

**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
February 2021**



Executing Agency

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



Funding Agency

National Mission for Clean
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Concessionaire

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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 industrialisation 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**;

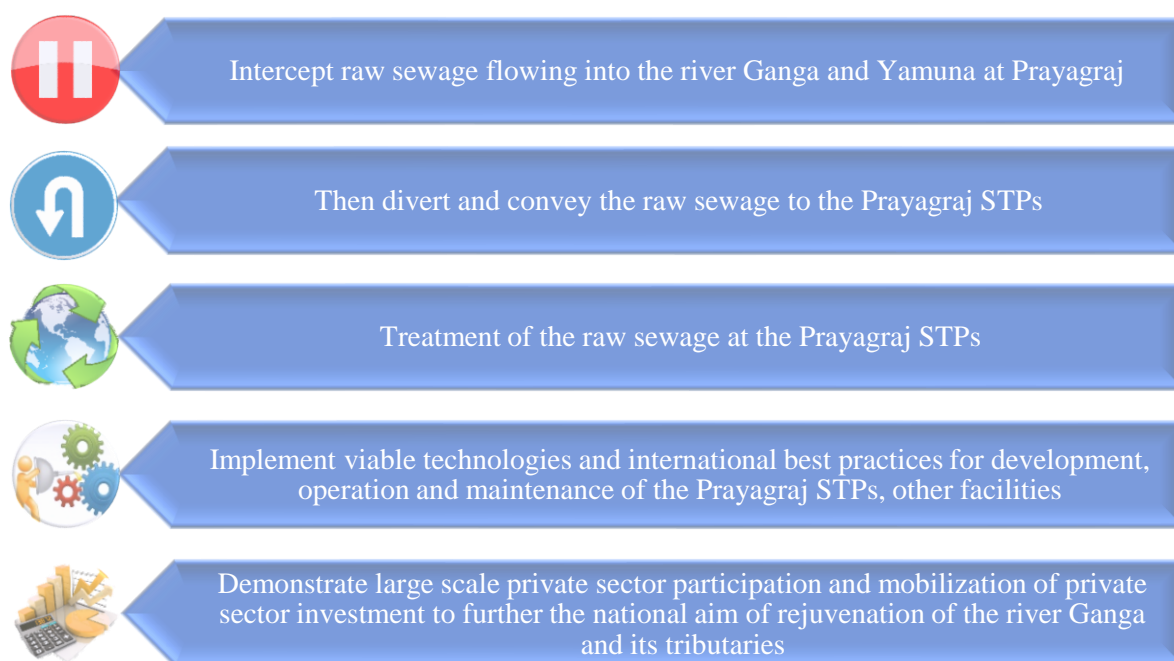


Figure 1 : Objectives of NMCG and UP JAL NIGAM

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

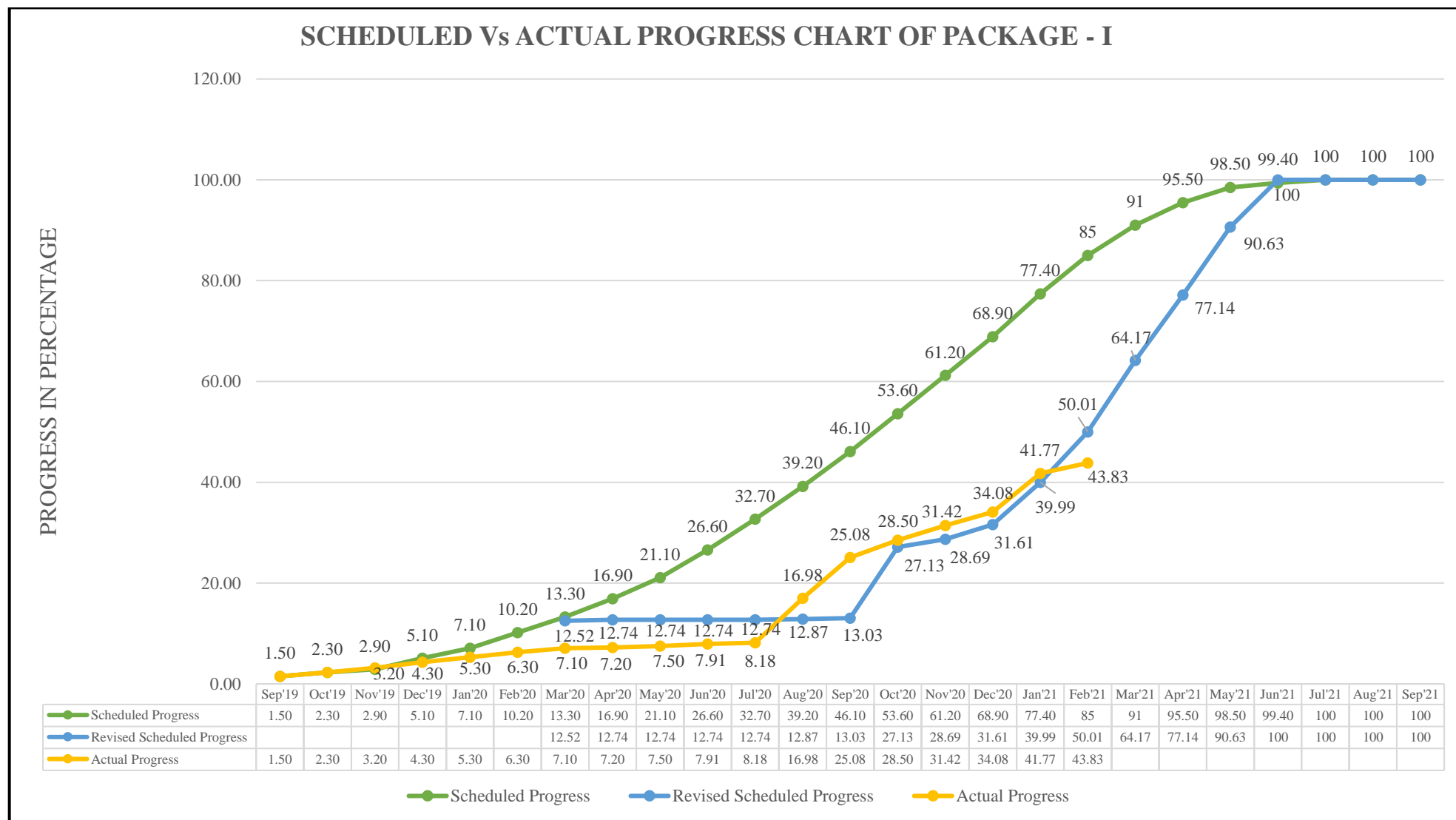
The Project components details of each Facility, their grouping in each Package is presented below

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



7.1.5 Physical Activities in February 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"> FCR tank wall shuttering 3rd lift above sandwich slab of 3 no. wall completed.
2.	Staff Quarter	01 No.	<ul style="list-style-type: none"> 1st floor slab reinforcement & shuttering under progress.
3.	MPS	01 No.	<ul style="list-style-type: none"> Excavation under progress. Bore well and dewatering under progress.
4.	Tube Settler	01 No.	<ul style="list-style-type: none"> Reinforcement laying & binding work for Raft completed.
5.	Basna Nall SPS	01 No.	<ul style="list-style-type: none"> Excavation work of SPS under progress.
NAINI – II STP			
6.	FCR tank	01 No.	<ul style="list-style-type: none"> FCR Tank-A - 1st lift of 3rd stream & 3rd lift of 1st and 2nd stream wall shuttering under. Tank B sandwich slab bar bending under progress for Stream 1 and Stream 2.
7.	Tube Settler	01 No.	<ul style="list-style-type: none"> Reinforcement laying & binding work of raft Under Progress
8.	Staff Quarter	01 No.	<ul style="list-style-type: none"> RCC of Grade slab, 1st roof slab and 2nd roof slab Completed. Brick works under progress.
9.	MPS	01 No.	<ul style="list-style-type: none"> 20 no. Borewell completed and dewatering and Excavation work under progress.
10.	Boundary Wall	01 No.	<ul style="list-style-type: none"> Approx. 74% Boundary Wall work is completed.
11.	DI Pipeline from Mahewaghat to Naini-II (300mm Dia.)	700 Rmt.	<ul style="list-style-type: none"> 680 Rmt. Laying Jointing, Backfilling completed. Hydro-Testing and Road Restoration work pending.
12.	DI Pipeline from Mawaiya Nalla to Naini-II (800mm Dia.)	700 Rmt.	<ul style="list-style-type: none"> 375 Rmt. Laying Jointing, Backfilling completed. Hydro-Testing and Road Restoration work pending.
13.	RCC 600 dia. From mahewaghat to Naini-II	4490	<ul style="list-style-type: none"> 290 Rmt Laying work completed, and balance work under progress.
JHUNSI STP			

14.	FCR tank	01 No.	<ul style="list-style-type: none"> RCC of Sandwich Slab Completed. RCC of Wall above sandwich Slab is in progress.
15.	Tube Settler	01 No.	<ul style="list-style-type: none"> Rubble soling work completed. Compaction & rolling work completed.
16.	Security Cabin	01 No.	<ul style="list-style-type: none"> RCC work of Plinth Beam & Grade Slab is completed. Column Above Plinth Beam is completed.
17.	Staff Quarter	01 No.	<ul style="list-style-type: none"> Plinth beam grade slab completed. Column Above Plinth Beam is Completed. Floor beam & floor slab shuttering 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	15-06-21				
4.	Excavation work	01-12-19	15-03-20	100%	100%	0%	100%
5.	Boulder filling work	15-03-20	15-07-20	100%	100%	0%	100%
6.	PCC work	01-10-20	25-10-20	100%	100%	0%	100%
7.	RCC upto completion	01-10-20	30-04-21	70%	65%	12%	77%
8.	Other Misc Works	01-04-21	15-06-21				
9.	Hydrotesting	16-04-21	30-04-21				
10.	Tube settler, CCT & Sludge storage Tank	16-01-21	30-04-21				
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	30-04-21				
14.	Other Misc Works	01-03-21	19-04-21				
15.	Hydrotesting	20-04-21	30-04-21				
16.	Main Process Building	01-02-21	15-06-21				
17.	Excavation	01-02-21	28-02-21	100%	100%	0%	100%
18.	Rubble soling/ Stone filling work	01-02-21	28-02-21				
19.	PCC	01-02-21	28-02-21				
20.	Structure completion (Expect finishing works)	01-02-21	15-06-21				
21.	Other Misc Works	01-05-21	15-06-21				
22.	Hydrotesting	01-06-21	15-06-21				

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)
23.	Basana Nala SPS and I&D Works	10-10-20	31-05-21				
24.	Excavation work	01-01-21	28-02-21	100%	100%	0%	100%
25.	PCC	01-02-21	10-03-21				
26.	RCC upto completion	16-03-21	31-05-21				
27.	Hydrotesting	01-05-21	31-05-21				
28.	Boundary wall	10-10-20	27-02-21				
29.	Staff quarter	01-03-21	31-05-21				
30.	Other Misc Works	01-03-21	31-05-21				
31.	Shantipuram MPS and I&D Works	01-09-20	31-05-21				
32.	Excavation work	01-11-20	31-03-21	75%	30%	60%	90%
33.	PCC	01-03-21	15-03-21				
34.	RCC work upto completion	16-03-21	31-05-21				
35.	Other Misc Works	01-04-21	31-05-21				
36.	Hydrotesting	01-05-21	31-05-21				
37.	Staff quarter	01-09-20	31-03-21	60%	37%	1%	38%
38.	Pipe laying (Rising Main & Gravity Main)	01-03-21	15-06-21				
39.	Rising main	01-04-21	15-06-21				
40.	Excavation, Laying & Jointing, Backfilling/ Restoration works	01-04-21	15-06-21				
41.	Hydrotesting	01-06-21	15-06-21				
42.	Gravity Main	01-03-21	31-05-21				
43.	Excavation, Laying & Jointing, Backfilling/ Restoration works	01-03-21	20-05-21				
44.	Hydrotesting	21-05-21	31-05-21				
45.	Other works	01-01-20	15-06-21				
46.	Site office (Temporary office)	01-01-20	31-01-20	100%	100%	0%	100%
47.	Other misc works (Boundary Wall, Road, rain water harvesting, Land scaping etc)	01-04-21	15-06-21				
48.	Mechanical Erection- STP unit	01-05-21	15-06-21				
49.	Pumps	01-05-21	15-06-21				

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)
50.	Lamella clarifier/ Tube settler	01-05-21	15-06-21				
51.	Grit removal system	01-05-21	15-06-21				
52.	Blowers & Diffuser	01-05-21	15-06-21				
53.	Fire fighting System	01-05-21	15-06-21				
54.	Screens	01-05-21	15-06-21				
55.	Piping, Valves & Gates	01-05-21	15-06-21				
56.	Chlorination	01-05-21	15-06-21				
57.	Media Installation/ Bio module	01-05-21	15-06-21				
58.	Other misc. work	01-05-21	15-06-21				
59.	Mechanical Erection- SPS & MPS	01-05-21	15-06-21				
60.	Pumps	01-05-21	15-06-21				
61.	Screens	01-05-21	15-06-21				
62.	Piping, Valves & Gates	01-05-21	15-06-21				
63.	Other misc. work	01-05-21	15-06-21				
64.	Electrical and C&I- STP Unit	01-04-21	15-06-21				
65.	Transformer Installation	01-05-21	15-06-21				
66.	HT/LT Panel erection	01-05-21	15-06-21				
67.	Instrumentation works	01-05-21	15-06-21				
68.	CCTV	01-05-21	15-06-21				
69.	Cable Laying	01-05-21	15-06-21				
70.	PLC Panel & Online monitoring system	01-05-21	15-06-21				
71.	Solar Panel	01-04-21	15-06-21				
72.	DG Installation	01-05-21	15-06-21				
73.	Other misc. work	01-05-21	15-06-21				
74.	Electrical and C&I- SPS & MPS	01-05-21	15-06-21				
75.	Transformer Installation	01-05-21	15-06-21				
76.	HT/LT Panel Erection	01-05-21	15-06-21				
77.	CABLE LAYING	01-05-21	15-06-21				
78.	DG Installation	01-05-21	15-06-21				
79.	PLC Panel & Online monitoring system	01-05-21	15-06-21				
80.	Other misc. work	01-05-21	15-06-21				
81.	Commissioning of Mech., Electrical and C&I	01-06-21	15-06-21				

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)
82.	Trial Run, Final Inspection and COD	16-06-21	15-09-21				
83.	Trial Run and Final Inspection	16-06-21	14-09-21				
84.	COD	14-09-21	15-09-21				
85.	Erection Commissioning, Trial Run and COD of Naini-II (42 MLD) & Associated works						
86.	Erection Work						
87.	Removal of Shurbes	01-01-20	28-02-20	100%	100%	0%	100%
88.	FCR tank unit	01-02-20	20-04-21				
89.	Excavation work	01-02-20	15-03-20	100%	100%	0%	100%
90.	Boulder filling work	01-10-20	25-10-20	100%	100%	0%	100%
91.	PCC work	01-11-20	30-11-20	100%	100%	0%	100%
92.	RCC work upto completion	01-12-20	20-04-21	55%	53%	7%	60%
93.	Other Misc Works	01-04-20	31-05-20				
94.	Hydrotesting	21-04-20	30-04-20				
95.	Tube settler, CCT & Sludge storage Tank	16-01-21	31-05-21				
96.	Earth work & Boulder filling work	16-01-21	31-01-21	100%	100%	0%	100%
97.	PCC work	16-01-21	31-01-21	100%	100%	0%	100%
98.	RCC work upto completion	01-02-21	20-04-21				
99.	Other Misc Works	01-04-21	31-05-21				
100.	Hydrotesting	21-04-21	30-04-21				
101.	Main Process Building	01-01-21	31-05-21				
102.	Excavation	01-01-21	31-01-21	100%	70%	10%	80%
103.	Rubble soling/ Stone filling work	01-01-21	15-02-21	100%	0%	0%	0%
104.	PCC	16-02-21	28-02-21				
105.	Structure completion (Expect finishing works)	16-02-21	15-05-21				
106.	Other Misc Works	01-04-21	31-05-21				
107.	Hydrotesting	16-05-21	31-05-21				
108.	Mawaiya SPS and I&D work	01-03-21	15-06-21				
109.	Excavation work	01-03-21	02-04-21	0%	0%	6%	6%
110.	PCC	03-04-21	15-04-21				
111.	RCC WORK upto completion	16-04-21	05-06-21				

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)
112.	Hydrotesting	06-06-21	15-06-21				
113.	Boundary wall	01-03-21	31-05-21				
114.	Staff quarter	01-03-21	31-05-21				
115.	I&D Other misc works	01-04-21	31-05-21				
116.	Mahewaghat SPS and I&D work	01-03-21	31-05-21				
117.	Excavation work	01-03-21	09-04-21	0%	0%	75%	75%
118.	PCC	10-04-21	15-04-21				
119.	RCC Work upto completion	16-04-21	20-05-21				
120.	Other finishing work	01-04-21	31-05-21				
121.	Hydrotesting	21-05-21	31-05-21				
122.	Boundary wall	01-03-21	31-05-21				
123.	Staff quarter	01-03-21	30-04-21				
124.	I&D Other misc works	01-03-21	31-05-21				
125.	Naini-II MPS and I&D work	26-10-20	31-05-21				
126.	Excavation work	16-01-21	31-03-21	90%	20%	20%	40%
127.	PCC	01-04-21	16-04-21				
128.	RCC Work upto completion	17-04-21	15-05-21				
129.	Other finishing work	01-04-21	31-05-21				
130.	Hydrotesting	16-05-21	31-05-21				
131.	Staff quarter	26-10-20	31-05-21	35%	36%	24%	60%
132.	I&D Other misc works	01-03-21	31-05-21				
133.	Pipe laying (Rising Main & Gravity Main)	01-02-21	31-05-21				
134.	Rising main	01-02-21	31-05-21				
135.	Excavation, Laying & Jointing, Backfilling/ Restoration works	01-02-21	15-05-21				
136.	Hydrotesting	16-05-21	31-05-21				
137.	Gravity Main	01-03-21	31-05-21				
138.	Excavation, Laying & Jointing, Backfilling/ Restoration works	01-03-21	15-05-21				
139.	Hydrotesting	16-05-21	31-05-21				
140.	Other works	01-01-20	15-06-21				
141.	Site office (Temporary office)	01-01-20	31-01-21	100%	100%	0%	100%

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)
142.	Other misc works (Boundary Wall, Road, rain water harvesting, Land scaping etc)	01-07-20	15-06-21	0%	34%	6%	40%
143.	Mechanical Erection-STP unit	01-05-21	15-06-21				
144.	Pumps	01-05-21	15-06-21				
145.	Lamella clarifier/ Tube settler	01-05-21	15-06-21				
146.	Grit removal system	01-05-21	15-06-21				
147.	Piping, Valves & Gates	01-05-21	15-06-21				
148.	Fire fighting System	01-05-21	15-06-21				
149.	Chlorination	01-05-21	15-06-21				
150.	Blowers & Diffuser	01-05-21	15-06-21				
151.	screens	01-05-21	15-06-21				
152.	Media Installation/ Bio module	01-05-21	15-06-21				
153.	Other misc. work	01-05-21	15-06-21				
154.	Mechanical Erection-SPS & MPS	01-05-21	15-06-21				
155.	Pumps	01-05-21	15-06-21				
156.	Screens	01-05-21	15-06-21				
157.	Piping, Valves & Gates	01-05-21	15-06-21				
158.	Other misc. work	01-05-21	15-06-21				
159.	Electrical and C&I- STP Unit	01-05-21	15-06-21				
160.	Transformer Installation	01-05-21	15-06-21				
161.	HT/LT panel erection	01-05-21	15-06-21				
162.	PLC Panel & Online monitoring system	01-05-21	15-06-21				
163.	Instrumentation works	01-05-21	15-06-21				
164.	CCTV	01-05-21	15-06-21				
165.	CABLE LAYING	01-05-21	15-06-21				
166.	Solar Panel	01-05-21	15-06-21				
167.	Other misc. work	01-05-21	15-06-21				
168.	Electrical and C&I- SPS & MPS	01-05-21	15-06-21				
169.	Transformer Installation	01-05-21	15-06-21				
170.	HT/LT panel erection	01-05-21	15-06-21				
171.	CABLE LAYING	01-05-21	15-06-21				

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)
172.	DG Installation	01-05-21	15-06-21				
173.	PLC Panel & Online monitoring system	01-05-21	15-06-21				
174.	Other misc. work	01-05-21	15-06-21				
175.	Commissioning of Mech., Electrical and C&I	01-06-21	15-06-21				
176.	Trial Run, Final Inspection and COD	16-06-21	15-09-21				
177.	Trial Run and Final Inspection	16-06-21	14-09-21				
178.	COD	14-09-21	15-09-21				
179.	Erection Commissioning, Trial Run and COD of Jhunsu STP (16 MLD) & Associated works						
180.	Erection Work						
181.	FCR tank unit	01-10-20	15-06-21				
182.	Excavation work	01-10-20	25-10-20	100%	100%	0%	100%
183.	Boulder filling work	26-10-20	29-10-20	100%	100%	0%	100%
184.	PCC work	30-10-20	30-10-20	100%	100%	0%	100%
185.	RCC upto completion	31-10-20	30-04-21	60%	46%	11%	57%
186.	Other finishing work	01-05-21	15-06-21				
187.	Hydrotesting	01-05-21	30-05-21				
188.	Tube settler, CCT & Sludge storage Tank	01-01-21	15-06-21				
189.	Earth work & Boulder filling work	01-01-21	15-02-21	100%	10%	90%	100%
190.	PCC work	16-02-21	28-02-21				
191.	RCC upto completion	01-03-21	20-05-21				
192.	Other finishing work	01-05-21	15-06-21				
193.	Hydrotesting	21-05-21	31-05-21				
194.	Main Process Building	01-03-21	15-06-21				
195.	Excavation & Column	01-03-21	15-04-21				
196.	Rubble soling/ Stone filling work	16-04-21	21-04-21				
197.	PCC	22-04-21	26-04-21				
198.	Structure completion (Expect finishing works)	27-04-21	31-05-21				
199.	Other finishing work	01-05-21	15-06-21				
200.	Hydrotesting	01-05-21	31-05-21				
201.	Shastri bridge SPS and I&D work	01-03-21	15-06-21				

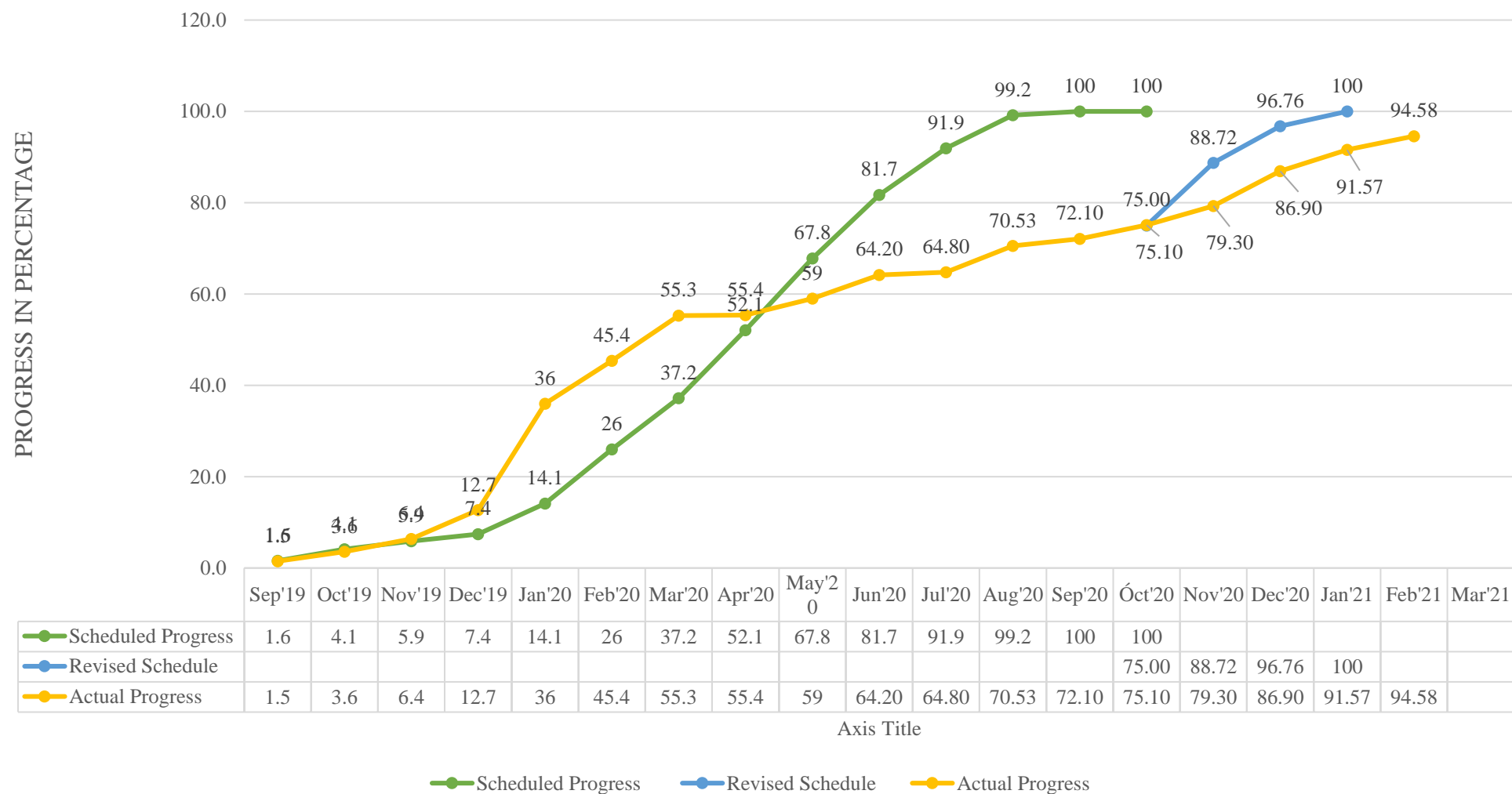
Sr. No.	Work description	Scheduled Start Date	Scheduled End Date	Schedule d Completion (In %)	Completi on up to previous month (In %) (A)	This month Completi on (In%) (B)	Total Completio n (In %) (A+B)
202.	Excavation work	01-03-21	15-04-21				
203.	PCC	16-04-21	22-04-21				
204.	RCC upto completion	23-04-21	20-05-21				
205.	Other finishing work	01-05-21	15-06-21				
206.	Hydrotesting	21-05-21	31-05-21				
207.	Boundary wall	01-03-21	31-05-21				
208.	Staff quarter	01-03-21	31-05-21				
209.	Other Misc works	01-05-21	15-06-21				
210.	Jhunsi MPS and I&D work	01-09-20	15-06-21				
211.	Excavation work	16-01-21	31-03-21				
212.	PCC	01-04-21	22-04-21				
213.	RCC upto completion	23-04-21	20-05-21				
214.	Other finishing work	01-05-21	15-06-21				
215.	Hydrotesting	21-05-21	31-05-21				
216.	Staff quarter	01-09-20	31-03-21	40%	27%	2%	29%
217.	Other Misc works	01-04-21	15-06-21				
218.	Pipe laying (Rising Main & Gravity Main)	01-03-21	31-05-21				
219.	Rising main	01-03-21	31-05-21				
220.	Excavation, Laying & Jointing, Backfilling/ Restoration works	01-03-21	20-05-21				
221.	Hydrotesting	21-05-21	31-05-21				
222.	Gravity Main	01-03-21	31-05-21				
223.	Excavation, Laying & Jointing, Backfilling/ Restoration works	01-03-21	20-05-21				
224.	Hydrotesting	21-05-21	31-05-21				
225.	Other works	01-02-20	15-06-21				
226.	Site office (Temporary office)	01-02-20	30-04-20	100%	100%	0%	100%
227.	Other misc works (Boundary Wall, Road, rain water harvesting, Land scaping etc)	01-03-21	15-06-21				
228.	Mechanical Erection- STP unit	01-04-21	15-06-21				
229.	Pumps	01-04-21	15-06-21				
230.	Lamella clarifier/ Tube settler	01-04-21	15-06-21				

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)
231.	Fire fighting System	01-04-21	15-06-21				
232.	Chlorination	01-04-21	15-06-21				
233.	Grit removal system	01-04-21	15-06-21				
234.	Blowers & Diffuser	01-04-21	15-06-21				
235.	Screens	01-04-21	15-06-21				
236.	Piping, Valves & Gates	01-04-21	15-06-21				
237.	Media Installation/ Bio module	01-04-21	15-06-21				
238.	Other misc. work	01-04-21	15-06-21				
239.	Mechanical Erection- SPS & MPS	01-04-21	15-06-21				
240.	Pumps	01-04-21	15-06-21				
241.	Screens	01-04-21	15-06-21				
242.	Piping, Valves & Gates	01-04-21	15-06-21				
243.	Other misc. work	01-04-21	15-06-21				
244.	Electrical and C&I- STP Unit	01-04-21	15-06-21				
245.	Transformer Installation	01-04-21	15-06-21				
246.	HT/LT panel erection	01-04-21	15-06-21				
247.	PLC Panel & Online monitoring system	01-04-21	15-06-21				
248.	Instrumentation works	01-04-21	15-06-21				
249.	CCTV	01-04-21	15-06-21				
250.	Cable laying	01-04-21	15-06-21				
251.	DG Installation	01-04-21	15-06-21				
252.	Solar Panel	01-04-21	15-06-21				
253.	Other misc. work	01-05-21	15-06-21				
254.	Electrical and C&I- SPS & MPS	01-04-21	15-06-21				
255.	Transformer Installation	01-05-21	15-06-21				
256.	HT/LT Panel erection	01-04-21	15-06-21				
257.	Cable laying	01-04-21	15-06-21				
258.	DG Installation	01-04-21	31-05-21				
259.	PLC Panel & Online monitoring system	01-04-21	15-06-21				
260.	Other misc. work	01-04-21	15-06-21				
261.	Commissioning of Mech., Electrical and C&I	01-06-21	15-06-21				
262.	Trial Run, Final Inspection and COD	15-06-21	15-09-21				

Sr. No.	Work description	Scheduled Start Date	Scheduled End Date	Scheduled Completion (In %)	Completion up to previous month (In %) (A)	This month Completion (In%) (B)	Total Completion (In %) (A+B)
263.	Trial Run and Final Inspection	15-06-21	14-09-21				
264.	COD	14-09-21	15-09-21				

7.2.4 Overall Package-II Progress

SCHEDULED Vs ACTUAL PROGRESS CHART OF PACKAGE - II



7.2.5 Physical Activities in February month

NEW CONSTRUCTION (Civil)			
S. No.	Structure Description	Structure Qty.	Status
PACKAGE – II			
GAUGHAT MPS			
1.	PLC building	01 No.	<ul style="list-style-type: none"> Pump replacement work under progress
RAJAPUR STP			
2.	Sludge Dewatering Building	01 No.	<ul style="list-style-type: none"> 1st Slab casting done. Roof slab concreting completed. Poly dosing tank under progress.
3.	Battery Room	01 No.	<ul style="list-style-type: none"> Cable trench work in progress.
NAINI-I STP			
4	Chachar Nalla SPS PLC Room	01 No.	<ul style="list-style-type: none"> Plaster work completed
5	Sludge Dewatering Building	01 No.	<ul style="list-style-type: none"> Roof Slab Concrete work completed.
6	SCADA Room	01 No.	<ul style="list-style-type: none"> Inner and Outer wall plaster work completed
7	Transformer foundation	01 No.	<ul style="list-style-type: none"> Foundation work completed. Fire wall completed
8	DG Foundation	02 No.	<ul style="list-style-type: none"> Shed construction In-progress.
9	Absorption Shed	01 No.	<ul style="list-style-type: none"> Foundation work completed
10	Wet Mix filter	01 No.	<ul style="list-style-type: none"> Brick work in progress
11	Compressor Room	01 No.	<ul style="list-style-type: none"> Plaster work under progress
REHABILITATION UNITS (Civil)			
NAINI – I STP			
1.	Sludge digester	01 No.	<ul style="list-style-type: none"> Digester cleaning work under progress.
2.	Grit Chamber	01 No.	<ul style="list-style-type: none"> Grit Mechanism Erection work completed.
3.	Scrubber Unit (Gas Area)	01 No.	<ul style="list-style-type: none"> Dismantling is completed.
4.	Compressor Room	01 No.	<ul style="list-style-type: none"> Dismantling is completed in compressor room.
5.	DFG Set	01 No.	<ul style="list-style-type: none"> Dismantling is in progress for DFG set.
6.	Primary Clarifier	01 No.	<ul style="list-style-type: none"> Rehabilitation work is under progress.
7.	Secondary Clarifier	01 No.	<ul style="list-style-type: none"> Rehabilitation work is under progress
8.	Aeration Tank	02 No.	<ul style="list-style-type: none"> Rehabilitation work is under progress

RAJAPUR STP			
1.	MEP building	01 No.	<ul style="list-style-type: none"> Repairing work of floor for MEP building is completed & Panel installation is completed.
2.	UASB	02 No.	<ul style="list-style-type: none"> No work
3.	SPS	01 No.	<ul style="list-style-type: none"> Pump replacement work completed.
4.	Bund	01 No.	<ul style="list-style-type: none"> Repairing of Bund is completed.
5.	Solar Panel	01 No.	<ul style="list-style-type: none"> Installation of Solar panel work under progress.

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS (Mechanical)		
Sr. No.	Structure / Equipment details	Status
1.	Installation of flowmeter – 1 No. in New Inlet line of Naini - I STP from Gaughat MPS	1) Installation of new flowmeter is completed. 2) Commissioning work is completed. 3) Calibration of flowmeter is pending. 4) Earthing connections remains to connected. 5) Construction of RCC chamber is in progress.
2.	Installation of flowmeter – 1 No. in Old Inlet line of Naini - I STP from Gaughat MPS	1) Installation of new flowmeter is completed. 2) Commissioning work is completed. 3) Calibration of flowmeter is pending. 4) Sluice valve adjacent to the flowmeter is to be shifted and replaced with knife gate valve as decided during joint inspection with Mr. Manohar of M/s.Adani. 5) Earthing connections remains to connected. 6) Construction of RCC chamber is completed.
3.	Installation of flowmeter in Bypass line of Naini - I STP	Flowmeter is not available at site.
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 in progress. 4) Civil work is in progress. 5) All open spaces remains to be closed by chequered plates 6) Rubber mats must be kept around LT panel. 7) 1 No. 1000 Amp ACB of Main PMCC Panel of STP Naini is damaged and it is found that cables of 20 MLD STP are shifted to 630 Amp ACB instead of 1000 Amp ACB which is installed for the APFC Panel. Please rectify the problem,

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS (Mechanical)		
Sr. No.	Structure / Equipment details	Status
6.	Cleaning of Chlorine Contact Tank in Naini-I STP	1) Cleaning work is completed. 2) Tile fitting work for outlet launder is completed. 3) Unit is taken into operation on 02.01.2021. 4) Tiles fitted in the outlet launder are coming out, Concessionaire to please rectify the problem. 5) Cleaning of CCT is required again as sludge due to malfunctioning of PST no. 3 is deposited in the CCT and hence the quality of effluent is getting deteriorated.
7.	Installation of flowmeter in Effluent Bypass of Naini - I STP	1) Installation of flowmeter is completed. 2) Level checking for flowmeter was done & it was found that level at outlet point was 25mm below level of topmost point of flowmeter for which a plate is welded at outlet point. 3) RCC flooring work is completed. 4) Commissioning work is completed. 5) Calibration of flowmeter is pending. 6) Backflow of water towards flowmeter is arrested & RCC flooring at outside to prevent soil erosion at outlet point is constructed. 7) For rectifying the heading of effluent in outlet channel & in outlet launder of FSTs, elbow at the end of effluent pipe is cut down but since there is no change in heading of effluent, this elbow must be refitted to the effluent pipe or otherwise the flowmeter installed in effluent pipe will not work correctly. 8) Earthing connections remains to connected
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	1) Overhauling work is completed. 2) Equipment are taken into operation on 10.01.2021.
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.

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS (Mechanical)		
Sr. No.	Structure / Equipment details	Status
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 in progress. 4) Civil work is in progress.. 5) All open spaces remains to be closed by chequered plates 6) Rubber mats must be kept around LT panel.
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 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 FEED is not provided. 6) The Gap between scrapper blades & floor when checked, it was varying from 10 to 60 mm. This is not rectified yet & for increasing the efficiency of unit, the gap must be maintained in between 20 - 30mm.
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 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 FEED is not provided. 6) The Gap between scrapper blades & floor when checked, it was varying from 10 to 60 mm. This is not rectified yet & for increasing the efficiency of unit, the gap must be maintained in between 20 - 30mm.

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS (Mechanical)		
Sr. No.	Structure / Equipment details	Status
19.	Rehabilitation works for PST - 3	1) Cleaning work is completed. 2) Erection of new structure is completed..3) Commissioning work is completed.3) Maintenance of telescopic valve is required.4) Torque switch arrangement for scrapper mechanism as per approved FEED is not provided. 5)The Gap between scrapper blades must be maintained in between 20 - 30 mm.6) Inspection of the unit is completed and observations are given to the Concessionaire which must be closed and Inspection call must be raised afterwards.
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 FEED is not provided. 4) Scum removal is not proper as 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) Replacement of valves is completed. 2) Actuator are not fitted to the valves as they are not available at site. 3) Maintenance of telescopic valves is pending. 4) Cleaning required for all valves chambers so that scum/sludge can flow freely without any choking problem. 5) Installation of flushing arrangement for the drain valves must be completed.
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.
23.	Rehabilitation works for Aeration Tank no. 2	1) Cleaning of unit is completed from Concessionaire's side and during the visit it was found that sewage is filled inside the tank. During last visit it was found that at least 250-300mm of sludge is left in entire tank, provisions must be made for the cleaning the sludge completely. 2) Dismantling of all old surface aerator is completed. 3) Modification work for foundation of all surface aerators is completed. 4) Erection of new surface aerators is completed. 5) Terminal Box of Motor for Surface Aerator no. 6 is broken hence the it must be repaired. 7) Civil repairing work is on progress. 8) Commissioning work is in progress. 9) Proper cable glands must be provided in terminal boxes.
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.

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS (Mechanical)		
Sr. No.	Structure / Equipment details	Status
25.	Replacement of Diffusers along with Air grid pipeline for Aeration Tank - 4 (20 MLD)	1) Erection & commissioning work for new diffusers & air grid pipeline is completed. 2) Unit is taken into operation on 10.01.2021. 3) 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.
26.	Replacement of Aeration Blowers for Aeration Tank of 20 MLD	1) Dismantling of one blower is completed. 2) New Air Blowers are not available at site. 3) Currently, two old blowers are ready for operation. 4) Currently, installation of old blower is in progress.
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. 4) The Gap between scrapper blades & floor when checked, it was varying from 10 to 60 mm. This is not rectified yet & for increasing the efficiency of unit, the gap must be maintained in between 20 - 30mm.
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. 5) The Gap between scrapper blades & floor when checked, it was varying from 10 to 60 mm. This is not rectified yet & for increasing the efficiency of unit, the gap must be maintained in between 20 - 30mm.
29.	Rehabilitation works for FST - 3	1) Cleaning work is completed. 2) Erection & commissioning of scrapper is completed. 3) 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. Material is not available at site. 4) Since the issues of FST 1 & FST 2 are resolved hence it is suggested to complete remaining works of this FST must be completed and inspection call must be raised for the same. 5) Torque switch arrangement for scrapper mechanism as per approved FEED is not provided.

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REHABILITATION UNITS (Mechanical)		
Sr. No.	Structure / Equipment details	Status
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) Replacement of valves is completed. 2) Actuator are not fitted to the valves as they are not available at site. 3) 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 in progress. 4) Civil work is pending. 5) All open spaces remains to be closed by chequered plates 6) Rubber mats must be kept around LT panel.
33.	Rehabilitation works for Return Sludge Pumps (60 MLD)	1) Replacement of suction valves is completed. 2) Dismantling of all pumps is completed. 3) Pumps are available at site. 4) Erection & commissioning of two pumps is completed & they are available for operation. No pump is available as stand-by. 5) 2 nos Discharge valves & 4 nos NRVs are not available at site. 6) As discussed, dismantling joints must be provided in both suction & discharge pipelines. of pumps. 7) Concessionaire is also required to resolve the design issues of Valves & pumps as per observations given by UPJN/PE. 8) Proper cable glands must be provided in terminal boxes.
34.	Rehabilitation works for Return Sludge Pumps (20 MLD)	Dismantling of pumps was to be started.
35.	Rehabilitation works for Thickener - 1	1) Work for inlet line of thickener is completed..2) Commissioning work is completed..3) Unit is taken into operation on 15.02.2021.4) Currently, sludge from blending tank is also taken directly to sludge drying beds which is not proper method, Hence, thickener must be made ready at the earliest for the proper withdrawal of sludge.5) Torque switch arrangement for scrapper mechanism as per approved FEED & datasheet must be provided.
36.	Rehabilitation works for Thickener - 2	1) Cleaning of unit is completed. 2) Dismantling of old structure is completed. 3) Erection of new structure is in progress. 4) Torque switch arrangement for scrapper mechanism as per approved FEED & datasheet must be provided.

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REHABILITATION UNITS (Mechanical)		
Sr. No.	Structure / Equipment details	Status
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) Installation of cable trays and dressing of cables is pending. 4) Installation of exhaust fans is pending.
38.	Erection & Commissioning of Valves in Inlet line of Thickener	Valve installation work is completed.
39.	Replacement of Valves for Drain line of Thickener -2 Nos	1) Valves are available at site, valve for thickener is replaced but valve for other thickener 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. 2) Actuator for the valves are not available at site. 3) Installation of flushing arrangement for the drain valves must be completed.
40.	Replacement of Electrical Panel for Digester cum Thickener	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 in progress. 4) Civil work is pending. 5) All open spaces remains to be closed by chequered plates 6) Rubber mats must be kept around LT panel.
41.	Rehabilitation works for HNC pumps of Naini Area in TEPH	1) Material is available at site. 2) Concessionaire is also required to resolve the design issues of Valves & pumps as per observations given by UPJN/PE. 3) Dismantling of all pumps is completed. 4) Erection of three new pumps is completed and commissioning of one new pump is completed. 5) Modification work for foundation of pumps is in progress. 6) As discussed, dismantling joints must be provided in suction & discharge line of the pumps. 7) Laying of power & control cable is pending. 8) Proper cable glands must be provided in terminal boxes.
42.	Rehabilitation works for HNC pumps of Dandi Area in TEPH	1) Material is available at site. 2) Concessionaire is also required to resolve the design issues of Valves & pumps as per observations given by UPJN/PE. 3) Dismantling of all pumps is completed. 4) Erection of all new pumps is completed and commissioning of two new pumps is completed. 5) Laying of power & control cable is pending. 6) Proper cable glands must be provided in terminal boxes.

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REHABILITATION UNITS (Mechanical)		
Sr. No.	Structure / Equipment details	Status
43.	Replacement of Electrical Panel for TEPH	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 4) Rubber mats must be kept around LT panel.
44.	Replacement of Electrical Panel for DGs	1) New panel is commissioned & it is shifted to new position on Gas engine room. 2) Commissioning work is completed. 3) Cleaning of area around DG panels is required. 4) Rubber mats must be kept around LT panel.
45.	Replacement of HT Panel	1) Erection of new panel is completed. 2) Modification for trench is completed. 3) Commissioning work is in progress. 4) Cable termination work is in progress. 5) All open spaces remains to be closed by chequered plates 6) Rubber mats must be kept around LT panel.
46.	Erection & Commissioning of New Transformers	1) Erection work is completed. 2) Concessionaire is required to complete levelling, commissioning, testing & raise inspection call. 3) Fencing work and finishing work around transformer is pending. 4) Commissioning work is in progress. 5) All testing works are completed. 6) Cable connection work is completed. 7) Load transfer to new Transformers is pending.
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) Currently, no work is in progress.
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. 4) Proper stock of chlorine tonners must be available at site.
49.	Erection & Commissioning of Leak Absorption System	1) Civil work is in progress. 2) Erection of new equipment is started. 2) Currently, No work is in progress.
50.	Erection & Commissioning of Sludge Dewatering System	1) Civil work is in progress.. 2) E&M works not started yet.

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REHABILITATION UNITS (Mechanical)		
Sr. No.	Structure / Equipment details	Status
51.	Rehabilitation Works for Filtrate Pumps	1) Dismantling work of old pumps is completed.. 2) Installation of new pumps is started. 3) Some valves/NRVs are not available at site.
52.	Installation of flowmeter in Header line of HNC pumps for Dandi Area in TEPH	1) Installation of flowmeter is completed. 2) Commissioning work is in progress. 3) Signal and Power cables not yet laid. 4) Local Indicators not yet installed. 5) Earthing connections remains to connected. 6) Construction of chamber is in progress.
53.	Installation of flowmeter in Header line of HNC pumps for Naini Area in TEPH	1) Installation of new flowmeter is completed. 2) Commissioning work is progress. 3) Signal and Power cables not yet laid. 4) Local Indicators not yet installed. 5) Earthing connections remains to connected.
54.	Installation of flowmeter in Inlet line of Thickener from Blending Tank	1) Excavation work for both thickener is completed.2) Flowmeter installation for one thickener is completed.3) Flowmeter for second thickener is not available at site.4) Signal and Power cables not yet laid. 5) Local Indicators not yet installed. 6) Earthing connections remains to connect
55.	Installation of flowmeter in Header line of Submersible pumps from Thickener to Digester	Flowmeter is not available at site.
56.	Installation of flowmeter in Return Sludge Line from RSPH of 60 MLD	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. 2) Commissioning work is progress. 3) Signal and Power cables not yet laid. 4) Local Indicators not yet installed. 5) Earthing connections remains to connected.
57.	Installation of flowmeter in Return Sludge Line from RSPH of 20 MLD	1) Installation of new flowmeter is completed. 2) Commissioning work is progress. 3) Signal and Power cables not yet laid. 4) Local Indicators not yet installed. 5) Earthing connections remains to connected.
58.	Erection & Commissioning of Online Instruments	1) Erection of online analyzers at inlet and outlet is completed, commissioning work is in progress. 2) Erection of Chlorine Analyzer is completed, commissioning work is in progress. 3) Erection of DO analyzers is not started yet. 4) Erection of level instruments is in progress. 3) Signal and Power cables laying in progress. 4) Earthing connections remains to connect

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REHABILITATION UNITS (Mechanical)		
Sr. No.	Structure / Equipment details	Status
59.	Erection & Commissioning of PLC panels	1) Civil work for PLC / SCADA room is in progress. 2) Erection works for PLC panels is completed. 3) Commissioning work is in progress. 4) Connection of equipment, field instruments is in progress.
60.	Erection & Commissioning of SCADA System	1) Civil work for PLC / SCADA room is in progress. 2) Erection works for SCADA system is in progress. 3) Report generation for SCADA is not started.
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) Commissioning work is in progress.
70.	Service Water Pumps - 2 Nos	No work is in progress
71.	Dilution Water Pumps - 2 Nos	No work is in progress
72.	Rehabilitation works for Storm Water Pump House	No plan is submitted yet for the Rehabilitation works.
73.	Rehabilitation works for Digester no. 1	1) Cleaning work for the Digester is completed. 2) Core cutting work for fitting Gas mixing 3) Erection of Gas mixing system is in progress. 4) Excavation of trenches for piping work is in progress. 5) Sludge Piping work for digester is not started yet.
74.	Rehabilitation works for Digester no. 2	1) Cleaning work for the Digester is not complete. 2) Core cutting work for fitting Gas mixing system is completed. 3) Erection of Gas mixing system is in progress. 4) Excavation of trenches for piping work is in progress. 5) Sludge Piping work for digester is not started yet.

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REHABILITATION UNITS (Mechanical)		
Sr. No.	Structure / Equipment details	Status
75.	Rehabilitation works for Digester no. 3	1) Cleaning work for the Digester is not started yet. 2) Core cutting work for fitting Gas mixing system is completed. 3) Erection of Gas mixing system is in progress. 4) Excavation of trenches for piping work is in progress. 5) Sludge Piping work for digester is not started yet.
76.	Erection & Commissioning of Compressors for Gas mixing system of Digesters	1) Finishing work for compressor room is pending. 2) Erection of all three skids of compressor is completed. 3) Piping work is in progress.
77.	Erection & Commissioning of Heat Exchangers - 3 nos / sludge recirculation pumps - 6 Nos	1) Construction of foundation for Digester no. 1 completed. 2) Construction of foundation for Digester no. 2 & 3 is in progress. 2) Erection of heat exchanger - 1 no., sludge recirculation pumps - 2 nos of Digester no. 1 is completed. 4) Piping work is in progress.
78.	Erection & Commissioning work of Gas Holder no. 1 & 2	Leveling of area is in progress.
79.	Erection & Commissioning of Dewatering Feed pumps	1) Construction of sludge sump is in progress. 2) E&M work is not started yet.
80.	Erection & Commissioning of Gas Engine	1) Construction of foundation is completed. 2) Erection of Gas Engine is completed. 3) Piping work is in progress. 4) Material for exhaust chimney is not available at site. 5) Power and control cables remains to be laid and connected.
81.	Erection & Commissioning of Control Panel Room for Gas Engine	Construction of cable trenches in in progress.
82.	Erection & Commissioning of H ₂ S Scrubber, Blowers - 2 Nos & Dehumidifier	1) Construction of foundation is completed. 2) Erection of Scrubber, blowers & dehumidifier is completed. 3) Piping work is in progress.
83.	Erection & Commissioning of HT, LT & Hot Water System	1) Construction of foundation is completed. 2) Erection of equipment is completed. 3) Piping work is in progress. 4) Power and control cables remains to laid and connected.
84.	Erection & Commissioning of Radiator	1) Construction work for foundation is completed. 2) Erection of equipment is completed. 3) Piping work is in progress.
85.	Erection & Commissioning of Ventilation System	1) Civil construction work is in progress 2) E&M work is not started yet.
86.	Erection & Commissioning of Gas Flare	1) Construction work for foundation is completed. 2) Erection of equipment is completed. 3) Piping work is completed. 4) Commissioning work is pending. 5) Construction of chamber for moisture trap is pending.

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REHABILITATION UNITS (Mechanical)		
Sr. No.	Structure / Equipment details	Status
87.	Erection & Commissioning of Gas Piping for complete Gas Generation Area	1) Excavation work is in progress. 2) Pipe laying Work is in progress
88.	Erection & Commissioning of Sludge Piping for complete Gas Generation Area	1) Excavation work is in progress. 2) Pipe laying Work is in progress
89.	Cleaning of Sludge Drying Beds	1) Cleaning work is in progress. 2) Currently, only one sludge drying bed is empty.
90.	Set-up of Laboratory	1) Civil work, finishing is in progress. 2) Set-up of laboratory is in progress.
91.	Installation of flowmeter in old header line of Gaughat MPS	1) Installation of new flowmeter is completed. 2) Commissioning work is completed. 3) Calibration is pending. 4) Earthing remains to be connected.
92.	Installation of flowmeter in new header line of Gaughat MPS	1) Installation of new flowmeter is completed. 2) Rectification work for leakage during commissioning of pipeline is completed. 3) Commissioning work is completed. 4) Calibration is pending. 5) Earthing remains to be connected.
93.	Replacement of HNC pumps - 5 Nos	1) Dismantling of one pumps is completed. 2) Concessionaire is required to resolve the design issues of Valves & pumps as per observations given by UPJN/PE. 3) It was also decided that one new pump must be installed in vacant space for 5th pump. 4) Erection of new pumps is not started yet. 5) No work is in progress.
94.	Replacement of Submersible pumps - 3 nos	1) Replacement work of pumps is completed. 2) Installation of Soft Starter panel is completed. 3) Commissioning work is completed. 4) Testing of two pumps is completed and one pump is remaining due to problem in its soft starter panel. Concessionaire to please check & do the needful.
95.	Replacement of Mechanical Screen - 2 Nos	1) Erection of new mechanical screens is completed. 2) Commissioning work was completed but when the equipment were taken into operation the screen got bend at the bottom. Hence, rectification of the problem is required or otherwise the equipment will not be operated. 3) Rectification work for one screen was completed but it is not working satisfactorily as it is getting stuck frequently. Rectification of the problem must be completed as it will effect the performance of facility.
96.	Replacement of Electrical Panel for DGs	Panel is charged & taken into operation.
97.	Cleaning of Receiving Chamber for HNC pumps	Cleaning of sump is completed.

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REHABILITATION UNITS (Mechanical)		
Sr. No.	Structure / Equipment details	Status
98.	Cleaning of Receiving Chamber for Submersible pumps	Cleaning of sump is completed.
99.	Erection & Commissioning of PLC panels	1) Construction of PLC room is in completed. 2) Finishing work for the room is completed. 3) Erection of PLC panel is completed. 4) Cable connection work is in progress. 5) Commissioning work is in progress. 6) During visit it was suggested that UPS & batteries must be taken out of PLC and must be installed in pump house for making space and one table/chair for operator can be put into the PLC room.
100.	Overhauling of Mechanical Screens	1) Overhauling work is completed. 2) Equipment is taken into operation on 09.01.2021. 3) Currently, one mechanical screen is not in operation due to problem in motor & unavailability of spare part, problem must be resolved for the same.
101.	Overhauling of DG sets	1) No work is in progress. 2) DG no. 2 is not starting due to problem in batteries which must be rectified.
102.	Replacement of emergency gate	No work is in progress
103.	Overhauling & Testing of Old Electrical panels for HNC pump house & submersible pump house	No work is in progress
104.	Installation of flowmeter - 600mm in header line of VNC pumps in Chacharnalla SPS	1) Installation work is completed. 2) Commissioning work is pending. 3) Power and control cables remains to laid and connect 4) Local display remains to installation. 5) Earthing remains to be connected.
105.	Overhauling/Calibration of flowmeter - 400mm in header line of VNC pumps in Chacharnalla SPS	1) As per information, flowmeter will not be replaced because is old flowmeter is OK for operation. 2) Overhauling/calibration of old flowmeter is not started yet. 3) Currently, flowmeter is not working.
106.	Erection of Manual Screens at tapping points in Chacharnalla SPS	1) Erection of screens is completed. 2) Civil work is pending.
107.	Replacement of Big VNC pumps in Chacharnalla SPS	1) Dismantling of one pump is completed. 2) Erection work for one pump is completed and it is taken into operation. Performance of the same was not possible because flowmeters at the SPS are not working. 3) Concessionaire is also required to resolve the design issues of Valves & pumps as per observations given by UPJN/PE. 4) Concessionaire is required to complete the erection work of other pumps also so that stand-by pumps can be made ready for operation. 5) Currently, two pumps are ready for operations, VNC pump no. 2 is in maintenance. Hence no pump is in stand-by.

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REHABILITATION UNITS (Mechanical)		
Sr. No.	Structure / Equipment details	Status
108.	Overhauling of Small VNC pumps	1) Overhauling work is not started yet. 2) Currently, both pumps are in working condition.
109.	Replacement of MCC panel at Chacharnalla SPS	1) Panel is taken into operation on 10.01.2021.
110.	Cleaning of Receiving Chamber at Chacharnalla SPS	Cleaning of sump is completed.
111.	Erection & Commissioning of PLC panels	1) Construction of PLC room is in completed. 2) Finishing work for the room is completed. 3) Erection of PLC panel is completed. 4) Cable connection work is in progress. 5) Commissioning work is in progress. 6) It is suggested that UPS & batteries must be taken out of PLC and must be installed at a suitable place somewhere else for making space and one table/chair for operator can be put into the PLC room.
112.	Overhauling of Mechanical Screens	1) Overhauling work is not started yet. 2) Currently, both screens are in working condition.
113.	Overhauling & Testing of Old Electrical panels	No work is in progress
114.	Overhauling of DG sets	1) Overhauling work is not started yet. 2) During the 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.

RAJAPUR STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS (Mechanical)		
Sr. No.	Structure / Equipment details	Status
1.	Repairing of Parshall flume after PTU & installation of Ultrasonic flowmeter.	1) Installation of flowmeter is completed. 2) Cable connection work is completed. 3) Calibration work is pending.
2.	Installation of flowmeter – 1 No. in Inlet line of Rajapur STP from Mumfordganj SPS	Commissioning of flowmeter is completed
3.	Installation of flowmeter in Outlet of Rajapur STP	1) Installation of flowmeter is completed. 2) Commissioning work is in progress. 3) Calibration work is pending.
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.

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REHABILITATION UNITS (Mechanical)		
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) Dewatering of structure is completed for one compartment. Cleaning work was started but was not completed and the unit was taken into operation due to Magh Mela period. 3) No cleaning work is in progress currently. 4) During visit it was found that several cells are in choked condition hence cleaning is required for the same.
9.	Rehabilitation works for UASB - 2	1) Dewatering of structure is not started yet. 2) Leakage rectification required from HDP pipes. 3) During visit it was found that several cells are in choked condition hence cleaning is required for the same.
10.	Rehabilitation works for Aeration Tank	1) As informed, current plan is to replace 3 Surface Aerators only in place of total 15. It is strongly suggested to replace all 15 Surface Aerators so that maximum efficiency of treatment can be achieved, and desired level of Dissolved Oxygen can be maintained in the outlet of Aeration Tank. 2) Three Surface Aerator erection work is completed but it is taking high ampere during operation. Hence, problem must be rectified. 3) Cleaning of Aeration tank is not started yet. 4) Erection for remaining two surface aerators is completed but it is taking high ampere during testing. Hence, problem must be rectified. 5) Currently, 12 old and 3 new aerators are present but only old aerators are used for operation. None of the 3 new aerators are available for operation.
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) 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.

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REHABILITATION UNITS (Mechanical)		
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 in progress. 2) Currently, three sludge drying beds are empty.
15.	Increase in height of foundation for DGs	1) Modification work for foundation is completed. 2) Repairing of shed is pending.
16.	Rehabilitation works for Gas Handling System	No work is started for the system. Concessionaire to please expedite the work as this system is part of the process must be made functional before the end of Rehabilitation period.
17.	Rehabilitation works for Sludge Handling System	1) No work is started for the system. 2) Two sludge sumps are available for the system but one pump is not available in each sump. Hence, repairing/overhauling of pumps is required.
18.	Rehabilitation works for Filtrate pump house	1) No work is started for the system. 2) Two filtrate pumps are available for the system but one pump is not available. Hence, repairing/overhauling of pumps is required.
19.	Rehabilitation works of Chlorination system.	1) Erection & commissioning of chlorine system is completed. 2) Testing of chlorination system is completed, both are found running at maximum efficiency. Proper Pipe Supports are required.
20.	Rehabilitation works of Leak Absorption System	1) Rehabilitation works is completed. 2) The system must be checked in Auto mode. 3) Proper caustic solution must be filled in Caustic pit for absorbing the chlorine leakage. 4) PU coating for neutralisation pit is completed.
21.	Erection & Commissioning of Sludge Dewatering System	1) Civil work for the unit is not completed yet. 2) E&M work is not started yet.
22.	Erection & Commissioning of Online Instruments	1) Erection of online analyzers at inlet and outlet is completed, commissioning work is in progress. 2) Erection of Chlorine Analyzer is completed, commissioning work is in progress. 3) Erection of level instruments is in progress. 4) Signal and Power cables laying in progress. 5) Earthing connections remains to be connected.
23.	Erection & Commissioning of PLC panels	1) Erection works for PLC panels is completed. 2) Commissioning work is in progress. 3) Connection of equipment, field instruments is in progress.
24.	Erection & Commissioning of SCADA System	1) Civil work for PLC / SCADA room is in progress. 2) Erection works for SCADA system is in progress. 3) Report generation for SCADA is not started.

RAJAPUR STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS (Mechanical)		
25.	Installation of flowmeter in Bypass line of STP	Flowmeter is not available at site
26.	Set-up of Laboratory	1) Set-up of laboratory is completed. 2) Installation of Acs are pending.
27.	Replacement of Submersible pumps - 6 nos	1) Replacement of 5 no. submersible pumps is completed out of 6.2) Flow for two pumps was checked and it was coming around 720 m ³ /hr which is considerably less as per rated flow of individual pump i.e., 471 m ³ /hr. This must be checked & rectified.
28.	Overhauling of Mechanical Screen	Overhauling work is completed, and equipment is taken into operation.
29.	Cleaning of Receiving Chamber	Cleaning of sump is completed.
30.	Overhauling of sluice gates	Overhauling work for two gates is pending for which check nuts are required, order for the same is given.
31.	Replacement of inlet gate	
32.	Rehabilitation Works for tapping point of Rajapur SPS	1) Cleaning of channel is completed. 2) Construction of temporary Retaining wall is completed. Concessionaire is required to submit proposal for construction of permanent retaining wall at the earliest.
33.	Overhauling/Calibration of existing flowmeter in header line of pumps	1) Currently new flowmeter is installed at site. 2) Commissioning work is completed. 3) Calibration work is completed. 3) Dismantling joint must be provided along with flowmeter for ease in maintenance.
34.	Overhauling of Mechanical Screen	Overhauling work is completed and equipment is taken into operation.
35.	Replacement of HNC pumps along with cables.	1) Erection & commissioning of two new pumps is completed.. 2) New pumps are taken into operation and their performance is under review. 3) Dismantling of one old pump is on progress.
36.	Replacement of suction valves, discharge valves & NRVs	1) Replacement of suction valves is completed. 2) Replacement of header line is completed on 15.01.2021 & two pumps were started on 15.01.2021. Since the shut down was given till 31.12.2020, hence the work for replacement of header line is delayed by 15 days for which Concessionaire is required to provide justification or otherwise LDs as per relevant clauses of CA will be applicable. 3) Concessionaire is also required to resolve the design issues of Valves & pumps as per observations given by UPJN/PE. 4) NRV in main header line must be provided for reducing back hammering on the pumps.
37.	Rehabilitation works of MCC panel	Rehabilitation work is in progress.
38.	Erection & Commissioning of PLC panels	1) Construction of PLC room is completed. 2) Erection of PLC panel is completed. 3) Cable laying & connection work is on progress.

RAJAPUR STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS (Mechanical)		
39.	Cleaning of Receiving Chamber	Cleaning of sump is completed.
40.	Overhauling/testing of Transformer	1) Overhauling work is not started yet. 2) One transformer is sent for repairing & currently one transformer is available for operations only. Hence, the repairing of transformer must be completed at the earliest for having one transformer in stand-by mode.

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	58	12	70
Building Work	1-sept-20	24-Jan-21	100	78	6	84
Office Work	1-sept-20	24-Jan-21	100	100	0	100
Mechanical Work						
Pumps, Blowers, Diffusers	1-Nov-20	24-Jan-21	100	75	5	80
Pipes, Valves, Gates, Screens	1-Nov-20	24-Jan-21	100	70	5	75
Sludge Dewatering System	1-Nov-20	24-Jan-21	100	0	0	0
Grit Removal System	20-Oct-20	24-Jan-21	100	50	50	100
Biogas Engine with Scrubber and Gas Mixing System	1-Nov-20	24-Jan-21	100	65	15	80
Chlorination System	1-Nov-20	24-Jan-21	100	80	20	100
Electrical & C&I Work						
PLC	1-Nov-20	24-Jan-21	100	31	69	100
Field Instruments (Gauges)	1-Nov-20	24-Jan-21	100	0	50	50
Level Transmitters	1-Nov-20	24-Jan-21	100	0	90	90
Analyzers	1-Nov-20	24-Jan-21	100	80	5	85
Cable Traying laying	1-Nov-20	24-Jan-21	100	80	5	85
Cable Laying, Termination and Glanding	1-Nov-20	24-Jan-21	100	65	25	90
Commissioning / Trial Run	25-Jan-21	31-Jan-21	100	0	0	0
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

Letter No. 2336/PWPL(Adani)/423

Dated: 02/11/2020

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 February' 2021

Sr. No.	Site Visit & Meeting with UPJN / NMCG / PWPL	Date	Attendees	Description
1.	Site inspection of Naini-I and Jhunsi	1-Feb-21	Mr. Amit Ranjan Mr. Kumar Kashyap	Inspection Regarding ongoing E&M and Civil activities
2.	Site inspection of Phaphamau	1-Feb-21	Mr. Wahab Alam	Inspection Regarding ongoing Civil activities
3.	Site inspection of Naini- II STP and assocait infrastructure	2-Feb-21	Mr. Kumar Kashyap	Inspection Regarding ongoing Civil activities
4.	Site inspection of Jhunsi STP and assocait infrastructure	2-Feb-21	Mr. Abhishek singh	Inspection Regarding ongoing Civil activities
5.	Site inspection of Phaphamau STP and assocait infrastructure	2-Feb-21	Mr. Wahab Alam	Inspection Regarding ongoing Civil activities
6.	Site visit of Naini-I STP	2-Feb-21	Mr. Amit Ranjan	Inspection Regarding ongoing E&M and Civil activities
7.	Site inspection of Jhunsi STP and associate infrastructure	3-Feb-21	Mr. Abhishek singh Mr. Amit Ranjan	Inspection Regarding ongoing Civil activities
8.	Site inspection of Phaphamau STP and associate infrastructure	3-Feb-21	Mr. Wahab Alam	Inspection Regarding ongoing Civil activities
9.	Site inspection of Jhunsi STP and associate infrastructure	4-Feb-21	Mr. Abhishek singh Mr. Amit Ranjan	Inspection Regarding ongoing Civil activities
10.	Site inspection of Phaphamau STP and associate infrastructure	4-Feb-21	Mr. Wahab Alam	Inspection Regarding ongoing Civil activities
11.	Site inspection of Naini-I STP	4-Feb-21	Mr. Gaurav Pandey	Inspection Regarding ongoing E&M and Civil activities
12.	Regarding successful implementation of Operation & Maintenance activities for Package III facilities: Requisite Concessionaire's obligations during O&M period	5-Feb-21	Mr. Gaurav Gupta Mr. Sudhir tomar	Inspection Regarding ongoing Civil activities
13.	Site inspection of Naini- II STP and assocait infrastructure	5-Feb-21	Mr. Kumar Kashyap	Inspection Regarding ongoing Civil activities

Sr. No.	Site Visit & Meeting with UPJN / NMCG / PWPL	Date	Attendees	Description
14.	Site inspection of Jhunsi STP and assocait infrastructure	5-Feb-21	Mr. Abhishek singh	Inspection Regarding ongoing Civil activities
15.	Site inspection of Phaphamau STP and assocait infrastructure	5-Feb-21	Mr. Wahab Alam	Inspection Regarding ongoing Civil activities
16.	Site inspection of Phaphamau STP and associate infrastructure	8-Feb-21	Mr. Wahab Alam	Inspection Regarding ongoing Civil activities
17.	Site inspection of Naini-I STP	8-Feb-21	Mr. Atahar Ayyub	Inspection Regarding ongoing E&M and Civil activities
18.	Site inspection of Jhunsi STP	9-Feb-21	Mr. Divvela Srimannarayana	Inspection Regarding ongoing Civil activities
19.	Site inspection of Naini-II STP	9-Feb-21	Mr. Kumar Kashyap	Inspection Regarding ongoing Civil activities
20.	Site inspection of Phaphamau STP	9-Feb-21	Mr. Wahab Alam	Inspection Regarding ongoing Civil activities
21.	Site inspection of Phaphamau STP	10-Feb-21	Mr. Wahab Alam Mr. Divvela Srimannarayana	Inspection Regarding ongoing Civil activities
22.	Site inspection of Naini-I STP	12-Feb-21	Mr. Gaurav Pandey Mr. Atahar Ayyub	Inspection Regarding ongoing E&M and Civil activities
23.	Site inspection of Phaphamau STP	12-Feb-21	Mr. Wahab Alam Mr. Divvela Srimannarayana	Inspection Regarding ongoing Civil activities
24.	Site inspection of Naini-II STP	12-Feb-21	Mr. Kumar Kashyap	Inspection Regarding ongoing Civil activities
25.	Site inspection of Jhunsi STP	13-Feb-21	Mr. Abhishek singh Mr. Divvela Srimannarayana	Inspection Regarding ongoing Civil activities
26.	Site inspection of Naini-I STP	13-Feb-21	Mr. Gaurav Pandey Mr. Atahar Ayyub	Inspection Regarding ongoing E&M and Civil activities
27.	Site inspection of Naini-II STP	13-Feb-21	Mr. Kumar Kashyap Mr. Amit Ranjan	Inspection Regarding ongoing Civil activities
28.	Site inspection of Phaphamau STP	13-Feb-21	Mr. Wahab Alam	Inspection Regarding ongoing Civil activities
29.	Site inspection of Jhunsi STP	17-Feb-21	Mr. Abhishek singh Mr. Divvela Srimannarayana	Inspection Regarding ongoing Civil activities
30.	Site inspection of Naini-I STP	17-Feb-21	Mr. Atahar Ayyub	Inspection Regarding ongoing E&M and Civil activities
31.	Site inspection of Naini-II STP	17-Feb-21	Mr. Kumar Kashyap Mr. Amit Ranjan	Inspection Regarding ongoing Civil activities

Sr. No.	Site Visit & Meeting with UPJN / NMCG / PWPL	Date	Attendees	Description
32.	Site inspection of Phaphamau STP	17-Feb-21	Mr. Wahab Alam	Inspection Regarding ongoing Civil activities
33.	Site inspection of Naini-I STP	18-Feb-21	Mr. Atahar Ayyub	Inspection Regarding ongoing E&M and Civil activities
34.	Site inspection of Naini-II STP	18-Feb-21	Mr. Kumar Kashyap	Inspection Regarding ongoing Civil activities
35.	Site inspection of Jhunsi STP	18-Feb-21	Mr. Abhishek Singh	Inspection Regarding ongoing Civil activities
36.	Site inspection of Jhunsi STP	19-Feb-21	Mr. Abhishek singh	Inspection Regarding ongoing Civil activities
37.	Site inspection of Naini-I STP	19-Feb-21	Mr. Atahar Ayyub	Inspection Regarding ongoing E&M and Civil activities
38.	Site inspection of Naini-II STP	19-Feb-21	Mr. Kumar Kashyap	Inspection Regarding ongoing Civil activities
39.	Site inspection of Phaphamau STP	19-Feb-21	Mr. Wahab Alam Mr. Amit Ranjan	Inspection Regarding ongoing Civil activities
40.	Site inspection of Jhunsi STP	20-Feb-21	Mr. Abhishek singh	Inspection Regarding ongoing Civil activities
41.	Site inspection of Naini-I STP	20-Feb-21	Mr. Atahar Ayyub Mr. Amit Ranjan	Inspection Regarding ongoing E&M and Civil activities
42.	Site inspection of Naini-II STP	20-Feb-21	Mr. Kumar Kashyap	Inspection Regarding ongoing Civil activities
43.	Site inspection of Phaphamau STP	20-Feb-21	Mr. Wahab Alam	Inspection Regarding ongoing Civil activities
44.	Site inspection of Naini-I STP	22-Feb-21	Mr. Gaurav Pandey	Inspection Regarding ongoing E&M and Civil activities
45.	Site inspection of Naini-II STP	22-Feb-21	Mr. Kumar Kashyap Mr. Amit Ranjan	Inspection Regarding ongoing Civil activities
46.	Site inspection of Phaphamau STP	22-Feb-21	Mr. Wahab Alam	Inspection Regarding ongoing Civil activities
47.	Site inspection of Naini-I STP	23-Feb-21	Mr. Gaurav Pandey	Inspection Regarding ongoing E&M and Civil activities
48.	Site inspection of Naini-II STP	23-Feb-21	Mr. Kumar Kashyap Mr. Amit Ranjan	Inspection Regarding ongoing Civil activities
49.	Site inspection of Phaphamau STP	23-Feb-21	Mr. Wahab Alam	Inspection Regarding ongoing Civil activities
50.	Site inspection of Naini-I STP	24-Feb-21	Mr. Atahar Ayyub	Inspection Regarding ongoing E&M and Civil activities
51.	Site inspection of Naini-II STP	24-Feb-21	Mr. Kumar Kashyap	Inspection Regarding ongoing Civil activities

Sr. No.	Site Visit & Meeting with UPJN / NMCG / PWPL	Date	Attendees	Description
52.	Site inspection of Phaphamau STP	24-Feb-21	Mr. Wahab Alam Mr. Amit Ranjan	Inspection Regarding ongoing Civil activities
53.	Site inspection of Naini-I STP	25-Feb-21	Mr. Atahar Ayyub	Inspection Regarding ongoing E&M and Civil activities
54.	Site inspection of Naini-II STP	25-Feb-21	Mr. Kumar Kashyap	Inspection Regarding ongoing Civil activities
55.	Site inspection of Phaphamau STP	25-Feb-21	Mr. Wahab Alam	Inspection Regarding ongoing Civil activities
56.	Site inspection of Naini-I STP	27-Feb-21	Mr. Atahar Ayyub Mr. Gaurav Pandey	Inspection Regarding ongoing E&M and Civil activities
57.	Site inspection of Naini-II STP	27-Feb-21	Mr. Kumar Kashyap Mr. Amit Ranjan	Inspection Regarding ongoing Civil activities
58.	Site inspection of Phaphamau STP	27-Feb-21	Mr. Wahab Alam	Inspection Regarding 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/781	Observation on LT panel for Non clog submersible pumps Package I	5-Feb-2021	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/782	Observation on SCADA & PLC Control System Configuration diagram-PHAPHAMAU STP	5-Feb-2021	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/783	Observation on Motor docs for FCR & GRIT Blowers for Package-I STP : Prayagraj STP	5-Feb-2021	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/784	Field Instruments Data sheets & Specifications (Electromagnetic Flow meter - Additional) of C&I of NAINI - I STP & SLAORI STP of Package - II & III facilities of Prayagraj STP Project	5-Feb-2021	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/785	Operation & control philosophy of C&I of SPS for Package - I of Prayagraj STP Project	5-Feb-2021	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/786	Observation on Solar Panel Arrangement Drawing - For Package-1 STPs	5-Feb-2021	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/787	Plant Layout - Package-II - Naini-I STP	5-Feb-2021	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/788	Plant Layout - Package-II - Rajapur STP	5-Feb-2021	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/ 789	Observation on Valve schedule for Package II	5-Feb-2021	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
10.	AIPL/NMCG/ PRAYAG/ 790	Observation on Sluice Valve GAD for Package II & III	5-Feb-2021	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/791	Regarding Operational Issues of Naini I facility as on 04.02.2021- Prayagraj HAM Project	5-Feb-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/792	Regarding Availability of Naini I and Rajapur facilities under Package II - Prayagraj HAM project	5-Feb-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
13.	AIPL/NMCG/ PRAYAG/793	Regarding successful implementation of Operation & Maintenance activities for Package III facilities: Requisite Concessionaire's obligations during O&M period	5-Feb-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/801	Notice for Completion of Payment Milestone – II of Package – I	6-Feb-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/795	Observation on revised Naini II FCR Tank Civil Drawings	6-Feb-2021	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/796	Regarding the request for plate load test from MNNIT for the determination of SBC for Naini-II STP, Phaphamau STP & Jhansi STP of Package-I	6-Feb-2021	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/797	Observation on under taking for the open points on CRS of submersible pumps of Package-I	10-Feb-2021	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/798	Regarding approval of vendor for supply of sluice gate, tube settler & compressor	10-Feb-2021	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
19.	AIPL/NMCG/ PRAYAG/799	Observation on revised G.A drawings of Naini II MPS	10-Feb-2021	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
20.	AIPL/NMCG/ PRAYAG/800	Observation on revised GA Drawings for Mahewaghat SPS	10-Feb-2021	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/802	Datasheet and GAD of Blowers for Package I	10-Feb-2021	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/803	Observation on drawings for Road & Drain at Naini II_ Revision 2	10-Feb-2021	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/804	Bedding calculation for mahewaghat Trunk sewer to naini ii mps_pck I_pck I	10-Feb-2021	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/805	Sludge Reticulation pump and sludge heat exchanger civil foundation of Bio gas package Naini 1 STP As built Drawing	10-Feb-2021	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/806	SCADA Room civil drawing for AS BUILT in Naini 1 STP	10-Feb-2021	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/808	Observation on Naini I Gas Engine Documents (Part 3)	16-Feb-2021	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
27.	AIPL/NMCG/ PRAYAG/794	Regarding use of SRC cement for RCC pipes	16-Feb-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/807	Completion of 2nd Milestone of Package-I facilities for the "Prayagraj STP Projects under HAM based PPP mode"	16-Feb-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/810	Reg. Slow work progress at Phaphamau STP_14 MLD	18-Feb-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
30.	AIPL/NMCG/ PRAYAG/811	Regarding operational issues of Ghagharnalla MPS.- HAM Prayagraj project	18-Feb-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/809	Observation on PLC I/O Schedule of JHUNSI & PHAPHAMAU STP of C&I for Package - I of Prayagraj STP Project	18-Feb-2021	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/812	Observation on Lime Handling system for various STP location at Prayagraj STP	19-Feb-2021	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/813	Observation on Revised & Final FEED Documents for Package II	23-Feb-2021	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
34.	Via E - mail	Observation on Monthly progress report for the month of December , 2020	25-Feb-2021	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
35.	Via E - mail	Observation on Mechanical & Manual Screens - Prayagraj Package-I	25-Feb-2021	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
36.	Via E - mail	Observation on O & M Monthly Progress report for the month of November , 2020	25-Feb-2021	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
37.	Via E - mail	NAINI II MPS - Docs. of Mechanical and Manual Screens - Prayagraj Package- I	25-Feb-2021	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
38.	Via E - mail	Observation on ASSET MANAGEMENT SYSTEM of C&I for each STP of Package - I of Prayagraj STP Project	25-Feb-2021	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
39.	Via E - mail	O & M Monthly Progress report for the month of November , 2020	25-Feb-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
40.	Via E - mail	Submission of Monthly progress report for the month of December , 2020	25-Feb-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
41.	Via E - mail	Submission of Schedule Maintenance Program of Package – III for the calendar year, 2021	26-Feb-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 E - mail	KPI Adherence Report for the month of November, 2020	26-Feb-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
43.	Via E - mail	KPI Adherence Report for the month of December , 2020	26-Feb-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
44.	Via E - mail	KPI Adherence Report for the month of January , 2021	26-Feb-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
45.	Via E - mail	Observation on Schedule Maintenance Program of Package – III for the calendar year, 2021	26-Feb-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/065/21	Submission of PLC FAT & SAT Procedure of C&I of STP of Package – I of Prayagraj STP Project	6-Feb-21	Prayagraj water private limited
2.	PWPL/UPJN/PMCG/066/21	Submission of Operation & Control Philosophy of C&I of Naini -II & Jhunsu STP for Package - I of Prayagraj STP Project	8-Feb-21	Prayagraj water private limited
3.	PWPL/UPJN/PMCG/067/21	Submission of Datasheet and GAD of Blowers for Package I	8-Feb-21	Prayagraj water private limited
4.	PWPL/UPJN/PMCG/068/21	Submission of Operation & Control Philosophy of C&I of PHAPHAMAU STP of Package – I for Prayagraj STP Project	8-Feb-21	Prayagraj water private limited
5.	PWPL/UPJN/PMCG/069/21	Submission of Operation & control philosophy of C&I of SPS for Package - I of All STP/MPS/SPS	8-Feb-21	Prayagraj water private limited
6.	PWPL/UPJN/PMCG/070/21	Submission of revised Trunk sewer drawing from Mahewaghat to Naini-II STP- Package-I	8-Feb-21	Prayagraj water private limited
7.	PWPL/UPJN/PMCG/071/21	Submission of revised GA Drawings for Mahewaghat SPS	10-Feb-21	Prayagraj water private limited
8.	PWPL/UPJN/PMCG/072/21	Submission of revised G.A drawings of Naini II MPS	10-Feb-21	Prayagraj water private limited
9.	PWPL/UPJN/PMCG/073/21	Submission of Reg Approval of Mech GAD for Basana Nala SPS Under Pkg-1	11-Feb-21	Prayagraj water private limited
10.	PWPL/UPJN/PMCG/074/21	Submission of Solar Panel Arrangement Drawing - For Package-1 STPs	11-Feb-21	Prayagraj water private limited
11.	PWPL/UPJN/PMCG/075/21	Submission of Tube Settler over Lamella Clarifier (Process calculation, data sheet and GA of Tube settler for Package-I	11-Feb-21	Prayagraj water private limited
12.	PWPL/UPJN/PMCG/076/21	Submission of Trash rack Screens at Various Nallas	11-Feb-21	Prayagraj water private limited
13.	PWPL/UPJN/PMCG/077/21	Submission of Mechanical & Manual Screens - NAINI II STP	11-Feb-21	Prayagraj water private limited
14.	PWPL/UPJN/PMCG/078/21	Submission of AHF panel for Non clog submersible pumps Package I : Prayagraj STP	11-Feb-21	Prayagraj water private limited
15.	PWPL/UPJN/PMCG/079/21	Submission of Datasheet and GAD of Blowers for Package I	11-Feb-21	Prayagraj water private limited

Sr. No.	PWPL Transmittal reference number	Description	Date	From
16.	PWPL/UPJN/PMCG/080/21	Submission of Jhansi STP FCR Tank Civil Drawings	11-Feb-21	Prayagraj water private limited
17.	PWPL/UPJN/PMCG/081/21	Submission of Phaphamau STP Piping Layout	12-Feb-21	Prayagraj water private limited
18.	PWPL/UPJN/PMCG/082/21	Submission of Motor docs for FCR & GRIT Blowers for Package-I STP : Prayagraj STP	15-Feb-21	Prayagraj water private limited
19.	PWPL/UPJN/PMCG/083/21	Submission of Observations on Master Documents List (MDL) for STP projects at Allahabad	15-Feb-21	Prayagraj water private limited
20.	PWPL/UPJN/SITE/435/2021	Submission of Sludge Dewatering System – Package – I	15-Feb-21	Prayagraj water private limited
21.	PWPL/UPJN/PRAYAGRAJ/SITE/433	Regarding the approval for construction of SPS & laying of rising main sewer line from Trivenipuram STP to Jhansi STP of Package-I	15-Feb-21	Prayagraj water private limited
22.	PWPL/UPJN/PRAYAGRAJ/SITE/436	Regarding the submission of plate load test report of Naini-II STP, Phaphamau STP & Jhansi STP of Package-I.	15-Feb-21	Prayagraj water private limited
23.	PWPL/UPJN/PMCG/084/21	Submission of Distribution Transformer documents for Pkg I.	16-Feb-21	Prayagraj water private limited
24.	PWPL/UPJN/PMCG/085/21	Submission of Electrical Design docs for Shastri Bridge SPS : Prayagraj STP	16-Feb-21	Prayagraj water private limited
25.	PWPL/UPJN/PMCG/086/21	Submission of revised Civil Drawings for Mahewaghat SPS	16-Feb-21	Prayagraj water private limited
26.	PWPL/UPJN/PMCG/087/21	Submission of Revised & Final FEEP Documents for Package II	17-Feb-21	Prayagraj water private limited
27.	PWPL/UPJN/PMCG/088/21	Submission of Manhole Drawing-Vehicular Load/ Traffic	17-Feb-21	Prayagraj water private limited
28.	PWPL/UPJN/PMCG/089/21	Submission of Bedding calculation for mahewaghat Trunk sewer to naini ii mps_pck I_pck I	17-Feb-21	Prayagraj water private limited
29.	PWPL/UPJN/PMCG/090/21	Submission of Mechanical and Manual Screens - Jhansi STP, Phaphamau STP & Jhansi MPS	18-Feb-21	Prayagraj water private limited
30.	PWPL/UPJN/PMCG/091/21	Submission of FRC analyzer QAP (Chlorination system) - Package-I	19-Feb-21	Prayagraj water private limited
31.	PWPL/UPJN/PMCG/092/21	Regarding the submission of details of the quantities & cost implication due to the change in the STP location of Jhansi STP facility	19-Feb-21	Prayagraj water private limited

Sr. No.	PWPL Transmittal reference number	Description	Date	From
32.	PWPL/UPJN/PMCG/093/21	Request for Reduction in value of Performance security for Package I and O&M Performance Security of Package-II & III - Reg	20-Feb-21	Prayagraj water private limited
33.	PWPL/UPJN/PMCG/094/21	Submission of Request for Package-II COD	20-Feb-21	Prayagraj water private limited
34.	PWPL/UPJN/PMCG/095/21	Submission of Mahewaghat nala I & D GAD and calculation__Trash screen	22-Feb-21	Prayagraj water private limited
35.	PWPL/UPJN/PMCG/096/21	Submission of Solar Power - Net Metering - Final - Pkg-I	23-Feb-21	Prayagraj water private limited
36.	PWPL/UPJN/PMCG/097/21	Submission of Jhunsi STP Piping Layout	23-Feb-21	Prayagraj water private limited
37.	PWPL/UPJN/PMCG/098/21	Submission of Mechanical GAD of I & D weir arrangement of Mawaiya Drain Nala R3	23-Feb-21	Prayagraj water private limited
38.	PWPL/UPJN/PMCG/099/21	Submission of Reimbursement of O&M and Power Charges - Pkg-III extended Period	24-Feb-21	Prayagraj water private limited
39.	PWPL/UPJN/PMCG/100/21	Submission of Civil Drawing for Tube settler at Phaphamau STP	25-Feb-21	Prayagraj water private limited
40.	PWPL/UPJN/PMCG/101/21	Submission of GA & Instrument Installation drawings.(Hook-up) of C&I of STP & SPS for Package – I of Prayagraj STP Project	25-Feb-21	Prayagraj water private limited
41.	PWPL/UPJN/PMCG/102/21	Submission of Sludge Dewatering System - Screw Press - Package-I	25-Feb-21	Prayagraj water private limited
42.	PWPL/UPJN/PMCG/103/21	Submission of Revised GA Drawings for Naini-II STP	27-Feb-21	Prayagraj water private limited
43.	PWPL/UPJN/PMCG/104/21	Submission of Functional Design Specification of C&I of STP for Package – I of Prayagraj STP Project	27-Feb-21	Prayagraj water private limited

13. EHS targets, Achievement & compliance report for the month of February' 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
Phaphamau 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.	Already applied on dated. On dated 26.02.2020, and NHAI inspection completed and report submitted to joint secretariat, Lucknow. Final approval is awaited. Total 01 nos. NH Road crossings. (Raising main from Basna Nalla SPS to Phaphmau STP and Trunk sewer in continuation Raising main of basna nalla SPS falling along the NHAI for about 1.4 Kms.)

Sr. No.	Applicable Permit	Authority	Quantity	Remarks
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.
5	Railway Crossing	Commissioner Railway Safety	1 No.	Already applied on dated 12.11.2020. Final approval is awaited.
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.

Sr. No.	Applicable Permit	Authority	Quantity	Remarks
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. Shastri Bridge SPS
2	Consent to Establish	State Pollution Control Board (SPCB)	1 No.	Received
3	Tree cutting	Forest Department	NA	Not Required
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.	Under process towards filing the application to concern authority. Location: - Shashtri Bridge
6	National Highway cutting & crossing	National Highway	1 No.	Under process towards filing the application to concern authority. Location: - Underpass Shashtri Bridge

Sr. No.	Applicable Permit	Authority	Quantity	Remarks
7	Revenue Road cutting & crossing	Panchayat/Local Authority	1 No.	Under process towards filing the application to concern authority. Location: - Shastri Bridge SPS to Jhansi 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. Sashtri 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
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
12	Shastri Bridge SPS Site		1	There is a dispute regarding the land position by Railway department / Revenue Department. Joint Site inspection made by UPJN and concerned line officers made on dated 2 nd Nov 2020. The final decision is pending.

15. Plant & Machinery Status

Machinery Details											
Sr. No.	Machinery Name	Facility Name									
		Phaphamau	Naini-II	Jhansi	Naini-I	Rajapur	Salori	Numayadahi	Ponghat	Kodra	Total
1.	JCB	1	1	-	2	-	-	-	-	-	4
2.	Dumper	-	-	-	-	-	-	-	-	-	0
3.	Poclain	-	1	-	-	-	-	-	-	-	1
4.	Ajax	-	1	-	-	1	-	-	-	-	2
5.	Hydra	-	-	-	1	-	-	-	-	-	1
6.	Roller	-	1	-	-	-	-	-	-	-	1
7.	Submersible Pump	8	1	-	-	-	-	-	-	-	9
8.	Diesel Pump 5 HP	1	2	-	1	-	-	-	-	-	4
9.	5KV generator	-	1	1	-	-	-	-	-	-	2
10.	Total Station	-	1	-	-	-	-	-	-	-	1
11.	Water tanker	-	-	-	-	1	-	-	-	-	1
12.	Auto level	1	1	-	-	-	-	-	-	-	2
13.	Mixing machine	1	-	-	2	-	-	-	-	-	3
14.	Vibrator	2	2	1	2	-	-	-	-	-	7
15.	Tractor	2	3	-	3	1	-	-	-	-	9
16.	Concrete Chipping machine	-	-	-	1	-	-	-	-	-	1
17.	Welding Machine	1	-	-	3	1	-	-	-	-	5
18.	Grinding Machine	-	-	-	1	-	-	-	-	-	1
19.	Gas Cutting Set	-	-	-	2	-	-	-	-	-	2
20.	Chain Saw Machine	-	-	-	2	1	-	-	-	-	3
21.	Chain Block	-	-	-	1	-	-	-	-	-	1
22.	RM 800	1	-	-	-	-	-	-	-	-	1
23.	Plywood Cutting Machine	-	1	-	-	1	-	-	-	-	2
24.	Steel Cutting Machine	2	2	-	1	1	-	-	-	-	6
	Total	20	18	2	22	7	-	-	-	-	69

16. Project Engineer Activities

Annexure-1; Project Engineer's activities for the month of "February '2021"

Project Engineer's activities for the month of "February' 2021"													
Date	Name of Activity#	Date of receipt	Date of Approval / Comments	No. of day taken	Time as per contract	Delay if any (No. of days) [7=5-6]	Reason for delay*	Key Personal deployed	Man-days of Each key Personal	Delay by Concessionaire	Reason of delay	Steps taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1-Feb-21	Observation on LT panel for Package-I	19-Jan-21	5-Feb-21	17	10	7	In the submission Concessionaire has not considered some pumps in this document	Mr. Atahar Ayyub	1	-	In the submission Concessionaire has not considered some pumps in this document	Asked to Concessionaire please consider all the equipment's in LT panel	-
1-Feb-21	Site inspection of Naini-I and Jhunsi	1-Feb-21	1-Feb-21	1	-	-	-	Mr. Amit Ranjan Mr. Kumar Kashyap	1 1	-	-	-	-
1-Feb-21	Progress review meeting with PM (E&M) UPJN	1-Feb-21	1-Feb-21	1	-	-	-	Mr. Gaurav Pandey Mr. Gaurav Gupta	1 1	-	-	-	-
1-Feb-21	Regarding the request for plate load test from MNNIT for the determination of SBC for Naini-II STP, Phaphamau STP & Jhunsi STP of Package-I	27-Jan-21	6-Feb-21	10	10	-	-	Mr. Arpan Ghosh Mr. Abhishek singh	1 1	-	-	-	-
1-Feb-21	Site inspection of Phaphamau	1-Feb-21	1-Feb-21	1	-	-	-	Mr. Wahab Alam	1	-	-	-	-
2-Feb-21	Observation on SCADA & PLC Control System Configuration diagram-PHAPHAMAU STP	24-Dec-20	5-Feb-21	43	10	33	Concessionaire had not submitted all required document for this stage.	Mr. Atahar Ayyub	1	-	Concessionaire had not submitted all required document for this stage.	Asked to Concessionaire please submit all document which is mentioned last reviewed document	-

Project Engineer's activities for the month of "February' 2021"													
Date	Name of Activity#	Date of receipt	Date of Approval / Comments	No. of day taken	Time as per contract	Delay if any (No. of days) [7=5-6]	Reason for delay*	Key Personal deployed	Man-days of Each key Personal	Delay by Concessionaire	Reason of delay	Steps taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
2-Feb-21	Plant Layout - Package-II - Naini-I STP	28-Jan-21	5-Feb-21	8	10	-	-	Mr. Gaurav Pandey	1	-	-	-	-
2-Feb-21	Observation on drawings for Road & Drain at Naini II	31-Jan-21	10-Feb-21	10	10	-	-	Mr. Arpan Ghosh	1	-	-	-	-
2-Feb-21	Site inspection of Naini- II STP and assocait infrastructure	2-Feb-21	2-Feb-21	1	-	-	-	Mr. Kumar Kashyap	1	-	-	-	-
2-Feb-21	Site inspection of Jhunsi STP and assocait infrastructure	2-Feb-21	2-Feb-21	1	-	-	-	Mr. Abhishek singh	1	-	-	-	-
2-Feb-21	Site inspection of Phaphamau STP and assocait infrastructure	2-Feb-21	2-Feb-21	1	-	-	-	Mr. Wahab Alam	1	-	-	-	-
2-Feb-21	Site visit of Naini-I STP	2-Feb-21	2-Feb-21	1	-	-	-	Mr. Amit Ranjan	1	-	-	-	-
3-Feb-21	Observation on Motor docs for FCR & GRIT Blowers for Package-I STP : Prayagraj STP	13-Jan-21	5-Feb-21	23	10	13	Concessionaire has not provide 100 % stand by motor as per CA	Mr. Atahar Ayyub	1	-	Concessionaire has not provide 100 % stand by motor as per CA	Asked to Concessionaire please discuss this issue with UPJN and resolve it.	-
3-Feb-21	Sludge Reticulation pump and sludge heat exchanger civil foundation of Bio gas package Naini 1 STP As built Drawing	30-Jan-21	10-Feb-21	11	10	1	-	Mr. Arpan Ghosh Mr. Kumar Kashyap	1 1	-	-	-	-

Project Engineer's activities for the month of "February' 2021"													
Date	Name of Activity#	Date of receipt	Date of Approval / Comments	No. of day taken	Time as per contract	Delay if any (No. of days) [7=5-6]	Reason for delay*	Key Personal deployed	Man-days of Each key Personal	Delay by Concessionaire	Reason of delay	Steps taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
3-Feb-21	Plant Layout - Package-II - Rajapur STP	28-Jan-21	5-Feb-21	8	10	-	-	Mr. Gaurav Pandey	1	-	-	-	-
3-Feb-21	Site inspection of Jhunsi STP and associate infrastructure	3-Feb-21	3-Feb-21	1	-	-	-	Mr. Abhishek singh Mr. Amit Ranjan	1 1	-	-	-	-
3-Feb-21	Site inspection of Phaphamau STP and associate infrastructure	3-Feb-21	3-Feb-21	1	-	-	-	Mr. Wahab Alam	1	-	-	-	-
4-Feb-21	Site inspection of Jhunsi STP and associate infrastructure	4-Feb-21	4-Feb-21	1	-	-	-	Mr. Abhishek singh Mr. Amit Ranjan	1 1	-	-	-	-
4-Feb-21	Site inspection of Phaphamau STP and associate infrastructure	4-Feb-21	4-Feb-21	1	-	-	-	Mr. Wahab Alam	1	-	-	-	-
4-Feb-21	Field Instruments Data sheets & Specifications (Electromagnetic Flow meter - Additional) of C&I of NAINI - I STP & SLAORI STP of Package - II &III facilities of Prayagraj STP Project	29-Jan-21	5-Feb-21	7	10	-	-	Mr. Atahar Ayyub	1	-	-	-	These documents were submitted by PWPL without supporting engineering documents, i.e Instrument index
4-Feb-21	Site inspection of Naini-I STP	4-Feb-21	4-Feb-21	1	-	-	-	Mr. Gaurav Pandey	1	-	-	-	-

Project Engineer's activities for the month of "February' 2021"													
Date	Name of Activity#	Date of receipt	Date of Approval / Comments	No. of day taken	Time as per contract	Delay if any (No. of days) [7=5-6]	Reason for delay*	Key Personal deployed	Man-days of Each key Personal	Delay by Concessionaire	Reason of delay	Steps taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
4-Feb-21	SCADA Room civil drawing for AS BUILT in Naini 1 STP	31-Jan-21	10-Feb-21	10	10	-	-	Mr. Arpan Ghosh Mr. Kumar Kashyap	1 1	-	-	-	-
5-Feb-21	Operation & control philosophy of C&I of SPS for Package - I of Prayagraj STP Project	9-Jan-21	5-Feb-21	27	10	17	Concessionaire has not consider 100 % stand by equipment like Air blower, pump and etc. as per CA	Mr. Atahar Ayyub	1	-	Concessionaire has not consider 100 % stand by equipment like Air blower, pump and etc. as per CA	Asked to Concessionaire discuss this issue with UPJN and resolve it.	-
5-Feb-21	Observation on Solar Panel Arrangement Drawing - For Package-1 STPs	26-Jan-21	5-Feb-21	10	10	-	-			-	-	-	-
5-Feb-21	Observation on Valve schedule for Package II	29-Jan-21	5-Feb-21	7	10	-	-	Mr. Gaurav Pandey	1	-	-	-	-
5-Feb-21	Observation on Sluice Valve GAD for Package II & III	30-Jan-21	5-Feb-21	6	10	-	-			-	-	-	-
5-Feb-21	Regarding Operational Issues of Naini I facility as on 04.02.2021- Prayagraj HAM Project	5-Feb-21	5-Feb-21	1	-	-	-	Mr. Divvela Srimannarayana	1	-	-	-	-
5-Feb-21	Bedding calculation for mahewaghat Trunk sewer to naini ii mps_pck I__pck I	31-Jan-21	10-Feb-21	10	10	-	-	Mr. Arpan Ghosh	1	-	-	-	-
5-Feb-21	Regarding Availability of Naini I and Rajapur facilities under Package II - Prayagraj HAM project	5-Feb-21	5-Feb-21	1	-	-	-	Mr. Amit Ranjan	1	-	-	-	-

Project Engineer's activities for the month of "February' 2021"													
Date	Name of Activity#	Date of receipt	Date of Approval / Comments	No. of day taken	Time as per contract	Delay if any (No. of days) [7=5-6]	Reason for delay*	Key Personal deployed	Man-days of Each key Personal	Delay by Concessionaire	Reason of delay	Steps taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
5-Feb-21	Regarding successful implementation of Operation & Maintenance activities for Package III facilities: Requisite Concessionaire's obligations during O&M period	5-Feb-21	5-Feb-21	1	-	-	-	Mr. Gaurav Gupta Mr. Sudhir tomar	1 1	-	-	-	-
5-Feb-21	Site inspection of Naini- II STP and assocait infrastructure	5-Feb-21	5-Feb-21	1	-	-	-	Mr. Kumar Kashyap	1	-	-	-	-
5-Feb-21	Site inspection of Jhunsi STP and assocait infrastructure	5-Feb-21	5-Feb-21	1	-	-	-	Mr. Abhishek singh	1	-	-	-	-
5-Feb-21	Site inspection of Phaphamau STP and assocait infrastructure	5-Feb-21	5-Feb-21	1	-	-	-	Mr. Wahab Alam	1	-	-	-	-
6-Feb-21	Notice for Completion of Payment Milestone – II of Package – I	23-Jan-21	6-Feb-21	14	10	4	Concessionaire has not submitted all supportive document which is required as per CA	Mr. Divvela Srimannarayana Mr. Atahar Ayyub Mr. Abhishek Singh Mr. Kumar Kashyap Mr. Gaurav Pandey Mr. Wahab Alam	1 1 1 1 1 1	-	Concessionaire has not submitted all supportive document which is required as per CA	Asked to Concessionaire, Please submit remaining document which is required as per CA	-
6-Feb-21	Observation on revised Naini II FCR Tank Civil Drawings	28-Jan-21	6-Feb-21	9	10	-	-	Mr. Arpan Ghosh Mr. Amit Ranjan	1 1	-	-	-	-

Project Engineer's activities for the month of "February' 2021"													
Date	Name of Activity#	Date of receipt	Date of Approval / Comments	No. of day taken	Time as per contract	Delay if any (No. of days) [7=5-6]	Reason for delay*	Key Personal deployed	Man-days of Each key Personal	Delay by Concessionaire	Reason of delay	Steps taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
7-Feb-21	Sunday												
8-Feb-21	Observation on under taking for the open points on CRS of submersible pumps of Package-I	28-Jan-21	10-Feb-21	13	10	3	Concessionaire want's to deviation on efficiency as per CA	Mr. Divvela Srimannarayana Mr. Gaurav Pandey	1 1	-	Concessionaire want's to deviation on efficiency as per CA	Asked to Concessionaire please discuss this issue with UPJN and take the approval on CA.	-
8-Feb-21	Regarding approval of vendor for supply of sluice gate, tube settler & compressor	31-Jan-21	10-Feb-21	10	10	-	-	Mr. Amit Ranjan	1	-	-	-	-
8-Feb-21	Site inspection of Phaphamau STP and associate infrastructure	8-Feb-21	8-Feb-21	1	-	-	-	Mr. Wahab Alam	1	-	-	-	-
8-Feb-21	Site inspection of Naini-I STP	8-Feb-21	8-Feb-21	1	-	-	-	Mr. Atahar Ayyub	1	-	-	-	-
9-Feb-21	Observation on revised G.A drawings of Naini II MPS	9-Jan-21	10-Feb-21	32	10	22	Concessionaire want's to deviation on scope of work as per CA	Mr. Amit Ranjan Mr. Gaurav Pandey Mr. Atahar Ayyub	1 1 1	-	Concessionaire want's to deviation on scope of work as per CA	Asked to Concessionaire please discuss this issue with UPJN and take the approval on CA.	-
9-Feb-21	Site inspection of Jhunsi STP	9-Feb-21	9-Feb-21	1	-	-	-	Mr. Divvela Srimannarayana	1	-	-	-	-

Project Engineer's activities for the month of "February' 2021"													
Date	Name of Activity#	Date of receipt	Date of Approval / Comments	No. of day taken	Time as per contract	Delay if any (No. of days) [7=5-6]	Reason for delay*	Key Personal deployed	Man-days of Each key Personal	Delay by Concessionaire	Reason of delay	Steps taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
9-Feb-21	Site inspection of Naini-II STP	9-Feb-21	9-Feb-21	1	-	-	-	Mr. Kumar Kashyap	1	-	-	-	-
9-Feb-21	Site inspection of Phaphamau STP	9-Feb-21	9-Feb-21	1	-	-	-	Mr. Wahab Alam	1	-	-	-	-
10-Feb-21	Datasheet and GAD of Blowers for Package I	8-Feb-21	10-Feb-21	2	10	-	-	Mr. Gaurav Pandey Mr. Atahar Ayyub	1 1	-	-	-	-
10-Feb-21	Observation on revised GA Drawings for Mahewaghat SPS	21-Jan-21	10-Feb-21	20	10	10	Concessionaire want's to deviation on scope of work as per CA	Mr. Amit Ranjan Mr. Kumar Kashyap	1 1	-	Concessionaire want's to deviation on scope of work as per CA	Asked to Concessionaire please discuss this issue with UPJN and take the approval on CA.	-
10-Feb-21	Site inspection of Phaphamau STP	10-Feb-21	10-Feb-21	1	-	-	-	Mr. Wahab Alam Mr. Divvela Srimannarayana	1 1	-	-	-	-
11-Feb-21	Mauni Amaushya												
12-Feb-21	Site inspection of Naini-I STP	12-Feb-21	12-Feb-21	1	-	-	-	Mr. Gaurav Pandey Mr. Atahar Ayyub	1 1	-	-	-	-
12-Feb-21	Site inspection of Phaphamau STP	12-Feb-21	12-Feb-21	1	-	-	-	Mr. Wahab Alam Mr. Divvela Srimannarayana	1 1	-	-	-	-

Project Engineer's activities for the month of "February' 2021"													
Date	Name of Activity#	Date of receipt	Date of Approval / Comments	No. of day taken	Time as per contract	Delay if any (No. of days) [7=5-6]	Reason for delay*	Key Personal deployed	Man-days of Each key Personal	Delay by Concessionaire	Reason of delay	Steps taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
12-Feb-21	Site inspection of Naini-II STP	12-Feb-21	12-Feb-21	1	-	-	-	Mr. Kumar Kashyap	1	-	-	-	-
13-Feb-21	Site inspection of Jhunsi STP	13-Feb-21	13-Feb-21	1	-	-	-	Mr. Abhishek singh Mr. Divvela Srimannarayana	1 1	-	-	-	-
13-Feb-21	Site inspection of Naini-I STP	13-Feb-21	13-Feb-21	1	-	-	-	Mr. Gaurav Pandey Mr. Atahar Ayyub	1 1	-	-	-	-
13-Feb-21	Site inspection of Naini-II STP	13-Feb-21	13-Feb-21	1	-	-	-	Mr. Kumar Kashyap Mr. Amit Ranjan	1 1	-	-	-	-
13-Feb-21	Site inspection of Phaphamau STP	13-Feb-21	13-Feb-21	1	-	-	-	Mr. Wahab Alam	1	-	-	-	-
14-Feb-21	Sunday												
15-Feb-21	Completion of 2nd Milestone of Package-I facilities for the "Prayagraj STP Projects under HAM based PPP mode"	16-Feb-21	16-Feb-21	1	7	-	-	Mr. Kumar Kashyap Mr. Abhishek Singh Mr. Wahab Alam	1 1 1	-	-	-	-
15-Feb-21	Completion of 2nd Milestone of Package-I facilities for the "Prayagraj STP Projects under HAM based PPP mode"	16-Feb-21	16-Feb-21	1	7	-	-	Mr. Amit Ranjan Mr. Gaurav Pandey Mr. Atahar Ayyub	1 1 1	-	-	-	-

Project Engineer's activities for the month of "February' 2021"													
Date	Name of Activity#	Date of receipt	Date of Approval / Comments	No. of day taken	Time as per contract	Delay if any (No. of days) [7=5-6]	Reason for delay*	Key Personal deployed	Man-days of Each key Personal	Delay by Concessionaire	Reason of delay	Steps taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
15-Feb-21	Regarding use of SRC cement for RCC pipes	16-Feb-21	16-Feb-21	1	-	-		Mr. Arpan Ghosh	1	-	-	-	-
16-Feb-21	Basant Panchmi												
17-Feb-21	Site inspection of Jhunsi STP	17-Feb-21	17-Feb-21	1	-	-	-	Mr. Abhishek singh Mr. Divvela Srimannarayana	1 1	-	-	-	-
17-Feb-21	Site inspection of Naini-I STP	17-Feb-21	17-Feb-21	1	-	-	-	Mr. Atahar Ayyub	1	-	-	-	-
17-Feb-21	Site inspection of Naini-II STP	17-Feb-21	17-Feb-21	1	-	-	-	Mr. Kumar Kashyap Mr. Amit Ranjan	1 1	-	-	-	-
17-Feb-21	Site inspection of Phaphamau STP	17-Feb-21	17-Feb-21	1	-	-	-	Mr. Wahab Alam	1	-	-	-	-
18-Feb-21	Reg. Slow work progress at Phaphamau STP _14 MLD	18-Feb-21	18-Feb-21	1	-	-	-	Mr. Wahab Alam Mr. Amit Ranjan	1 1	-	-	-	-
18-Feb-21	Regarding operational issues of Ghagharnalla MPS.- HAM Prayagraj project	18-Feb-21	18-Feb-21	1	-	-	-	Mr. Divvela Srimannarayana	1	-	-	-	-

Project Engineer's activities for the month of "February' 2021"													
Date	Name of Activity#	Date of receipt	Date of Approval / Comments	No. of day taken	Time as per contract	Delay if any (No. of days) [7=5-6]	Reason for delay*	Key Personal deployed	Man-days of Each key Personal	Delay by Concessionaire	Reason of delay	Steps taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
18-Feb-21	Site inspection of Naini-I STP	18-Feb-21	18-Feb-21	1	-	-	-	Mr. Atahar Ayyub	1	-	-	-	-
18-Feb-21	Site inspection of Naini-II STP	18-Feb-21	18-Feb-21	1	-	-	-	Mr. Kumar Kashyap	1	-	-	-	-
18-Feb-21	Site inspection of Jhunsi STP	18-Feb-21	18-Feb-21	1	-	-	-	Mr. Abhishek Singh	1	-	-	-	-
19-Feb-21	Observation on Lime Handling system for various STP location at Prayagraj STP	11-Feb-21	19-Feb-21	8	10	-	-	Mr. Divvela Srimannarayana	1	-	-	-	-
19-Feb-21	Site inspection of Jhunsi STP	19-Feb-21	19-Feb-21	1	-	-	-	Mr. Abhishek singh	1	-	-	-	-
19-Feb-21	Site inspection of Naini-I STP	19-Feb-21	19-Feb-21	1	-	-	-	Mr. Atahar Ayyub	1	-	-	-	-
19-Feb-21	Site inspection of Naini-II STP	19-Feb-21	19-Feb-21	1	-	-	-	Mr. Kumar Kashyap	1	-	-	-	-
19-Feb-21	Site inspection of Phaphamau STP	19-Feb-21	19-Feb-21	1	-	-	-	Mr. Wahab Alam Mr. Amit Ranjan	1 1	-	-	-	-

Project Engineer's activities for the month of "February' 2021"													
Date	Name of Activity#	Date of receipt	Date of Approval / Comments	No. of day taken	Time as per contract	Delay if any (No. of days) [7=5-6]	Reason for delay*	Key Personal deployed	Man-days of Each key Personal	Delay by Concessionaire	Reason of delay	Steps taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
20-Feb-21	KPI Adherence Report for the month of January , 2021	10-Feb-21	26-Feb-21	16	10	6	Concessionaire had not submitted many document which is required as per CA.	Mr. Gaurav Gupta	1	-	Concessionaire had not submitted many document which is required as per CA.	Asked to Concessionaire please submit all remaining document which is required as per CA	-
20-Feb-21	Observation on Schedule Maintenance Program of Package – III for the calendar year, 2021	18-Feb-21	26-Feb-21	8	10	-	-	Mr. Sudhir Tomar	1	-	-	-	-
20-Feb-21	Site inspection of Jhunsi STP	20-Feb-21	20-Feb-21	1	-	-	-	Mr. Abhishek singh	1	-	-	-	-
20-Feb-21	Site inspection of Naini-I STP	20-Feb-21	20-Feb-21	1	-	-	-	Mr. Atahar AyyubMr. Amit Ranjan	11	-	-	-	-
20-Feb-21	Site inspection of Naini-II STP	20-Feb-21	20-Feb-21	1	-	-	-	Mr. Kumar Kashyap	1	-	-	-	-
20-Feb-21	Site inspection of Phaphamau STP	20-Feb-21	20-Feb-21	1	-	-	-	Mr. Wahab Alam	1	-	-	-	-
21-Feb-21	Sunday												
22-Feb-21	Site inspection of Naini-I STP	22-Feb-21	22-Feb-21	1	-	-	-	Mr. Gaurav Pandey	1	-	-	-	-

Project Engineer's activities for the month of "February' 2021"													
Date	Name of Activity#	Date of receipt	Date of Approval / Comments	No. of day taken	Time as per contract	Delay if any (No. of days) [7=5-6]	Reason for delay*	Key Personal deployed	Man-days of Each key Personal	Delay by Concessionaire	Reason of delay	Steps taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
22-Feb-21	Site inspection of Naini-II STP	22-Feb-21	22-Feb-21	1	-	-	-	Mr. Kumar Kashyap Mr. Amit Ranjan	1 1	-	-	-	-
22-Feb-21	Site inspection of Phaphamau STP	22-Feb-21	22-Feb-21	1	-	-	-	Mr. Wahab Alam	1	-	-	-	-
23-Feb-21	Site inspection of Naini-I STP	23-Feb-21	23-Feb-21	1	-	-	-	Mr. Gaurav Pandey	1	-	-	-	-
23-Feb-21	Site inspection of Naini-II STP	23-Feb-21	23-Feb-21	1	-	-	-	Mr. Kumar Kashyap Mr. Amit Ranjan	1 1	-	-	-	-
23-Feb-21	Site inspection of Phaphamau STP	23-Feb-21	23-Feb-21	1	-	-	-	Mr. Wahab Alam	1	-	-	-	-
23-Feb-21	Observation on Revised & Final FEED Documents for Package II	17-Feb-21	23-Feb-21	6	10	-	-	Mr. Divvela Srimannarayana Mr. Aatahar Ayyub	3 2	-	-	-	-
24-Feb-21	Site inspection of Naini-I STP	24-Feb-21	24-Feb-21	1	-	-	-	Mr. Atahar Ayyub	1	-	-	-	-
24-Feb-21	Site inspection of Naini-II STP	24-Feb-21	24-Feb-21	1	-	-	-	Mr. Kumar Kashyap	1	-	-	-	-

Project Engineer's activities for the month of "February' 2021"													
Date	Name of Activity#	Date of receipt	Date of Approval / Comments	No. of day taken	Time as per contract	Delay if any (No. of days) [7=5-6]	Reason for delay*	Key Personal deployed	Man-days of Each key Personal	Delay by Concessionaire	Reason of delay	Steps taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
24-Feb-21	Site inspection of Phaphamau STP	24-Feb-21	24-Feb-21	1	-	-	-	Mr. Wahab Alam Mr. Amit Ranjan	1 1	-	-	-	-
24-Feb-21	Observation on Mechanical & Manual Screens - Prayagraj Package-I	18-Feb-21	25-Feb-21	7	10	-	-	Mr. Divvela Srimannarayana	1	-	-	-	-
25-Feb-21	NAINI II MPS - Docs. of Mechanical and Manual Screens - Prayagraj Package- I	18-Feb-21	25-Feb-21	7	10	-	-	Mr. Divvela Srimannarayana	1	-	-	-	-
25-Feb-21	Site inspection of Naini-I STP	25-Feb-21	25-Feb-21	1	-	-	-	Mr. Atahar Ayyub	1	-	-	-	-
25-Feb-21	Site inspection of Naini-II STP	25-Feb-21	25-Feb-21	1	-	-	-	Mr. Kumar Kashyap	1	-	-	-	-
25-Feb-21	Site inspection of Phaphamau STP	25-Feb-21	25-Feb-21	1	-	-	-	Mr. Wahab Alam	1	-	-	-	-
26-Feb-21	Mohd Hazarat Ali Birthday												
27-Feb-21	Site inspection of Naini-I STP	27-Feb-21	27-Feb-21	1	-	-	-	Mr. Atahar Ayyub Mr. Gaurav Pandey	11	-	-	-	-

17. Operation and Maintenance report for February month –

<u>Naini-I STP, 80 MLD STP at Prayagraj</u> <u>INLET FLOW & QUALITY REPORT</u>														
Date	Daily Feed Quantity MLD (Design-80 MLD)		pH		BOD (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 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 Concentration (>20%)	Fecal Coliform (20,00,000 MPN/gTS)	
1-Feb-21	66300	66.30	7.36	7.41	140	28	303	39	NA	Lab set-up is not complete. Testing of this parameter is not done for complete month.	0.4	Lab set-up is not complete. Testing of this parameter is not done for complete month.	Lab set-up is not complete. Testing of this parameter is not done for complete month.	1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as commissioning of flowmeter is not completed at Naini I STP. 2) Plant Availability is not 100% as Rehabilitation works for Fourth Stream of STP are not completed yet. 3) Rehabilitation works for Gas Area of STP is in progress. 4) Rehabilitation work for Gaughat MPS & Chacharnalla SPS is in progress. 5) FST no. 3 is taken in operation on 01.02.2021.
2-Feb-21	65100	65.10	7.41	7.46	136	30	312	37	NA		0.5			1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as commissioning of flowmeter is not completed at Naini I STP. 2) Plant Availability is not 100% as Rehabilitation works for Fourth Stream of STP are not completed yet. 3) Rehabilitation works for Gas Area of STP is in progress. 4) Rehabilitation work for Gaughat MPS & Chacharnalla SPS is in progress.
3-Feb-21	68260	68.26	7.38	7.41	140	28	312	46	NA		0.4			1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as commissioning of flowmeter is not completed at Naini I STP. 2) Plant Availability is not 100% as Rehabilitation works for Fourth Stream of STP are not completed yet. 3) Rehabilitation works for Gas Area of STP is in progress. 4) Rehabilitation work for Gaughat MPS & Chacharnalla SPS is in progress. 5) Grit Removal Unit no.1 is taken into operation on 03.02.2021.
4-Feb-21	67750	67.75	7.34	7.43	145	26	309	48	NA		0.5			1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as commissioning of flowmeter is not completed at Naini I STP. 2) Plant Availability is not 100% as Rehabilitation works for Fourth Stream of STP are not completed yet. 3) Rehabilitation works for Gas Area of STP is in progress. 4) Rehabilitation work for Gaughat MPS & Chacharnalla SPS is in progress.
5-Feb-21	66790	66.79	7.32	7.54	135	29	302	49	NA		0.4			
6-Feb-21	70000	70.00	7.41	7.62	140	30	308	48	NA		0.5			
7-Feb-21	70060	70.06	7.44	7.48	135	30	298	47	NA		0.4			
8-Feb-21	65883	65.88	7.52	7.56	140	28	303	46	NA		0.3			
9-Feb-21	67910	67.91	7.49	7.48	130	26	299	43	NA		0.5			
10-Feb-21	63850	63.85	7.44	7.53	140	30	289	44	NA		0.4			
11-Feb-21	66683	66.68	7.53	7.46	135	28	305	45	NA		0.5			
12-Feb-21	65010	65.01	7.48	7.39	145	26	303	41	NA		0.3			

<u>Naini-I STP, 80 MLD STP at Prayagraj</u> <u>INLET FLOW & QUALITY REPORT</u>														
Date	Daily Feed Quantity MLD (Design-80 MLD)		pH		BOD (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 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 Concentration (>20%)	Fecal Coliform (20,00,000 MPN/gTS)	
13-Feb-21	58610	58.61	7.36	7.39	140	29	307	45	NA		0.5			1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as commissioning of flowmeter is not completed at Naini I STP. 2) Plant Availability is not 100% as Rehabilitation works for Fourth Stream of STP are not completed yet. 3) Rehabilitation works for Gas Area of STP is in progress. 4) Rehabilitation work for Gaughat MPS & Chacharnalla SPS is in progress. 5) Aeration Tank no. 3 is taken in operation on 13.02.2021.
14-Feb-21	66630	66.63	7.44	7.48	130	26	306	47	NA		0.4			1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as commissioning of flowmeter is not completed at Naini I STP. 2) Plant Availability is not 100% as Rehabilitation works for Fourth Stream of STP are not completed yet. 3) Rehabilitation works for Gas Area of STP is in progress. 4) Rehabilitation work for Gaughat MPS & Chacharnalla SPS is in progress.
15-Feb-21	62180	62.18	7.39	7.44	135	29	301	41	NA		0.5			1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as commissioning of flowmeter is not completed at Naini I STP. 2) Plant Availability is not 100% as Rehabilitation works for Fourth Stream of STP are not completed yet. 3) Rehabilitation works for Gas Area of STP is in progress. 4) Rehabilitation work for Gaughat MPS & Chacharnalla SPS is in progress. 5) Thickener no.1 is taken in operation on 15.02.2021.
16-Feb-21	65680	65.68	7.56	7.49	140	27	299	43	NA		0.3			1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as commissioning of flowmeter is not completed at Naini I STP. 2) Plant Availability is not 100% as Rehabilitation works for Fourth Stream of STP are not completed yet. 3) Rehabilitation works for Gas Area of STP is in progress. 4) Rehabilitation work for Gaughat MPS & Chacharnalla SPS is in progress. 5) Sample for sludge testing is taken from sludge drying beds hence the value of sludge consistency cannot be deemed as accurate. 6) Testing of fecal coliform for Effluent & sludge, sludge consistency is started from 19.02.2021.
17-Feb-21	65630	65.63	7.49	7.46	145	28	305	42	NA		0.5			
18-Feb-21	62500	62.50	7.53	7.59	135	25	308	39	NA		0.5			
19-Feb-21	65970	65.97	7.48	7.54	133	27	302	43	NA	600	0.4	25.40	1300000	
20-Feb-21	61610	61.61	7.54	7.59	136	29	311	42	NA	400	0.5	23.10	1400000	
21-Feb-21	58860	58.86	7.52	7.66	133	26	313	44	NA	500	0.6	26.90	1700000	
22-Feb-21	60960	60.96	7.46	7.52	139	28	306	40	NA	600	0.5	23.90	1100000	
23-Feb-21	58710	58.71	7.53	7.58	142	26	311	43	NA	500	0.4	22.50	1700000	

<u>Naini-I STP, 80 MLD STP at Prayagraj</u> <u>INLET FLOW & QUALITY REPORT</u>														
Date	Daily Feed Quantity MLD (Design-80 MLD)		pH		BOD (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 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 Concentration (>20%)	Fecal Coliform (20,00,000 MPN/gTS)	
24-Feb-21	64150	64.15	7.48	7.56	145	24	305	45	NA	400	0.5	23.10	1300000	1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as commissioning of flowmeter is not completed at Naini I STP. 2) Plant Availability is not 100% as Rehabilitation works for Fourth Stream of STP are not completed yet. 3) Rehabilitation works for Gas Area of STP is in progress. 4) Rehabilitation work for Gaughat MPS & Chacharnalla SPS is in progress. 5) PST no.3 is taken in operation on 24.02.2021. 6) Sample for sludge testing is taken from sludge drying beds hence the value of sludge consistency cannot be deemed as accurate.
25-Feb-21	64180	64.18	7.44	7.48	136	23	301	40	NA	500	0.4	24.90	1400000	1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as commissioning of flowmeter is not completed at Naini I STP. 2) Plant Availability is not 100% as Rehabilitation works for Fourth Stream of STP are not completed yet. 3) Rehabilitation works for Gas Area of STP is in progress. 4) Rehabilitation work for Gaughat MPS & Chacharnalla SPS is in progress. 5) Sample for sludge testing is taken from sludge drying beds hence the value of sludge consistency cannot be deemed as accurate.
26-Feb-21	64980	64.98	7.53	7.56	133	21	316	41	NA	600	0.5	22.80	1300000	
27-Feb-21	59760	59.76	7.44	7.49	138	24	313	43	NA	800	0.4	24.50	1600000	
28-Feb-21	61060	61.06	7.38	7.44	136	22	314	40	NA	700	0.5	23.20	1700000	
Average	64466.64	64.47	7.45	7.50	137.75	26.89	305.75	43.25	NA	560.00	0.45	24.03	1450000	

Source: Logbook of Laboratory at Sewage Treatment Plant



Rajapur STP, 60 MLD STP at Prayagraj INLET FLOW & QUALITY REPORT														
Date	Daily Feed Quantity MLD (Design-60 MLD)		pH		BOD (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 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 Concentration (>20%)	Fecal Coliform (20,00,000 MPN/gTS)	
1-Feb-21	93020	93.02	7.38	7.69	120	24	264	29	NA	Lab set-up is not complete. Testing of this parameter is not done for complete month.	0.5	Lab set-up is not complete. Testing of this parameter is not done for complete month.	Lab set-up is not complete. Testing of this parameter is not done for complete month.	1) Rehabilitation works for STP, Mumfordganj SPS are in progress. 2) Value of KPIs are on the higher side due to excess flow received in STP.
2-Feb-21	89990	89.99	7.40	7.72	130	25	276	33	NA		0.4			
3-Feb-21	86710	86.71	7.36	7.70	138	23	290	34	NA		0.5			
4-Feb-21	87060	87.06	7.37	7.74	128	22	284	30	NA		0.4			
5-Feb-21	90920	90.92	7.32	7.76	136	24	272	35	NA		0.3			
6-Feb-21	93680	93.68	7.34	7.76	130	23	250	33	NA		0.4			
7-Feb-21	80720	80.72	7.35	7.74	126	25	285	30	NA		0.4			
8-Feb-21	91000	91.00	7.32	7.73	132	21	292	36	NA		0.5			
9-Feb-21	92450	92.45	7.42	7.78	140	22	256	34	NA		0.5			
10-Feb-21	89310	89.31	7.40	7.76	144	24	271	35	NA		0.5			
11-Feb-21	96310	96.31	7.45	7.80	128	23	295	34	NA		0.4			
12-Feb-21	98970	98.97	7.42	7.79	134	21	278	36	NA		0.5			
13-Feb-21	86760	86.76	7.45	7.82	130	22	288	32	NA		0.5			
14-Feb-21	94130	94.13	7.43	7.80	136	20	292	27	NA		0.5			
15-Feb-21	96020	96.02	7.45	7.78	140	18	248	26	NA		0.5			
16-Feb-21	95460	95.46	7.42	7.75	134	17	232	30	NA		0.5			1) Rehabilitation works for STP, Mumfordganj SPS are in progress. 2) Plant Availability is 100%.
17-Feb-21	94680	94.68	7.41	7.72	128	18	262	25	NA		0.4			
18-Feb-21	92290	92.29	7.45	7.73	138	16	275	27	NA		0.5			
19-Feb-21	87660	87.66	7.46	7.75	144	19	282	29	NA	700	0.4	26.52	1700000	1) Rehabilitation works for STP, Mumfordganj SPS are in progress. 2) Plant Availability is 100%. 3) Testing of fecal coliform for Effluent & sludge, sludge consistency is started from 19.02.2021. 4) Sample for sludge testing is taken from sludge drying beds hence the value of sludge consistency cannot be deemed as accurate.
20-Feb-21	84970	84.97	7.35	7.75	130	18	258	25	NA	500	0.5	25.42	1400000	
21-Feb-21	88490	88.49	7.32	7.72	120	16	270	26	NA	600	0.3	24.46	1700000	
22-Feb-21	89510	89.51	7.30	7.70	134	15	259	28	NA	400	0.4	28.51	1300000	
23-Feb-21	90960	90.96	7.34	7.74	130	17	280	25	NA	500	0.5	22.80	1700000	
24-Feb-21	91550	91.55	7.36	7.78	128	18	271	26	NA	700	0.4	23.72	1400000	
25-Feb-21	92210	92.21	7.42	7.79	136	16	292	24	NA	600	0.5	25.02	1400000	
26-Feb-21	83990	83.99	7.40	7.77	130	18	285	27	NA	700	0.5	23.60	1200000	
27-Feb-21	90010	90.01	7.35	7.75	125	17	268	26	NA	500	0.4	23.42	1300000	
28-Feb-21	88330	88.33	7.36	7.78	135	17	276	29	NA	700	0.4	21.35	1700000	
Average	90612.86	90.61	7.39	7.75	132.29	19.96	273.25	29.68	NA	590.00	0.45	24.48	1480000	

Source: Logbook of Laboratory at Sewage Treatment plant