

**National Mission for Clean Ganga (NMCG)
Ministry of Jal Shakti,
River Development & Ganga Rejuvenation
Government of India**

**Development and Rehabilitation of Sewage Treatment
Plants and Associated Infrastructure Under Hybrid
Annuity Based PPP Mode at Prayagraj, Uttar Pradesh**

(LOA File Number: 50123/447/121, dated 10/11/2018)

**Monthly Progress Report
of
Project Engineer
August 2021**



Executing Agency

GPCU, Uttar Pradesh Jal
Nigam, Prayagraj, Uttar
Pradesh
211008



Funding Agency

National Mission for Clean
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Resources, New Delhi 110002



Project Engineer

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Concessionaire

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Table of Contents

1. Introduction	2
2. Hybrid Annuity Model (HAM)	2
3. Objectives.....	3
4. Project at Glance.....	5
5. Site Location	6
6. Project Components.....	7
7. Status of project.....	10
7.1 Package-I status	10
7.1.1. Engineering status.....	10
7.1.2 Procurement & Supply status	10
7.1.3 Construction, Erection & Commissioning status.....	11
7.1.4 Overall Package-I Progress:	12
7.1.5 Physical Activities in August month.....	13
7.1.6 Physical Activities as per Construction plan:	14
7.2 Package-II status.....	24
7.2.1. Engineering status.....	24
7.2.2 Procurement & Supply status	24
7.2.3 Construction, Erection & Commissioning status.....	25
7.2.4 Overall Package-II Progress	26
7.2.5 Rehabilitation status till August month.....	27
7.2.6 Physical Activities status as per Rehabilitation plan:	48
7.3 Package-III status	49
8. Meetings, Discussions and Site Visits:	50
9. Staff deployment	51
10. Photos of Meetings / Site Visits and Activities	52
11. Outward Register	64
12. Inward Register.....	70
13. EHS targets, Achievement & compliance report for the month of August' 2021	72
14. Status of statutory permits:.....	72
15. Plant & Machinery Status	77
16. Operation and Maintenance report for August month –.....	78

1. Introduction

The GoI (Government of India), recognizing that the long-term rejuvenation of the river Ganga will have significant social and economic benefits on the lives of 500 Million people living along its basin, has identified cleaning of the river Ganga as one of its priorities. For this purpose, in May-2015, The Government of India approved the flagship Namami Gange Program for cleaning rejuvenation and protection of river Ganga and its tributaries. In January-2016, The Government of India approved a Hybrid annuity model to implement the STP project under the Namami Gange program on a PPP basis. Subsequently, the MoWR (Ministry of Water Resources) issued the river Ganga (Rejuvenation, Protection and Management) Authorities Order, 2016 (Ganga 2016 Order) to constitute various authorities to assist the Government of India in achieving its aim of effective abatement of pollution in the river Ganga. The Ganga 2016 order designated NMCG as the nodal agency for implementation of the Ganga 2016 order.

Rapidly increasing population, rising standards of living and exponential growth of industrialization and urbanisation have exposed water resources, in general, and rivers to various forms of degradation. The mighty Ganga is no exception. The deterioration in the water quality impacts the people immediately. Ganga, in some stretches, particularly during lean seasons has become unfit even for bathing. The threat of global climate change, the effect of glacial melt on Ganga flow and the impacts of infrastructural projects in the upper reaches of the river, raise issues that need a comprehensive response.

In the Ganga basin approximately 12,000 million litres per day (MLD) sewage is generated, for which presently there is a treatment capacity of only around 4,000 MLD. Approximately 3000 MLD of sewage is discharged into the mainstream of the river Ganga from the Class I & II towns located along the banks, against which treatment capacity of about 1000 MLD has been created till date.

The Uttar Pradesh Jal Nigam (Jal Nigam) is a statutory body constituted under the Uttar Pradesh Water Supply and Sewerage Act, 1975, and has the power to develop, maintain and regulate water supply and sewerage works in Uttar Pradesh. With a view to implement the Namami Gange programme and the Ganga 2016 Order, the Jal Nigam, in association with the NMCG, has decided to undertake the Project;

- Development and Rehabilitation of Sewage Treatment Plants (STPs) and Associated Infrastructure at Prayagraj under Hybrid Annuity based PPP mode in State of Uttar Pradesh.

While the Jal Nigam will be the principal executing agency and bidding authority for the Project, NMCG will be responsible for making payments to the Concessionaire and Project Engineer.

2. Hybrid Annuity Model (HAM)

Government of India has approved the Namami Gange program as an integrated approach for effective abatement of pollution in river Ganga and Yamuna. As part of this and to ensure that no untreated domestic sewage flow into the river Ganga and Yamuna, various interventions are planned such as Interception & Diversion works and development & operation of Sewage Treatment Plants (STPs).

Considering various development models in practice for the construction, operation and maintenance of Sewage Treatment Plants, Government of India has approved the Hybrid Annuity based Public Private Partnership (PPP) mode as one of the options for the development & operation of STPs. Under

this model, private investor/developer will design, build, finance, construct, rehabilitate, renovate, operate and maintain the asset (STPs, IPS, and MPS) to the Project Executing Agency/Jal Nigam at the end of the Concession Period (15 years). 40% of the Capital cost will be paid to the developer during construction of the STP. Balance 60% along with Operation & Maintenance (O&M) cost will be paid over the Concession Period on achievement of key performance indicators as per the contract. Entire cost of development and operation of the STPs will be 100% funded by the Government of India as central sector scheme.

National Mission for Clean Ganga (NMCG) and Uttar Pradesh Jal Nigam (UPJN) appointed M/s. AECOM India Pvt. Ltd., as Project Engineer for this project through tendering process. Letter of Award is issued dated 4th February 2019 and agreement signed between the parties on 5th April 2019.

3. Objectives

Objectives to achieve effective Development of Sewage Treatment Plants (STPs) at Jhunsi, Naini and Phaphamau, rehabilitation of existing STPs & associated Infrastructure and operation and maintenance of all assets for 15 years in Prayagraj, Uttar Pradesh, under Hybrid Annuity based PPP mode are proposed under this project.

The objectives that NMCG and the UP Jal Nigam wish to achieve through the Project is mentioned in **Figure 1**;

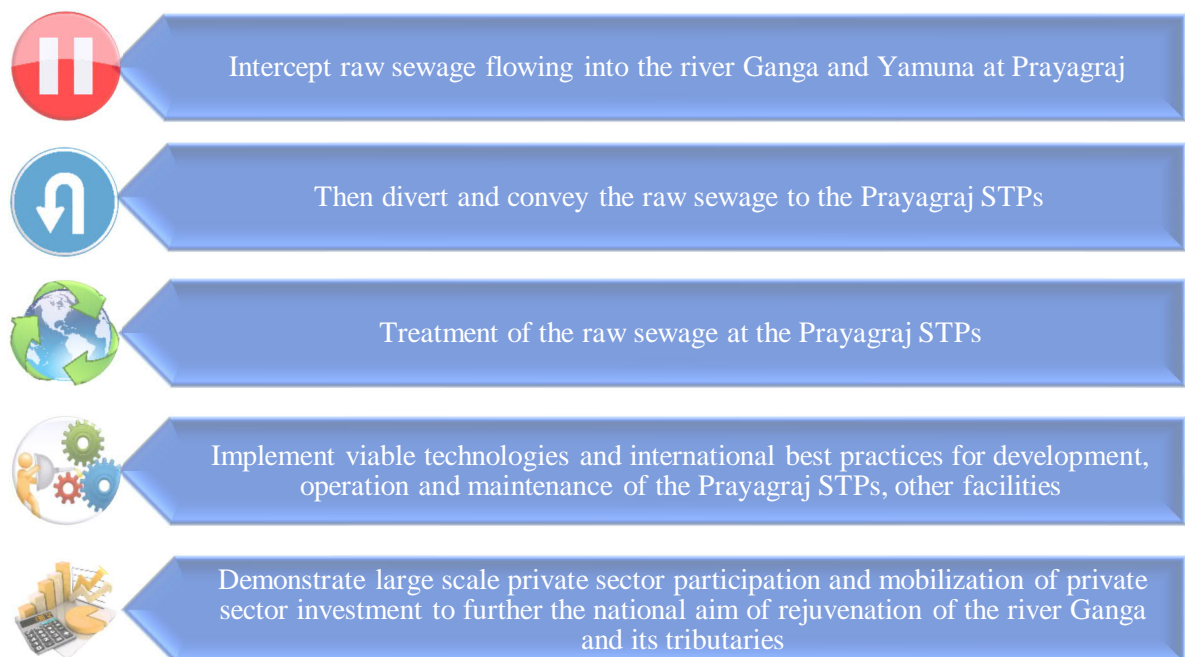


Figure 1 : Objectives of NMCG and UP JAL NIGAM

Government of India has approved the Namami Gange program as an integrated approach for effective abatement of pollution in river Ganga and Yamuna. As part of this and to ensure that no untreated domestic sewage flow into the river Ganga and Yamuna, various interventions are planned such as Interception & Diversion works and development & operation of Sewage Treatment Plants (STPs). Considering various development models in practice for the construction, operation and maintenance

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4. Project at Glance

The Project components details of each Facility, their grouping in each Package is presented below;

Sr. No.	Particulars	Description
1.0	Name of Project	Development and Rehabilitation of Sewage Treatment Plants and Associated Infrastructure under HAM based PPP mode at Prayagraj, Uttar Pradesh
	Client	National Mission for Clean Ganga (NMCG) and Uttar Pradesh Jal Nigam (UPJN)
2.0	Executing Agency	Uttar Pradesh Jal Nigam, Ganga Pollution Control Unit, Prayagraj, Uttar Pradesh
3.0	Project Engineer	AECOM India Pvt. Ltd.
4.0	Concessionaire	Prayagraj Water Pvt. Ltd. (SPV of ADANI Enterprise Ltd. JV Organica Technologiak ZRT)
5.0	Contract Value (Capex + Opex)	INR 908.3 Crore
6.0	Effective Date	16 th September 2019
7.0	Construction Completion Date	Package-I; 24 months from effective date Package-II; 12 months from effective date Package-III; 6 months from effective date
6.0	Operation & Maintenance	Package-I; 15 years from commercial operation date Package-II; 16 years from commercial operation date Package-III; 16.5 years from commercial operation date

5. Site Location



Entire work has been divided/ distributed in the following 3 packages.

- Package-I: Construction of 03 Nos. new STP's with Associated Infrastructure (Naini-II (42 MLD), Jhusi (16 MLD) & Phaphamau (14 MLD)). Setup rooftop Solar Power Plant of capacity 930kW (110kW at Phaphamau, 800kW at Naini-II and 20kW at Jhusi).
- Package II: Rehabilitate and Restore 02 Nos. STP's with Associated Infrastructure (Rajapur (60 MLD) & Naini-I (60+20 MLD)).
- Package III: Rehabilitate and Restore 04 Nos. STP's with Associated Infrastructure Numayadahi (50 MLD), Ponghat (10 MLD), Kodra (25 MLD) & Salori (29 MLD).

6. Project Components

The Project components details of each Facility, their grouping in each Package is presented below

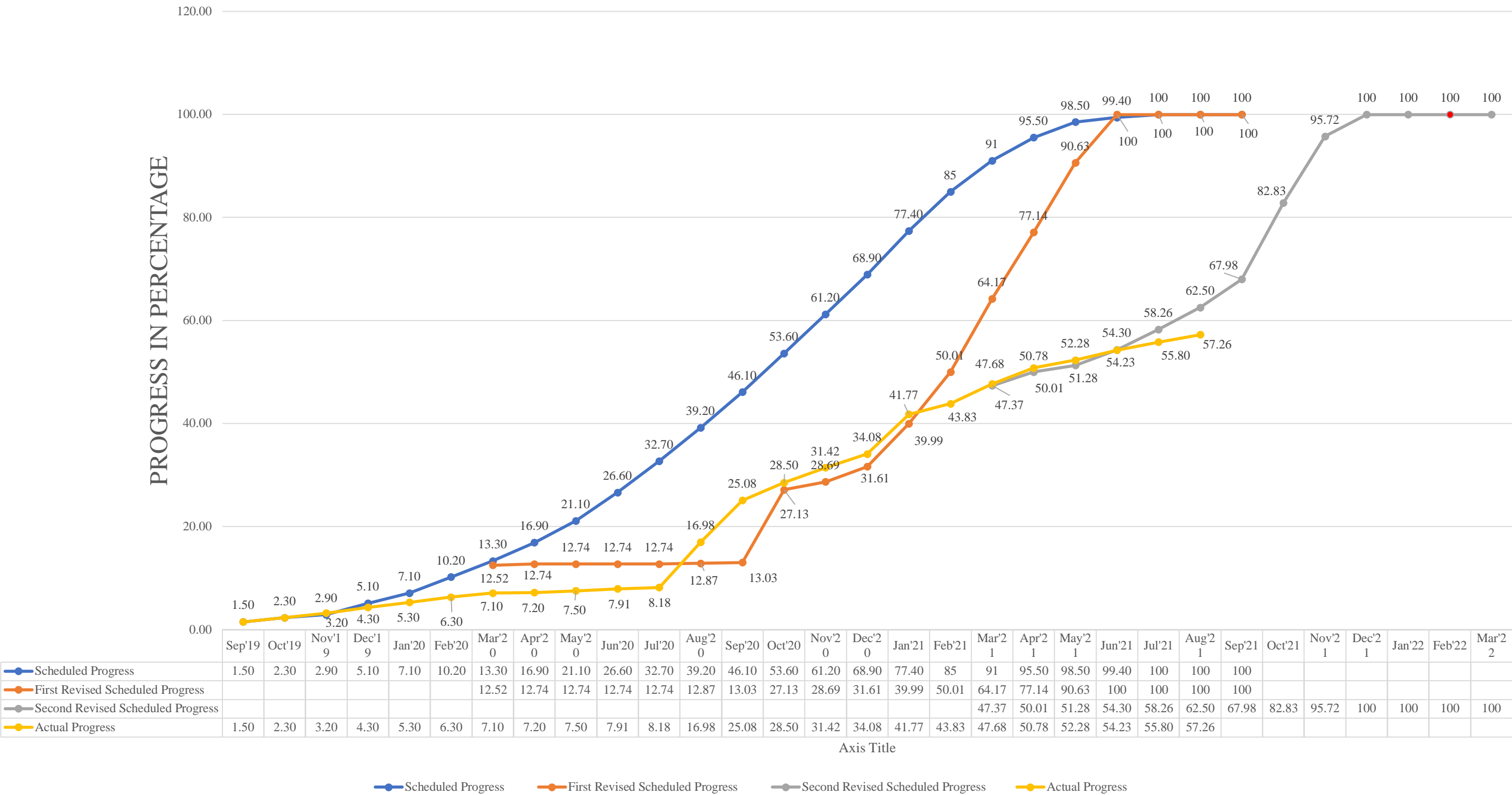
Package Number - I				
Nature of work		Facilities		
New construction		Design, develop, finance, construct, operate and maintain, and transfer the Package-I Facilities including three STP facilities with a proposed capacity of 42 MLD at Naini (District G), 14 MLD at Phaphamau (District F), and 16 MLD at Jhunsi along with their Associated Infrastructure, as per the provisions of the Concession Agreement, and in adherence to the applicable Key Performance Indicators		
Sr. No.	Facility Name	Part Of	Details	Capacity (Average)
1	Phaphamau Facilities (District -F)	Phaphamau STP Facilities	Phaphamau STP Plant	14 MLD
			Solar Power Plant	110 Kw
		Phaphamau Associated Infrastructure	Basna Nalla SPS	5.53 MLD
			Nalla Tapping and Trunk Sewer	2 Nos. Tapping
			Shantipuram Main Pumping Station	14 MLD
2	Naini Facilities (District - G)	Naini – II STP Facilities	Naini –II STP	42 MLD
			Solar Power Plant	800 Kw
		Naini -II Associated Infrastructure	Mawaiya Drain SPS	35.85 MLD
			Mawaiya Drain Tapping and Trunk Sewer	3 Nos. Tapping
			Mahewaghat Drain SPS	2.15 MLD
			Mahewaghat Drain and Trunk Sewer	3 Nos. Of Tapping
			Main Pumping Station	43.5 MLD
3	Jhunsi Facilities	Jhunsi STP Facilities	Jhunsi STP	16 MLD
			Solar Power Plant	20 Kw
		Jhunsi Associated Infrastructure	Shastri Bridge SPS	16 MLD
			Nalla Tapping and Trunk Sewer	13 Nos. Tapping
			Main Pumping Station	16 MLD

Package Number - II				
Nature of work		Facilities		
Rehabilitation		Design (wherever necessary), rehabilitate, restore, finance, operate and transfer two existing STP Facilities, one of capacity 80 MLD at Naini (District A) and other of capacity 60 MLD at Rajapur (District D) along with their Associated Infrastructure as per the provisions of the Concession Agreement, and in adherence to the applicable Key Performance Indicators.		
Sr. No.	Facility Name	Part Of	Details	Capacity (Average)
1	Naini -I Facilities (District A)	Naini-I STP Facilities	Naini -I STP (60 MLD) STP Technology: ASP	60 MLD
			Naini -I STP (20 MLD) STP Technology: ASP	20 MLD
			Naini- I Biogas Plant	600 KW
		Naini-I Associated Infrastructure	Chachar Nalla SPS	35 MLD with 2 Nos. Tapping
			Gaughat MPS	80 MLD
2	Rajapur Facilities (District D)	Rajapur STP Facilities	Rajapur STP STP Technology: UASB	60 MLD
		Rajapur Associated Infrastructure	Mumfordgunj SPS	55 MLD with 1 Nos. Tapping
			Rajapur SPS	25 MLD with 1 Nos. Tapping

Package Number - III				
Nature of work		Facilities		
Rehabilitation		Design (wherever necessary), rehabilitate, restore, finance, operate and transfer four existing STP Facilities, one of capacity 50 MLD at Numayadahi (District B), one of capacity 29 MLD at Salori (District C), one of capacity 25 MLD at Kodra (District E) and another of capacity 10 MLD at Ponghat (District E), along with their Associated Infrastructure, as per the provisions of the Concession Agreement, and in adherence to the applicable Key Performance Indicators.		
Sr. No.	Facility Name	Part Of	Details	Capacity (Average)
1	Salori Facilities (District - C)	Salori STP Facilities	Salori STP (29 MLD) STP Technology: FAB	29 MLD
		Salori Associated Infrastructure	Salori MPS	29 MLD with 1 Nos. Tapping
2	Numayadahi Facilities (District B)	Numayadahi STP Facilities	Numayadahi STP STP Technology: Bio tower + ASP	50 MLD
		Numayadahi Associated Infrastructure	Ghaggar Nalla SPS	50 MLD with 1 Nos. Tapping
			Sasur Kadheri SPS	15 MLD with 1 Nos. Tapping
			Lukarganj SPS	16.5 MLD with 1 Nos. Tapping
3	Kodra Facilities (District E)	Kodra STP Facilities	Kodra STP STP Technology: Bio tower + ASP	25 MLD
		Kodra Associated Infrastructure	Kodra MPS	25 MLD with 1 Nos. Tapping
4	Ponghat Facilities (District E)	Ponghat STP Facilities	Ponghat STP STP Technology: Bio tower + ASP	10 MLD
		Ponghat Associated Infrastructure	Ponghat MPS	10 MLD with 1 Nos. Tapping

7.1.4 Overall Package-I Progress:

SCHEDULED Vs ACTUAL PROGRESS CHART OF PACKAGE - I



- Project Engineer has provided observation on Concessionaire Augsut'21 month MPR vide letter number AIPL/NMCG/PRAYAG/1170 on dated 15.09.2021 Therefore, status may be change after observation incorporated by Concessionaire.

7.1.5 Physical Activities in August month

NEW CONSTRUCTION			
S. No.	Structure Description	Structure Qty.	Status
PACKAGE – I			
PHAPHAMAU STP			
1.	FCR tank	01 No.	<ul style="list-style-type: none"> Laundry Slab & wall Completed. Shuttering work for final lift is under progress
2.	Staff Quarter	01 Nos	<ul style="list-style-type: none"> RCC of roof slab completed. Brick work under progress.
3.	MPS	01 No.	<ul style="list-style-type: none"> No Work
4.	Tube Settler	01 No.	<ul style="list-style-type: none"> No Work
5.	Process Building	01 No	<ul style="list-style-type: none"> RCC of Raft Completed. Column casting work under progress.
6.	Basna Nalla SPS	01 No.	<ul style="list-style-type: none"> No work
NAINI – II STP			
7.	FCR tank	01 No.	<ul style="list-style-type: none"> FCR Tank-A – Wall Casting Completed up to Tie Beam bottom, Tank B –Wall Casting Completed up to Tie Beam bottom.
8.	Tube Settler	01 No.	<ul style="list-style-type: none"> 2nd lift wall casting completed in CCT area- Tank A 1st Lift wall Casting Completed in Sludge Storage – Tank A 2nd lift wall casting completed in Tube settler Tank –B
9.	Staff Quarter	01 No.	<ul style="list-style-type: none"> Brick works under progress.
10.	MPS	01 No.	<ul style="list-style-type: none"> 3rd lift wall casting is completed
11.	Process Building	01 No	<ul style="list-style-type: none"> 100% raft casting completed
12.	Mahewaghat SPS	01 No.	<ul style="list-style-type: none"> No Work
13.	Mawaiya Nalla SPS	01 No.	<ul style="list-style-type: none"> No Work
14.	Boundary Wall	01 No.	<ul style="list-style-type: none"> No work
15.	DI Pipeline from Mahewaghat to Naini-II (300mm Dia.)	700 Rmt.	<ul style="list-style-type: none"> No work

16.	DI Pipeline from Mawaiya Nalla to Naini-II (800mm Dia.)	700 Rmt.	<ul style="list-style-type: none"> No work
17.	RCC 600 dia. From Mahewaghat to Naini-II	4490 RMT	<ul style="list-style-type: none"> 472 m Laying in this Month. Total 3185 Completed till date.
18.	RCC 1400 dia. From Mahewaghat to Naini-II	3050 RMT	<ul style="list-style-type: none"> 2488 m Laying work completed, No Work in this Month
19.	RCC 1600 mm Dia	880 RMT	<ul style="list-style-type: none"> 627 m Laying work completed, No work in this Month.
JHUNSI STP			
20.	FCR tank	01 No.	<ul style="list-style-type: none"> 100 % RCC work completed.
21.	Process Building	01 No	<ul style="list-style-type: none"> RCC work of Column up to tie Beam is completed. Soil filling and compaction below tie Beam is under Progress
22.	Tube Settler	01 No.	<ul style="list-style-type: none"> Reinforcement & Shuttering of 3rd lift is under progress.
23.	MPS	01 No.	<ul style="list-style-type: none"> Excavation for MPS is Under Progress
24.	Security Cabin	01 No.	<ul style="list-style-type: none"> No work
25.	Staff Quarter	01 No.	<ul style="list-style-type: none"> Brick work is under progress.

7.1.6 Physical Activities as per Construction plan:

Sr. No.	Work description	Scheduled Start Date	Scheduled End Date	Schedule d Completion (In %)	Completi on up to previous month (In %) (A)	This month Completi on (In%) (B)	Total Completio n (In %) (A+B)
Erection Commissioning, Trial Run and COD of Phaphamau STP (14 MLD) & Associated works							
1.	Tree cutting work	01-01-20	31-01-20	100	100	0	100
2.	Dismantling of existing structure	01-01-20	31-01-20	100	100	0	100
3.	FCR tank unit	01-12-19	15-10-21				
4.	Excavation work	01-12-19	15-03-20	100	100	0	100
5.	Boulder filling work	15-03-20	10-05-20	100	100	0	100
6.	PCC work	01-10-20	09-10-20	100	100	0	100
7.	RCC upto completion	01-10-20	30-09-21	98	87	3	90
8.	Other Misc Works	09-01-21	30-09-21	100	0	0	0
9.	Hydrotesting	01-10-21	15-10-21	100	0	0	0

Sr. No.	Work description	Scheduled Start Date	Scheduled End Date	Schedule d Completion (In %)	Completi on up to previous month (In %) (A)	This month Completi on (In%) (B)	Total Completio n (In %) (A+B)
10.	Tube settler, CCT & Sludge storage Tank	16-01-21	30-10-21				
11.	Earth work & Boulder filling work	16-01-21	28-02-21	100	100	0	100
12.	PCC work	01-02-21	28-02-21	100	100	0	100
13.	RCC upto completion	01-02-21	15-10-21	65	37	0	37
14.	Other Misc Works	01-10-21	15-10-21				
15.	Hydrotesting	15-10-21	30-10-21				
16.	Main Process Building	01-03-21	15-12-21				
17.	Excavation	01-03-21	03-07-21	100	100	0	100
18.	Rubble soling/ Stone filling work	03-07-21	10-07-21	100	75	0	75
19.	PCC	10-07-21	20-07-21	100	75	0	75
20.	Structure completion (Expect finishing works)	20--07-21	20-10-21	35	0	22.5	22.5
21.	Other Misc Works	15-10-21	15-12-21				
22.	Hydrotesting	21-10-21	31-10-21				
23.	Basana Nala SPS and I&D Works	09-01-21	15-11-21				
24.	Excavation work	09-01-21	15-10-21	100	5	0	5
25.	PCC	16-10-21	20-10-21	100	0	0	0
26.	RCC upto completion	20-10-21	09-11-21	100	0	0	0
27.	Hydrotesting	16-10-21	31-10-21	100	0	0	0
28.	Boundary wall	01-09-21	15-11-21	100	0	0	0
29.	Staff quarter	01-09-21	15-11-21	100	0	0	0
30.	Other Misc Works	01-10-21	15-11-21	100	0	0	0
31.	Shantipuram MPS and I&D Works	01-09-20	30-11-21				
32.	Excavation work	01-11-20	28-03-21	100	100	0	100
33.	PCC	28-03-21	30-03-21	100	100	0	100
34.	RCC work upto completion	01-04-21	15-10-21	65	42	0	42
35.	Other Misc Works	16-09-21	30-11-21	100	0	0	0
36.	Hydrotesting	16-11-21	30-11-21	100	0	0	0
37.	Staff quarter	01-09-20	30-09-21	95	85	05	90
38.	Pipe laying (Rising Main & Gravity Main)	16-10-21	30-11-21				
39.	Rising main	16-10-21	30-11-21				

Sr. No.	Work description	Scheduled Start Date	Scheduled End Date	Schedule d Completion (In %)	Completi on up to previous month (In %) (A)	This month Completi on (In%) (B)	Total Completio n (In %) (A+B)
40.	Excavation, Laying & Jointing, Backfilling/ Restoration works	16-10-21	30-11-21		0	0	0
41.	Hydrotesting	21-11-21	30-11-21		0	0	0
42.	Gravity Main	16-10-21	30-11-21				
43.	Excavation, Laying & Jointing, Backfilling/ Restoration works	16-10-21	20-11-21		0	0	0
44.	Hydrotesting	20-11-21	30-11-21		0	0	
45.	Other works	01-01-20	15-12-21				
46.	Site office (Temporary office)	01-01-20	31-01-20		100	0	100
47.	Other misc works (Boundary Wall, Road, rainwater harvesting, Land scaping etc)	16-11-21	15-12-21		0	0	0
48.	Mechanical Erection- STP unit	16-10-21	15-12-21				
49.	Pumps	01-11-21	15-12-21	0			
50.	Lamella clarifier/ Tube settler	16-10-21	15-12-21	0			
51.	Grit removal system	16-10-21	15-12-21	0			
52.	Blowers & Diffuser	16-10-21	15-12-21	0			
53.	Fire fighting System	16-11-21	15-12-21	0			
54.	Screens	01-11-21	15-12-21	0			
55.	Piping, Valves & Gates	01-11-21	15-12-21	0			
56.	Chlorination	20-10-21	15-12-21	0			
57.	Media Installation/ Bio module	01-11-21	15-12-21	0			
58.	Other misc. work	16-11-21	15-12-21	0			
59.	Mechanical Erection- SPS & MPS	01-11-21	15-12-21				
60.	Pumps	01-11-21	15-12-21	0			
61.	Screens	01-11-21	15-12-21	0			
62.	Piping, Valves & Gates	01-11-21	15-12-21	0			
63.	Other misc. work	16-11-21	15-12-21	0			
64.	Electrical and C&I- STP Unit	16-10-21	15-12-21				
65.	Transformer Installation	01-11-21	15-12-21	0			
66.	HT/LT Panel erection	01-11-21	15-12-21	0			
67.	Instrumentation works	16-10-21	15-12-21	0			

Sr. No.	Work description	Scheduled Start Date	Scheduled End Date	Schedule d Completion (In %)	Completi on up to previous month (In %) (A)	This month Completi on (In%) (B)	Total Completio n (In %) (A+B)
68.	CCTV	16-11-21	15-12-21	0			
69.	Cable Laying	16-10-21	15-12-21	0			
70.	PLC Panel & Online monitoring system	16-10-21	15-12-21	0			
71.	Solar Panel	01-11-21	15-12-21	0			
72.	DG Installation	16-11-21	15-12-21	0			
73.	Other misc. work	16-11-21	15-12-21	0			
74.	Electrical and C&I- SPS & MPS	01-10-21	15-12-21				
75.	Transformer Installation	01-11-21	15-12-21	0			
76.	HT/LT Panel Erection	01-10-21	15-12-21	0			
77.	CABLE LAYING	01-11-21	15-12-21	0			
78.	DG Installation	16-11-21	15-12-21	0			
79.	PLC Panel & Online monitoring system	16-10-21	15-12-21	0			
80.	Other misc. work	16-11-21	15-12-21	0			
81.	Commissioning of Mech., Electrical and C&I	01-12-21	15-12-21	0			
82.	Trial Run, Final Inspection and COD	16-12-21	15-03-22				
83.	Trial Run and Final Inspection	16-12-21	14-03-22	0			
84.	COD	14-03-22	15-03-22	0			
85.	Erection Commissioning, Trial Run and COD of Naini-II (42 MLD) & Associated works						
86.	Removal of shrubs	01-01-20	28-02-20	100	100	0	100
87.	FCR tank unit	01-02-20	30-10-21				
88.	Excavation work	01-02-20	15-03-20	100	100	0	100
89.	Boulder filling work	26-10-20	30-11-20	100	100	0	100
90.	PCC work	01-11-20	30-11-20	100	100	0	100
91.	RCC work upto completion	01-12-20	15-10-21	95	80	10	90
92.	Other Misc Works	01-09-21	30-09-21				
93.	Hydrotesting	15-10-21	30-10-21				
94.	Tube settler, CCT & Sludge storage Tank	16-01-21	31-10-21				
95.	Earth work & Boulder filling work	16-01-21	22-01-21	100	100	0	100
96.	PCC work	19-01-21	31-01-21	100	100	0	100
97.	RCC work upto completion	01-03-21	20-10-21	40	30	5	35

Sr. No.	Work description	Scheduled Start Date	Scheduled End Date	Schedule d Completion (In %)	Completi on up to previous month (In %) (A)	This month Completi on (In%) (B)	Total Completio n (In %) (A+B)
98.	Other Misc Works	16-09-21	31-10-21		0	0	0
99.	Hydrotesting	20-10-21	31-10-21		0	0	0
100.	Main Process Building	01-02-21	28-11-21				
101.	Excavation	01-02-21	31-05-21	100	100	0	100
102.	Rubble soling/ Stone filling work	01-07-21	31-07-21	100	100	0	100
103.	PCC	01-07-21	31-07-21	100	28	72	100
104.	Structure completion (Expect finishing works)	01-05-21	20-10-21	35	0	30	30
105.	Other Misc Works	06-10-21	28-11-21				
106.	Hydrotesting	20-10-21	31-10-21				
107.	Mawaiya SPS and I&D work	01-02-21	15-11-21				
108.	Excavation work	01-02-21	28-02-21	100	100	0	100
109.	PCC	01-05-21	15-06-21	100	100	0	100
110.	RCC WORK upto completion	15-05-21	20-10-21	25		0	
111.	Hydrotesting	20-10-21	31-10-21				
112.	Boundary wall	01-09-21	31-10-21				
113.	Staff quarter	01-09-21	31-10-21				
114.	I&D Other misc works	01-09-21	15-11-21				
115.	Mahewaghat SPS and I&D work	01-01-21	31-10-21				
116.	Excavation work	01-01-21	15-04-21	100	100	0	100
117.	PCC	01-01-21	15-04-21	100	100	0	100
118.	RCC Work upto completion	30-05-21	20-10-21	40	35	0	35
119.	Other finishing work	01-10-21	31-10-21	100	0	0	0
120.	Hydrotesting	20-10-21	31-10-21	100	0	0	0
121.	Boundary wall	01-09-21	31-10-21	100	0	0	0
122.	Staff quarter	01-09-21	31-10-21	100	0	0	0
123.	I&D Other misc works	01-09-21	31-10-21	100	0	0	0
124.	Naini-II MPS and I&D work	26-10-20	15-11-21				
125.	Excavation work	16-01-21	25-04-21	100	100	0	100
126.	PCC	16-01-21	25-04-21	100	100	0	100
127.	RCC Work upto completion	01-05-21	25-10-21	45	30	0	30
128.	Other finishing work	01-09-21	15-11-21	100	0	0	0
129.	Hydrotesting	20-10-21	31-10-21	100	0	0	0

Sr. No.	Work description	Scheduled Start Date	Scheduled End Date	Schedule d Completion (In %)	Completi on up to previous month (In %) (A)	This month Completi on (In%) (B)	Total Completio n (In %) (A+B)
130.	Staff quarter	26-10-20	31-10-21	95	90	0	90
131.	I&D Other misc works	16-10-21	31-10-21	100	0	0	0
132.	Pipe laying (Rising Main & Gravity Main)	16-01-21	31-10-21				
133.	Rising main	16-01-21	30-10-21				
134.	Excavation, Laying & Jointing, Backfilling/ Restoration works	16-01-21	20-09-21	85	90	0	90
135.	Hydrotesting	01-10-21	30-10-21	100	0	0	0
136.	Gravity Main	01-03-21	31-10-21				
137.	Excavation, Laying & Jointing, Backfilling/ Restoration works	01-03-21	21-10-21	65	75	0	75
138.	Hydrotesting	21-10-21	31-10-21				
139.	Other works	01-01-20	15-10-21				
140.	Site office (Temporary office)	01-01-20	31-01-21	100	100	0	100
141.	Other misc works (Boundary Wall, Road, rainwater harvesting, Land scaping etc)	01-03-20	15-10-21	80	75	0	75
142.	Mechanical Erection-STP unit	16-10-21	10-12-21				
143.	Pumps	16-10-21	25-11-21	0			
144.	Lamella clarifier/ Tube settler	16-10-21	29-11-21	0			
145.	Grit removal system	16-10-21	29-11-21	0			
146.	Piping, Valves & Gates	16-10-21	29-11-21	0			
147.	Firefighting System	16-11-21	30-11-21	0			
148.	Chlorination	16-10-21	29-11-21	0			
149.	Blowers & Diffuser	16-10-21	29-11-21	0			
150.	screens	16-10-21	29-11-21	0			
151.	Media Installation/ Bio module	16-10-21	30-11-21	0			
152.	Other misc. work	16-11-21	10-12-21	0			
153.	Mechanical Erection-SPS & MPS	16-10-21	15-12-21				
154.	Pumps	16-10-21	15-12-21	0			
155.	Screens	16-10-21	15-12-21	0			

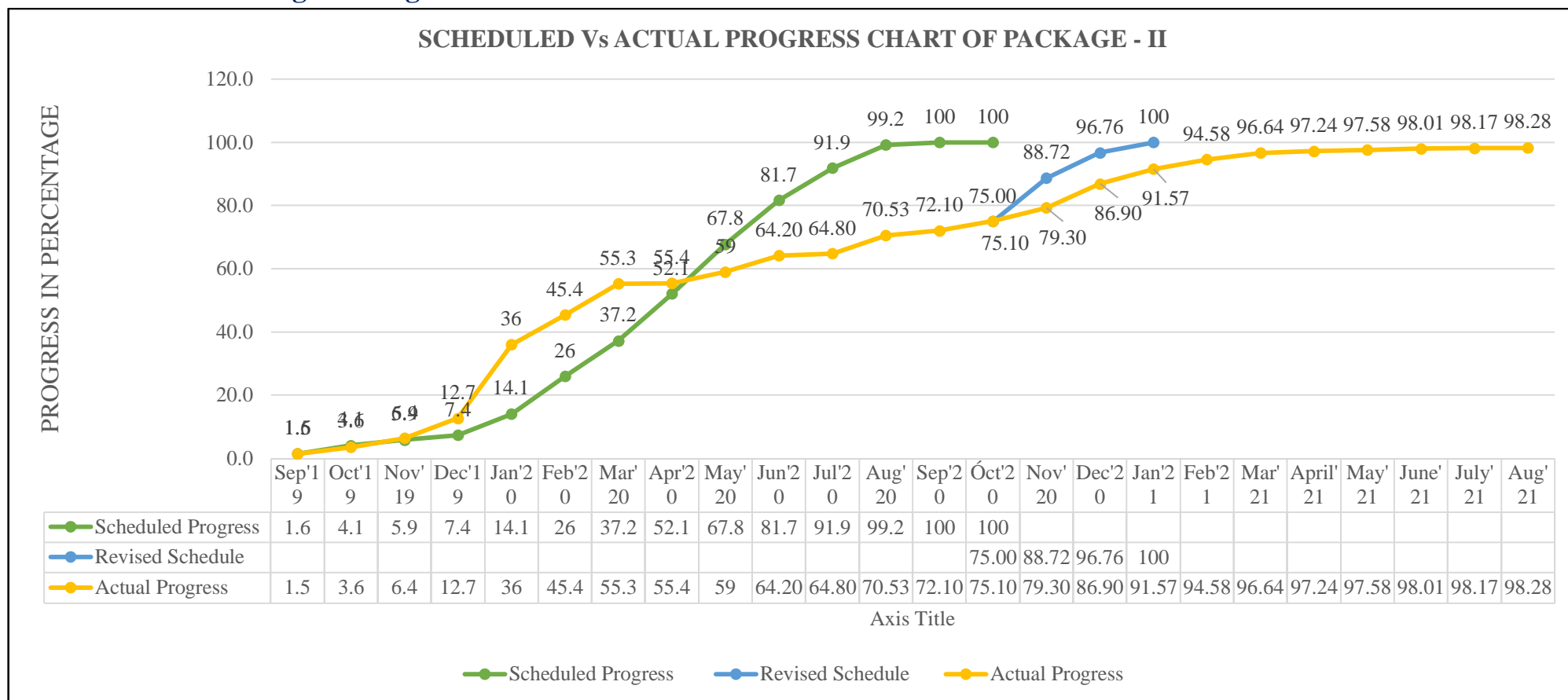
Sr. No.	Work description	Scheduled Start Date	Scheduled End Date	Schedule d Completion (In %)	Completi on up to previous month (In %) (A)	This month Completi on (In%) (B)	Total Completio n (In %) (A+B)
156.	Piping, Valves & Gates	16-10-21	15-12-21	0			
157.	Other misc. work	16-11-21	15-12-21	0			
158.	Electrical and C&I- STP Unit	16-10-21	15-12-21				
159.	Transformer Installation	16-11-21	15-12-21	0			
160.	HT/LT panel erection	01-11-21	15-12-21	0			
161.	PLC Panel & Online monitoring system	16-10-21	15-12-21	0			
162.	Instrumentation works	16-10-21	15-12-21	0			
163.	CCTV	16-11-21	15-12-21	0			
164.	CABLE LAYING	16-10-21	15-12-21	0			
165.	Solar Panel	01-11-21	15-12-21	0			
166.	Other misc. work	01-12-21	15-12-21	0			
167.	Electrical and C&I- SPS & MPS	16-10-21	15-12-21				
168.	Transformer Installation	01-11-21	15-12-21	0			
169.	HT/LT panel erection	16-10-21	15-12-21	0			
170.	CABLE LAYING	16-10-21	15-12-21	0			
171.	DG Installation	16-11-21	15-12-21	0			
172.	PLC Panel & Online monitoring system	16-10-21	15-12-21	0			
173.	Other misc. work	16-11-21	15-12-21	0			
174.	Commissioning of Mech., Electrical and C&I	01-12-21	15-12-21	0			
175.	Trial Run, Final Inspection and COD	16-12-21	15-03-22				
176.	Trial Run and Final Inspection	16-12-21	14-03-22	0			
177.	COD	14-03-22	15-03-22	0			
178.	Erection Commissioning, Trial Run and COD of Jhunsī STP (16 MLD) & Associated works						
179.	FCR tank unit	01-10-2020	15-11-21				
180.	Excavation work	01-10-20	25-10-20	100	100	0	100
181.	Boulder filling work	26-10-20	29-10-20	100	100	0	100
182.	PCC work	30-10-20	30-10-20	100	100	0	100
183.	RCC upto completion	31-10-20	15-10-21	100	95	5	100
184.	Other finishing work	16-09-21	15-11-21				
185.	Hydrotesting	01-10-21	15-10-21				
186.	Tube settler, CCT & Sludge storage Tank	01-01-21	15-12-21				

Sr. No.	Work description	Scheduled Start Date	Scheduled End Date	Schedule d Completion (In %)	Completi on up to previous month (In %) (A)	This month Completi on (In%) (B)	Total Completio n (In %) (A+B)
187.	Earth work & Boulder filling work	01-01-21	15-02-21	100	100	0	100
188.	PCC work	16-02-21	28-02-21	100	100	0	100
189.	RCC upto completion	01-03-21	15-11-21	80	40	5	45
190.	Other finishing work	16-10-21	15-12-21				
191.	Hydrotesting	21-10-21	31-10-21				
192.	Main Process Building	01-06-21	15-12-21				
193.	Excavation & Column	01-06-21	16-06-21	100	100	0	100
194.	Rubble soling/ Stone filling work	16-06-21	26-06-21	100	100	0	100
195.	PCC	26-06-21	30-06-21	100	100	0	100
196.	Structure completion (Expect finishing works)	01-06-21	24-10-21	45	28	7	35
197.	Other finishing work	01-09-21	15-12-21				
198.	Hydrotesting	24-10-21	31-10-21				
199.	Shastri bridge SPS and I&D work	01-09-21	15-12-21				
200.	Excavation work	01-09-21	30-09-21				
201.	PCC	01-09-21	30-09-21				
202.	RCC upto completion	01-09-21	20-10-21				
203.	Other finishing work	30-10-21	15-12-21				
204.	Hydrotesting	16-10-21	29-10-21				
205.	Boundary wall	01-09-21	15-12-21				
206.	Staff quarter	01-09-21	21-11-21				
207.	Other Misc works	10-12-21	15-12-21	100	0	0	0
208.	Jhunsi MPS and I&D work	01-09-20	30-11-21				
209.	Excavation work	01-08-21	30-06-21	100			
210.	PCC	01-09-21	07-09-21	100			
211.	RCC upto completion	07-09-21	20-10-21				
212.	Other finishing work	01-10-21	31-10-21				
213.	Hydrotesting	21-10-21	31-10-21				
214.	Staff quarter	01-09-20	30-09-21	95	90	0	90
215.	Other Misc works	16-11-21	30-11-21				
216.	Pipe laying (Rising Main & Gravity Main)	16-09-21	15-11-21				
217.	Rising main	01-09-21	31-10-21				
218.	Excavation, Laying & Jointing, Backfilling/ Restoration works	01-09-21	15-10-21	100	10	0	10

Sr. No.	Work description	Scheduled Start Date	Scheduled End Date	Schedule d Completion (In %)	Completi on up to previous month (In %) (A)	This month Completi on (In%) (B)	Total Completio n (In %) (A+B)
219.	Hydrotesting	16-10-21	31-10-21	100	0	0	0
220.	Gravity Main	01-09-21	15-11-21				
221.	Excavation, Laying & Jointing, Backfilling/ Restoration works	16-09-21	31-10-21	100	0	0	0
222.	Hydrotesting	01-11-21	15-11-21	100	0	0	0
223.	Other works	01-02-20	15-12-21				
224.	Site office (Temporary office)	01-02-20	30-04-20	100	100	0	100
225.	Other misc works (Boundary Wall, Road, rain water harvesting, Land scaping etc)	16-10-21	15-12-21	100	0	0	0
226.	Mechanical Erection-STP unit	01-11-21	15-12-21				
227.	Pumps	01-11-21	15-12-21	0			
228.	Lamella clarifier/ Tube settler	01-11-21	15-12-21	0			
229.	Fire fighting System	16-11-21	15-12-21	0			
230.	Chlorination	01-11-21	15-12-21	0			
231.	Grit removal system	01-11-21	15-12-21	0			
232.	Blowers & Diffuser	01-11-21	15-12-21	0			
233.	Screens	01-11-21	15-12-21	0			
234.	Piping, Valves & Gates	01-11-21	15-12-21	0			
235.	Media Installation/ Bio module	01-11-21	15-12-21	0			
236.	Other misc. work	16-11-21	15-12-21	0			
237.	Mechanical Erection-SPS & MPS	16-10-21	15-12-21				
238.	Pumps	16-10-21	15-12-21	0			
239.	Screens	01-11-21	11-12-21	0			
240.	Piping, Valves & Gates	01-11-21	15-12-21	0			
241.	Other misc. work	16-11-21	15-12-21	0			
242.	Electrical and C&I- STP Unit	01-11-21	15-12-21				
243.	Transformer Installation	16-11-21	13-12-21	0			
244.	HT/LT panel erection	01-11-21	15-12-21	0			
245.	PLC Panel & Online monitoring system	01-11-21	15-12-21	0			

Sr. No.	Work description	Scheduled Start Date	Scheduled End Date	Schedule d Completion (In %)	Completi on up to previous month (In %) (A)	This month Completi on (In%) (B)	Total Completio n (In %) (A+B)
246.	Instrumentation works	01-11-21	15-12-21	0			
247.	CCTV	01-11-21	10-12-21	0			
248.	Cable laying	01-11-21	15-12-21	0			
249.	DG Installation	01-11-21	10-12-21	0			
250.	Solar Panel	01-11-21	15-12-21	0			
251.	Other misc. work	16-11-21	15-12-21	0			
252.	Electrical and C&I- SPS & MPS	16-10-21	15-12-21				
253.	Transformer Installation	01-11-21	13-12-21	0			
254.	HT/LT Panel erection	01-11-21	15-12-21	0			
255.	Cable laying	01-11-21	15-12-21	0			
256.	DG Installation	01-11-21	10-12-21	0			
257.	PLC Panel & Online monitoring system	16-10-21	15-12-21	0			
258.	Other misc. work	16-11-21	15-12-21	0			
259.	Commissioning of Mech., Electrical and C&I	16-10-21	15-12-21	0			
260.	Trial Run, Final Inspection and COD	15-12-21	15-03-22				
261.	Trial Run and Final Inspection	15-12-21	14-03-22	0			
262.	COD	14-03-22	15-03-22	0			

7.2.4 Overall Package-II Progress



Note: As per approved Guaranteed Interim Availability, Rehabilitation works for Naini-I facility must have been completed by 31.01.2021 and COD was to be announced on 01.02.2021 but Rehabilitation works for the facility are not completed yet. So, Concessionaire is suggested to complete remaining Rehabilitation works for Naini-I facility at the earliest for the announcement of COD or otherwise liquidated damages as per clauses given in Concession Agreement will be applicable.

- Project Engineer has provided observation on Concessionaire August'21 month MPR vide letter number AIPL/NMCG/PRAYAG/1170 on dated 15.09.2021 Therefore, status may be change after observation incorporated by Concessionaire.

7.2.5 Rehabilitation status till August month

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
Sr. No.	Structure / Equipment details	Status
	Naini-I STP	
1.	Installation of flowmeter – 1 No. in New Inlet line of Naini - I STP from Gaughat MPS	1) Verification of calibration for flowmeters at Naini I STP by service Engineer from Forbes Marshall is completed but Verification of calibration for flowmeters at Gaughat MPS by service Engineer is not completed. Also, during visit when the flow from flowmeters of Naini-I STP was verified in accordance with Parshall flume after Grit chambers & it was found that there was considerable difference in flow measurement from both. Hence, Concessionaire is required to resolve above issues for verification of the amount of Raw sewage received at Naini-I STP. 2) Sluice valve adjacent to the flowmeter is to be shifted and replaced with knife gate valve Required Knife Edge Gate Valve is not available.
2.	Installation of flowmeter – 1 No. in Old Inlet line of Naini - I STP from Gaughat MPS	1) Verification of calibration for flowmeters at Naini I STP by service Engineer from Forbes Marshall is completed but Verification of calibration for flowmeters at Gaughat MPS by service Engineer is not completed. Also, during visit when the flow from flowmeters of Naini-I STP was verified in accordance with Parshall flume after Grit chambers & it was found that there was considerable difference in flow measurement from both. Hence, Concessionaire is required to resolve above issues for verification of the amount of Raw sewage received at Naini-I STP. 2) Earthing wires must be connected.
3.	Installation of flowmeter in Bypass line of Naini - I STP	Work is not started yet.
4.	Replacement of Sluice gates - 4 Nos at Inlet of TEPH sump of Naini – I STP	1) Erection work is completed. 2) Equipment are taken into operation on 02.01.2021.
5.	Replacement of PMCC panel in Naini-I STP	1) Erection of new electrical panel is completed. 2) Testing of panel is completed & it is charged. 3) Connection of cables for field equipment is completed. 4) All open spaces must be closed.
6.	Cleaning of Chlorine Contact Tank in Naini-I STP	1) Tiles fitted in the outlet launder are coming out, Concessionaire to please rectify the problem. 2) Cleaning of CCT is required again as sludge due to malfunctioning of FST no. 3 is deposited in the CCT and hence the quality of effluent is getting deteriorated.

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
7.	Installation of flowmeter in Effluent Bypass of Naini - I STP	1) Calibration of flowmeter is pending. 2) Earthing wires must be connected. 3) Construction of RCC chamber for the flowmeter is not started yet.
8.	Replacement of Manual Screen with Mechanical Fine Screen - 1	1) Erection & commissioning of equipment is completed. 2) Equipment is taken into operation on 03.02.2021.
9.	Replacement of Manual Screen with Mechanical Fine Screen - 2	1) Erection & commissioning of equipment is completed. 2) Equipment is taken into operation on 09.01.2021.
10.	Replacement of Manual Screen with Mechanical Fine Screen - 3	1) Erection & commissioning of equipment is completed. 2) A chute type arrangement is required at the end of compactor for properly transferring waste material. 3) Equipment is taken into operation on 02.01.2021.
11.	Overhauling of Mechanical Screens of 20 MLD stream along with conveyor	It has been observed that considerable amount of solid waste is passing the screens which is getting deposited in subsequent units of 20 MLD stream. Concessionaire to please check & rectify the problem.
12.	Rehabilitation works for Grit Removal Unit - 1	1) Erection & commissioning of equipment is completed.2) Equipment is taken into operation on 03.02.2021.3) Torque switch arrangement for scrapper mechanism as per approved FEED is not provided.
13.	Rehabilitation works for Grit Removal Unit - 2	1) Erection & commissioning of equipment is completed. 2) Equipment is taken into operation on 09.01.2021. 3) Torque switch arrangement for scrapper mechanism as per approved FEED is not provided. 4) Grit removal from the unit is not very efficient, Concessionaire to please check & resolve the issue.
14.	Rehabilitation works for Grit Removal Unit - 3	1) Erection & commissioning of equipment is completed. 2) Equipment is taken into operation on 02.01.2021. 3) Torque switch arrangement for scrapper mechanism as per approved FEED is not provided.
15.	Rehabilitation works for Grit Removal Unit - 4 (20 MLD)	1) Overhauling work is completed. 2) Equipment is taken into operation on 10.01.2021. 3) Abnormal noise is coming from the gear box of rake classifier, this must be rectified. 4) Torque switch arrangement for scrapper mechanism as per approved FEED is not provided.
16.	Replacement of Electrical Panel for Grit cum PST	1) Erection of new electrical panel is completed. 2) Testing of panel is completed & it is charged. 3) Connection of cables for field equipment is completed. 4) All open spaces must be closed.

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
17.	Rehabilitation works for PST - 1	1) Erection & commissioning of equipment is completed. 2) Unit is taken into operation on 09.01.2021. 3) Maintenance of Telescopic valve is pending. 4) Scum removal system is not working efficiently as large amount of scum can be seen floating on the surface. Scum is fully filled in the box & it is not going properly to collection chamber. Rectification of problem is required. 5) Torque switch arrangement for scrapper mechanism as per approved FEEP is not provided.
18.	Rehabilitation works for PST - 2	1) Erection & commissioning of equipment is completed. 2) Unit is taken into operation on 02.01.2021. 3) Maintenance of Telescopic valve is pending. 4) Scum removal system is not working efficiently as large amount of scum can be seen floating on the surface. Scum is fully filled in the box & it is not going properly to collection chamber. Rectification of problem is required. 5) Torque switch arrangement for scrapper mechanism as per approved FEEP is not provided.
19.	Rehabilitation works for PST - 3	1) Erection & commissioning of equipment is completed. 2) Unit is taken into operation on 24.02.2021. 3) Maintenance of Telescopic valve is pending. 4) Scum removal system is not working efficiently as large amount of scum can be seen floating on the surface. Scum is fully filled in the box & it is not going properly to collection chamber. Rectification of problem is required. 5) Torque switch arrangement for scrapper mechanism as per approved FEEP is not provided.
20.	Rehabilitation works for PST - 4 (20 MLD)	1) Overhauling work is completed. 2) Equipment is taken into operation on 10.01.2021. 3) Torque switch arrangement for scrapper mechanism as per approved FEEP is not provided. 4) Scum removal system is not working efficiently as large amount of scum can be seen floating on the surface. Scum is fully filled in the box & it is not going properly to collection chamber. Rectification of problem is required.
21.	Replacement of Valves for Drain line of PST - 4 Nos	1) Installation of actuators is pending. Instrument cable is not available. 2) Cleaning required for all valves chambers so that scum/sludge can flow freely without any choking problem. 3) Installation of flushing arrangement for the drain valves is pending. 4) Replacement of Telescopic valve is pending. Material is not available.

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
22.	Rehabilitation works for Aeration Tank no. 1	1) Erection & commissioning of equipment is completed. 2) Unit is taken into operation on 02.01.2021. 3) Proper cable glands must be provided in terminal boxes. 4) Installation of DO analyzer as per approved FEED is pending.
23.	Rehabilitation works for Aeration Tank no. 2	1) Erection & commissioning of equipment is completed. 2) Unit is taken into operation on 04.03.2021. 3) Proper cable glands must be provided in terminal boxes. 4) Installation of DO analyzer as per approved FEED is pending.
24.	Rehabilitation works for Aeration Tank no. 3	1) Erection & commissioning of equipment is completed. 2) Unit is taken into operation on 13.02.2021. 3) Proper cable glands must be provided in terminal boxes. 4) Installation of DO analyzer as per approved FEED is pending.
25.	Replacement of Diffusers along with Air grid pipeline for Aeration Tank - 4 (20 MLD)	1) During visit, operations of purge piping is checked and it was found that no air is coming out of the pipe. Concessionaire is required to check the issue or it can create problem during operations of unit in future. 2) Interlink of DO analyzer with Aeration blowers is not done yet for running blower in auto mode. 3) Commissioning of pressure transmitter, temp transmitter & DO analyzer is pending.
26.	Replacement of Aeration Blowers for Aeration Tank of 20 MLD	1) As per initial plan, two old blowers were to be replaced by new blowers but new Air Blowers are not available at site. 2) Currently, installation of third old blower is completed & it is taken into operation. Hence, 3 old blowers are available for operation.
27.	Rehabilitation works for FST - 1	1) Erection & commissioning of equipment is completed. 2) Unit is taken into operation on 02.01.2021. 3) Torque switch arrangement for scrapper mechanism as per approved FEED is not provided.

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
28.	Rehabilitation works for FST - 2	1) Erection & commissioning of equipment is completed.2) Unit is taken into operation on 09.01.2021.3)Torque switch arrangement for scrapper mechanism as per approved FEED is not provided.
29.	Rehabilitation works for FST - 3	1) Erection & commissioning of scrapper is completed. 2) Unit is taken into operation on 01.02.2021. Final Inspection of unit was not completed as unit was taken into operation for resolving the issues of FST 1&2 (one by one) and for improving the quality of effluent. 3) Sheets for current density baffle are also not installed completely. 4) Since the issues of FST 1 & FST 2 are resolved hence it is suggested to complete remaining works of this FST and inspection call must be raised for the same. 5) Torque switch arrangement for scrapper mechanism as per approved FEED is not provided.
30.	Rehabilitation works for FST - 4 (20 MLD)	1) Overhauling work is completed. 2) Equipment is taken into operation on 10.01.2021. 3) Torque switch arrangement for scrapper mechanism as per approved FEED is not provided.
31.	Replacement of Valves for Drain line of FST - 4 Nos	1) Installation of actuators is pending. Instrument cables is not available at site. 2) Installation of flushing arrangement for the drain valves must be completed.
32.	Replacement of Electrical Panel for Return Sludge cum FST	1) Erection of new electrical panel is completed. 2) Testing of panel is completed & it is charged. 3) Connection of cables for field equipment is completed. 4) All open spaces must be closed.

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
33.	Rehabilitation works for Return Sludge Pumps (60 MLD)	1) Replacement of 4 nos NRVs & 2 nos discharge vales is pending in the pump house. Material is not available at site. 2) Currently, 2 out of 4 pumps are under maintenance and hence no pump is in stand-by.
34.	Rehabilitation works for Return Sludge Pumps (20 MLD)	Currently, 1 out of 2 pumps in under maintenance and hence no pump is in stand-by.
35.	Rehabilitation works for Thickener - 1	1) Erection & commissioning of equipment is completed. 2) Unit is taken into operation on 15.02.2021. 3) Torque switch arrangement for scrapper mechanism as per approved FEED & datasheet must be provided. 4) It has been observed that thick layer of scum is formed on top of the water surface. To rectify the same, Concessionaire to please ensure that sludge and supernatant are withdrawn periodically from Thickener.
36.	Rehabilitation works for Thickener - 2	1) Erection & commissioning of equipment is completed. 2) Unit is taken into operation on 16.03.2021. 3) Torque switch arrangement for scrapper mechanism as per approved FEED & datasheet must be provided. 4) It has been observed that thick layer of scum is formed on top of the water surface. To rectify the same, Concessionaire to please ensure that sludge and supernatant are withdrawn periodically from Thickener.
37.	Rehabilitation Works for Sludge Pumps of Thickener	1) Civil modification work for the unit is completed. 2) Erection of pumps is completed and unit is taken into operation on 15.02.2021. 3) Currently, commissioning of two small pumps is completed and they are taken into operation. Commissioning of two big pumps is pending. 4) Installation of exhaust fans is pending.
38.	Erection & Commissioning of Valves in Inlet line of Thickener	Valve installation work is completed.

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
39.	Replacement of Valves for Drain line of Thickener -2 Nos	<p>1) Valves are available at site, valve for thickener no. 1 is replaced but valve for thickener no. 2 is not completed as removal of old valve is not possible. Arrangements must be made to remove second valve also or otherwise installation of actuator will not be possible.</p> <p>2) Installation of actuators is pending. Instrument cable is not available at site.</p> <p>3) Installation of flushing arrangement for valves is pending.</p>
40.	Replacement of Electrical Panel for Digester cum Thickener	<p>1) Erection of new electrical panel is completed.</p> <p>2) Testing of panel is completed & it is charged.</p> <p>3) Connection of cables for field equipment is completed.</p> <p>4) All open spaces must be closed.</p>
41.	Rehabilitation works for HNC pumps of Naini Area in TEPH	<p>1) Proper cable glands must be provided in terminal boxes.</p> <p>2) Cable laying must be done properly in the cable trench.</p> <p>3) Replacement of NRV in header line of Naini pumps is pending.</p>
42.	Rehabilitation works for HNC pumps of Dandi Area in TEPH	<p>1) Proper cable glands must be provided in terminal boxes.</p> <p>2) Cable laying must be done properly in the cable trench.</p>
43.	Replacement of Electrical Panel for TEPH	<p>1) Old panel is removed.2) Erection of new panel is completed on old trench but since new panel is of double front type, modification is required in existing room and trench for maintaining proper gap around the electrical panel. Concessionaire to please do the needful.3) All open spaces remains to be closed by chequered plates</p> <p>4) Rubber mats must be kept around LT panel.</p>
44.	Replacement of Electrical Panel for DGs	<p>1) New panel is commissioned & it is shifted to new position in Gas engine room.</p> <p>2) Commissioning work is completed.</p> <p>3) Rubber mats must be kept around LT panel.</p>
45.	Replacement of HT Panel	<p>1) Erection of new panel is completed.</p> <p>2) Testing of panel is completed & it is charged.</p> <p>5) Erection & commissioning of Battery bank & battery charger is completed.</p>
46.	Erection & Commissioning of New Transformers	<p>1) Erection work is completed.</p> <p>2) All testing works are completed.</p> <p>3) Cable connection work is completed.</p> <p>4) Load transfer to new Transformers is completed and it is charged..</p> <p>5) Fencing work and finishing work around transformer is completed.</p> <p>6) Filling & levelling work of gravels must be completed around transformers.</p>

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
47.	Erection & Commissioning of New DGs	1) Erection work is completed. 2) Erection work for chimney is pending. 3) Fuel tank installation is completed but its connection to DGs is not done. 4) Concessionaire is required to complete levelling, commissioning, testing & raise inspection call. 5) Proper excess to the DG sets must be provided.
48.	Rehabilitation Works for Chlorination System	1) Erection & commissioning of equipment is completed. 2) Unit is taken into operation on 02.01.2021. 3) It must also be ensured that chlorine dosing is done to effluent that is bypassing the chlorine contact tank.
49.	Erection & Commissioning of Leak Absorption System	1) Civil work is not completed yet. 2) Erection of new equipment is completed. 3) Commissioning work is pending.
50.	Erection & Commissioning of Sludge Dewatering System	1) Civil work is in progress. 2) E&M work is not started yet.
51.	Rehabilitation Works for Filtrate Pumps	1) Erection & commissioning of 4 nos new pumps is completed. 2) Unit is taken into operation. 3) Pipeline from thickener to filtrate pump house is currently choked. Concessionaire is please rectify the problem, also it is suggested to give one extra manhole so that choking rectification can be done easily in future.
52.	Installation of flowmeter in Header line of HNC pumps for Dandi Area in TEPH	Testing, commissioning work is completed, flowmeter is in operation.
53.	Installation of flowmeter in Header line of HNC pumps for Naini Area in TEPH	Testing, commissioning work is completed, flowmeter is in operation.
54.	Installation of flowmeter in Inlet line of Thickener from Blending Tank	1) Installation of flowmeter for one out of two thickeners is pending. Equipment is not available at site. 2) Calibration of flowmeter for one thickener is completed by site team, Concessionaire is required to get the calibration of flowmeter verified by Project Engineer/UPJN in presence of representative from OEM. 3) Construction of RCC chamber is not started yet.
55.	Installation of flowmeter in Header line of Submersible pumps from Thickener to Digester	1) Installation of flowmeter is completed. 2) Calibration of flowmeter for one thickener is completed by site team, Concessionaire is required to get the calibration of flowmeter verified by Project Engineer/UPJN in presence of representative from OEM. 3) Construction of RCC chamber is completed but covers are not installed yet.

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
56.	Installation of flowmeter in Return Sludge Line from RSPH of 60 MLD	<p>1) Installation of new flowmeter is completed but flowmeter of size 350mm is fitted in line of 300mm by giving enlargers at both ends. This must be checked as both enlargers are fitted within 2D & 5D dimensions in downstream & upstream respectively. This must be checked & rectified as flowmeter can give wrong values.</p> <p>2) Calibration of flowmeter is completed by site team, Concessionaire is required to get the calibration of flowmeter verified by Project Engineer/UPJN in presence of representative from OEM..</p> <p>3) Connection of earthing wires is pending.</p>
57.	Installation of flowmeter in Return Sludge Line from RSPH of 20 MLD	<p>1) Installation of flowmeter is completed.</p> <p>2) Installation of local indicator, commissioning work is pending.</p> <p>3) Construction of RCC chamber is completed, installation of covers is pending.</p>
58.	Erection & Commissioning of Online Instruments	<p>1) Process Analyzers: Calibration work for inlet & outlet analyzers is completed. For better results, it is suggested to keep sampling time less than 15 min. Process Analyzer at both inlet & outlet is not giving correct readings as the sampling pump is not working properly, Concessionaire to please rectify the problem.</p> <p>2) Chlorine Analyzer: Calibration of analyzer is completed by site team, Concessionaire is required to get the calibration of analyzer verified by Project Engineer/UPJN. Also, the analyzer is not giving correct values.</p> <p>3) DO Analyzers: Erection & commissioning of DO analyzers for Surface Aerators is not started yet. Installation of DO analyzer for 20 MLD is completed, calibration of DO analyzer is pending. Interlink of DO analyzer for 20 MLD with Aeration blowers is not done yet for running blowers in auto mode.</p> <p>4) Differential level sensors: Erection work is completed but commissioning is pending.</p> <p>5) Level sensors: Testing of all level sensors must be checked as they are not giving correct readings.</p> <p>6) Installation of pressure transmitter for header line of air blowers is completed, commissioning work is pending.</p> <p>7) Installation of pressure transmitter for header line of treated effluent pumps is pending.</p> <p>8) Work for installation of online monitoring system for gas generation/sludge handling area is in progress.</p>
59.	Erection & Commissioning of PLC panels	<p>1) Commissioning work is completed except for gas generation/sludge handling area.</p> <p>2) Connection of equipment, field instruments is completed except for gas generation/sludge handling area.</p>

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
60.	Erection & Commissioning of SCADA System	1) Commissioning works for SCADA system is completed except for gas generation/sludge handling area. 2) KPI & Flow Report generation from SCADA is started. Running hour report for equipment is not started yet. 3) Communication from associated infrastructure is not received in Naini-I STP. 4) Provision for transmission of data from SCADA servers to CPCB/SPCB as per conditions given in CA is not provided yet.
61.	Replacement of Sluice gate in Effluent Bypass of Naini – I STP	No work is in progress
62.	Replacement of Sluice Gates in Inlet of Grit Removal Units	No work is in progress
63.	Replacement of Sluice Gates in Inlet of Primary Settling Tanks	No work is in progress
64.	Replacement of Sluice Gates in Inlet of Aeration Tanks	No work is in progress
65.	Replacement of Sluice Gates in Inlet of Final Settling Tanks	No work is in progress
66.	Replacement of Valve in old header line from Guahan MPS	No work is in progress
67.	Replacement of other miscellaneous gates/valves for 60 MLD streams	No work is in progress
68.	Overhauling & Testing of Electrical panels for 20 MLD stream	No work is in progress
69.	Erection & Commissioning of APFC Panels	1) Construction work for trenches is completed. 2) Erection work for panels is completed. 3) Testing & Commissioning work for one panel is completed and it is taken into operation. Testing & commissioning work for second panel is pending.
70.	Erection & commissioning of Service Water Pumps - 2 Nos	No work is in progress
71.	Erection & commissioning of Dilution Water Pumps - 2 Nos	Pumps which were originally procured for dilution line are not used for thickened sludge pumping and dilution water will be taken from service water pumps.
72.	Rehabilitation works for Storm Water Pump House	No work is in progress
73.	Rehabilitation works for Tube well Pump House	No work is in progress
74.	Rehabilitation works for Digester no. 1	1) Leakage rectification work for digester is completed and testing was completed by Concessionaire's own team. 2) Unit is taken into operation on 17.07.2021. 3) Installation of instruments is in progress.

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
75.	Rehabilitation works for Digester no. 2	1) Cleaning work for the Digester is completed. 2) Erection of Gas mixing system is completed. 3) Commissioning of the unit is in progress.
76.	Rehabilitation works for Digester no. 3	1) Cleaning work for the Digester is completed. 2) Erection of Gas mixing system is in progress. 3) Commissioning of the unit is pending.
77.	Erection & Commissioning of Compressors for Gas mixing system of Digesters	1) Erection of all three skids of compressor is completed. 2) Piping work is completed. 3) Commissioning of electrical panels & compressors is completed. 4) Commissioning of one skid of compressor is completed. Commissioning of two skids of compressor is pending.
78.	Erection & Commissioning of Heat Exchangers - 3 nos / sludge recirculation pumps - 6 Nos	1) Erection of heat exchanger - 1 no., sludge recirculation pumps - 2 nos of Digester no. 1 & 2 are completed. 2) Construction of foundation for heat exchanger & sludge recirculation pumps of Digester no. 3 is in progress. E&M works are not started yet. 3) Piping work for heat exchanger and sludge recirculation pumps of Digester no. 1 & 2 is completed and for Digester no. 3 is pending. 4) Electrical, C&I work for the unit is pending. 5) Commissioning of heat exchanger, sludge recirculation pumps of Digester 1 is completed.
79.	Erection & Commissioning work of Gas Holder no. 1 & 2	1) Commissioning work for the unit is completed. 2) Automation work for the unit is pending.
80.	Erection & Commissioning of Dewatering Feed pumps	1) Piping work for the unit is completed. 2) Construction of shed for dewatering feed pumps is in progress. 3) Electrical connection of pumps, commissioning of unit is completed.
81.	Erection & Commissioning of Gas Engine	1) Electrical, C&I works are in progress. 2) Construction of working platform around gas engine is completed. 3) Testing of gas engine on no load is completed but testing on load is pending. 4) Automation work for unit is pending.
82.	Erection & Commissioning of Control Panel Room for Gas Engine	1) Cable connection work is completed. 2) Testing & Commissioning of the unit is completed. 3) Automation work for unit is pending.
83.	Erection & Commissioning of H ₂ S Scrubber, Blowers - 2 Nos & Dehumidifier	1) Cable connection work is completed. 2) Testing & Commissioning of the unit is completed. 3) Automation work for unit is pending.
84.	Erection & Commissioning of HT, LT & Hot Water System	1) Cable connection work is completed. 2) Testing & Commissioning of the unit is completed. 3) Automation work for unit is pending.

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
85.	Erection & Commissioning of Radiator	1) Cable connection work is completed. 2) Testing & Commissioning of the unit is completed. 3) Automation work for unit is pending.
86.	Erection & Commissioning of Ventilation System	1) Installation of equipment, piping & electrical work is completed. 2) Partition of Gas engine room is completed. 3) Commissioning work for the unit is pending.
87.	Erection & Commissioning of Gas Flare	1) Erection of equipment is completed. 2) Piping work is completed. 3) Commissioning work is completed 4) Construction of chamber for moisture trap is completed. Installation of covers is pending. 5) Automation work for unit is pending.
88.	Erection & Commissioning of Gas Piping for complete Gas Generation Area	1) Excavation work is completed. 2) Pipe laying Work is completed.
89.	Erection & Commissioning of Sludge Piping for complete Gas Generation Area	1) Excavation work is completed. 2) Pipe laying Work is completed.
90.	Cleaning of Sludge Drying Beds	1) Cleaning work is not in progress, Concessionaire is requested to expedite the work. 2) Currently, no sludge drying bed is empty hence sludge withdrawal from the STP is not proper which in turn is severely affecting the quality of effluent.
91.	Set-up of Laboratory	1) Civil work, finishing work for the unit are completed. 2) Set-up of laboratory is completed.
92.	Overhauling of ultrasonic flowmeters in separate channels for 60 MLD & 20 MLD streams	No work is started yet.
93.	Overhauling/Replacement of HOT/EOT for complete STP	No work is started yet.
94.	Gaughat MPS	
95.	Installation of flowmeter in old header line of Gaughat MPS	1) Installation of new flowmeter is completed. 2) Commissioning work is completed. 3) Calibration of flowmeter is completed by site team, Concessionaire is required to get the calibration of flowmeter verified by Project Engineer/UPJN. 4) Installation of slab covers for RCC chamber is pending.

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
96.	Installation of flowmeter in new header line of Gaughat MPS	1) Installation of new flowmeter is completed. 2) Commissioning work is completed. 3) Calibration of flowmeter is completed by site team, Concessionaire is required to get the calibration of flowmeter verified by Project Engineer/UPJN. 4) Construction of RCC chamber is completed. Installation of slab covers is pending.
97.	Replacement of HNC pumps - 5 Nos	1) Commissioning work for one HNC pump is completed, Installation of second pump is completed, commissioning work is pending. Currently, two old and one new pump is in working condition. 2) It was also decided that one new pump must be installed in vacant space for 5th pump. No work for the same is started yet. 3) Replacement of NRV in header line of HNC pumps is pending. Excavation work is completed but no work is in progress currently.
98.	Replacement of Submersible pumps - 3 nos	Erection & commissioning of all pumps is completed.
99.	Replacement of Mechanical Screen - 2 Nos	1) Installation, commissioning of one screen was completed but currently it is not working. 2) Other screen is taken out for maintenance purpose. Currently, maintenance work for the screen is not in progress due to non-availability of spares.
100.	Replacement of Electrical Panel for DGs	Panel is charged & taken into operation.
101.	Cleaning of Receiving Chamber for HNC pumps	Cleaning of sump is completed.
102.	Cleaning of Receiving Chamber for Submersible pumps	Cleaning of sump is completed.
103.	Erection & Commissioning of PLC panels	1) Work for operation of HNC pumps from PLC and in auto mode (based on level of sump) is pending. 2) Work for operation of submersible pumps from PLC and in auto mode (based on level of sump) is pending. 3) Work for operation of mechanical screens (both old & new) from PLC and in auto mode (based on level of sump) is pending. 4) Report generation from SCADA is not started yet. 5) Connection of actuator operated valve with PLC system is pending. 6) Transmission of data from MPS to Naini I STP is not started yet.

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
104.	Erection & Commissioning of Online Instruments	1) Differential level sensors: Erection work is completed but commissioning is pending. 2) Installation of pressure transmitter on header line of HNC pumps is pending. 3) Installation of pressure transmitter on header line of submersible pumps is pending.
105.	Overhauling of Mechanical Screens	1) Repairing of one screen is completed and it is in operation currently. 2) Other screen is taken out for maintenance purpose. Currently, maintenance work for the screen is not in progress due to non-availability of spares.
106.	Overhauling of DG sets	1) Overhauling work for 1000 KVA DG is completed. Overhauling for DGs of submersible pump is pending. 2) Repairing work of 11 KV DG synchronisation panel is pending. 3) Repairing work of 500 KVA/11KV DG set is pending. 4) Repairing of NGR panel is pending.
107.	Replacement of emergency gate	1) No work is in progress 2) Repairing of other sluice gates inside pumping station is pending.
108.	Overhauling & Testing of Old Electrical panels for HNC pump house & submersible pump house	No work is in progress
109.	Installation of Manual Screen in Receiving Chamber of Gaughat Pumping station	1) No work is in progress 2) As informed by the Concessionaire, order for new material is given.
110.	Chacharnalla SPS	
111.	Installation of flowmeter - 600mm in header line of VNC pumps in Chacharnalla SPS	1) Calibration of flowmeter is completed by site team but it is not working. Concessionaire is required to rectify the problem. 2) During visit, it was found that flow calculation was done on the basis of running hours of pumps which is not correct. Hence, both flowmeters must be made ready as part of online monitoring system or otherwise it will not be deemed as completed.
112.	Overhauling/Calibration of flowmeter - 400mm in header line of VNC pumps in Chacharnalla SPS	1) Overhauling/calibration of old flowmeter is not started yet. 2) Currently, flowmeter is not working. 3) During visit, it was found that flow calculation was done on the basis of running hours of pumps which is not correct. Hence, both flowmeters must be made ready as part of online monitoring system or otherwise it will not be deemed as completed.

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
113.	Erection of Manual Screens at tapping points in Chacharnalla SPS	Minor civil work is pending.
114.	Replacement of Big VNC pumps in Chacharnalla SPS	1) Dismantling of two pumps is completed. 2) Erection & commissioning of two new pumps is completed 3) Currently, two pumps are ready for operations & one old pump is under maintenance. Hence no pump is in stand-by.
115.	Overhauling of Small VNC pumps	1) Overhauling work is not started yet. 2) Currently, both pumps are in working condition.
116.	Replacement of MCC panel at Chacharnalla SPS	1) Panel is taken into operation on 10.01.2021.
117.	Cleaning of Receiving Chamber at Chacharnalla SPS	Cleaning of sump is completed.
118.	Erection & Commissioning of PLC panels	1) Work for operation of VNC pumps (both 125 HP & 75 HP) in auto mode (based on level of sump) is pending. 2) Work for operation of mechanical screens from PLC and in auto mode (based on level of sump) is pending. 3) Report generation from SCADA is not started yet. 4) Transmission of data from SPS to Naini I STP is not started yet.
119.	Erection & Commissioning of Online Instruments	1) Differential level sensors: Erection work is completed but commissioning is pending. 2) Installation of pressure transmitter on header line of VNC pumps is pending.
120.	Overhauling of Mechanical Screens	1) Overhauling work is not started yet. 2) Currently, both screens are in working condition.
121.	Overhauling & of Old Electrical panels	1) Repairing of PT & Relay in 11KV HT panel is pending. 2) No work is in progress
122.	Overhauling of all Sluice Gates inside pumping station	No work is in progress
123.	Overhauling of DG sets	1) Overhauling work is not started yet. 2) During earlier visit, facility was checked by giving load on DGs and it was found that during the changeover, the lever inside incomer panel of DG was not working properly. Hence, servicing of old panels is required & it must be done from authorized vendors so that proper pumping during power cuts can also be ensured. Work for the same is still pending. 3) Repairing of DG set for 75 HP pumps is pending.

RAJAPUR STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
Sr. No.	Structure / Equipment details	Status
	Rajapur STP	
1.	Repairing of Parshall flume after PTU & installation of Ultrasonic flowmeter.	Testing & commissioning of flowmeter is completed, flowmeter is in operation.
2.	Installation of flowmeter – 1 No. in Inlet line of Rajapur STP from Mumfordganj SPS	Testing & commissioning of flowmeter is completed, flowmeter is in operation.
3.	Installation of flowmeter in Outlet of Rajapur STP	1) Installation of flowmeter is completed. 2) Commissioning work is in progress. 3) Calibration of flowmeter was checked in the presence representative from OEM along with UPJN officials but it was showing incorrect readings as per the level of water in parshall flume and as per flow chart. Concessionaire to please resolve the issue at the earliest.
4.	Cleaning of Chlorine Contact Tank in Rajapur STP	Cleaning work is completed.
5.	Overhauling of Mechanical Screens at PTU	1) Overhauling work is completed. 2) Both screens are in working condition.
6.	Rehabilitation works for Grit Removal Unit - 1 & 2	1) Overhauling work is completed. 2) Chain guard for all drives must be installed. 3) Abnormal vibration found in both organic pumps, this must be rectified.
7.	Rehabilitation work for Sluice Gates at PTU	Rehabilitation works is completed.
8.	Rehabilitation works for UASB - 1	1) Leakage rectification required from HDP pipes. 2) Cleaning work was completed for one compartment only out of as unit was taken into operation due to start of Magh Mela. 3) No cleaning work is in progress currently. 4) It is observed that problem of leakage from HDP inlet pipes is very frequent. For minimising this problem, it was suggested to give proper supports under the pipes. Concessionaire to please do the needful.
9.	Rehabilitation works for UASB - 2	1) Dewatering of structure is not started yet. 2) No cleaning work is in progress currently. 3) It is observed that problem of leakage from HDP inlet pipes is very frequent. For minimising this problem, it was suggested to give proper supports under the pipes. Concessionaire to please do the needful.

RAJAPUR STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
10.	Rehabilitation works for Aeration Tank	1) Erection work for three new Surface Aerators is completed but it is taking high ampere during operation. 2) Cleaning of Aeration tank is not started yet. 3) Rectification work for one surface aeration is completed & now it is taking normal amperes but it is observed that splashing of sewage has become half of the amount at earlier stage. This problem must be rectified or otherwise it will be difficult to maintain DO level in the aeration tank. 4) Currently, 12 old & 1 new aerator are ready for operation and 2 aerators are in maintenance, hence only 1 surface aerator is in stand-by.
11.	Rehabilitation works for Quiescent Zone	1) Unit is taken into operation on 01.01.2021 without doing the cleaning work. 2) As informed, current plan is to avoid cleaning of Quiescent Zone do it at some afterwards due to time constraints. In current situation also we can see that the dead sludge which is deposited in Quiescent Zone over the years is coming out along with the treated water resulting in higher TSS & low DO hence It is strongly suggested to complete the cleaning of Quiescent Zone to increase the treatment efficiency of the plant.
12.	Rehabilitation works in MEP Room	1) Civil modification work regarding safe approach to the electrical panels is completed. 2) Slope of ramp is very steep, proper slope must be maintained so that heavy equipment can be moved easily during maintenance works.
13.	Rehabilitation works in Metering Room	1) Floor restoration work is completed. 2) Increase in height of Electrical Panels is completed. 3) No permanent arrangement is being made for safe approach to the electrical panel at increased height which is very dangerous and violates all safety norms. Concessionaire is required to look into the matter & do the needful at the earliest.
14.	Cleaning of Sludge Drying Beds	1) Cleaning work is not in progress. 2) Currently, 8 sludge drying beds are empty, Concessionaire is suggested to empty remaining sludge drying beds also for preparation of monsoon season.

RAJAPUR STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
15.	Increase in height of foundation for DGs	<p>1) Repairing of shed is pending.</p> <p>2) Operating platform is required around DG set for operation.</p> <p>3) It is suggested to increase the height of chimney as per CPCB norms.</p> <p>4) No work regarding overhauling of DGs is in progress</p>
16.	Rehabilitation works for Gas Handling System	<p>No work is started for the system.</p> <p>Concessionaire to please expedite the work as this system is part of the process must be made functional before the end of Rehabilitation period.</p>
17.	Rehabilitation works for Sludge Handling System	<p>1) Two sludge sumps are available in one sump but in second sump only one pump is present. Installation of remaining pump in second sump is pending. 2) Overhauling of two pumps for the system is pending.</p>
18.	Rehabilitation works for Filtrate pump house	Overhauling of one pump out of two is pending.
19.	Rehabilitation works of Chlorination system.	<p>1) Proper Pipe Supports for the pipeline are required.</p> <p>2) During visit it was found that booster pumps were losing pressure very frequently due to which chlorine dosing was stopped. Concessionaire to please rectify the problem.</p> <p>3) It was also found that booster pumps were getting water from potable water system of plant which is completely against CPCB norms. Concessionaire to please look into the matter and make arrangement for using treated water in booster line.</p>
20.	Rehabilitation works of Leak Absorption System	<p>1) The system must be checked in Auto mode.</p> <p>2) Proper caustic solution must be filled in Caustic pit for absorbing the chlorine leakage.</p>
21.	Erection & Commissioning of Sludge Dewatering System	<p>1) Civil work for the unit is in progress.</p> <p>2) E&M work for the unit is in progress.</p>

RAJAPUR STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
22.	Erection & Commissioning of Online Instruments	<p>1) Process Analyzers: Erection of process analyzers at inlet and outlet is completed, commissioning work is completed. Calibration work is completed. For better results, it is suggested to keep sampling time less than 15 min. Process Analyzer at both inlet & outlet are not giving correct readings, Concessionaire to please rectify the problem.</p> <p>2) Chlorine Analyzer: Erection & commissioning of Chlorine Analyzer is completed. Calibration of analyzer is completed by site team, Concessionaire is required to get the calibration of analyzer verified by Project Engineer/UPJN. Also, the analyzer is not giving correct values.</p> <p>3) DO Analyzers: Erection & commissioning of DO analyzers for Surface Aerators is not started yet.</p> <p>4) Differential level sensors: Erection work is completed but commissioning is pending for mechanical screens at both Rajapur STP & Rajapur SPS.</p> <p>5) Installation of pressure transmitter on header line of submersible pumps for Rajapur SPS is pending.</p>
23.	Erection & Commissioning of PLC panels	<p>1) Commissioning work is completed except for sludge dewatering unit.</p> <p>2) Connection of equipment, field instruments is completed except for sludge dewatering unit.</p> <p>3) Commissioning of differential level sensors for mechanical screen of Rajapur SPS is pending.</p> <p>4) Commissioning of differential level sensors for mechanical screen of STP is pending.</p>
24.	Erection & Commissioning of SCADA System	<p>1) Commissioning works for SCADA system is completed except for sludge dewatering unit. 2) KPI Report generation from SCADA is started. Running hour report & flow report for equipment is not started yet. 3) Communication from associated infrastructure is not received in Rajapur STP. 4) Provision for transmission of data from SCADA servers to Government offices as per conditions given in CA is not provided yet. 5) 3 PCs in SCADA system are not working.</p>
25.	Installation of flowmeter in Bypass line of STP	Flowmeter is not available at site

RAJAPUR STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
26.	Overhauling of All Electrical Panels of STP	No work started yet.
27.	Overhauling of Old flowmeters of STP	No work started yet.
28.	Set-up of Laboratory	Set-up of laboratory is completed
29.	Rehabilitation works for Treated water pump house	Overhauling of two pumps out of five is pending.
30.	Rajapur SPS	
31.	Overhauling/Calibration of existing flowmeter in header line of pumps	Calibration of flowmeter is completed
32.	Replacement of Submersible pumps - 6 nos	Replacement of 5 no. submersible pumps is completed out of 6.
33.	Overhauling of Mechanical Screen	Overhauling work is completed and equipment is taken into operation.
34.	Cleaning of Receiving Chamber	Cleaning of sump is completed.
35.	Overhauling of sluice gates	Overhauling work for two gates is pending for which checknuts are required, order for the same is given.
36.	Replacement of inlet gate	No work is started yet.
37.	Rehabilitation Works for tapping point of Rajapur SPS	Retaining wall is broken due to which sewage is going directly into the river, Concessionaire to please rectify the problem.
38.	Mumfordganj SPS	
39.	Overhauling/Calibration of existing flowmeter in header line of pumps	1) Testing & commissioning of flowmeter is completed, flowmeter is in operation. 2) Dismantling joint must be provided along with flowmeter for ease in maintenance. Dismantling joint is not available at site.
40.	Overhauling of Mechanical Screen	1) Both screens are in operation. 2) Provision for running of mechanical screens in auto mode is pending.
41.	Replacement of HNC pumps along with cables.	1) Erection of all new pumps is completed. 2) Commissioning, testing of all pumps pumps is completed.
42.	Replacement of suction valves, discharge valves & NRVs	1) NRV in main header line must be provided for reducing back hammering on the pumps. NRV is not available at site2) Painting of header line is not started yet.3) Construction of RCC supports for the pipe are not started yet.
43.	Rehabilitation works of Main MCC panel	Rehabilitation work is completed.

RAJAPUR STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
44.	Erection & Commissioning of PLC panels	1) Work for operation of HNC pumps in auto mode (based on level of sump) is pending. 2) Work for operation of mechanical screens from PLC and in auto mode (based on level of sump) is pending. 3) Report generation from SCADA is not started yet.
45.	Erection & Commissioning of Online monitoring system	1) Differential level sensors: Erection work is completed but commissioning is pending. 2) Installation of pressure transmitter on header line of HNC pumps is pending.
46.	Cleaning of Receiving Chamber	Cleaning of sump is completed.
47.	Overhauling & Testing of Old Electrical panels	1) Repairing of PT & Relay in 11KV HT panel is pending. 2) No work for overhauling of panels is in progress.
48.	Overhauling of all Sluice Gates inside pumping station	No work is in progress
49.	Overhauling of DG sets	When the working of DG sets was checked, it was found that during synchronisation, DG no. 1 got tripped. Concessionaire to please rectify the problem.
50.	Overhauling/testing of Transformer	1) Overhauling of Transformer no. 2 is completed. 2) Overhauling work for Transformer no. 1 is pending.

7.2.6 Physical Activities status as per Rehabilitation plan:

Work Description	Scheduled Start Date	Scheduled End Date	Scheduled completion (In %)	Completion upto Previous Month (In %) (A)	This month Completion (In %) (B)	Total Completion (In %) (A+B)
Naini-I STP & Associated Infrastructure & Rajapur STP & Associated Infrastructure						
Civil Work						
Civil Work in Plant, MPS, SPS	1-sept-20	24-Jan-21	100	98.5	0	98.5
Building Work	1-sept-20	24-Jan-21	100	99	0	99
Office Work	1-sept-20	24-Jan-21	100	100	0	100
Mechanical Work						
Pumps, Blowers, Diffusers	1-Nov-20	24-Jan-21	100	99	1	100
Pipes, Valves, Gates, Screens	1-Nov-20	24-Jan-21	100	98	0	98
Sludge Dewatering System	1-Nov-20	24-Jan-21	100	0	50	50
Grit Removal System	20-Oct-20	24-Jan-21	100	100	0	100
Biogas Engine with Scrubber and Gas Mixing System	1-Nov-20	24-Jan-21	100	97	1	98
Chlorination System	1-Nov-20	24-Jan-21	100	100	0	100
Electrical & C&I Work						
PLC	1-Nov-20	24-Jan-21	100	99	0	99
Field Instruments (Gauges)	1-Nov-20	24-Jan-21	100	99	0	99
Level Transmitters	1-Nov-20	24-Jan-21	100	100	0	100
Analyzers	1-Nov-20	24-Jan-21	100	99	0	99
Cable Traying laying	1-Nov-20	24-Jan-21	100	99	1	100
Cable Laying, Termination and Glanding	1-Nov-20	24-Jan-21	100	99	1	100
Commissioning / Trial Run	25-Jan-21	31-Jan-21	100	0	70	70
Final Inspection by Client	25-Jan-21	30-Jan-21	100	0	0	0
COD	31-Jan-21	31-Jan-21	100	0	0	0

7.3 Package-III status



OFFICE OF THE GENERAL MANAGER,
कार्यालय महाप्रबन्धक,
GANGA POLLUTION CONTROL UNIT,
गंगा प्रदूषण नियंत्रण इकाई,
U.P. JAL NIGAM, PRAYAGRAJ
उ० प्र० जल निगम प्रयागराज,
दूरभाष : 0532-2684329, 2684691, फैक्स 0532-2684896
Dated: 02/11/2020

Letter No. 2336/PWPL(Adani)/423

To,
M/s. Prayagraj Water Private Limited,
"Adani House", 56, Shrimali Society,
Near Mithakhall Six Road,
Navrangpura, Ahmedabad-380006
Gujrat, India.

Name of Work: Development and Rehabilitation of Sewage Treatment Plants and Associated Infrastructure
under Hybrid Annuity Based PPP Mode at Prayagraj, Uttar Pradesh.

Subject: Concession Agreement no. 31/GM/2018-19: Issuance of Commercial Operations Date of Package-III.

Sir,

With reference to the above mentioned subject, it is to be noted that we have issued the 2nd Milestone completion certificate vide Letter No. 2328/PWPL(Adani)/415 dated 31.10.2020 & Rehabilitation Completion Certificate vide Letter No. 2330/PWPL(Adani)/417 dated 31.10.2020 and LD Waiver Letter No. 2331/PWPL(Adani)/418 dated 31.10.2020 after the detailed assessment of the documents provided by the concessionaire.

In view of the same, we are hereby issuing the COD certificate to the concessionaire. Details of the same is mentioned below-

Sl. No.	Description	COD Commencement Date
1	Rehabilitation works under Pkg-III	01.11.2020

Yours faithfully

General Manager

Endt No. & and date as above:

Copy to following:

- 1- E.D.(Projects), NMCG, New Delhi.
- 2- MD, UPJN Lucknow.
- 3- Chief Engineer (Ganga), U.P. Jal Nigam Lucknow.
- 4- Chief Engineer (Prayagraj Zone), U.P. Jal Nigam Prayagraj.
- 5- Shri. Madav Kumar, Sr. Economics and Financial Expert, NMCG, New Delhi.
- 6- Project Manager (I/E&M), GPCU, U.P. Jal Nigam Prayagraj.
- 7- AECOM India Pvt. Ltd. (Project Engineer), Gurgaon.

Commercial Operations Date was announced on 02.11.2020 vide letter no. 2336/PWPL (Adani)/423

8. Meetings, Discussions and Site Visits:

Regular progress review meetings are being held at UPJN office & sites. Following meetings were held during the month of August' 2021.

Sr. No.	Site Visit & Meeting with UPJN / NMC / PWPL	Date	Attendees	Description
1.	Site inspection of Naini-II STP	1-Aug-21	Mr. Amit Ranjan	Inspection, supervision and monitoring of ongoing Civil activities
2.	Site inspection of Phaphamau STP	2-Aug-21	Mr. Wahab Alam	Inspection, supervision and monitoring of ongoing Civil activities
3.	Site inspection of Rajapur STP	3-Aug-21	Mr. Sudhir Tomar	Inspection, supervision and monitoring of ongoing E&M activities and operation and maintenance of plant
4.	Site inspection of Naini-I STP	6-Aug-21	Mr. Gaurav Gupta	Inspection, supervision and monitoring of ongoing E&M activities and operation and maintenance of plant
5.	Site inspection of Naini-I STP	7-Aug-21	Mr. Gaurav Gupta	Inspection, supervision and monitoring of ongoing E&M activities and operation and maintenance of plant
6.	Site inspection of Naini-I STP	9-Aug-21	Mr. Gaurav Gupta	Inspection, supervision and monitoring of ongoing E&M activities and operation and maintenance of plant
7.	Site inspection of Rajapur STP	12-Aug-21	Mr. Sudhir Tomar	Inspection, supervision and monitoring of ongoing E&M activities and operation and maintenance of plant
8.	Site inspection of Naini-II STP	16-Aug-21	Mr. Amit Ranjan	Inspection, supervision and monitoring of ongoing Civil activities
9.	Site inspection of Phaphamau STP	17-Aug-21	Mr. Wahab Alam	Inspection, supervision and monitoring of ongoing Civil activities
10.	Site inspection of Naini-I STP	17-Aug-21	Mr. Gaurav Gupta	Inspection, supervision and monitoring of ongoing E&M activities and operation and maintenance of plant
11.	Site inspection of Rajapur STP	18-Aug-21	Mr. Sudhir Tomar	Inspection, supervision and monitoring of ongoing E&M activities and operation and maintenance of plant
12.	Site inspection of Jhansi STP	18-Aug-21	Mr. Abhishek Singh	Inspection, supervision and monitoring of ongoing Civil activities
13.	Site inspection of Naini-I STP	20-Aug-21	Mr. Gaurav Gupta	Inspection, supervision and monitoring of ongoing E&M activities and operation and maintenance of plant
14.	Site inspection of Jhansi STP	27-Aug-21	Mr. Abhishek Singh	Inspection, supervision and monitoring of ongoing Civil activities

11. Outward Register

List of key design & documents were reviewed by Project Engineer during this period as below.

Sr. No.	PE Transmittal/ Ref No	Description	Outward Date	To (Organization)	Copies To
1.	AIPL/NMCG/PRAYAG/1105	Regarding the notice for the completion of Milestone IV of Package-I.	3-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
2.	AIPL/NMCG/PRAYAG/1106	Regarding KPI data submitted through SCADA reports of Quarter-1 for O&M period of Package III facilities	3-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
3.	AIPL/NMCG/PRAYAG/1107	Regarding KPI data submitted through SCADA reports of Quarter-2 for O&M period of Package III facilities	3-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
4.	AIPL/NMCG/PRAYAG/1108	Regarding operational issues of Naini I facility	3-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
5.	AIPL/NMCG/PRAYAG/1109	Observation of Monthly progress report for the month of June , 2021	3-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
6.	AIPL/NMCG/PRAYAG/1110	Observation on Basna Nalla SPS - Rev 1 _Civil Design Docs & Dwgs	4-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
7.	AIPL/NMCG/PRAYAG/1111	Observation on G. A drawing of shastri bridge SPS	6-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
8.	AIPL/NMCG/PRAYAG/1112	Inspection Reports of Naini-II facility and Phaphamau facility under Package-I	6-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
9.	AIPL/NMCG/PRAYAG/1113	Observation on Reinforcement details Valve chamber pit, Parshall flume and	7-Aug-21	The General Manager, Ganga	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj

Sr. No.	PE Transmittal/ Ref No	Description	Outward Date	To (Organization)	Copies To
		Staircase to Tube settler tank		Pollution Control Unit	3. PM-E&M - UPJN, Prayagraj
10.	AIPL/NMCG/PRAYAG/1114	Observation on Road Drain design and drawing Jhunsi STP Revision 1	10-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
11.	AIPL/NMCG/PRAYAG/1115	Observation on drawing for Road & Drain at Mahewaghat Drain SPS	10-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
12.	AIPL/NMCG/PRAYAG/1116	Observation on Mawaiya drain SPS Road drain Revision 2	10-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
13.	Via Mail	Observation on Civil Drawing for Tube settler at Phaphamau STP	11-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
14.	AIPL/NMCG/PRAYAG/1117	Observation on Mechanical GA of I&D of 13 Nalla Tappings with Trunk Sewer & Manholes at Jhunsi associated infrastructure	13-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
15.	AIPL/NMCG/PRAYAG/1118	Observation on Pipe Schedule for Package I - Naini II, Phaphamau and Jhunsi STP	13-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
16.	AIPL/NMCG/PRAYAG/1119	Observation on Valve Schedule (package-I Associated Infrastructure) - Jhunsi	13-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
17.	AIPL/NMCG/PRAYAG/1120	Observation on Mechanical Datasheets & GAD of Submersible Mixers of Pkg-I STP	13-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
18.	AIPL/NMCG/PRAYAG/1121	Regarding the Observation of MPR of Jul'21.	14-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj

Sr. No.	PE Transmittal/ Ref No	Description	Outward Date	To (Organization)	Copies To
19.	Via Mail	Observation on Valve Schedule (package-I Associated Infrastructure) - Jhansi	16-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
20.	AIPL/NMCG/PRAYAG/1122	Observation on Request for considering 1X100% DG Set at Mahewaghat SPS, Basna Nalla SPS and Shastri Bridge SPS of Pkg-I STP's.	17-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
21.	AIPL/NMCG/PRAYAG/1123	Observation on Field Instruments Data sheet (FRC Analyser of Prayagraj STP Project)	17-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
22.	AIPL/NMCG/PRAYAG/1124	Observation on Miscellaneous crane & Hoist drawing/documents for various STP location at Prayagraj STP (Package-I)	17-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
23.	AIPL/NMCG/PRAYAG/1125	Observation on Weir arrangement and I&D works mechanical GAD for Saccha Baba Nala_revised R2	17-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
24.	AIPL/NMCG/PRAYAG/1126	Observation on I & D and weir arrangement mechanical G.A drawing of Kharkuni nala for Naini II STP package I	17-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
25.	AIPL/NMCG/PRAYAG/1127	Observation on Functional Design Specification of Pumping Stations of SPS of Package – I.	17-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
26.	AIPL/NMCG/PRAYAG/1128	Observation on Functional Design Specification of C&I of STP for Package – I of Prayagraj STP Project	17-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj

Sr. No.	PE Transmittal/ Ref No	Description	Outward Date	To (Organization)	Copies To
27.	AIPL/NMCG/PRAYAG/1129	Observation on Gate Documents_STP_Prayagraj_ Package I	18-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
28.	AIPL/NMCG/PRAYAG/1130	Observation on Control System Configuration Diagram of Pumping Stations of SPS of Package – I	18-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
29.	AIPL/NMCG/PRAYAG/1131	Observation on Manual crane & Hoist drawing/documents for various STP location at Prayagraj STP (Package-I)	18-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
30.	AIPL/NMCG/PRAYAG/1132	Observation on Technical Document of lime Handling System of all STPs under Pkg-I	18-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
31.	AIPL/NMCG/PRAYAG/1133	Regarding completion certificate of Milestone IV of Package-I.	20-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
32.	AIPL/NMCG/PRAYAG/1134	Inspection Reports of Package III facilities	20-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
33.	AIPL/NMCG/PRAYAG/1135	Inspection Reports of Package II facilities	21-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
34.	AIPL/NMCG/PRAYAG/1136	Inspection Report of PKG-I facilities	22-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
35.	AIPL/NMCG/PRAYAG/1138	Monthly progress report for the month of July , 2021 of Package - III	24-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
36.	AIPL/NMCG/PRAYAG/1139	Regarding Observation/maintaining of reports/records as per conditions	24-Aug-21	The General Manager, Ganga	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj

Sr. No.	PE Transmittal/ Ref No	Description	Outward Date	To (Organization)	Copies To
		given in Concession Agreement.		Pollution Control Unit	3. PM-E&M - UPJN, Prayagraj
37.	AIPL/NMCG/PRAYAG/1137	Observation on Electrical Design docs for Shastri Bridge SPS : Prayagraj STP	24-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
38.	AIPL/NMCG/PRAYAG/1140	Observation on Valve Schedule (package-I Associated Infrastructure) - Phaphamau STP & Associated Facility	25-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
39.	AIPL/NMCG/PRAYAG/1141	Regarding verification and certification of O&M invoice for 3rd Quarter i.e., May 2021 to July 2021 of Package III	26-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
40.	AIPL/NMCG/PRAYAG/1142	Observation on PLC LOGIC WRITE UP INCLUDING HARDWARE DETAILS OF STP FOR PACKAGE-I OF PRAYAGRAJ STP	27-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
41.	AIPL/NMCG/PRAYAG/1143	Observation on PLC datasheet including GA, IA & Internal wiring of PLC Panels of C&I of SPS of Package – I	27-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
42.	Via Mail	Observation on CIVIL DESIGN & DRAWINGS OF SHASTRI BRIDGE SPS	31-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
43.	AIPL/NMCG/PRAYAG/1144	Observation on Civil Drawings & Design for Jhunsi MPS	31-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
44.	AIPL/NMCG/PRAYAG/1145	Observation on Knife Gate Valves - Datasheet & GAD	31-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj

Sr. No.	PE Transmittal/ Ref No	Description	Outward Date	To (Organization)	Copies To
45.	AIPL/NMCG/PRAYAG/1146	Observation on Valve Schedule (package-I Associated Infrastructure) - Naini II STP & facilities	31-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
46.	AIPL/NMCG/PRAYAG/1147	Observation on FIRE ALARM DATA SHEET FOR STPS & PUMPING STATIONS OF PACKAGE-I	31-Aug-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj

12. Inward Register

List of key design & documents were received by Project Engineer during this period as below;

Sr. No.	PWPL Transmittal reference number	Description	Date	From
1.	PWPL/UPJN/PMCG/324/21	Submission of Trunk sewer & L-section drawing from Basna nalla SPS to Shantipuram MPS	3-Aug-21	Prayagraj water private limited
2.	PWPL/UPJN/PMCG/325/21	Submission of Mechanical Datasheets & GAD of Submersible Mixers of Pkg-I STP	3-Aug-21	Prayagraj water private limited
3.	PWPL/UPJN/PMCG/326/21	Submission of Reinforcement details Valve chamber pit, Parshall flume and Staircase to Tube settler tank	4-Aug-21	Prayagraj water private limited
4.	PWPL/UPJN/PMCG/327/21	Submission of Finalization of Solar Power Plant Scope of works of Pkg-I	5-Aug-21	Prayagraj water private limited
5.	PWPL/UPJN/PMCG/328/21	Submission of Weir arrangement and I&D works mechanical GAD for Saccha Baba Nala	5-Aug-21	Prayagraj water private limited
6.	PWPL/UPJN/PMCG/329/21	Submission of I & D and weir arrangement mechanical G.A drawing of Kharkuni nala for Naini II STP package I	5-Aug-21	Prayagraj water private limited
7.	PWPL/UPJN/PMCG/330/21	Submission of Gate Documents_STP_Prayagraj_Package I	6-Aug-21	Prayagraj water private limited
8.	PWPL/UPJN/PMCG/331/21	Submission of PLC Logic write up including hardware details of STP for Package-I of Prayagraj STP	7-Aug-21	Prayagraj water private limited
9.	PWPL/UPJN/PMCG/332/21	Submission of PLC datasheet including GA, IA & Internal wiring of PLC Panels of C&I of SPS of Package – I	8-Aug-21	Prayagraj water private limited
10.	PWPL/UPJN/PMCG/333/21	Submission of Valve Schedule (package-I Associated Infrastructure)	8-Aug-21	Prayagraj water private limited
11.	PWPL/UPJN/PMCG/334/21	Submission of Request for considering 1X100% DG Set at Mahewaghat SPS, Basna Nalla SPS and Shastri Bridge SPS of Pkg-I STP's	10-Aug-21	Prayagraj water private limited
12.	PWPL/UPJN/PMCG/335/21	Submission of Control System Configuration Diagram of Pumping Stations of SPS of Package – I	14-Aug-21	Prayagraj water private limited

Sr. No.	PWPL Transmittal reference number	Description	Date	From
13.	PWPL/UPJN/PMCG/336/21	Submission of Knife Gate Valves - Datasheet & GAD of Package-I	14-Aug-21	Prayagraj water private limited
14.	PWPL/UPJN/PMCG/337/21	Submission of Valve Schedule (package-I Associated Infrastructure) - Phaphamau STP & Associated Facility	16-Aug-21	Prayagraj water private limited
15.	Via E-Mail (L-333-21)	Submission of Valve Schedule (package-I Associated Infrastructure) - Naini II STP & facilities	16-Aug-21	Prayagraj water private limited
16.	PWPL/UPJN/PMCG/338/21	Submission of Electrical Design docs for Shastri Bridge SPS : Prayagraj STP	16-Aug-21	Prayagraj water private limited
17.	PWPL/UPJN/PMCG/339/21	Submission of Civil Drawings & Design for Jhansi MPS	16-Aug-21	Prayagraj water private limited
18.	PWPL/UPJN/PMCG/341/21	Submission of Datasheet & GAD of Sluice, Butterfly & Check Valves of Package-I	16-Aug-21	Prayagraj water private limited
19.	PWPL/UPJN/PMCG/342/21	Submission of Reinforcement details Valve chamber pit, Parshall flume and Staircase to Tube settler tank	17-Aug-21	Prayagraj water private limited
20.	PWPL/UPJN/PMCG/346/21	Submission of Pipe Schedule for Package I - Naini-II, Phaphamau and Jhansi STP	24-Aug-21	Prayagraj water private limited
21.	PWPL/UPJN/PMCG/347/21	Submission of I & D and weir arrangement mechanical G.A drawing of Kharkuni nala for Naini II STP package I	24-Aug-21	Prayagraj water private limited
22.	PWPL/UPJN/PMCG/348/21	Submission of Civil Design & Drawings of Shastri Bridge SPS - Package-I	26-Aug-21	Prayagraj water private limited
23.	PWPL/UPJN/PMCG/349/21	Submission of Weir arrangement and I&D works mechanical GAD for Saccha Baba Nala	26-Aug-21	Prayagraj water private limited
24.	PWPL/UPJN/PMCG/350/21	Submission of Indoor lighting layout and Calculation for Package-I STP's : Prayagraj STP	28-Aug-21	Prayagraj water private limited

13. EHS targets, Achievement & compliance report for the month of August' 2021

Sr. No.	Goals	Target of the month	Achievement of this Month	Previous Month achievement	Remark
1	Zero total recordable injuries	100%	100%	100%	
2	All personnel Health and Safety inducted	100%	100%	100%	
3	100% incident reporting and investigation	100%	100%	100%	
4	100% adherence of usage of appropriate PPE's at work	100%	100%	100%	

14. Status of statutory permits:

Sr. No.	Applicable Permit	Authority	Quantity	Remarks
Phaphmau Facility (Package - I)				
1	Power connection (During commissioning Period)	Electricity Board	2 No.	Under process towards filing the application. Will be applied before commissioning stage. Location: - 1. At Phaphmau STP 2. At Basna Nalla SPS
2	Consent to Establish	State Pollution Control Board (SPCB)	1 No.	Received
3	Tree cutting	Forest Department	88 No.	Received NOC From Forest Dept for Cutting 88 Nos. of trees.
4	Road cutting & crossing	Public Works Department	NA	Not Required
5	Railway Crossing	Commissioner Railway Safety	NA	Not Required
6	National Highway cutting & crossing	National Highway Authority of India	1 No.	1. License fee & BG amount of 6.67 Cr. & 3.26 Lacs respectively deposited by UPJN to NH authority on 9th Jul'21. 2. Revised estimate charges against road restoration & maintenance charges of Rs 9.32 Cr received by UPJN from NH vide Letter-1115/NH-96/330 dated 5th Aug'21. 3. Letter sent to ED-Project for release of fund vide letter

Sr. No.	Applicable Permit	Authority	Quantity	Remarks
				No.2044/PWPL(Adani)/414 Dated 11th Aug'21.
7	Revenue Road cutting & crossing	Panchayat/Local Authority	NA	Not Required
8	Obtaining No Objection Certificate for various sewerage facilities under the ULB for handing them over to JN	ULB/District Administration	NA	Not Required
9	Construction of Weirs/pipeline crossings	Irrigation department/ULB	2 No.	Under process towards filing the application, Construction of 2 no. of Weir at; 1. Basna Nalla Drain Tapping 2. Shantipuram Nalla Tapping
10	Approach Road to new Facilities	Forest Department/Panchayat/Local Authority/Irrigation Department	NA	Not Required
11	Consent to operate for Existing Facilities	ULB and SPCB	1 No.	Will be processed during commissioning stage.
Naini-II Facility (Package - I)				
1	Power connection (During commissioning Period)	Electricity Board	3 No.	Under process towards filing the application. Will be applied before commissioning stage. Location: - 1. At Naini-II STP 2. At Mahewaghat SPS 3. At Mawaiya SPS
2	Consent to Establish	State Pollution Control Board (SPCB)	1 No.	Received
3	Tree cutting	Forest Department	-	Under process towards filing the application. Finalized for laying of trunk sewer line route alignment is under progress.
4	Road cutting & crossing	Public Works Department	1 No.	Already applied on dated 19.10.2020 for STP main line. NOC received from Mahewaghat SPS to Naini-II MPS on 08th Dec'2020.

Sr. No.	Applicable Permit	Authority	Quantity	Remarks
5	Railway Crossing	Commissioner Railway Safety	1 No.	Permission received from railway vide letter No 86-W/KM/821/L-PRYJ-NYN DATED 16 th July 2021'
6	National Highway cutting & crossing	National Highway Authority of India	NA	NA
7	Revenue Road cutting & crossing	Panchayat/Local Authority	1 No.	Under process towards filing the application to concern authority.
8	Obtaining No Objection Certificate for various sewerage facilities under the ULB for handing them over to JN	ULB/District Administration	NA	Not Required
9	Construction of Weirs/pipeline crossings	Irrigation department/ULB	6 No.	Under process towards filing the application, Construction of Weir at 6 nos. Drains. Location: - 1. Mawaiya Drain 2. Sachcha Baba Aashram Drain Tapping 3. Kharkhauni Drain 4. Mahewaghat Nalla-1 5. Mahewaghat Nalla-2 6. Mahewaghat Nalla-3
10	Approach Road to new Facilities	Forest Department/Panchayat/Local Authority/Irrigation Department	NA	Not Required
11	Consent to operate for Existing Facilities	ULB and SPCB	1 No.	Will be processed during commissioning stage
Jhunsi Facility (Package - I)				
1	Power connection (During commissioning Period)	Electricity Board	2 No.	Under process towards filing the application. Will be applied before commissioning stage. Location: - 1. Jhunsi STP 2. Shastribridge SPS
2	Consent to Establish	State Pollution Control Board (SPCB)	1 No.	Received
3	Tree cutting	Forest Department	NA	Not Required




Sr. No.	Applicable Permit	Authority	Quantity	Remarks
4	Road cutting & crossing	Public Works Department	1 No.	Under process towards filing the application to concern authority. Location: - Trivenipuram ADA Colony colony to Shashtri Bridge SPS
5	Railway Crossing	Commissioner Railway Safety	1 No.	UPJN Received letter from DRM-Varanasi Office (Letter No: W/98-13/2020/71/W-2 Dated 19th Jul'21) for payment of railway charges. In this Context, GM-UPJN has sent letter to ED Project, New Delhi for deposition of same. Permit will be received once amount is deposited with DRM-Varanasi.
6	National Highway cutting & crossing	National Highway	1 No.	Under process towards filing the application to concern authority. Location: - Underpass Shashtri Bridge
7	Revenue Road cutting & crossing	Panchayat/Local Authority	1 No.	Under process towards filing the application to concern authority. Location: - Shastri Bridge SPS to Jhunsu MPS
8	Obtaining No Objection Certificate for various sewerage facilities under the ULB for handing them over to UPJN	ULB/District Administration	NA	Not Required
9	Construction of Weirs/pipeline crossings	Irrigation department/ULB	13 No	Under process towards filing the application, Construction of Weir at 13 nos. Drains. Locations: - 1. Augharwa Nalla 2. Bhola Mandir Nalla 3. Gangoli Shivala Nalla I 4. Gangoli Shivala Nalla II 5. Savitri Nagar Nalla 6. Dham Nalla 7. Shastri bridge Nalla 8. Triveni Marg Nalla I 9. Triveni Marg Nalla II 10. Ulta Quila Nalla I 11. Ulta Quila Nalla II 12. Havelia Nalla 13. Lakkar Nalla



Sr. No.	Applicable Permit	Authority	Quantity	Remarks
10	Approach Road to new Facilities	Forest Department/Panchayat/ Local Authority/Irrigation Department	NA	Not Required
11	consent to operate for Existing Facilities	ULB and SPCB	1 No	Will be processed during commissioning stage

15. Plant & Machinery Status

Machinery Details											
Sr. No.	Machinery Name	Facility Name									
		PHAPHA MAU	Naini-II	Jhansi	Naini-I	Rajapur	Salori	Numaya dahi	Ponghat	Kodra	Total
1.	JCB		3	2	-	-	-	-	-	-	5
2.	Dumper	-	-	-	-	-	-	-	-	-	0
3.	Poclain	-	4	1	-	-	-	-	-	-	5
4.	Ajax	-	3	1	-	-	-	-	-	-	4
5.	Hydra	-		1	1	-	-	-	-	-	2
6.	Roller	-	-	1	-	-	-	-	-	-	1
7.	Submersible Pump	-	23	3	-	-	-	-	-	-	26
8.	Diesel Pump 5 HP	1	7	1	1	-	-	-	-	-	10
9.	5KV generator	1	5	2	-	-	-	-	-	-	8
10.	Total Station	-	2	1	-	-	-	-	-	-	3
11.	Water tanker	1	3	-	-	-	-	-	-	-	4
12.	Auto level	2	7	2	-	-	-	-	-	-	11
13.	Mixing machine	1	4	1	-	-	-	-	-	-	6
14.	Vibrator	3	12	6	-	-	-	-	-	-	21
15.	Tractor	-	6	1	-	-					7
16.	Concrete Chipping machine	1	5	1	-	-	-	-	-		7
17.	Welding Machine	1	4	2	2	-	-	-	-	-	9
18.	Grinding Machine	2	4	2	2	-	-	-	-	-	10
19.	Gas Cutting Set	-	2	1	1	-	-	-	-	-	4
20.	Chain Saw Machine	-	-	-	-	-	-	-	-	-	0
21.	Chain Block	0	0	1	2	-	-	-	-	-	3
22.	RM 800	-	-	-	-	-	-	-	-	-	-
23.	Plywood Cutting Machine	2	7	3	-	-	-	-	-	-	12
24.	Steel Cutting Machine	3	6	3	-	-	-	-	-	-	12
	Total	18	107	36	9	-	-	-	-	-	170

16. Operation and Maintenance report for August month –

<div>  <div> Naini-I STP, 80 MLD STP at Prayagraj INLET FLOW & QUALITY REPORT </div>  </div>																
Date	Daily Feed Quantity MLD (Design- 80 MLD)		pH		BOD (mg/l)		COD (mg/l)		TSS (mg/l)		FECAL COLIFORM		FRC	DEWATERED SLUDGE		REMARKS
	M3	MLD	Inlet pH (Design- <9)	Final BOD (Design- 6.5 to 9.0)	Inlet BOD (Design- <250 mg/l)	Final BOD (Design - <30 mg/l)	Inlet COD (Design- <500 mg/l)	Final COD (Design - <50 mg/l)	Inlet TSS (Design- <500 mg/l)	Final TSS (Design - <50 mg/l)	Inlet (Design - NA)	Final (Design - <1000 MPN/100 ml)	Final (Design - 0.2 mg/l)	Outlet Concentra- tion (>20%)	Fecal Coliform (20,00,000 MPN/gTS)	
1-Aug-21	107250	107.25	7.45	7.53	126.00	21.00	288.00	36.00	267.00	27.00	NA	700	0.2	22.70	1400000.00	1) Sample for sludge testing is taken from sludge drying beds hence the value of sludge consistency cannot be deemed as accurate. 2) Plant Availability is 100%
2-Aug-21	85220	85.22	7.31	7.49	132.00	25.00	316.00	44.00	302.00	29.00	NA	600	0.2	22.70	1300000.00	
3-Aug-21	84140	84.14	7.43	7.51	129.00	24.00	304.00	40.00	291.00	26.00	NA	500	0.3	23.40	1200000.00	
4-Aug-21	88110	88.11	7.39	7.61	111.00	19.00	296.00	36.00	282.00	27.00	NA	700	0.2	24.40	1400000.00	
5-Aug-21	95190	95.19	7.28	7.43	120.00	21.00	308.00	44.00	281.00	30.00	NA	600	0.2	22.50	1300000.00	
6-Aug-21	91620	91.62	7.34	7.48	102.00	19.00	292.00	48.00	286.00	28.00	NA	700	0.3	24.80	1400000.00	
7-Aug-21	46630	46.63	7.4	7.53	96.00	17.00	284.00	40.00	274.00	32.00	NA	500	0.2	22.9	1200000	1) Sample for sludge testing is taken from sludge drying beds hence the value of sludge consistency cannot be deemed as accurate. 2) STP was stopped around 12 PM as river water has come inside STP due to flood.
8-Aug-21	Plant is in shutdown due to flood															1) Plant was shut down as river water has come inside the STP due to flood. 2) Raw Sewage pumped from Gaughat MPS & Chachamulla SPS were bypassed. 3) Electricity supply for the plant was cut off. 4) Equipment in Treated effluent pump house, Return sludge pump house, chlorination unit, mail MCC room, Solar panel room, Control panel room of DG, Gas holder, Panel room of 20 MLD stream were shutdown/dismantled as river water has reached these units.
9-Aug-21																
10-Aug-21																
11-Aug-21																
12-Aug-21																
13-Aug-21																
14-Aug-21																
15-Aug-21																
16-Aug-21																
17-Aug-21																
18-Aug-21	7550	7.55	7.19	7.41	139.00	49.00	340.00	92.00	302.00	85.00	NA	-	-	-	-	1) Functioning of STP was restored on 18.08.2021 at 8 PM. 2) Reinstallation of chlorine unit was not started yet. 3) Sludge sampling was not done as sludge generation was not started and drying beds are wet due to flood. 4) KPIs are out of range due to new biomass generation in process units after restart of STP.
19-Aug-21	75270	75.27	7.29	7.21	143.00	47.00	312.00	84.00	287.00	62.00	NA	-	-	-	-	1) Reinstallation of chlorine unit was not started yet. 2) Sludge sampling was not done as sludge generation was not started and drying beds are wet due to flood. 3) KPIs are out of range due to new biomass generation in process units after restart of STP.
20-Aug-21	82820	82.82	7.33	7.41	136.00	45.00	304.00	96.00	284.00	72.00	NA	-	-	-	-	1) Reinstallation of chlorine unit was in progress. 2) Sludge sampling was not done as sludge generation was not started and drying beds are wet due to flood. 3) KPIs are out of range due to new biomass generation in process units after restart of STP.
21-Aug-21	122880	122.88	7.28	7.43	133.00	38.00	296.00	92.00	278.00	76.00	NA	-	-	-	-	1) Sample for sludge testing is taken from sludge drying beds hence the value of sludge consistency cannot be deemed as accurate. 2) KPIs are out of range due to new biomass generation in process units after restart of STP.
22-Aug-21	103980	103.98	7.31	7.39	129.00	41.00	304.00	88.00	286.00	74.00	NA	-	-	-	-	
23-Aug-21	98620	98.62	7.33	7.42	136.00	45.00	320.00	92.00	294.00	76.00	NA	-	-	-	-	
24-Aug-21	106980	106.98	7.44	7.49	143.00	42.00	328.00	76.00	302.00	68.00	NA	-	-	-	-	
25-Aug-21	104180	104.18	7.39	7.46	139.00	39.00	324.00	60.00	288.00	53.00	NA	700	0.2	-	1400000.00	1) Reinstallation of chlorine unit is completed and unit is started. 2) Sludge sampling was started but testing of sludge concentration was not done as drying beds were wet due to flood. 3) KPIs are out of range due to new biomass generation in process units after restart of STP.
26-Aug-21	100410	100.41	7.44	7.49	133.00	35.00	304.00	52.00	284.00	50.00	NA	600	0.3	-	1700000.00	1) Sludge sampling was started but testing of sludge concentration was not done as drying beds were wet due to flood. 2) KPIs are out of range due to new biomass generation in process units after restart of STP.
27-Aug-21	102760	102.76	7.36	7.41	129.00	40.00	312.00	68.00	280.00	58.00	NA	500	0.2	-	1400000.00	1) Sample for sludge testing is taken from sludge drying beds hence the value of sludge consistency cannot be deemed as accurate. 2) KPIs are out of range due to new biomass generation in process units after restart of STP.
28-Aug-21	108860	108.86	7.53	7.62	136.00	44.00	324.00	64.00	296.00	59.00	NA	400	0.3	24.80	1700000.00	
29-Aug-21	102840	102.84	7.36	7.42	139.00	43.00	332.00	72.00	288.00	56.00	NA	600	0.2	24.90	1300000.00	
30-Aug-21	107540	107.54	7.41	7.51	133.00	41.00	328.00	68.00	302.00	54.00	NA	700	0.3	24.80	1100000.00	
31-Aug-21	94970	94.97	7.36	7.46	129.00	39.00	320.00	60.00	303.00	53.00	NA	500	0.2	24.10	1700000.00	
Average	91324.76	91.32	7.36	7.46	129.19	34.95	311.24	64.38	288.43	52.14	NA	592.86	0.24	23.82	1392857.14	
Source:	Logbook of Laboratory at Sewage Treatment Plant															

<div>  <div> Rajapur STP, 60 MLD STP at Prayagraj INLET FLOW & QUALITY REPORT </div>  </div>																
Date	Daily Feed Quantity MLD (Design- 60 MLD)		pH		BOD (mg/l)		COD (mg/l)		TSS (mg/l)		FECAL COLIFORM		FRC	DEWATERED SLUDGE		REMARKS
	M3	MLD	Inlet pH (Design- <9)	Final pH (Design- 6.5 to 9.0)	Inlet BOD (Design- <250 mg/l)	Final BOD (Design - <20 mg/l)	Inlet COD (Design- <500 mg/l)	Final COD (Design - <30 mg/l)	Inlet TSS (Design- <500 mg/l)	Final TSS (Design - <30 mg/l)	Inlet (Design - NA)	Final (Design - <1000 MPN/100 ml)	Final (Design - 0.2 mg/l)	Outlet Concentrati on (>20%)	Fecal Coliform (20,00,000 MPN/gTS)	
1-Aug-21	94810	94.81	7.38	7.7	115.00	16.00	292.00	44.00	272.00	27.00	NA	700	0.2	21.48	1400000.00	1) Sample for sludge testing is taken from sludge drying beds hence the value of sludge consistency cannot be deemed as accurate. 2) Plant Availability is 100%
2-Aug-21	81800	81.80	7.35	7.68	120.00	15.00	272.00	40.00	284.00	25.00	NA	400	0.2	22.79	1300000.00	1) Sample for sludge testing is taken from sludge drying beds hence the value of sludge consistency cannot be deemed as accurate. 2) Inlet gate for Rajapur SPS is closed at 12:20 PM on 02.08.2021
3-Aug-21	71460	71.46	7.5	7.65	130.00	14.00	312.00	40.00	278.00	28.00	NA	500	0.3	23.46	1400000.00	1) Sample for sludge testing is taken from sludge drying beds hence the value of sludge consistency cannot be deemed as accurate.
4-Aug-21	70360	70.36	7.46	7.68	110.00	16.00	288.00	44.00	265.00	26.00	NA	600	0.2	21.52	1700000.00	2) Rajapur SPS is in shutdown due to flood.
5-Aug-21	32050	32.05	7.47	7.65	105.00	15.00	272.00	36.00	232.00	24.00	NA	400	0.2	23.40	1100000.00	1) Sample for sludge testing is taken from sludge drying beds hence the value of sludge consistency cannot be deemed as accurate. 2) Rajapur SPS is in shutdown due to flood. 3) Mumfordganj SPS was shutdown at 9AM on 05.08.2021 due to flood and scour valve in rising main from Mumfordganj SPS to Rajapur STP was opened.
6-Aug-21	4020	4.02	Plant is in shutdown due to flood.													1) STP was shut down as percolation of water started inside STP from ground due to rise in river level because of flood. 2) Electricity supply was cut off and DG supply was started. 3) Water accumulated due to percolation and leakage from inlet gate was pumped regularly through flood pumping station. 4) Sludge was not removed from UASBs as all valve chambers were submerged in water.
7-Aug-21	3470	3.47														
8-Aug-21	8590	8.59														
9-Aug-21	12650	12.65														
10-Aug-21	14790	14.79														
11-Aug-21	31630	31.63														
12-Aug-21	37370	37.37														
13-Aug-21	30160	30.16														
14-Aug-21	19510	19.51														
15-Aug-21	32500	32.50														
16-Aug-21	11890	11.89														
17-Aug-21	6710	6.71	7.5	7.64	100.00	23.00	272.00	60.00	210.00	32.00	NA	1200	0.4	-	-	1) Functioning of STP was restored in 17.08.2021. 2) Sludge sampling was not done as sludge generation was not started and drying beds are wet due to flood. 3) KPIs are out of range due to new biomass generation in process units after restart of STP. 4) Removal of sand bags from inlet pipe of Rajapur SPS is in progress.
18-Aug-21	45040	45.04	7.48	7.7	105.00	22.00	288.00	52.00	252.00	30.00	NA	900	0.3	-	-	1) Functioning of STP was restored in 18.08.2021. 2) Sludge sampling was not done as sludge generation was not started and drying beds are wet due to flood. 3) KPIs are out of range due to new biomass generation in process units after restart of STP. 4) Mumfordganj SPS was started on 18.08.2021 at 12:10 PM. 5) Removal of sand bags from inlet pipe of Rajapur SPS is in progress.
19-Aug-21	76740	76.74	7.4	7.65	110.00	22.00	292.00	56.00	262.00	32.00	NA	900	0.4	-	-	1) Sludge sampling was not done as sludge generation was not started and drying beds are wet due to flood. 2) KPIs are out of range due to new biomass generation in process units after restart of STP.
20-Aug-21	74640	74.64	7.42	7.68	120.00	20.00	304.00	52.00	278.00	29.00	NA	700	0.3	-	-	3) Removal of sand bags from inlet pipe of Rajapur SPS is in progress.
21-Aug-21	79950	79.95	7.45	7.65	125.00	18.00	296.00	48.00	262.00	27.00	NA	500	0.2	-	-	1) Sample for sludge testing is taken from sludge drying beds hence the value of sludge consistency cannot be deemed as accurate.
22-Aug-21	75080	75.08	7.43	7.68	130.00	19.00	308.00	44.00	272.00	26.00	NA	600	0.3	-	-	2) Removal of sand bags from inlet pipe of Rajapur SPS is in progress.
23-Aug-21	85580	85.58	7.42	7.71	135.00	17.00	312.00	44.00	282.00	28.00	NA	500	0.2	-	-	1) Sample for sludge testing is taken from sludge drying beds hence the value of sludge consistency cannot be deemed as accurate. 2) Removal of sand bags from inlet pipe of Rajapur SPS is completed and SPS was running at full capacity.
24-Aug-21	93620	93.62	7.43	7.75	115.00	18.00	304.00	48.00	284.00	25.00	NA	400	0.3	23.45	1300000.00	1) Sample for sludge testing is taken from sludge drying beds hence the value of sludge consistency cannot be deemed as accurate. 2) Plant Availability is 100%
25-Aug-21	93390	93.39	7.4	7.69	120.00	19.00	312.00	44.00	272.00	27.00	NA	400	0.2	21.25	1400000.00	
26-Aug-21	81190	81.19	7.43	7.68	125.00	16.00	320.00	40.00	292.00	26.00	NA	700	0.3	21.54	1700000.00	
27-Aug-21	75730	75.73	7.38	7.7	130.00	18.00	328.00	48.00	310.00	28.00	NA	600	0.2	22.68	1400000.00	
28-Aug-21	78510	78.51	7.37	7.69	125.00	17.00	324.00	44.00	342.00	25.00	NA	700	0.2	23.32	1400000.00	
29-Aug-21	79080	79.08	7.40	7.71	135.00	17.00	320.00	40.00	305.00	27.00	NA	500	0.4	21.58	1300000.00	
30-Aug-21	76760	76.76	7.42	7.67	130.00	15.00	328.00	48.00	278.00	28.00	NA	700	0.2	22.74	1700000.00	
31-Aug-21	79890	79.89	7.38	7.69	125.00	18.00	316.00	40.00	262.00	26.00	NA	400	0.3	21.60	1300000.00	
Average	53515.16	53.52	7.42	7.68	120.50	17.75	303.00	45.60	274.70	27.30	NA	615.00	0.27	22.37	1415384.62	
Source:	Logbook of Laboratory at Sewage Treatment Plant															