs of 632 MLD are proposed to be installed by 31.12.23 with details as under: <ul style="list-style-type: none"> 7 STPs (45.3 MLD) by 31.03.21 23 STPs (93.45 MLD) by 31.03.22 31 STPs (178.75 MLD) by 31.03.23 14 STPs (314.5 MLD) by 31.12.23

(iii)	<p>Status of CETPs</p> <p>Details of Existing CETP and ETP infrastructure, Gap Analysis, proposed along with completion timeline, No. of industries and complying status.</p>		<ul style="list-style-type: none"> • 4 CETPs of total installed capacity of 20.535 MLD exist. • Out of 4 CETPs, 2 CETPs were complying the prescribed discharge norms. One CETP of 5 MLD capacity at Leather Complex, Jalandhar could not be monitored as it has been shut down as per directions of Hon'ble Punjab & Haryana High Court. One newly setup 15 MLD CETP for textile dyeing at Ludhiana is under stabilization. • The work of 40 MLD and 50 MLD capacity New CETPs for textile dyeing cluster at Ludhiana have been completed to the tune of 78.2% and 63% respectively. The timeline for the completion of both the CETPs is 31.12.2020. • A total of 171 MLD of industrial effluent is generated, which is treated in captive ETPs installed by the industries. • 509 ETPs are under operation in the catchment area of rivers. • Approximately 10% of ETPs being monitored every month. • The %age Non-compliance of ETPs (as per number of ETPs) reduced from 38% during 2019-20 to 19% during July,2020.
(iv)	<p>Status of Solid Waste Management & Details of Processing Facilities</p> <p>Details of existing infrastructure, Gap Analysis, Proposed along with completion timeline</p>		<ul style="list-style-type: none"> • D2D Collection: 97.3% House Holds covered. • Source Segregation: 77% HHs practicing segregation at source, with proposed target for 100% coverage by 31.03.2021. • Out of 4100 TPD MSW generated in the State: <ul style="list-style-type: none"> - 1930 TPD of wet waste is processed in decentralized compost pits (5940 no.), including Central Processing Plants set up at Ludhiana & Bathinda. - 950 TPD of dry waste is being processed at Central Processing facilities of 800 TPD and 150 TPD set up at MC, Ludhiana and Bathinda respectively. - Remaining 1230 TPD is being sent to dump sites of respective ULBs for land filling. - Setting of 2 no. Waste to Energy Plants

			(2 WTEs) are proposed for 100 % processing of waste.
(v)	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river		<ul style="list-style-type: none"> • The range of water quality of polluted river stretches monitored in the month of July, 2020 as per CPCB: <ul style="list-style-type: none"> ○ Sutlej (Roopnagar to Harike Bridge): B to E (Priority-I) ○ Ghaggar (Sardulgarh to Mubarkpur): D to E (Priority-I) ○ Beas (Along Mukerian): B (Priority-V) ○ Beas (Sultanpur Lodhi to Confluence point to Beas): B (Priority-IV) • Out of the 4 polluted river stretches, the State has achieved Class-B water quality in 2 polluted river stretches of Beas.
(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.		<ul style="list-style-type: none"> • State has achieved 97.3% D2D collection in all ULBs to restrain open dumping of waste. • Total 1217 Bulk Waste generators (BWGs) have been identified and actions are being taken to ensure in-situ management of wet waste by BWGs, in compliance of SWM Rules, 2016. About 17% of BWGs are complying with the rules till date. • State has set up mechanism for scientific collection of biomedical waste (15-16 TPD) through bar code system and treated at 5 Common Biomedical Waste Treatment Facilities setup at Amritsar, Pathankot, Ludhiana, Muktsar Sahib & Mohali. • Separate Material Recovery Facilities are being set up for effective sorting, channelizing and processing of recyclable & non-recyclable fractions of plastic waste. • Adopted decentralized model for processing of wet waste to minimize environmental impacts entailed with its transportation.
(vii)	Ground Water Regulation		<ul style="list-style-type: none"> • Government of Punjab notified Punjab Water Regulation and Development Authority in June, 2020 for the management and regulation of water resources to ensure

			<p>judicious, equitable and sustainable utilization of water.</p> <ul style="list-style-type: none"> • 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.
(viii)	Adopting Good Irrigations Practices		<p>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.</p>
(ix)	Protection and Management of Flood Plain Zones (FPZ)		<p>Department of Water Resources informed that flood protection embankment has been already constructed on both sides of the rivers in the State. As the rivers are already channelized, therefore flood plain zoning is not technically feasible.</p>
(x)	Rain Water harvesting		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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

			<p>order dated 9.8.2017 in O.A. No. 498 of 2015 in the matter of "Pushp Saini Vs MoEF&CC Gol.</p> <ul style="list-style-type: none"> • As per Department of Water Resources, there is no regulation point in the State for Ghaggar, which is not a perennial river. • Chief Engineer/Canals vide his office Memo No. 522-23 dated 27.7.2020 has requested Engineer-in-Chief/ Irrigation and Water Resources, Govt. of Haryana for release of water from Kaushalya Dam for maintaining E-Flow in River Ghaggar. The response from Govt. of Haryana is awaited.
(xii)	Plantation on both sides of river		<ul style="list-style-type: none"> • 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. • Municipal Corporation, Ludhiana planted 4270 saplings of various plants including Shady, Medicinal, Fruit and Flowering trees at various sites across the catchment area of Budha Nallah.
(xiii)	Setting up of bio-diversity parks on flood plains by removing encroachment		<ul style="list-style-type: none"> • Municipal Corporation, Ludhiana selected 6 sites for development of Biodiversity Parks at Ludhiana. • 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.

Details of the New STPs to be setup in the catchment areas of rivers

S. No.	River	Distt.	ULB	Location of STP	Deptt.	STP Capacity	Completion Date
1	2	3	4	5	6	7	8
1	Sutlej	Ludhiana	Ludhiana	Jamalpur	MCL	225	31.10.22
2	Sutlej	Ludhiana	Ludhiana	Baloke	MCL	50	30.04.22
3	Sutlej	Jalandhar	Jalandhar	Pholriwal	MCJ	50	30.06.22
4	Sutlej	Jalandhar	Jalandhar	Basti Peer Dad	MCJ	15	30.08.22
5	Sutlej	Ferozepur	Ferozepur	Ferozepur	PWSSB	18	31.12.20
6	Sutlej	Ferozepur	Ferozepur	Ferozepur	PWSSB	1	31.12.22
7	Sutlej	Ferozepur	Guru Har Sahai	Guru Har Sahai	PWSSB	1	30.06.21
8	Sutlej	Ferozepur	Guru Har Sahai	Guru Har Sahai	PWSSB	4	30.06.21
9	Sutlej	Faridkot	Jaito	Jaito	PWSSB	6	31.12.20
10	Sutlej	Faridkot	Kotakpura	Kotakpura	PWSSB	8	31.03.21
11	Sutlej	Faridkot	Kotakpura	Kotakpura	PWSSB	6	31.03.21
12	Sutlej	SBS Nagar	Balachaur	Balachaur	PWSSB	4	30.06.22
13	Sutlej	Hoshiarpur	Garshankar	Garshankar	PWSSB	3	30.06.22
14	Sutlej	Rupnagar	Kiratpur	Kiratpur Sahib	PWSSB	2	30.06.22
15	Sutlej	Bathinda	Maluka	Maluka	PWSSB	1	30.06.22
16	Sutlej	SBS Nagar	Rahon	Rahon	PWSSB	3	31.12.21
17	Sutlej	Faridkot	Faridkot	Faridkot	PWSSB	14	31.12.22
18	Sutlej	Tarn Taran	Patti	Patti	PWSSB	8	31.12.23
19	Sutlej	Fazilka	Arniwala	Arniwala	PWSSB	2	30.06.22
20	Sutlej	Muktsar	Barriwala	Barriwala	PWSSB	2	31.12.23
21	Sutlej	Bathinda	BhagtaBhaike	BhagtaBhaike	PWSSB	3	31.12.23
22	Sutlej	Bathinda	Bhai Roopa	Bhai Roopa	PWSSB	4	31.12.23
23	Sutlej	Bathinda	Kotha Guru	Kotha Guru	PWSSB	3	31.12.23
24	Sutlej	Hoshiarpur	Mahilpur	Mahilpur	PWSSB	2	31.12.23
25	Sutlej	Ferozepur	Mallanwala	Mallanwala	PWSSB	3	31.12.23
26	Sutlej	Ferozepur	Mamdot	Mamdot	PWSSB	3	31.12.23
27	Sutlej	Ferozepur	Mudki	Mudki	PWSSB	3	31.12.23
28	Sutlej	Moga	Nihal Singh Wala	Nihal Singh Wala	PWSSB	3	31.12.23
29	Sutlej	Ludhiana	Raikot	Raikot	PWSSB	7	30.06.22
30	Sutlej	Moga	Baghapurana	Baghapurana	DWSS	4.00	31.03.21
31	Sutlej	Muktsar Sahib	Muktsar Sahib	Muktsar Sahib	DWSS	15	01.12.21
32	Sutlej	SBS Nagar	Nawanshahr	Nawanshahr	PWSSB	4	31.12.23
33	Beas	Kapurthala	Sultanpur Lodhi	SultanpurLodhi	PWSSB	1.4	30.09.22
34	Beas	Kapurthala	Sultanpur Lodhi	SultanpurLodhi	PWSSB	1	30.09.22

35	Beas	Jalandhar	Kartapur	Kartarpur	PWSSB	4	30.06.22
36	Beas	Kapurthala	Dhilwan	Dhilwan	PWSSB	2.5	30.09.22
37	Beas	Pathankot	Pathankot	KothiPandita	PWSSB	2	31.12.22
38	Beas	Pathankot	Pathankot	Adarash Nagar	PWSSB	1.2	31.12.22
39	Beas	Hoshiarpur	Haryana	Haryana	PWSSB	2	31.12.21
40	Beas	Gurdaspur	Sujanpur	Sujanpur	PWSSB	5.5	30.06.22
41	Beas	Hoshiarpur	Talwara	Talwara	PWSSB	4	31.12.22
42	Beas	Tarn Taran	Goindwal Sahib	Goindwal Sahib	DWSS	1.3	31.12.20
43	Beas	Kapurthala	Kapurthala	Rawal & Colonies	PWSSB	3	30.06.22
44	Beas	Pathankot	Pathankot	FP, Pathankot	PSIEC	2	30.09.21
45	Beas	Tarn Taran	Goindwal Sahib	FP,Goindwal Sahib	PSIEC	2	30.09.21
46	Ghaggar	Mansa	Boha	Boha	PWSSB	2	31.03.21
47	Ghaggar	Sangrur	Cheema	Cheema	PWSSB	2	30.06.22
48	Ghaggar	Patiala	Bhadson	Bhadson	PWSSB	3	31.03.22
49	Ghaggar	Patiala	Nabha	Nabha	PWSSB	12	31.03.22
50	Ghaggar	Sangrur	Dhuri	Dhuri	PWSSB	5	31.12.21
51	Ghaggar	Sangrur	Dhuri	Dhuri	PWSSB	6	31.12.22
52	Ghaggar	Sangrur	Sangrur	Sangrur	PWSSB	4	31.12.21
53	Ghaggar	Sangrur	Sangrur	Sangrur	PWSSB	11	31.12.22
54	Ghaggar	Fatehgarh Sahib	Bassi Pathana	Bassi Pathana	PWSSB	3	31.12.21
55	Ghaggar	Fatehgarh Sahib	Bassi Pathana	Bassi Pathana	PWSSB	0.2	31.12.21
56	Ghaggar	Sangrur	Longowal	Longowal	PWSSB	5	30.06.22
57	Ghaggar	Fatehgarh Sahib	Amloh	Amloh	PWSSB	3	30.06.22
58	Ghaggar	Mohali	Dera Bassi	Mirpur, Derabassi	PWSSB	2	30.04.22
59	Ghaggar	Mohali	Dera Bassi	Issapur, Derabassi	PWSSB	2	30.04.22
60	Ghaggar	Mohali	Lalru	Dappar , Lalru	PWSSB	1	30.04.22
61	Ghaggar	Mohali	Lalru	Lalru Mandi	PWSSB	1.5	31.12.23
62	Ghaggar	Mohali	Lalru	Lalru	PWSSB	0.15	31.12.21
63	Ghaggar	Patiala	Sanour	Sanour	PWSSB	4	30.09.22
64	Ghaggar	Patiala	Ghanaur	Ghanaur	PWSSB	2	30.06.22
65	Ghaggar	Fatehgarh Sahib	Sirhind	Sirhind	PWSSB	2	31.12.21
66	Ghaggar	Fatehgarh Sahib	Sirhind	Sirhind	PWSSB	4	31.12.21
67	Ghaggar	Fatehgarh Sahib	Sirhind	Sirhind	PWSSB	5	30.09.21
68	Ghaggar	Mohali	Lalru	Gholumajra (Lalru)	PWSSB	0.3	31.12.21

69	Ghaggar	Mohali	Lalru	Chaundheri & Samalheri , (Lalru)	PWSSB	0.3	31.12.21
70	Ghaggar	Mohali	Zirakpur	Zirakpur	PWSSB	17	30.09.22
71	Ghaggar	Mohali	Banur	Banur (Bassi Isse Khan)	PWSSB	0.5	31.03.22
72	Ghaggar	Mohali	Banur	Banur (Fauji Colony)	PWSSB	0.15	30.09.22
73	Ghaggar	Patiala	Patiala	Shermajra	PWSSB	15	30.04.21
74	Ghaggar	Patiala	Bahadurgarh	Bahadurgarh	DWSS	4	30.09.21
75	Ghaggar	Patiala	Patiala	Patiala	MES	6	31.10.21

Details of Existing STPs under Rehabilitation / Up-gradation

S. No.	River	ULB/ Town	Department	STP Cap	Type of Intervention	Timelines
1	Sutlej	Balloke	MCL	152	Rehabilitation	31.07.2021
2	Sutlej	Bhattian	MCL	111	Rehabilitation	31.10.2021
3	Sutlej	Pholriwal	MCJ	100	Rehabilitation	30.06.2022
4	Sutlej	Phillaur	PWSSB	2.6	Technology Upgradation	31.12.2023
5	Sutlej	Goniana	PWSSB	3	Technology Upgradation	31.12.2023
6	Sutlej	Malout	PWSSB	3	Technology Upgradation	31.12.2023
7	Sutlej	Muktsar Sahib	DWSS	8.7	Major Repair	31.03.2021
8	Sutlej	Muktsar Sahib	DWSS	5.7	Major Repair	31.03.2021
9	Sutlej	Muktsar Sahib	DWSS	3.5	Major Repair	31.03.2021
10	Beas	Kapurthala	PWSSB	25	Rehabilitation	Completed
11	Ghaggar	Baretta	PWSSB	3	Technology Upgradation	31.12.2023
12	Ghaggar	Bhikhi	PWSSB	3	Technology Upgradation	31.12.2023
13	Ghaggar	Sardulgarh	PWSSB	3	Technology Upgradation	31.12.2023