

National Mission for Clean Ganga

Punjab: Submission of Monthly Progress Report for June, 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">• In-situ remediation of Bhulana drain by installing bioremediation, phyto-remediation enhanced by Nano Bubble Technology on pilot basis in June, 2020. The model is being monitored to ascertain its adequacy.• In-situ remediation of Sirhind Choe carrying wastewater of Bhadson town by installing facultative pond followed by free water CWS on pilot scale which is near commissioning.• After successful operation of both these models, same will be replicated for remediation of other drains in the State.
	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	Out of 88 New STPs (including rehabilitation / up-gradation of existing 13 STPs), work in 16 STPs is under progress, 62 STPs are at tender stage and land not available in 10 STPs.
2	Timeline for completing all steps of action plan including completion of setting up of STPs and their commissioning	31.03.2021	<p>88 STPs (including rehabilitation / up-gradation 13 existing STPs) are being set up in the catchment areas of rivers as per following details:</p> <ul style="list-style-type: none">• 11 STPs by 31.03.21• 25 STPs by 31.03.22• 32 STPs by 31.03.23• 20 STPs by 31.12.23 <p>The details of 75 new STPs and 13 existing STPs under up-gradation, are attached at Annexure- 1A & 1B.</p>
3	Chief Secretaries may set up appropriate monitoring mechanism at State Level:	22.01.2020	Govt. of Punjab had set up Directorate of Environment & Climate Change within the Department of Science, Technology &

	<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. 	22.01.2020	Environment to coordinate implementation of Environment Protection Action Plans and compliance of NGT orders
	<ul style="list-style-type: none"> Monitoring at State Level must take place 	Fortnightly commencing 21.12.2019	<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 held on 14 May, 2020. 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. Tenth Meeting of River Rejuvenation Committee under the Chairmanship of Principal Secretary 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 	Monthly (preferable before 20 th of every month)	Progress Report for the month of May, 2020 submitted to Ministry of Jal Shakti vide email dated 20.06.2020 with copy to CPCB.
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.		<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

<p>(ii)</p>	<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 93 STPs are in operation in the catchment areas of rivers Sutlej (52), Beas (17) and Ghaggar (24). • The % age Non- compliance of STPs (as per number of STPs) reduced from 32 % during F.Y. 2019-20 to 30% in the first quarter of F.Y. 2020-21. • The %age Non- compliance of STPs (as per capacity) reduced from 58% in March, 19 to 48 % in the first quarter of F.Y. 2020-21. • 78% of sewerage network is in place in the State. • 88 new STPs including rehabilitation/up-gradation of existing 13 STPs to be setup by 31.12.23. • Quantity of sewage generated from the ULB/town falling in the catchment area of river has been estimated 1935 MLD. Out of which, 1303 MLD (67.3%) being treated.
<p>(iii)</p>	<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 could not be checked as Leather Complex, Jalandhar 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. • Out of 2 New CETPs for textile dyeing cluster with total capacity of 90 MLD, the work of 40 MLD and 50 MLD capacity CETPs have been completed to the tune of 78% and 60% respectively. The timeline for the completion of both the CETPs is 31.12.2020. The PERT Charts for CETPs are attached at Annexure 2A and 2B. • 509 ETPs are under operation in the catchment area of rivers.

			<ul style="list-style-type: none"> • A total of 171 MLD of industrial effluent is generated, which is treated in captive ETPs installed by the industries. • Approximately 10% of ETPs being monitored every month. • The %age Non-compliance of ETPs (as per number of ETPs) reduced from 38% during F.Y. 2019-20 to 10% during the first quarter of F.Y. 2020-21
(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"> • Out of 4100 TPD MSW generated in the State, 2635 TPD (64.2%) is being processed & 1465 TPD (35.8%) being sent to landfills. • D2D Collection: 97% House Holds covered. • Source Segregation: 74% HHs practicing segregation at source, with proposed target for 100% coverage by 31.03.2021. • 97.91% of Aerobic compost pits for processing of wet waste constructed. All Processing facilities for wet waste to be commissioned by 31.03.2021. • Setting of 2 no. Waste to Energy Plants (2 WTEs) proposed for 100 % processing of waste.
(v)	<p>Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river</p>		<ul style="list-style-type: none"> • The range of water quality of polluted river stretches monitored in the month of May, 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) • Water quality status of some of major drains is attached at Annexure-3.
(vi)	<p>Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste</p>		<ul style="list-style-type: none"> • State has strengthened Door to Door collection system by achieving 97% D2D collection in all ULBs to restrain open dumping of waste.

	<p>processing, including waste generated from hotels, ashrams, etc.</p>	<ul style="list-style-type: none"> • 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 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. • Adopted decentralized model for processing of wet waste to minimize environmental impacts entailed with its transportation.
(vii)	<p>Ground water regulation</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. • 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

			<ul style="list-style-type: none"> 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		<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 order dated 9.8.2017 in O.A. No. 498 of 2015 in the matter of "Pushp Saini Vs MoEF&CC Gol. As per Department of Water Resources, there is no regulation point in the State for Ghaggar, which is not a perennial river.
(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.
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Details of the new STPs to be setup in the catchment areas of rivers

Sr. No.	River	Distt.	ULB	Location of STP	Deptt.	Cap. (MLD)	Completion date of STP
1	Sutlej	Ludhiana	Ludhiana	Jamalpur	MCL	225	30.04.23
2	Sutlej	Ludhiana	Ludhiana	Baloke	MCL	50	30.04.23
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

Sr. No.	River	Distt.	ULB	Location of STP	Deptt.	Cap. (MLD)	Completion date of STP
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	4.0	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	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	DWSS	1.3	31.12.20
43	Beas	Kapurthala	Kapurthala	Rawal & Colonies	PWSSB	3	30.06.22
44	Beas			FP, Pathankot	PSIEC	2	30.09.21
45	Beas			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

Sr. No.	River	Distt.	ULB	Location of STP	Deptt.	Cap. (MLD)	Completion date of STP
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		Bahadurgarh	Bahadurgarh	DWSS	4	30.09.21
75	Ghaggar			Patiala	MES	6	31.01.20

Details of Existing STPs under Rehabilitation / Up-gradation

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

Annexure- 2A & 2B

The Pert Charts indicating timelines for setting up of 40 MLD & 50 MLD CETPs at Ludhiana are attached as separate files.

Table 1 - Details of drains contributing to pollution in River Sutlej

Sr. No.	River Stretch:(Roop Nagar to Harike Bridge)			Priority : I	
	Drain	Type Domestic/ industrial/ mixed	Apprx Quantity (MLD)	Avg BOD (mg/l)	Avg FC (MPN/100ml)
1	Theing Drain	Mixed	3	42	376889
2	Budha Nallah	Mixed	650	170	1684444
3	East Bein	Mixed	350	61	150625

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

Table 2 - Details of drains contributing to pollution in River Ghaggar

Sr. No.	River Stretch :(Mubarakpur to Sardulgarh)			Priority: I	
	Drain	Type Domestic / industrial / mixed	Quantity (MLD)	Avg BOD (mg/l)	Avg FC (MPN/100ml)
1	Sukhna Choe	Drain originate from Chandigarh (UT)	1.23	62.7	84755
2	Dera Bassi 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	Jhambowali choe	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 3 - Details of drains contributing to pollution in River Beas

Sr. No.	River Stretch: (Along Mukerian)			Priority: V	
	Drain	Type Domestic/ industrial/ mixed	Apprx Quantity (MLD)	Avg. BOD (mg/l)	Avg. FC (MPN/100ml)
1	Swan Khadh	Mixed	2	3.1	261
2	ChakPhandian Drain	Domestic	12.2	2.7	230
3	Bhangala Drain	Domestic	2	3.9	244
4	Gazi Drain	Domestic	1	3.8	735
5	Nikas Mansar Drain	Domestic	2.5	21.1	4500
6	Tanda Ram Sahai Drain	Domestic	4	16.0	3300
7	River Chakki	Domestic	20	1.9	597

Table 4 – Details of drains contributing to river Beas

Sr. No.	River Stretch: (Sultanpur Lodhi to Confluence point to Beas)			Priority: IV	
	Drain	Type Domestic/ industrial/ mixed	Apprx Quantity (MLD)	Avg. BOD (mg/l)	Avg FC (MPN/100ml)
1	Wadala Drain	Mixed	25	6	220
2	Bhulana Drain	Domestic	6	4.0	250
3	Khane & Khane Extension Drain	Domestic	0.5	2	220
4	Sultanpur Drain	Domestic	3	5.0	250

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

LARSEN& TOUBRO LTD
40 MLD CETP FOR PDA LUDHIANA
REVISED CONSTRUCTION SCHEDULE

Designing, Providing, Constructing, Erecting and Commissioning of 40 MLD Avg. Capacity CETP based on Sequential Batch Reactor (SBR) Technology on Turnkey Basis Including O&M for 10 years.

SI No.	TASK	Plan/Actual (P/A)	Start	Finish	Duration (Days)	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Remarks
						M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15	M16	M17	M18	M19	M20	M21	M22	M23	
Major Works																													
Project Summary			1-Feb-19	31-Dec-20	700.00																								
Procurement																													
1	Electromechanical Items	P	1-Oct-19	30-Sep-20	366.00																								
2	Electrical Items	P	1-Sep-19	30-Jun-20	304.00																								
3	Instrumentation Items	P	1-Sep-19	31-Jul-20	335.00																								
4	Cement	P	1-Feb-19	31-May-20	486.00																								
5	Reinforcement Steel	P	1-Feb-19	31-May-20	486.00																								
6	RMC	P	1-Mar-19	31-Aug-20	550.00																								
Execution																													
7	Admin Building	P	25-Aug-19	31-Mar-20	220.00																								
8	Biological Sludge Thickener & Sump	P	26-Sep-19	30-Jun-20	279.00																								
9	Chemical House	P	1-Sep-19	31-Aug-20	366.00																								
10	Chemical Sludge Sump & Feed Pump house	P	1-Sep-19	31-Jul-20	335.00																								
11	Chlorination Building	P	5-Apr-19	15-Oct-19	194.00																								
12	Chlorine Contact Tank & Inlet Channel to CCT	P	15-May-19	30-Sep-19	139.00																								
13	Dewatering Unit Building	P	1-Jun-19	31-Oct-19	153.00																								
14	Equalization Tank & Pump Shed	P	1-Aug-19	30-Sep-19	61.00																								
15	Grit Chamber including Inlet Chamber, Fine	P	5-Apr-19	30-Sep-19	179.00																								
16	HT Substation and DG Room	P	15-Jun-19	31-May-20	352.00																								
17	pH Correction Tank - 1	P	20-May-19	30-Sep-19	134.00																								
18	pH Correction Tank - 2	P	15-Sep-19	31-Jul-20	321.00																								
19	Raw Effluent Sump & Pump House	P	15-Sep-19	30-Nov-19	77.00																								
20	Receiving Chamber	P	5-Apr-19	31-May-19	57.00																								
21	SBR Basin (FineScreen, Outlet chamber all)	P	5-Apr-19	31-Aug-19	149.00																								
22	Security Cabin	P	15-Jun-19	31-Jul-19	47.00																								
23	Sludge Storage Area	P	1-Jun-19	31-Jul-20	427.00																								
24	Sludge Blanket Clarifier	P	5-Apr-19	30-Jun-20	453.00																								
25	General Civil Work and other balance Work	P	15-Jun-19	31-Oct-20	505.00																								
26	Installation & erection of Electrical, Mechanical, Instrumentation equipment	P	1-Aug-19	31-Oct-20	458.00																								
27	Trial Run & Commissioning	P	1-Nov-20	31-Dec-20																									
28	Closing	P	1-Dec-20	31-Dec-20																									

- Progress plan Civil works
- Critical work - Mechanical erection
- Highlighted structures civil works are completed.
- Dead line

1.) It is known that we are already facing immense difficulty in completing the inspection and transit of the materials due to the COVID 19 lockdown . With that being said ,The above mentioned schedule can be fulfilled only if there proper transportation resumption from abroad and within india for the supply materials.

2.) Also, the schedule can be adhered only if there is timely clearnace of the RA bills that is being submitted.Delay caused in clearance shall be affecting the progress adversely.

Task Name	Scheduled Start	Scheduled Finish as per 30-06-2020	Schedule as per Target date 31.12.2020	Actual												Original												Estimated												Remarks					
				Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20		Mar-20	Apr-20	May-20	Jun-20	Jul-20
50 MLD CETP	19/Feb/2019	6/Oct/2021																																						Remarks					
Zero Date	19/Feb/2019	19/Feb/2019																																											
Engineering	10/Apr/2019	4/Jan/2140																																											
Detailed Engineering Submission	10/Apr/2019	9/Nov/2139	30-Jul-20	[Progress bars for Engineering tasks]																																									
Engineering approval	10/May/2019	4/Jan/2140	25-Aug-20	[Progress bars for Engineering tasks]																																									
Procurement	5/Apr/2019	23/Sep/2140	30-Aug-20	[Progress bars for Procurement tasks]																																									
Mechanical	5/Apr/2019	23/Sep/2140	15-Sep-20	[Progress bars for Mechanical tasks]																																									
Valves	15/Jul/2019	15/Mar/2140	30-Aug-20	[Progress bars for Mechanical tasks]																																									
Blowers	23/May/2019	12/Oct/2139	20-May-20	[Progress bars for Mechanical tasks]																																									
Pumps	16/May/2019	31/Jan/2140	15-Sep-20	[Progress bars for Mechanical tasks]																																									
Mixers/ Agtators	7/May/2019	27/Jan/2140	20-Sep-20	[Progress bars for Mechanical tasks]																																									
Valves	4/May/2019	3/Feb/2140	30-Sep-20	[Progress bars for Mechanical tasks]																																									
Belt filter press	16/Apr/2019	12/Dec/2139	26-Aug-20	[Progress bars for Mechanical tasks]																																									
Clarifloculators	20/Apr/2019	20/Apr/2019		[Progress bars for Mechanical tasks]																																									
Sludge Thickener	12/Apr/2019	12/Apr/2019		[Progress bars for Mechanical tasks]																																									
Manual Screens	5/Apr/2019	5/Apr/2019		[Progress bars for Mechanical tasks]																																									
Grit Collector	25/Apr/2019	25/Apr/2019		[Progress bars for Mechanical tasks]																																									
Coarse & Fine Bar screen	21/May/2019	21/May/2019		[Progress bars for Mechanical tasks]																																									
Decanter	14/Jun/2019	14/Jun/2019		[Progress bars for Mechanical tasks]																																									
Diffusers	8/May/2019	8/May/2019		[Progress bars for Mechanical tasks]																																									
Tomrers	24/May/2019	24/May/2019		[Progress bars for Mechanical tasks]																																									
Electrical Hoist	12/Sep/2019	13/May/2140	30-Aug-20	[Progress bars for Mechanical tasks]																																									
Chlorination System	20/Sep/2019	20/Sep/2019		[Progress bars for Mechanical tasks]																																									
Piping	20/Jul/2019	20/Jul/2019		[Progress bars for Mechanical tasks]																																									
Misc. Mechanical Supplies	23/Oct/2019	23/Sep/2140	30-Nov-20	[Progress bars for Mechanical tasks]																																									
Electrical	11/Jun/2019	1/Sep/2140		[Progress bars for Electrical tasks]																																									
Transformers	11/Jun/2019	11/Jun/2019		[Progress bars for Electrical tasks]																																									
DG Set	29/Jun/2019	29/Jun/2019		[Progress bars for Electrical tasks]																																									
LT Panel System	15/Oct/2019	15/Oct/2019		[Progress bars for Electrical tasks]																																									
Power & Control cables	23/Aug/2019	23/Aug/2019		[Progress bars for Electrical tasks]																																									
Motors	27/Jul/2019	17/Mar/2140	20-Aug-20	[Progress bars for Electrical tasks]																																									
Bus Duct	15/Oct/2019	18/Jun/2140	02-Sep-20	[Progress bars for Electrical tasks]																																									
Earthing & Lighting System	17/Aug/2019	17/Aug/2019		[Progress bars for Electrical tasks]																																									
Misc. Electrical Supplies	21/Dec/2019	1/Sep/2140	10-Sep-20	[Progress bars for Electrical tasks]																																									
Instrumentation	3/Aug/2019	3/Aug/2019		[Progress bars for Instrumentation tasks]																																									
Construction	19/Feb/2019	10/Jul/2140		[Progress bars for Construction tasks]																																									
Site Mobilization	19/Feb/2019	19/Feb/2019		[Progress bars for Construction tasks]																																									
Wet well & inlet chamber	15/May/2019	15/May/2019		[Progress bars for Construction tasks]																																									
Inlet Structures & Grit Chamber	15/May/2019	31/Dec/2139	16-Aug-20	[Progress bars for Construction tasks]																																									
Parshall flume	14/Dec/2019	10/Jul/2140	26-Jul-20	[Progress bars for Construction tasks]																																									
Equalization tanks & Distribution chamber	20/Feb/2019	11/Sep/2139	20-Jul-20	[Progress bars for Construction tasks]																																									
SBR & Distribution chambers	15/Apr/2019	14/Nov/2139	30-Jul-20	[Progress bars for Construction tasks]																																									
Clarifloculators	11/Mar/2019	11/Mar/2019		[Progress bars for Construction tasks]																																									
Flash Mixer	15/Mar/2019	15/Mar/2019		[Progress bars for Construction tasks]																																									
CCT	1/May/2019	1/May/2019		[Progress bars for Construction tasks]																																									
BFP Building	25/May/2019	27/Dec/2139	02-Aug-20	[Progress bars for Construction tasks]																																									
Excess Sludge Sump	8/Jun/2019	18/Jan/2140	10-Aug-20	[Progress bars for Construction tasks]																																									
Electrical Substation Building	15/Oct/2019	10/Jun/2140	25-Aug-20	[Progress bars for Construction tasks]																																									
Chemical House	1/Mar/2019	1/Mar/2019		[Progress bars for Construction tasks]																																									
Chlorination building	15/Oct/2019	15/Jun/2140	30-Aug-20	[Progress bars for Construction tasks]																																									
Admin Building	22/May/2019	12/Mar/2140	20-Oct-20	[Progress bars for Construction tasks]																																									
Air Blower Building	20/May/2019	8/Jan/2140	19-Aug-20	[Progress bars for Construction tasks]																																									
Dilution & Supernant Sump	13/Nov/2019	7/Jul/2140	23-Aug-20	[Progress bars for Construction tasks]																																									
Sludge Thickener	15/May/2019	15/May/2019		[Progress bars for Construction tasks]																																									
Plant Road Construction	15/Feb/2020	16/Dec/2140	30-Oct-20	[Progress bars for Construction tasks]																																									
Plant & Landscage	15/Feb/2020	15/Feb/2020		[Progress bars for Construction tasks]																																									
Erection & Commissioning				[Progress bars for Erection & Commissioning tasks]																																									
Equipment Erection	13/Nov/2019	4/Oct/2140	20-Nov-20	[Progress bars for Erection & Commissioning tasks]																																									
Commissioning, Trial Run & Handover	5/Oct/2140	6/Oct/2261	30-Dec-20	[Progress bars for Erection & Commissioning tasks]																																									

CPC valves

mechanical

Approval awaited from Client