

**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**  
**June 2021**



**Executing Agency**

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



**Funding Agency**

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

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

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

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

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

## 2. Hybrid Annuity Model (HAM)

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

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

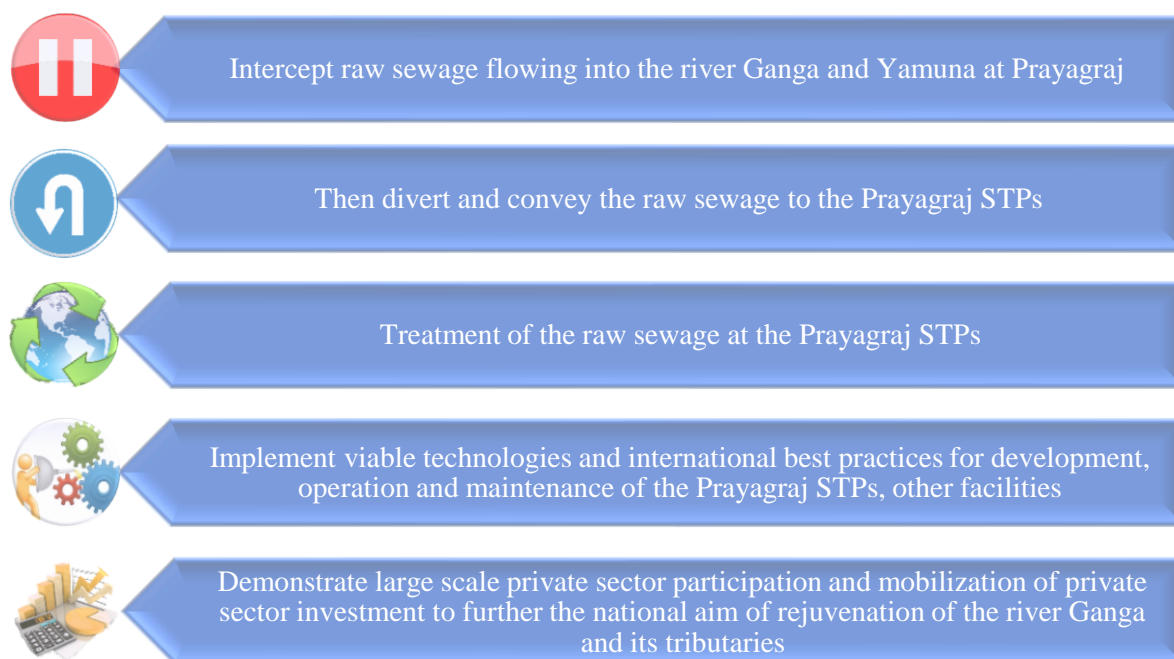
this model, private investor/developer will design, build, finance, construct, rehabilitate, renovate, operate and maintain the asset (STPs, IPS, and MPS) to the Project Executing Agency/Jal Nigam at the end of the Concession Period (15 years). 40% of the Capital cost will be paid to the developer during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

National Mission for Clean Ganga (NMCG) and Uttar Pradesh Jal Nigam (UPJN) appointed M/s. AECOM India Pvt. Ltd., as Project Engineer for this project through tendering process. Letter of Award is issued dated 4th February 2019 and agreement signed between the parties on 5<sup>th</sup> 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	<b>Development and Rehabilitation of Sewage Treatment Plants and Associated Infrastructure under HAM based PPP mode at Prayagraj, Uttar Pradesh</b>
	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 <sup>th</sup> 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

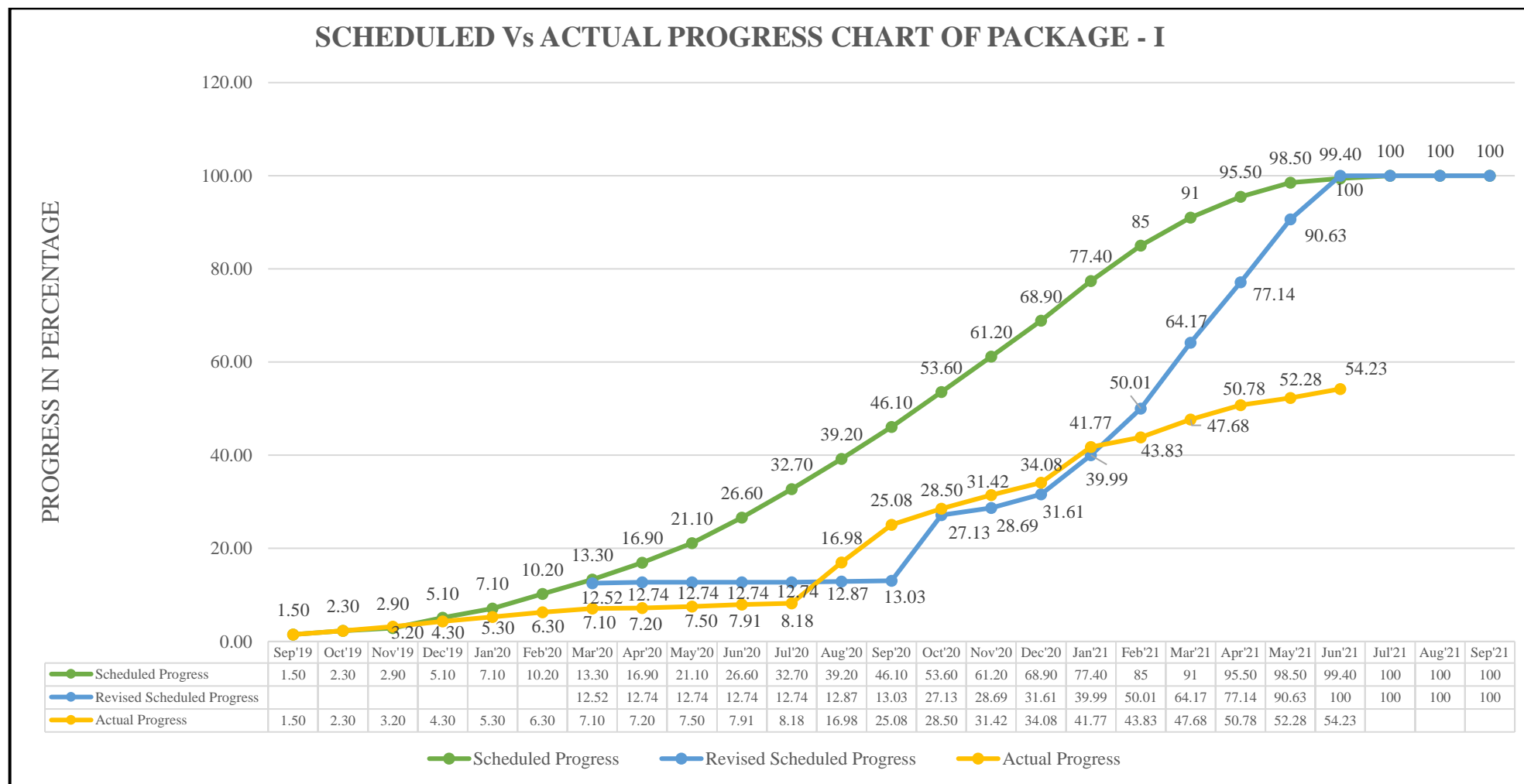
Package Number - I				
Nature of work		Facilities		
New construction		Design, develop, finance, construct, operate and maintain, and transfer the Package-I Facilities including three STP facilities with a proposed capacity of 42 MLD at Naini (District G), 14 MLD at Phaphamau (District F), and 16 MLD 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		
<b>Rehabilitation</b>		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		
<b>Rehabilitation</b>		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:



Note: Since Concessionaire submitted the Revised Construction Plan, which is under review. Therefore, status may be change after approval.

### 7.1.5 Physical Activities in June 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"> <li>Laundry Wall under Progress</li> </ul>
2.	Staff Quarter	01 No.	<ul style="list-style-type: none"> <li>Floor roof shuttering completed and reinforcement work under progress.</li> </ul>
3.	MPS	01 No.	<ul style="list-style-type: none"> <li>Plum concrete under progress.</li> <li>3<sup>rd</sup> lift of wall concreting under progress</li> </ul>
4.	Tube Settler	01 No.	<ul style="list-style-type: none"> <li>RCC work of CCT slab completed.</li> </ul>
5.	Basna Nalla SPS	01 No.	<ul style="list-style-type: none"> <li>No work</li> </ul>
NAINI – II STP			
6.	FCR tank	01 No.	<ul style="list-style-type: none"> <li>FCR Tank-A - 3rd lift concreting of next 2 Nos of wall completed.</li> <li>Tank B -RCC of 1st Lift Wall under progress</li> </ul>
7.	Tube Settler	01 No.	<ul style="list-style-type: none"> <li>PART A- Reinforcement work under progress.</li> <li>Part-B- Concreting of raft work completed.</li> </ul>
8.	Staff Quarter	01 No.	<ul style="list-style-type: none"> <li>Brick works under progress.</li> </ul>
9.	MPS	01 No.	<ul style="list-style-type: none"> <li>Raft casting completed.</li> </ul>
10.	Boundary Wall	01 No.	<ul style="list-style-type: none"> <li>No work</li> </ul>
11.	Process building	01 No.	<ul style="list-style-type: none"> <li>Excavation under progress.</li> </ul>
12.	Mahewaghat SPS	01 No.	<ul style="list-style-type: none"> <li>Concreting of Raft completed.</li> </ul>
13.	Mawaiya Nalla SPS	01 No.	<ul style="list-style-type: none"> <li>No work</li> </ul>
14.	DI Pipeline from Mahewaghat to Naini-II (300mm Dia.)	700 Rmt.	<ul style="list-style-type: none"> <li>680 Rmt. Laying Jointing, Backfilling completed. Hydro-Testing and Road Restoration work pending.</li> <li>In the June month No work</li> </ul>
15.	DI Pipeline from Mawaiya Nalla to Naini-II (800mm Dia.)	700 Rmt.	<ul style="list-style-type: none"> <li>545 Rmt. Laying Jointing, Backfilling completed. Hydro-Testing and Road Restoration work pending.</li> <li>In the June month No work</li> </ul>

16.	RCC 600 dia. From Mahewaghat to Naini-II	4490	• 2617.5 Rmt Laying work completed, and balance work under progress.
17.	RCC 1400 dia. From Mahewaghat to Naini-II	3050	• 1887 Rmt. Laying work completed, and balance work under progress.
18.	RCC 1600 mm Dia.	880	• 627.5 Rmt. Laying work completed
<b>JHUNSI STP</b>			
19.	FCR tank	01 No.	• 5 <sup>th</sup> lift wall & top beam shuttering and reinforcement work under progress.
20.	Process Building	01 No	• Excavation and Boulder Soling work completed.
21.	Tube Settler	01 No.	• 2 <sup>nd</sup> lift of Wall concrete work completed.
22.	Security Cabin	01 No.	• No work
23.	Staff Quarter	01 No.	• Brick work 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)
<b>Erection Commissioning, Trial Run and COD of Phaphamau STP (14 MLD) &amp; Associated works</b>							
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.	<b>FCR tank unit</b>	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	100	85	0	85
8.	Other Misc Works	01-04-21	15.06-21	100	0	0	0
9.	Hydrotesting	16-04-21	30-04-21	100	0	0	0
10.	<b>Tube settler, CCT &amp; Sludge storage Tank</b>	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	30-4-21	100	25	10	35
14.	Other Misc Works	01-03-21	19-04-21	100	0	0	0

Sr. No.	Work description	Scheduled Start Date	Scheduled End Date	Schedule d Completion (In %)	Completi on up to previous month (In %) (A)	This month Completi on (In%) (B)	Total Completio n (In %) (A+B)
15.	Hydrotesting	20-04-21	30-04-21	100	0	0	0
16.	<b>Main Process Building</b>	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	100	0	0	0
19.	PCC	01-02-21	28-02-21	100	0	0	0
20.	Structure completion (Expect finishing works)	01-02-21	15-06-21	100	0	0	0
21.	Other Misc Works	01-05-21	15-06-21	100	0	0	0
22.	Hydrotesting	01-06-21	15-06-21				
23.	<b>Basana Nala SPS and I&amp;D Works</b>	10-10-20	31-05-21				
24.	Excavation work	01-01-21	28-02-21	100	5	0	5
25.	PCC	01-01-21	10-03-21	100	0	0	0
26.	RCC upto completion	16-03-21	31-05-21	100	0	0	0
27.	Hydrotesting	01-05-21	31-05-21	100	0	0	0
28.	Boundary wall	10-10-20	27-02-21	100	0	0	0
29.	Staff quarter	01-03-21	31-05-21	100	0	0	0
30.	Other Misc Works	01-03-21	31-05-21	100	0	0	0
31.	<b>Shantipuram MPS and I&amp;D Works</b>	01-09-20	31-07-21				
32.	Excavation work	01-11-20	31-03-21	100	100	0	100
33.	PCC	01-03-21	15-03-21	100	100	0	100
34.	RCC work upto completion	16-03-21	31-05-21	100	25	12	25
35.	Other Misc Works	01-06-21	31-05-21	100	0	0	0
36.	Hydrotesting	01-05-21	31-03-21	100	0	0	0
37.	Staff quarter	01-09-20	31-03-21	100	63	7	70
38.	<b>Pipe laying ( Rising Main &amp; Gravity Main)</b>	01-03-21	15-06-21				
39.	<b>Rising main</b>	01-04-21	15-06-21				
40.	Excavation, Laying & Jointing, Backfilling/ Restoration works	01-04-21	15-06-21	100	0	0	0
41.	Hydrotesting	01-06-21	15-06-21	100	0	0	0
42.	<b>Gravity Main</b>	01-03-21	31-05-21				
43.	Excavation, Laying & Jointing, Backfilling/ Restoration works	01-03-21	20-05-21	100	0	0	0
44.	Hydrotesting	21-05-21	31-05-21	100	0	0	0

Sr. No.	Work description	Scheduled Start Date	Scheduled End Date	Schedule d Completion (In %)	Completi on up to previous month (In %) (A)	This month Completi on (In%) (B)	Total Completio n (In %) (A+B)
45.	<b>Other works</b>	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	50	0	0	0
48.	<b>Mechanical Erection-STP unit</b>	<b>01-05-21</b>	<b>15-06-21</b>				
49.	Pumps	01-05-21	15-06-21	100%	0%	0%	0%
50.	Lamella clarifier/ Tube settler	01-05-21	15-06-21	100%	0%	0%	0%
51.	Grit removal system	01-05-21	15-06-21	100%	0%	0%	0%
52.	Blowers & Diffuser	01-05-21	15-06-21	100%	0%	0%	0%
53.	Fire fighting System	01-05-21	15-06-21	100%	0%	0%	0%
54.	Screens	01-05-21	15-06-21	100%	0%	0%	0%
55.	Piping, Valves & Gates	01-05-21	15-06-21	100%	0%	0%	0%
56.	Chlorination	01-05-21	15-06-21	100%	0%	0%	0%
57.	Media Installation/ Bio module	01-05-21	15-06-21	100%	0%	0%	0%
58.	Other misc. work	01-05-21	15-06-21	100%	0%	0%	0%
59.	<b>Mechanical Erection-SPS &amp; MPS</b>	<b>01-05-21</b>	<b>15-06-21</b>				
60.	Pumps	01-05-21	15-06-21	100%	0%	0%	0%
61.	Screens	01-05-21	15-06-21	100%	0%	0%	0%
62.	Piping, Valves & Gates	01-05-21	15-06-21	100%	0%	0%	0%
63.	Other misc. work	01-05-21	15-06-21	100%	0%	0%	0%
64.	<b>Electrical and C&amp;I- STP Unit</b>	<b>01-04-21</b>	<b>15-06-21</b>				
65.	Transformer Installation	01-05-21	15-06-21	100%	0%	0%	0%
66.	HT/LT Panel erection	01-05-21	15-06-21	100%	0%	0%	0%
67.	Instrumentation works	01-05-21	15-06-21	100%	0%	0%	0%
68.	CCTV	01-05-21	15-06-21	100%	0%	0%	0%
69.	Cable Laying	01-05-21	15-06-21	100%	0%	0%	0%
70.	PLC Panel & Online monitoring system	01-05-21	15-06-21	100%	0%	0%	0%
71.	Solar Panel	01-04-21	15-06-21	100%	0%	0%	0%
72.	DG Installation	01-05-21	15-06-21	100%	0%	0%	0%
73.	Other misc. work	01-05-21	15-06-21	100%	0%	0%	0%
74.	<b>Electrical and C&amp;I- SPS &amp; MPS</b>	<b>01-05-21</b>	<b>15-06-21</b>				



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)
75.	Transformer Installation	01-05-21	15-06-21	100%	0%	0%	0%
76.	HT/LT Panel Erection	01-05-21	15-06-21	100%	0%	0%	0%
77.	CABLE LAYING	01-05-21	15-06-21	100%	0%	0%	0%
78.	DG Installation	01-05-21	15-06-21	100%	0%	0%	0%
79.	PLC Panel & Online monitoring system	01-05-21	15-06-21	100%	0%	0%	0%
80.	Other misc. work	01-05-21	15-06-21	100%	0%	0%	0%
81.	Commissioning of Mech., Electrical and C&I	01-06-21	15-06-21	100%	0%	0%	0%
82.	<b>Trial Run, Final Inspection and COD</b>	<b>16-06-21</b>	<b>15-09-21</b>				
83.	Trial Run and Final Inspection	16-06-21	14-09-21				
84.	COD	14-09-21	15-09-21				
85.	<b>Erection Commissioning, Trial Run and COD of Naini-II (42 MLD) &amp; Associated works</b>						
86.	Removal of shrubs	01-01-20	28-02-20	100	100	0	100
87.	<b>FCR tank unit</b>	01-01-20	31-05-21				
88.	Excavation work	01-02-20	15-03-20	100	100	0	100
89.	Boulder filling work	01-10-20	25-10-20	100	100	0	100
90.	PCC work	01-11-20	30-11-20	100	100	0	100
91.	RCC work upto completion	01-12-20	20-04-21	100	75	0	75
92.	Other Misc Works	01-04-21	31-05-21	100	0	0	0
93.	Hydrotesting	21-04-21	30-04-21	100	0	0	0
94.	<b>Tube settler, CCT &amp; Sludge storage Tank</b>	16-01-21	31-05-21				
95.	Earth work & Boulder filling work	16-01-21	31-01-21	100	100	0	100
96.	PCC work	16-01-21	31-01-21	100	100	0	100
97.	RCC work upto completion	01-02-21	20-04-21	100	25	0	25
98.	Other Misc Works	01-04-21	31-05-21	100	0	0	0
99.	Hydrotesting	21-04-21	30-04-21	100	0	0	0
100.	<b>Main Process Building</b>	01-01-21	31-05-21				
101.	Excavation	01-01-21	31-01-21	100	100	0	100
102.	Rubble soling/ Stone filling work	01-01-21	15-02-21	100	100	0	100
103.	PCC	16-02-21	28-02-21	100	0	25	25
104.	Structure completion (Expect finishing works)	16-02-21	15-05-21	100	0	0	0

Sr. No.	Work description	Scheduled Start Date	Scheduled End Date	Schedule d Completion (In %)	Completi on up to previous month (In %) (A)	This month Completi on (In%) (B)	Total Completio n (In %) (A+B)
105.	Other Misc Works	01-04-21	31-05-21	100	0	0	0
106.	Hydrotesting	16-05-21	31-05-21	100	0	0	0
107.	<b>Mawaiya SPS and I&amp;D work</b>	01-03-21	15-06-21				
108.	Excavation work	01-03-21	02-04-21	100	100	0	100
109.	PCC	03-04-21	15-04-21	100	100	0	100
110.	RCC WORK upto completion	16-04-21	05-06-21	100	0	0	0
111.	Hydrotesting	06-06-21	15-06-21	100	0	0	0
112.	Boundary wall	01-03-21	31-05-21	100	0	0	0
113.	Staff quarter	01-03-21	31-05-21	100	0	0	0
114.	I&D Other misc works	01-04-21	31-05-21	100	0	0	0
115.	<b>Mahewaghat SPS and I&amp;D work</b>	01-03-21	31-05-21				
116.	Excavation work	01-03-21	09-04-21	100	100	0	100
117.	PCC	10-04-21	15-04-21	100	100	0	100
118.	RCC Work upto completion	16-04-21	20-05-21	100	0	0	0
119.	Other finishing work	01-04-21	31-05-21	100	0	0	0
120.	Hydrotesting	21-05-21	31-05-21	100	0	0	0
121.	Boundary wall	01-03-21	31-05-21	100	0	0	0
122.	Staff quarter	01-03-21	30-04-21	100	0	0	0
123.	I&D Other misc works	01-03-21	31-05-21	100	0	0	0
124.	<b>Naini-II MPS and I&amp;D work</b>	26-10-20	31-05-21				
125.	Excavation work	16-01-21	31-03-21	100	100	0	100
126.	PCC	01-04-21	16-04-21	100	100	0	100
127.	RCC Work upto completion	17-04-21	15-05-21	100	0	0	0
128.	Other finishing work	01-04-21	10-03-21	100	0	0	0
129.	Hydrotesting	10-03-21	31-05-21	100	0	0	0
130.	Staff quarter	26-10-20	31-05-21	100	85	5	90
131.	I&D Other misc works	01-03-21	31-05-21	100	0	0	0
132.	<b>Pipe laying ( Rising Main &amp; Gravity Main)</b>	01-02-21	31-05-21				
133.	<b>Rising main</b>	01-02-21	31-05-21				
134.	Excavation, Laying & Jointing, Backfilling/ Restoration works	01-02-21	15-05-21	100	85	5	90

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)
135.	Hydrotesting	16-05-21	31-05-21	100	0	0	0
136.	<b>Gravity Main</b>	01-03-21	31-05-21				
137.	Excavation, Laying & Jointing, Backfilling/ Restoration works	01-03-21	15-05-21	100	35	25	60
138.	Hydrotesting	16-05-21	31-05-21	100	0	0	0
139.	<b>Other works</b>	01-01-20	15-06-21				
140.	Site office (Temporary office)	01-01-20	31-01-21	100	100	0	100
141.	Other misc works (Boundary Wall, Road, rain water harvesting, Land scaping etc)	01-07-20	15-06-21	100	55	10	65
142.	<b>Mechanical Erection-STP unit</b>	<b>01-05-21</b>	<b>15-06-21</b>				
143.	Pumps	01-05-21	15-06-21	100	0%	0%	0%
144.	Lamella clarifier/ Tube settler	01-05-21	15-06-21	100	0%	0%	0%
145.	Grit removal system	01-05-21	15-06-21	100	0%	0%	0%
146.	Piping, Valves & Gates	01-05-21	15-06-21	100	0%	0%	0%
147.	Fire fighting System	01-05-21	15-06-21	100	0%	0%	0%
148.	Chlorination	01-05-21	15-06-21	100	0%	0%	0%
149.	Blowers & Diffuser	01-05-21	15-06-21	100	0%	0%	0%
150.	screens	01-05-21	15-06-21	100	0%	0%	0%
151.	Media Installation/ Bio module	01-05-21	15-06-21	100	0%	0%	0%
152.	Other misc. work	01-05-21	15-06-21	100	0%	0%	0%
153.	<b>Mechanical Erection-SPS &amp; MPS</b>	<b>01-05-21</b>	<b>15-06-21</b>				
154.	Pumps	01-05-21	15-06-21	100	0%	0%	0%
155.	Screens	01-05-21	15-06-21	100	0%	0%	0%
156.	Piping, Valves & Gates	01-05-21	15-06-21	100	0%	0%	0%
157.	Other misc. work	01-05-21	15-06-21	100	0%	0%	0%
158.	<b>Electrical and C&amp;I- STP Unit</b>	<b>01-05-21</b>	<b>15-06-21</b>				
159.	Transformer Installation	01-05-21	15-06-21	100	0%	0%	0%
160.	HT/LT panel erection	01-05-21	15-06-21	100	0%	0%	0%
161.	PLC Panel & Online monitoring system	01-05-21	15-06-21	100	0%	0%	0%

Sr. No.	Work description	Scheduled Start Date	Scheduled End Date	Schedule d Completion (In %)	Completi on up to previous month (In %) (A)	This month Completi on (In%) (B)	Total Completio n (In %) (A+B)
162.	Instrumentation works	01-05-21	15-06-21	100	0%	0%	0%
163.	CCTV	01-05-21	15-06-21	100	0%	0%	0%
164.	CABLE LAYING	01-05-21	15-06-21	100	0%	0%	0%
165.	Solar Panel	01-05-21	15-06-21	100	0%	0%	0%
166.	Other misc. work	01-05-21	15-06-21	100	0%	0%	0%
167.	<b>Electrical and C&amp;I- SPS &amp; MPS</b>	<b>01-05-21</b>	<b>15-06-21</b>				
168.	Transformer Installation	01-05-21	15-06-21	100	0%	0%	0%
169.	HT/LT panel erection	01-05-21	15-06-21	100	0%	0%	0%
170.	CABLE LAYING	01-05-21	15-06-21	100	0%	0%	0%
171.	DG Installation	01-05-21	15-06-21	100	0%	0%	0%
172.	PLC Panel & Online monitoring system	01-05-21	15-06-21	100	0%	0%	0%
173.	Other misc. work	01-05-21	15-06-21	100	0%	0%	0%
174.	Commissioning of Mech., Electrical and C&I	01-06-21	15-06-21				
175.	<b>Trial Run, Final Inspection and COD</b>	<b>16-06-21</b>	<b>15-09-21</b>				
176.	Trial Run and Final Inspection	16-06-21	14-09-21				
177.	COD	14-09-21	15-09-21				
178.	<b>Erection Commissioning, Trial Run and COD of Jhunsu STP (16 MLD) &amp; Associated works</b>						
179.	<b>FCR tank unit</b>	<b>01-10-2020</b>	15-06-21				
180.	Excavation work	01-10-20	25-10-20	100	100	0	100
181.	Boulder filling work	26-10-20	29-10-20	100	100	0	100
182.	PCC work	30-10-20	30-10-20	100	100	0	100
183.	RCC upto completion	31-10-20	30-04-21	100	70	20	90
184.	Other finishing work	01-05-21	15-06-21	100	0	0	0
185.	Hydrotesting	01-05-21	30-05-21	100	0	0	0
186.	<b>Tube settler, CCT &amp; Sludge storage Tank</b>	01-01-21	15-06-21				
187.	Earth work & Boulder filling work	01-01-21	15-02-21	100	100	0	100
188.	PCC work	16-02-21	28-02-21	100	100	0	100
189.	RCC upto completion	01-03-21	20-05-21	100	25	10	35
190.	Other finishing work	01-05-21	31-05-21	100	0	0	0
191.	Hydrotesting	21-05-21	31-05-21	100	0	0	0
192.	<b>Main Process Building</b>	01-03-21	15-06-21				
193.	Excavation & Column	01-03-21	15-04-21	100	0	95	95

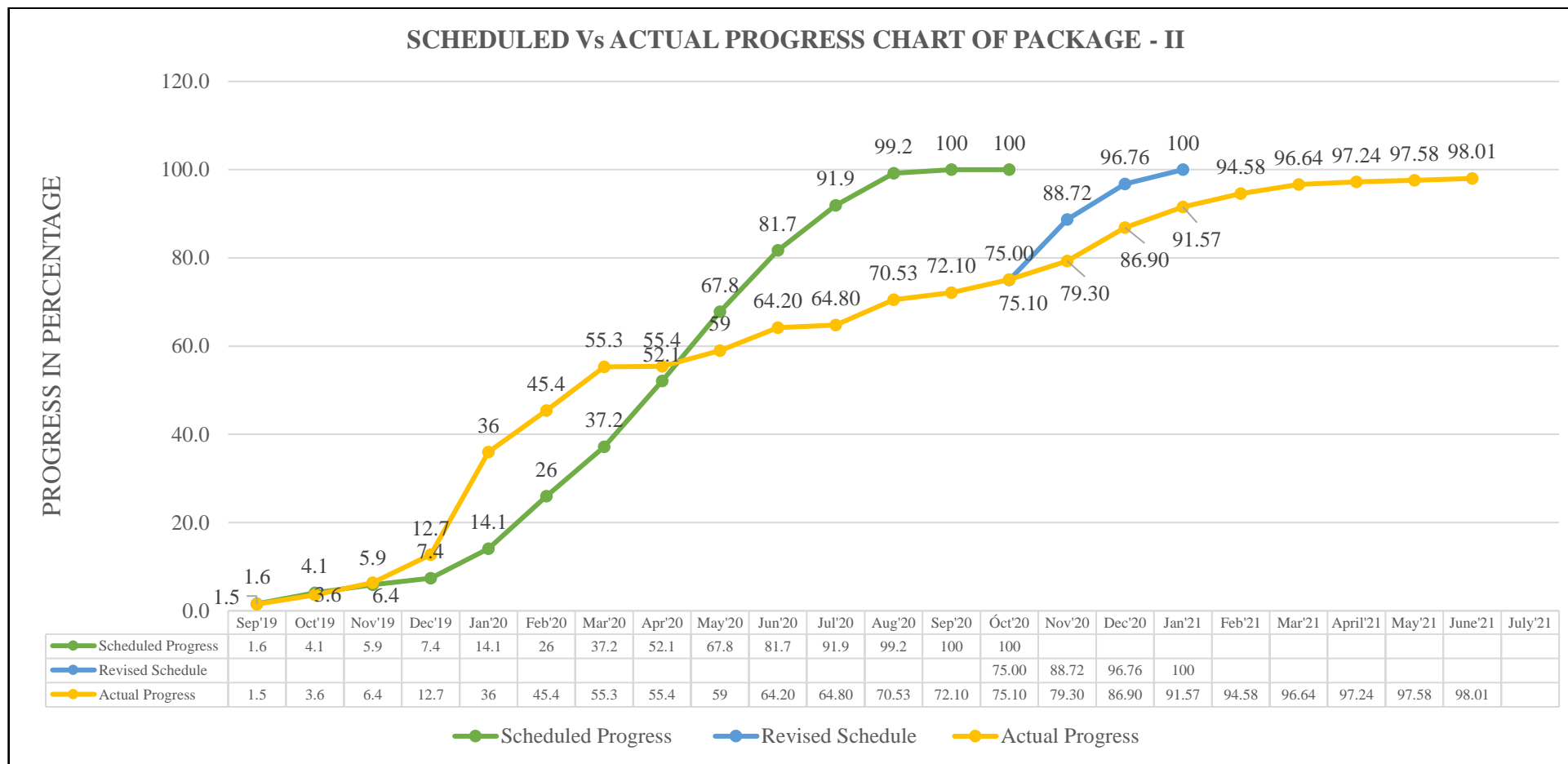
Sr. No.	Work description	Scheduled Start Date	Scheduled End Date	Schedule d Completion (In %)	Completi on up to previous month (In %) (A)	This month Completi on (In%) (B)	Total Completio n (In %) (A+B)
194.	Rubble soling/ Stone filling work	16-04-21	21-04-21	100	0	50	50
195.	PCC	22-04-21	26-04-21	100	0	0	0
196.	Structure completion (Expect finishing works)	27-04-21	31-05-21	100	0	0	0
197.	Other finishing work	01-05-21	15-06-21	100	0	0	0
198.	Hydrotesting	01-05-21	31-05-21	100	0	0	0
199.	<b>Shastri bridge SPS and I&amp;D work</b>	01-03-21	15-06-21				
200.	Excavation work	01-03-21	15-04-21	100	0	0	0
201.	PCC	16-04-21	22-04-21	100	0	0	0
202.	RCC upto completion	23-04-21	20-05-21	100	0	0	0
203.	Other finishing work	01-05-21	15-06-21	100	0	0	0
204.	Hydrotesting	21-05-21	31-05-21	100	0	0	0
205.	Boundary wall	01-03-21	31-05-21	100	0	0	0
206.	Staff quarter	01-03-21	31-05-21	100	0	0	0
207.	Other Misc works	01-05-21	15-06-21	100	0	0	0
208.	<b>Jhunsu MPS and I&amp;D work</b>	01-09-20	15-06-21				
209.	Excavation work	16-01-21	31-03-21	100	0	0	0
210.	PCC	01-04-21	22-04-21	100	0	0	0
211.	RCC upto completion	23-04-21	20-05-21	100	0	0	0
212.	Other finishing work	01-05-21	15-06-21	100			
213.	Hydrotesting	21-05-21	31-05-21	100			
214.	Staff quarter	01-09-20	31-03-21	100	60	0	60
215.	Other Misc works	01-04-21	15-06-21	100	0	0	0
216.	<b>Pipe laying ( Rising Main &amp; Gravity Main)</b>	01-03-21	31-05-21				
217.	<b>Rising main</b>	01-03-21	31-05-21				
218.	Excavation, Laying & Jointing, Backfilling/ Restoration works	01-03-21	20-05-21	100	1	9	10
219.	Hydrotesting	21-05-21	31-05-21	100	0	0	0
220.	<b>Gravity Main</b>	01-03-21	31-05-21				
221.	Excavation, Laying & Jointing, Backfilling/ Restoration works	01-03-21	20-05-21	100	0	0	0
222.	Hydrotesting	21-05-21	31-05-21	100	0	0	0

Sr. No.	Work description	Scheduled Start Date	Scheduled End Date	Schedule d Completion (In %)	Completi on up to previous month (In %) (A)	This month Completi on (In%) (B)	Total Completio n (In %) (A+B)
223.	<b>Other works</b>	01-02-20	15-06-21				
224.	Site office (Temporary office)	01-02-20	20-04-20	100	100	0	100
225.	Other misc works (Boundary Wall, Road, rain water harvesting, Land scaping etc)	01-03-21	15-06-21	100	0	0	0
226.	<b>Mechanical Erection-STP unit</b>	<b>01-04-21</b>	<b>15-06-21</b>				
227.	Pumps	01-04-21	15-06-21	100%	0%	0%	0%
228.	Lamella clarifier/ Tube settler	01-04-21	15-06-21	100%	0%	0%	0%
229.	Fire fighting System	01-04-21	15-06-21	100%	0%	0%	0%
230.	Chlorination	01-04-21	15-06-21	100%	0%	0%	0%
231.	Grit removal system	01-04-21	15-06-21	100%	0%	0%	0%
232.	Blowers & Diffuser	01-04-21	15-06-21	100%	0%	0%	0%
233.	Screens	01-04-21	15-06-21	100%	0%	0%	0%
234.	Piping, Valves & Gates	01-04-21	15-06-21	100%	0%	0%	0%
235.	Media Installation/ Bio module	01-04-21	15-06-21	100%	0%	0%	0%
236.	Other misc. work	01-04-21	15-06-21	100%	0%	0%	0%
237.	<b>Mechanical Erection-SPS &amp; MPS</b>	<b>01-04-21</b>	<b>15-06-21</b>				
238.	Pumps	01-04-21	15-06-21	100%	0%	0%	0%
239.	Screens	01-04-21	15-06-21	100%	0%	0%	0%
240.	Piping, Valves & Gates	01-04-21	15-06-21	100%	0%	0%	0%
241.	Other misc. work	01-04-21	15-06-21	100%	0%	0%	0%
242.	<b>Electrical and C&amp;I- STP Unit</b>	<b>01-04-21</b>	<b>15-06-21</b>				
243.	Transformer Installation	01-04-21	15-06-21	100%	0%	0%	0%
244.	HT/LT panel erection	01-04-21	15-06-21	100%	0%	0%	0%
245.	PLC Panel & Online monitoring system	01-04-21	15-06-21	100%	0%	0%	0%
246.	Instrumentation works	01-04-21	15-06-21	100%	0%	0%	0%
247.	CCTV	01-04-21	15-06-21	100%	0%	0%	0%
248.	Cable laying	01-04-21	15-06-21	100%	0%	0%	0%
249.	DG Installation	01-04-21	15-06-21	100%	0%	0%	0%
250.	Solar Panel	01-04-21	15-06-21	100%	0%	0%	0%
251.	Other misc. work	01-05-21	15-06-21	100%	0%	0%	0%
252.	<b>Electrical and C&amp;I- SPS &amp; MPS</b>	<b>01-04-21</b>	<b>15-06-21</b>				

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)
253.	Transformer Installation	01-05-21	15-06-21	100%	0%	0%	0%
254.	HT/LT Panel erection	01-04-21	15-06-21	100%	0%	0%	0%
255.	Cable laying	01-04-21	15-06-21	100%	0%	0%	0%
256.	DG Installation	01-04-21	31-05-21	100%	0%	0%	0%
257.	PLC Panel & Online monitoring system	01-04-21	15-06-21	100%	0%	0%	0%
258.	Other misc. work	01-04-21	15-06-21	100%	0%	0%	0%
259.	Commissioning of Mech., Electrical and C&I	01-06-21	15-06-21	100%	0%	0%	0%
260.	<b>Trial Run, Final Inspection and COD</b>	<b>15-06-21</b>	<b>15-09-21</b>				
261.	Trial Run and Final Inspection	15-06-21	14-09-21				
262.	<b>COD</b>	<b>14-09-21</b>	<b>15-09-21</b>				



## 7.2.4 Overall Package-II Progress



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

## 7.2.5 Rehabilitation status till June month

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
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 completed by site team. Concessionaire is required to get the calibration of flowmeter verified by Project Engineer/UPJN. 4) Earthing connections remains to be connected. 5) Construction of RCC chamber is completed. Installation of slab covers is pending.
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 completed by site team, Concessionaire is required to get the calibration of flowmeter verified by Project Engineer/UPJN. 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 but no progress is made in this regard. Required Knife Edge Gate Valve is not available. 5) Earthing connections remains to be connected. 6) Construction of RCC chamber is completed.
3.	Installation of flowmeter in Bypass line of Naini - I STP	Work is not started yet.
4.	Replacement of Sluice gates - 4 Nos at Inlet of TEPH sump of Naini – I STP	1) Erection work is completed. 2) Equipment are taken into operation on 02.01.2021.
5.	Replacement of PMCC panel in Naini-I STP	1) Erection of new electrical panel is completed. 2) Testing of panel is completed & it is charged. 3) Connection of cables for field equipment is completed. 4) All open spaces remains to be closed by chequered plates. 5) 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. No progress is made in this regard yet.
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.

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
7.	Installation of flowmeter in Effluent Bypass of Naini - I STP	1) Installation of flowmeter is completed. 2) Commissioning work is completed. 3) Calibration of flowmeter is pending. 4) Backflow of water towards flowmeter is arrested & RCC flooring at outside to prevent soil erosion at outlet point is constructed. 5) Earthing connections remains to connected. 6) Construction of RCC chamber for the flowmeter is not started yet.
8.	Replacement of Manual Screen with Mechanical Fine Screen - 1	1) Erection & commissioning of equipment is completed. 2) Equipment is taken into operation on 03.02.2021.
9.	Replacement of Manual Screen with Mechanical Fine Screen - 2	1) Erection & commissioning of equipment is completed. 2) Equipment is taken into operation on 09.01.2021.
10.	Replacement of Manual Screen with Mechanical Fine Screen - 3	1) Erection & commissioning of equipment is completed.2) A chute type arrangement is required at the end of compactor for properly transferring waste material.3) Equipment is taken into operation on 02.01.2021.
11.	Overhauling of Mechanical Screens of 20 MLD stream along with conveyor	1) Overhauling work is completed. 2) Equipment is taken into operation on 10.01.2021. 3) It has been observed that considerable amount of solid waste is passing the screens which is getting deposited in subsequent units of 20 MLD stream. Concessionaire to please check & rectify the problem.
12.	Rehabilitation works for Grit Removal Unit - 1	1) Erection & commissioning of equipment is completed. 2) Equipment is taken into operation on 03.02.2021. 3) Torque switch arrangement for scrapper mechanism as per approved FEED is not provided.
13.	Rehabilitation works for Grit Removal Unit - 2	1) Erection & commissioning of equipment is completed. 2) Equipment is taken into operation on 09.01.2021. 3) Torque switch arrangement for scrapper mechanism as per approved FEED is not provided. 4) Grit removal from the unit is not very efficient, Concessionaire to please check & resolve the issue.
14.	Rehabilitation works for Grit Removal Unit - 3	1) Erection & commissioning of equipment is completed. 2) Equipment is taken into operation on 02.01.2021. 3) Torque switch arrangement for scrapper mechanism as per approved FEED is not provided.
15.	Rehabilitation works for Grit Removal Unit - 4 (20 MLD)	1) Overhauling work is completed. 2) Equipment is taken into operation on 10.01.2021. 3) Torque switch arrangement for scrapper mechanism as per approved FEED is not provided.

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
16.	Replacement of Electrical Panel for Grit cum PST	<p>1) Erection of new electrical panel is completed.</p> <p>2) Testing of panel is completed &amp; it is charged.</p> <p>3) Connection of cables for field equipment is completed.</p> <p>5) All open spaces remains to be closed by chequered plates</p> <p>.</p>
17.	Rehabilitation works for PST - 1	<p>1) Erection &amp; commissioning of equipment is completed.</p> <p>2) Unit is taken into operation on 09.01.2021.</p> <p>3) Maintenance of Telescopic valve is pending.</p> <p>4) Scum removal system is not working efficiently as large amount of scum can be seen floating on the surface. Scum is fully filled in the box &amp; it is not going properly to collection chamber. Rectification of problem is required.</p> <p>5) Torque switch arrangement for scrapper mechanism as per approved FEEP is not provided.</p> <p>6)The Gap between scrapper blades &amp; floor was varying from 10 to 60 mm, when checked at the time of commissioning. Concessionaire is suggested that the gap must be maintained in between 20 - 30mm for increasing the efficiency of unit.</p>
18.	Rehabilitation works for PST - 2	<p>1) Erection &amp; commissioning of equipment is completed.2) Unit is taken into operation on 02.01.2021.3) Maintenance of Telescopic valve is pending.4) Scum removal system is not working efficiently as large amount of scum can be seen floating on the surface. Scum is fully filled in the box &amp; it is not going properly to collection chamber. Rectification of problem is required.5) Torque switch arrangement for scrapper mechanism as per approved FEEP is not provided. 6)The Gap between scrapper blades &amp; floor was varying from 10 to 60 mm, when checked at the time of commissioning. Concessionaire is suggested that the gap must be maintained in between 20 - 30mm for increasing the efficiency of unit.</p>
19.	Rehabilitation works for PST - 3	<p>1) Erection &amp; commissioning of equipment is completed.</p> <p>2) Unit is taken into operation on 24.02.2021.</p> <p>3) Maintenance of Telescopic valve is pending.</p> <p>4) Scum removal system is not working efficiently as large amount of scum can be seen floating on the surface. Scum is fully filled in the box &amp; it is not going properly to collection chamber. Rectification of problem is required.</p> <p>5) Torque switch arrangement for scrapper mechanism as per approved FEEP is not provided.</p> <p>6)The Gap between scrapper blades &amp; floor was varying from 10 to 60 mm, when checked at the time of commissioning. Concessionaire is suggested that the</p>

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		gap must be maintained in between 20 - 30mm for increasing the efficiency of unit.
20.	Rehabilitation works for PST - 4 (20 MLD)	<ul style="list-style-type: none"> <li>1) Overhauling work is completed.</li> <li>2) Equipment is taken into operation on 10.01.2021.</li> <li>3) Torque switch arrangement for scrapper mechanism as per approved FEEP is not provided.</li> <li>4) Scum removal system is not working efficiently as large amount of scum can be seen floating on the surface. Scum is fully filled in the box &amp; it is not going properly to collection chamber. Rectification of problem is required.</li> </ul>
21.	Replacement of Valves for Drain line of PST - 4 Nos	<ul style="list-style-type: none"> <li>1) Replacement of valves is completed.</li> <li>2) Installation of actuators is pending.</li> <li>3) Maintenance of telescopic valves is pending.</li> <li>4) Cleaning required for all valves chambers so that scum/sludge can flow freely without any choking problem.</li> <li>5) Installation of flushing arrangement for the drain valves is pending.</li> </ul>
22.	Rehabilitation works for Aeration Tank no. 1	<ul style="list-style-type: none"> <li>1) Erection &amp; commissioning of equipment is completed.</li> <li>2) Unit is taken into operation on 02.01.2021.</li> <li>3) Installation of DO analyzer as per approved FEEP is pending.</li> </ul>
23.	Rehabilitation works for Aeration Tank no. 2	<ul style="list-style-type: none"> <li>1) Erection &amp; commissioning of equipment is completed.</li> <li>2) Unit is taken into operation on 04.03.2021.</li> <li>3) Installation of DO analyzer as per approved FEEP is pending.</li> </ul>
24.	Rehabilitation works for Aeration Tank no. 3	<ul style="list-style-type: none"> <li>1) Erection &amp; commissioning of equipment is completed.</li> <li>2) Unit is taken into operation on 13.02.2021.</li> <li>3) Installation of DO analyzer as per approved FEEP is pending.</li> </ul>

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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.4) Installation of DO analyzer is completed. Calibration of DO analyzer is completed by site team, Concessionaire is required to get the calibration of DO analyzer verified by Project Engineer/UPJN.5) Interlink of DO analyzer with Aeration blowers is not done yet for running blower in auto mode.
26.	Replacement of Aeration Blowers for Aeration Tank of 20 MLD	1) Dismantling of one blower is completed. 2) As per initial plan, two old blowers were to be replaced by new blowers but new Air Blowers are not available at site. 3) Currently, two old blowers are ready for operation. 4) Currently, installation of third old blower is completed but it is not taken into operation yet.
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 FEEP is not provided. 4) The Gap between scrapper blades & floor was varying from 10 to 60 mm, when checked at the time of commissioning. Concessionaire is suggested that the gap must be maintained in between 20 - 30mm for increasing the efficiency of unit.
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 FEEP is not provided. 5) The Gap between scrapper blades & floor was varying from 10 to 60 mm, when checked at the time of commissioning. Concessionaire is suggested that the gap must be maintained in between 20 - 30mm for increasing the efficiency of unit.

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29.	Rehabilitation works for FST - 3	<p>1) Erection &amp; commissioning of scrapper is completed.</p> <p>2) Unit is taken into operation on 01.02.2021. Final Inspection of unit was not completed as unit was taken into operation for resolving the issues of FST 1&amp;2 (one by one) and for improving the quality of effluent.</p> <p>3) Sheets for current density baffle are not installed completely. Material is available at site.</p> <p>4) Concessionaire is suggested to complete the pending works.</p> <p>5) Torque switch arrangement for scrapper mechanism as per approved FEED is not provided.</p>
30.	Rehabilitation works for FST - 4 (20 MLD)	<p>1) Overhauling work is completed.</p> <p>2) Equipment is taken into operation on 10.01.2021.</p> <p>3) Torque switch arrangement for scrapper mechanism as per approved FEED is not provided.</p>
31.	Replacement of Valves for Drain line of FST - 4 Nos	<p>1) Replacement of valves is completed.</p> <p>2) Installation of actuators is pending.</p> <p>3) Installation of flushing arrangement for the drain valves must be completed.</p>
32.	Replacement of Electrical Panel for Return Sludge cum FST	<p>1) Erection of new electrical panel is completed.2) Testing of panel is completed &amp; it is charged.3) Connection of cables for field equipment is completed.4) All open spaces remains to be closed by chequered plates</p> <p>6)</p>
33.	Rehabilitation works for Return Sludge Pumps (60 MLD)	<p>1) Replacement of all suction valves, 2 nos discharge valves is completed.</p> <p>2) Erection &amp; commissioning of all pumps is completed.</p> <p>3) 4 nos NRVs &amp; 2 nos discharge vales are not available at site.</p> <p>4) Concessionaire is also required to resolve the design issues of Valves &amp; pumps as per observations given by UPJN/PE.</p> <p>5) Proper cable glands must be provided in terminal boxes.</p> <p>6) Currently, 3 pumps are in maintenance and 1 pump is ready for operation. Maintenance of pumps must be completed for running the pumps at full capacity.</p>
34.	Rehabilitation works for Return Sludge Pumps (20 MLD)	<p>1) Erection &amp; commissioning of all pumps is completed.</p> <p>2) Currently, 1 pump is in maintenance and 1 pump is ready for operation, hence no pump is in stand-by.</p>



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35.	Rehabilitation works for Thickener - 1	<p>1) Erection &amp; commissioning of equipment is completed.</p> <p>2) Unit is taken into operation on 15.02.2021.</p> <p>3) Torque switch arrangement for scrapper mechanism as per approved FEEP &amp; datasheet must be provided.</p> <p>4) It has been observed that thick layer of scum is formed on top of the water surface. To rectify the same, Concessioanire to please ensure that sludge and supenanatant are withdrawn at regular intervals from the Thickener.</p>
36.	Rehabilitation works for Thickener - 2	<p>1) Erection &amp; commissioning of equipment is completed.</p> <p>2) Unit is taken into operation on 16.03.2021.</p> <p>3) Torque switch arrangement for scrapper mechanism as per approved FEEP &amp; datasheet must be provided.</p> <p>4) It has been observed that thick layer of scum is formed on top of the water surface. To rectify the same, Concessioanire to please ensure that sludge and supenanatant are withdrawn at regular intervals from the Thickener.</p>
37.	Rehabilitation Works for Sludge Pumps of Thickener	<p>1) Civil modification work for the unit is completed.</p> <p>2) Erection of pumps is completed and unit is taken into operation on 15.02.2021.</p> <p>3) Currently, commissioning of two small pumps is completed and they are taken into operation. Commissioning of two big pumps is pending.</p> <p>4) Installation of exhaust fans is pending.</p>
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	<p>1) Valves are available at site, valve for thickener no. 1 is replaced but valve for thickener no. 2 is not completed as removal of old valve is not possible. Arrangements must be made to remove second valve also or otherwise installation of actuator will not be possible.</p> <p>2) Installation of actuators is pending.</p> <p>3) Installation of flushing arrangement for valves is pending.</p>
40.	Replacement of Electrical Panel for Digester cum Thickener	<p>1) Erection of new electrical panel is completed.</p> <p>2) Testing of panel is completed &amp; it is charged.</p> <p>3) Connection of cables for field equipment is completed.</p> <p>4) All open spaces remains to be closed by chequered plates</p>

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41.	Rehabilitation works for HNC pumps of Naini Area in TEPH	1) Erection of all HNC pumps is completed.2) Commissioning of all HNC pumps is completed.3) Replacement of Suction valve, discharge valve & NRVs is completed.4) Proper cable glands must be provided in terminal boxes.5) Currently, 1 pump is in maintenance and 5 pumps are ready for operation.6) NRV in header line must be replaced.
42.	Rehabilitation works for HNC pumps of Dandi Area in TEPH	1) Erection of all HNC pumps is completed. 2) Commissioning of all HNC pumps is completed. 3) Replacement of Suction valve, discharge valve & NRVs is completed. 4) Proper cable glands must be provided in terminal boxes.
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 in Gas engine room. 2) Commissioning work is completed. 3) Cleaning around the area is required.
45.	Replacement of HT Panel	1) Erection of new panel is completed. 2) Testing of panel is completed & it is charged. 3) All open spaces remains to be closed by chequered plates. 4) Rubber mats must be kept around HT panel. 5) Installation of Battery bank & battery charger is pending. Equipment is not available at site.
46.	Erection & Commissioning of New Transformers	1) Erection work is completed. 2) All testing works are completed. 3) Cable connection work is completed. 4) Load transfer to new Transformers is completed and it is charged.. 5) Fencing work and finishing work around transformer is pending.

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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 around DG sets. 6) Modification of civil foundation is required as part of requirement from OEM for completing the commissioning process. On the basis of same, synchronisation of DG sets also depends and currently STP is not running at full capacity during power cuts.
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 ensured for uninterrupted chlorine dosing. 5) Work for chlorine leakage sensors is pending.
49.	Erection & Commissioning of Leak Absorption System	1) Civil work is in progress. 2) Erection of new equipment is completed. 3) Commissioning work is pending.
50.	Erection & Commissioning of Sludge Dewatering System	1) Civil works are not completed yet. 2) E&M works not started yet.
51.	Rehabilitation Works for Filtrate Pumps	1) Erection & commissioning of 4 nos new pumps is completed. 2) Unit is taken into operation.
52.	Installation of flowmeter in Header line of HNC pumps for Dandi Area in TEPH	1) Installation of new flowmeter is completed. 2) Commissioning work is completed. 3) Calibration of flowmeter is completed by site team, Concessionaire is required to get the calibration of flowmeter verified by Project Engineer/UPJN. 4) Earthing connections remains to be connected. 5) Construction of RCC chamber is completed. Installation of slab covers is pending.
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 completed. 3) Calibration of flowmeter is completed by site team, Concessionaire is required to get the calibration of flowmeter verified by Project Engineer/UPJN. 4) Installation of slab covers on RCC chambers is pending.
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) Earthing connections remains to be connected for one thickener. 5) Calibration of flowmeter for one thickener is completed by site team, Concessionaire is required to

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		<p>get the calibration of flowmeter verified by Project Engineer/UPJN.</p> <p>6) Construction of RCC chamber is not started yet.</p>
55.	Installation of flowmeter in Header line of Submersible pumps from Thickener to Digester	<p>1) Flowmeter is available at site.</p> <p>2) Excavation work is started.</p>
56.	Installation of flowmeter in Return Sludge Line from RSPH of 60 MLD	<p>1) Installation of new flowmeter is completed but flowmeter of size 350mm is fitted in line of 300mm by giving enlargers at both ends. This must be checked as both enlargers are fitted within 2D &amp; 5D dimensions in downstream &amp; upstream respectively. This must be checked &amp; rectified as flowmeter can give wrong values.</p> <p>2) Commissioning work is not completed yet.</p> <p>3) Local Indicators not yet installed.</p> <p>4) Earthing connections remains to be connected.</p>
57.	Installation of flowmeter in Return Sludge Line from RSPH of 20 MLD	<p>1) Installation of new flowmeter is completed.</p> <p>2) Commissioning work is completed.</p> <p>3) Calibration of flowmeter is completed by site team, Concessionaire is required to get the calibration of flowmeter verified by Project Engineer/UPJN.</p> <p>4) Construction of RCC chamber is in progress.</p>

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58.	Erection & Commissioning of Online Instruments	<p>1) <b>Process Analyzers:</b> Erection of process analyzers at inlet and outlet is completed, commissioning work is completed. Calibration work is completed. For better results, it is suggested to keep sampling time less than 15 min. Process Analyzer at inlet is not giving correct readings as the sampling pump is not working properly, Concessionaire to please rectify the problem.2) <b>Chlorine Analyzer:</b> Erection &amp; commissioning of Chlorine Analyzer is completed. Calibration of analyzer is completed by site team, Concessionaire is required to get the calibration of analyzer verified by Project Engineer/UPJN. Also, the analyzer is not giving correct values.3) <b>DO Analyzers:</b> Erection &amp; commissioning of DO analyzers for Surface Aerators is not started yet. Installation of DO analyzer for 20 MLD is completed, Calibration of DO analyzer is completed by site team, Concessionaire is required to get the calibration of DO analyzer verified by Project Engineer/UPJN. Interlink of DO analyzer for 20 MLD with Aeration blowers is not done yet for running blowers in auto mode.4) <b>Level Sensors:</b> Erection, commissioning &amp; calibration of level instruments for all sumps is completed.5) <b>Differential level sensors:</b> Erection work is completed but commissioning is pending.6) Work for installation of online monitoring system for gas generation/sludge handling area is pending.</p>
59.	Erection & Commissioning of PLC panels	<p>1) Civil work for PLC / SCADA room is completed. 2) Erection works for PLC panels is completed. 3) Commissioning work is completed except for gas generation/sludge handling area. 4) Connection of equipment, field instruments is completed except for gas generation/sludge handling area.</p>
60.	Erection & Commissioning of SCADA System	<p>1) Civil work for PLC / SCADA room is completed. 2) Commissioning works for SCADA system is completed except for gas generation/sludge handling area.. 3) KPI &amp; Flow Report generation from SCADA is started. Running hour report for equipment is not started yet. 4) Communication from associated infrastructure is not received in Naini-I STP. 5) Provision for transmission of data from SCADA servers to Government offices as per conditions given in CA is not provided yet.</p>
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

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63.	Replacement of Sluice Gates in Inlet of Primary Settling Tanks	No work is in progress
64.	Replacement of Sluice Gates in Inlet of Aeration Tanks	No work is in progress
65.	Replacement of Sluice Gates in Inlet of Final Settling Tanks	No work is in progress
66.	Replacement of Valve in old header line from Guahan MPS	No work is in progress
67.	Replacement of other miscellaneous gates/valves for 60 MLD streams	No work is in progress
68.	Overhauling & Testing of Electrical panels for 20 MLD stream	No work is in progress
69.	Erection & Commissioning of APFC Panels	1) Construction work for trenches is completed.2) Erection work for panels is completed.3) Testing & Commissioning work is not completed yet.
70.	Service Water Pumps - 2 Nos	No work is in progress
71.	Dilution Water Pumps - 2 Nos	Pumps which were originally procured for dilution line are not used for thickened sludge pumping and dilution water will be taken from service water pumps.
72.	Rehabilitation works for Storm Water Pump House	No plan is submitted yet for the Rehabilitation works.
73.	Rehabilitation works for Digester no. 1	1) Cleaning work for the Digester is completed. 2) Erection of Gas mixing system is completed. 3) Sludge Piping work for digester is completed. 4) Leakage testing for digester was done and leakages were found from the top roof. Leakage rectification work is in progress.
74.	Rehabilitation works for Digester no. 2	1) Cleaning work for the Digester is in progress. 2) Core cutting work for fitting Gas mixing system is completed. 3) Erection of Gas mixing system is in progress. 5) Sludge Piping work for digester is completed.
75.	Rehabilitation works for Digester no. 3	1) Cleaning work for the Digester is in progress. 2) Core cutting work for fitting Gas mixing system is completed. 3) Erection of Gas mixing system is in progress. 5) Sludge Piping work for digester is completed.
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. 4) Erection of electrical panel is in progress.



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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 is completed. 3) Construction of foundation for Digester no. 3 is not started due to accumulation of sludge in that area. E&M works are not started yet. 3) Erection of heat exchanger - 1 no., sludge recirculation pumps - 2 nos of Digester no. 1 is completed. 4) Erection of heat exchanger - 1 no., sludge recirculation pumps - 2 nos of Digester no. 2 is completed. 4) Piping work for Digester no. 1 & 2 is completed. 5) Electrical connections for the unit is pending.
78.	Erection & Commissioning work of Gas Holder no. 1 & 2	1) PCC work is completed. 2) Raft construction work is completed. 3) Erection of gas holders is in progress.
79.	Erection & Commissioning of Dewatering Feed pumps	1) Construction of sludge sump is completed. 2) Piping work for Digester sludge sump is completed. 3) Construction of shed for dewatering feed pumps is in progress. 4) E&M works for dewatering feed pumps are 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 completed. 4) Erection work for exhaust chimney is completed. 5) E&I work is in progress. 6) Erection of working platform around gas engine is in progress.
81.	Erection & Commissioning of Control Panel Room for Gas Engine	1) Construction of cable trenches is completed. 2) Erection of electrical panels is completed. 3) Cable connection work is in progress.
82.	Erection & Commissioning of H <sub>2</sub> S Scrubber, Blowers - 2 Nos & Dehumidifier	1) Construction of foundation is completed. 2) Erection of Scrubber, blowers & dehumidifier is completed. 3) Piping work for the unit is completed. 4) Electrical connection for the equipments is pending. 4) Commissioning work is pending.
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 completed. 4) Power and control cables laying & connection work is pending.
84.	Erection & Commissioning of Radiator	1) Construction work for foundation is completed. 2) Erection of equipment is completed. 3) Piping work is completed. 4) Power and control cables laying & connection work is pending.



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85.	Erection & Commissioning of Ventilation System	1) Civil construction work is completed, finishing works are in progress. 2) E&M works for the unit are in progress.
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) E&I works for the gas flare are pending. 5) Commissioning work is pending. 6) Construction of chamber for moisture trap is completed. Installation of covers is pending.
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 not in progress. 2) Currently, no sludge drying bed is empty hence sludge withdrawal from the STP is not proper which in turn is severely affecting the quality of effluent.
90.	Set-up of Laboratory	1) Civil work, finishing work for the unit are completed. 2) Set-up of laboratory is completed.
91.	Overhauling of ultrasonic flowmeters in separate channels for 60 MLD & 20 MLD streams	No work is started yet.
92.	Overhauling/Replacement of HOT/EOT for complete STP	No work is started yet.
93.	Erection of Solar Power Plant	1) Erection of solar panels is completed. 2) Erection of Battery Bank is in progress. 3) Erection of Electrical panels is not started yet. 4) Cable laying is not started yet.
94.	<b>Ghagharnalla MPS</b>	
95.	Installation of flowmeter in old header line of Gaughat MPS	1) Installation of new flowmeter is completed. 2) Commissioning work is completed. 3) Calibration of flowmeter is completed by site team, Concessionaire is required to get the calibration of flowmeter verified by Project Engineer/UPJN. 4) Earthing connections remains to be connected. 5) Installation of slab covers for RCC chamber is pending.
96.	Installation of flowmeter in new header line of Gaughat MPS	1) Installation of new flowmeter is completed. 2) Commissioning work is completed. 3) Calibration of flowmeter is completed by site team, Concessionaire is required to get the calibration of flowmeter verified by Project Engineer/UPJN. 4) Earthing connections remains to be connected. 5) Construction of RCC chamber is completed. Installation of slab covers is pending.

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97.	Replacement of HNC pumps - 5 Nos	1) Dismantling of one pump is completed and erection of new pump is in progress.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. No work for the same is started yet.4) Currently, one old pump is in maintenance & two old pumps are ready for operation. Hence, no pump is in stand-by.5) Replacement of NRV in header line of HNC pumps is pending. Excavation work is completed but no work in progress currently.
98.	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 all pumps is completed. 5) Currently, only one pump is ready for operation and two pumps are under maintenance due to problem of electrical panel & mechanical seal respectively.
99.	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, one screen got bend at the bottom. Currently, the equipment is not in operation. 3) Other screen was not working satisfactorily as it is getting stuck frequently while lifting the waste. Currently it is taken out from its position for rectifying the problem. 4) As informed by the Concessionaire required spare parts are dispatched by the OEM and service engineer will also arrive for rectifying the problem. 5) Currently, no work is in progress. 6) Rectification of problems in mechanical screens must be done at the earliest as lot of waste can be seen reaching the sump of HNC pumps and it can seriously deteriorate various parts of pump. 7) Due to non-operation of mechanical screens, heading remains in the receiving chambers which in turn causes heading in the drain lines of local area.
100.	Replacement of Electrical Panel for DGs	Panel is charged & taken into operation.
101.	Cleaning of Receiving Chamber for HNC pumps	Cleaning of sump is completed.
102.	Cleaning of Receiving Chamber for Submersible pumps	Cleaning of sump is completed.

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103.	Erection & Commissioning of PLC panels	1) Civil work for PLC / SCADA room is completed. 2) Erection works for PLC panels is completed. 3) Commissioning work is completed. 4) Reading shown for one flowmeter is different from field display. Rectification of the problem is required. 5) Work for operation of HNC pumps from PLC and in auto mode (based on level of sump) is pending. 6) Work for operation of submersible pumps from PLC and in auto mode (based on level of sump) is pending. 7) Work for operation of mechanical screens (both old & new) from PLC and in auto mode (based on level of sump) is pending. 8) Report generation from SCADA is not started yet. 9) Connection of actuator operated valve with PLC system is pending.
104.	Erection & Commissioning of Online Instruments	1) <b>Level Sensors:</b> Erection, commissioning & calibration of level instruments for all sumps is completed. 2) <b>Differential level sensors:</b> Erection work is completed but commissioning is pending.
105.	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. 4) Rectification of problems in mechanical screens must be done at the earliest as lot of waste can be seen reaching the sump of HNC pumps and it can seriously deteriorate various parts of pump. 5) Due to non-operation of mechanical screens, heading remains in the receiving chambers which in turn causes heading in the drain lines of local area.
106.	Overhauling of DG sets	1) No work is in progress. 2) Repairing work of 11 KV DG synchronisation panel is pending. 3) Repairing work of 500 KVA/11KV DG set is pending. 4) Repairing of NGR panel is pending.
107.	Replacement of emergency gate	1) No work is in progress 2) Repairing of other sluice gates inside pumping station is pending.
108.	Overhauling & Testing of Old Electrical panels for HNC pump house & submersible pump house	No work is in progress
109.	Installation of Manual Screen in Receiving Chamber of Gaughat Pumping station	1) No work is in progress 2) As informed by the Concessionaire, order for the same is given.
110.	<b>Chacharnalla SPS</b>	

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
111.	Installation of flowmeter - 600mm in header line of VNC pumps in Chacharnalla SPS	1) Installation of new flowmeter is completed. 2) Commissioning work is completed. 3) Calibration of flowmeter is completed by site team, Concessionaire is required to get the calibration of flowmeter verified by Project Engineer/UPJN. 4) Earthing connections remains to be connected. 5) Construction of RCC chamber is completed. Installation of slab covers is pending.
112.	Overhauling/Calibration of flowmeter - 400mm in header line of VNC pumps in Chacharnalla SPS	1) As per information, flowmeter will not be replaced because old flowmeter is OK for operation. 2) Overhauling/calibration of old flowmeter is not started yet. 3) Currently, flowmeter is not working. 4) During visit, it was found that flow calculation was done on the basis of running hours of pumps which is not correct. Hence, both flowmeters must be made ready as part of online monitoring system or otherwise it will not be deemed as completed.
113.	Erection of Manual Screens at tapping points in Chacharnalla SPS	1) Erection of screens is completed. 2) Civil work is pending.
114.	Replacement of Big VNC pumps in Chacharnalla SPS	1) Erection & commissioning work for two new pumps is completed. 2) Testing of both new pumps is completed & both pumps are ready for operation. 3) Concessionaire is also required to resolve the design issues of Valves & pumps as per observations given by UPJN/PE. 4) Currently, two new pumps & one old pump is ready for operation. 5) As informed by Concessionaire, work for only two pumps will be done and third new pump will be installed in future as per requirement.
115.	Overhauling of Small VNC pumps	1) Overhauling work is not started yet. 2) Currently, both pumps are in working condition.
116.	Replacement of MCC panel at Chacharnalla SPS	1) Panel is taken into operation on 10.01.2021.
117.	Cleaning of Receiving Chamber at Chacharnalla SPS	Cleaning of sump is completed.
118.	Erection & Commissioning of PLC panels	1) Civil work for PLC / SCADA room is completed.2) Erection works for PLC panels is completed.3) Commissioning work is completed.4) Work for operation of VNC pumps (both 125 HP & 75 HP) in auto mode (based on level of sump) is pending.5) Work for operation of mechanical screens from PLC and in auto mode (based on level of sump) is pending.6) Report generation from SCADA is not started yet.

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
119.	Erection & Commissioning of Online Instruments	1) <b>Level Sensors:</b> Erection, commissioning & calibration of level instruments for all sumps is completed. 2) <b>Differential level sensors:</b> Erection work is completed but commissioning is pending.
120.	Overhauling of Mechanical Screens	1) Overhauling work is not started yet. 2) Currently, both screens are in working condition.
121.	Overhauling & Testing of Old Electrical panels	1) Repairing of PT & Relay in 11KV HT panle is pending. 2) No work is in progress
122.	Overhauling of DG sets	1) Overhauling work is not started yet. 2) During earlier visit, facility was checked by giving load on DGs and it was found that during the changeover, the lever inside incomer panel of DG was not working properly. Hence, servicing of old panels is required & it must be done from authorized vendors so that proper pumping during power cuts can also be ensured. Work for the same is still pending. 3) Repairing of DG set for 75 HP pumps is pending.
123.	Overhauling of all Sluice Gates inside pumping station	No work is in progress

RAJAPUR STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
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 of flowmeter is completed by site team, Concessionaire is required to get the calibration of flowmeter verified by Project Engineer/UPJN.
2.	Installation of flowmeter – 1 No. in Inlet line of Rajapur STP from Mumfordganj SPS	1) Commissioning of flowmeter is completed. 2) Calibration of flowmeter is completed by site team, Concessionaire is required to get the calibration of flowmeter verified by Project Engineer/UPJN.
3.	Installation of flowmeter in Outlet of Rajapur STP	1) Installation of flowmeter is completed. 2) Commissioning work is in progress. 3) Calibration of flowmeter is completed by site team, Concessionaire is required to get the calibration of flowmeter verified by Project Engineer/UPJN.
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.

RAJAPUR STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
Sr. No.	Structure / Equipment details	Status
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) It is observed that problem of leakage from HDP inlet pipes is very frequent. For minimising this problem, it was suggested to give proper supports under the pipes. Concessionaire to please do the needful.
9.	Rehabilitation works for UASB - 2	1) Dewatering of structure is not started yet. 2) Leakage rectification required from HDP pipes. 3) No cleaning work is in progress currently. 4) It is observed that problem of leakage from HDP inlet pipes is very frequent. For minimising this problem, it was suggested to give proper supports under the pipes. Concessionaire to please do the needful.
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) Rectification work for one surface aeration is completed & now it is taking normal amperes but it is observed that splashing of sewage has become half of the amount at earlier stage. This problem must be rectified or otherwise it will be difficult to maintain DO level in the aeration tank. 5) At the time of visit, only 8 aerators were found running which must be 12 as per process requirement. It must be ensured that minimum 12 aerators must run at a time. 6) Currently, 11 old & 1 new aerator is ready for operation and 3 aerators are in maintenance, hence no surface aerator is in stand-by.



RAJAPUR STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
Sr. No.	Structure / Equipment details	Status
11.	Rehabilitation works for Quiescent Zone	<p>1) Unit is taken into operation on 01.01.2021 without doing the cleaning work.</p> <p>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 &amp; low DO hence It is strongly suggested to complete the cleaning of Quiescent Zone to increase the treatment efficiency of the plant.</p>
12.	Rehabilitation works in MEP Room	<p>1) Floor restoration work is completed.</p> <p>2) Increase in height of Electrical Panels is completed.</p> <p>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 &amp; do the needful at the earliest.</p>
13.	Rehabilitation works in Metering Room	<p>1) Floor restoration work is completed.</p> <p>2) Increase in height of Electrical Panels is completed.</p> <p>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 &amp; do the needful at the earliest.</p>
14.	Cleaning of Sludge Drying Beds	<p>1) Cleaning work is not in progress.</p> <p>2) Currently, 8 sludge drying beds are empty, Concessionaire is suggested to empty remaining sludge drying beds also for preparation of monsoon season.</p>
15.	Increase in height of foundation for DGs	<p>1) Modification work for foundation is completed.2) Repairing of shed is pending.3) Operating plate from is required for DG operation.4) Increase in height of chimney is required as per CPCB norms.</p>
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	<p>1) No work is started for the system.</p> <p>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.</p>
18.	Rehabilitation works for Filtrate pump house	<p>1) No work is started for the system.</p> <p>2) Two filtrate pumps are available for the system but one pump is not available. Hence, repairing/overhauling of pumps is required.</p>



RAJAPUR STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
Sr. No.	Structure / Equipment details	Status
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. 3) It was also found that booster pumps were getting water from potable water system of plant which is completely against CPCB norms. Concessionaire to please look into the matter and make arrangement for using treated water in booster line.
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) <b>Process Analyzers:</b> Erection of process analyzers at inlet and outlet is completed, commissioning work is completed. Calibration work is completed. For better results, it is suggested to keep sampling time less than 15 min. Process Analyzer at inlet is not giving correct readings, Concessionaire to please rectify the problem.2) <b>Chlorine Analyzer:</b> Erection & commissioning of Chlorine Analyzer is completed. Calibration of analyzer is completed by site team, Concessionaire is required to get the calibration of analyzer verified by Project Engineer/UPJN. Also, the analyzer is not giving correct values.3) <b>DO Analyzers:</b> Erection & commissioning of DO analyzers for Surface Aerators is not started yet. 4) <b>Level Sensors:</b> Erection, commissioning & calibration of level instruments for all sumps is in progress.5) <b>Differential level sensors:</b> Erection work is completed but commissioning is pending.
23.	Erection & Commissioning of PLC panels	1) PLC panel installation is in Completed. 2) Cable connection work is completed. 3) Commissioning work is in progress.
24.	Erection & Commissioning of SCADA System	Work is in progress.
25.	Installation of flowmeter in Bypass line of STP	Flowmeter is not available at site
26.	Overhauling of All Electrical Panels of STP	No work started yet.
27.	Overhauling of Old flowmeters of STP	No work started yet.
28.	Set-up of Laboratory	1) Set-up of laboratory is completed.

RAJAPUR STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
Sr. No.	Structure / Equipment details	Status
29.	Overhauling/Calibration of existing flowmeter in header line of pumps	
30.	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 <sup>3</sup> /hr which is considerably less as per rated flow of individual pump i.e., 471 m <sup>3</sup> /hr. This must be checked & rectified.
31.	Overhauling of Mechanical Screen	Overhauling work is completed, and equipment is taken into operation.
32.	Cleaning of Receiving Chamber	Cleaning of sump is completed.
33.	Overhauling of sluice gates	Overhauling work for two gates is pending for which check nuts are required, order for the same is given.
34.	Replacement of inlet gate	
35.	Rehabilitation Works for tapping point of Rajapur SPS	1) Cleaning of channel is completed. 2) Retaining wall is completed.
36.	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 of flowmeter is completed by site team, Concessionaire is required to get the calibration of flowmeter verified by Project Engineer/UPJN. 4) Dismantling joint must be provided along with flowmeter for ease in maintenance.
37.	Overhauling of Mechanical Screen	1)Overhauling work is completed, and equipment is taken into operation.2) Currently, one screen is under maintenance & one is working. Second screen is also not able to lift waste efficiently from the sewage. Concessionaire is requested to rectify the problems.3) Provision for running of mechanical screens in auto mode is pending.
38.	Replacement of HNC pumps along with cables.	1) Dismantling of all pumps is completed. 2) Modification for foundation of all pumps is Completed. 3) Erection of all new pumps is completed. 4) Commissioning, testing of four pumps is completed. Commissioning of remaining two pumps is in progress.
39.	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. 5) MS Pipe painting is not started yet. 6) Construction of RCC supports for the pipe are not started yet.

RAJAPUR STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
Sr. No.	Structure / Equipment details	Status
40.	Rehabilitation works of MCC panel	Rehabilitation work is completed.
41.	Erection & Commissioning of PLC panels	1) Construction of PLC / SCADA room is completed. 2) Erection works for PLC panels is completed. 3) Commissioning work is in progress. 4) Connection of equipment, field instruments is completed. 4) Work for operation of HNC pumps in auto mode (based on level of sump) is pending. 5) Work for operation of mechanical screens from PLC and in auto mode (based on level of sump) is pending. 6) Report generation from SCADA is not started yet.
42.	Cleaning of Receiving Chamber	Cleaning of sump is completed.
43.	Overhauling/testing of Transformer	1) Overhauling work for Transformer no. 1 is pending. 2) Transfer No 02 after repairing/overhauling was received at site on date 13.03.2021. It is installed and taken in to operation.

## 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)
<b>Naini-I STP &amp; Associated Infrastructure &amp; Rajapur STP &amp; Associated Infrastructure</b>						
<b>Civil Work</b>						
Civil Work in Plant, MPS, SPS	1-sept-20	24-Jan-21	100	96	2	98
Building Work	1-sept-20	24-Jan-21	100	97	1	98
Office Work	1-sept-20	24-Jan-21	100	100	0	100
<b>Mechanical Work</b>						
Pumps, Blowers, Diffusers	1-Nov-20	24-Jan-21	100	96	2	98
Pipes, Valves, Gates, Screens	1-Nov-20	24-Jan-21	100	97	1	98
Sludge Dewatering System	1-Nov-20	24-Jan-21	100	0	0	0
Grit Removal System	20-Oct-20	24-Jan-21	100	100	0	100
Biogas Engine with Scrubber and Gas Mixing System	1-Nov-20	24-Jan-21	100	96	1	97
Chlorination System	1-Nov-20	24-Jan-21	100	100	0	100
<b>Electrical &amp; C&amp;I Work</b>						
PLC	1-Nov-20	24-Jan-21	100	99	0	99
Field Instruments (Gauges)	1-Nov-20	24-Jan-21	100	99	0	99
Level Transmitters	1-Nov-20	24-Jan-21	100	100	0	100
Analyzers	1-Nov-20	24-Jan-21	100	99	0	99
Cable Traying laying	1-Nov-20	24-Jan-21	100	99	0	99
Cable Laying, Termination and Glanding	1-Nov-20	24-Jan-21	100	98	1	99
<b>Commissioning / Trial Run</b>	25-Jan-21	31-Jan-21	100	0	0	0
<b>Final Inspection by Client</b>	25-Jan-21	30-Jan-21	100	0	0	0
<b>COD</b>	31-Jan-21	31-Jan-21	100	0	0	0

### 7.3 Package-III status



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

Letter No. 2336/PWPL(Adani)/423

To,

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

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

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

Sir,

With reference to the above mentioned subject, it is to be noted that we have issued the 2<sup>nd</sup> 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 June' 2021.

Sr. No.	Site Visit & Meeting with UPJN / NMCG / PWPL	Date	Attendees	Description
1.	Site inspection of Naini-I STP and progress review meeting with UPJN official	1-Jun-21	Mr. Amit Ranjan	Inspection, supervision and monitoring of ongoing E&M and Civil activities
2.	Site inspection of Phaphamau STP	1-Jun-21	Mr. Wahab Alam	Inspection, supervision and monitoring of ongoing Civil activities
3.	Site inspection of Phaphamau STP	2-Jun-21	Mr. Wahab Alam	Inspection, supervision and monitoring of ongoing Civil activities
4.	Site inspection of Jhunsi STP	2-Jun-21	Mr. Amit Ranjan	Inspection, supervision and monitoring of ongoing Civil activities
5.	Site inspection of Phaphamau STP	3-Jun-21	Mr. Wahab Alam	Inspection, supervision and monitoring of ongoing Civil activities
6.	Site inspection of Naini-I STP	3-Jun-21	Mr. Gaurav Pandey	Inspection, supervision and monitoring of ongoing E&M and Civil activities
7.	Site inspection of Jhunsi STP	4-Jun-21	Mr. Abhishek Singh	Inspection, supervision and monitoring of ongoing Civil activities
8.	Site inspection of Phaphamau STP	4-Jun-21	Mr. Wahab Alam	Inspection, supervision and monitoring of ongoing Civil activities
9.	Site inspection of Naini-I STP	8-Jun-21	Mr. Gaurav Pandey	Inspection, supervision and monitoring of ongoing E&M and Civil activities
10.	Site inspection of Phaphamau STP	8-Jun-21	Mr. Wahab Alam	Inspection, supervision and monitoring of ongoing Civil activities
11.	Site inspection of Jhunsi STP	8-Jun-21	Mr. Abhishek Singh Mr. Amit Ranjan	Inspection, supervision and monitoring of ongoing Civil activities
12.	Site inspection of Naini-I STP	9-Jun-21	Mr. Gaurav Pandey	Inspection, supervision and monitoring of ongoing E&M and Civil activities
13.	Site inspection of Phaphamau STP	10-Jun-21	Mr. Wahab Alam Mr. Amit Ranjan	Inspection, supervision and monitoring of ongoing Civil activities
14.	Site inspection of Phaphamau STP	12-Jun-21	Mr. Wahab Alam	Inspection, supervision and monitoring of ongoing Civil activities
15.	Site inspection of Phaphamau STP	17-Jun-21	Mr. Wahab Alam	Inspection, supervision and monitoring of ongoing Civil activities



Sr. No.	Site Visit & Meeting with UPJN / NMCG / PWPL	Date	Attendees	Description
16.	Site inspection of Naini-II STP	17-Jun-21	Mr. Amit Ranjan	Inspection, supervision and monitoring of ongoing Civil activities
17.	Site inspection of Jhunsi STP	17-Jun-21	Mr. Abhishek Singh	Inspection, supervision and monitoring of ongoing Civil activities
18.	Site inspection of Phaphamau STP	22-Jun-21	Mr. Wahab Alam	Inspection, supervision and monitoring of ongoing Civil activities
19.	Site inspection of Phaphamau STP	23-Jun-21	Mr. Wahab Alam Mr. Amit Ranjan	Inspection, supervision and monitoring of ongoing E&M and Civil activities
20.	Site inspection of Naini-I STP	23-Jun-21	Mr. Gaurav Pandey	Inspection, supervision and monitoring of ongoing E&M and Civil activities
21.	Site inspection of Jhunsi STP	23-Jun-21	Mr. Abhishek Singh	Inspection, supervision and monitoring of ongoing Civil activities
22.	Site inspection of Phaphamau STP	24-Jun-21	Mr. Wahab Alam Mr. Amit Ranjan	Inspection, supervision and monitoring of ongoing E&M and Civil activities
23.	Site inspection of Jhunsi STP	24-Jun-21	Mr. Abhishek Singh	Inspection, supervision and monitoring of ongoing Civil activities
24.	Site inspection of Phaphamau STP	25-Jun-21	Mr. Wahab Alam	Inspection, supervision and monitoring of ongoing E&M and Civil activities
25.	Site inspection of Naini-I STP	25-Jun-21	Mr. Gaurav Pandey	Inspection, supervision and monitoring of ongoing E&M and Civil activities
26.	Site inspection of Naini-II STP	30-Jun-21	Mr. Amit Ranjan	Inspection, supervision and monitoring of ongoing Civil activities
27.	Site inspection of Phaphamau STP	30-Jun-21	Mr. Wahab Alam	Inspection, supervision and monitoring of ongoing E&M and Civil activities
28.	Site inspection of Jhunsi STP	30-Jun-21	Mr. Abhishek Singh	Inspection, supervision and monitoring of ongoing Civil activities



## 11. Outward Register

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

Sr. No.	PE Transmittal/ Ref No	Description	Outward Date	To (Organization)	Copies To
1.	AIPL/NMCG/PRA YAG/971	Observation on Distribution Transformer documents for Pkg I	1-Jun-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
2.	AIPL/NMCG/PRA YAG/972	Observation on DG Set documents for Pkg- I	1-Jun-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
3.	AIPL/NMCG/PRA YAG/973	Observation on Non clog submersible pumps - Documents - Package-I	4-Jun-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
4.	AIPL/NMCG/PRA YAG/974	Observation on revised BEP for Jhansi STP	5-Jun-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
5.	AIPL/NMCG/PRA YAG/975	Observation on Documents of Mchanical + Manual Screens at Basna Nalla SPS	5-Jun-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
6.	AIPL/NMCG/PRA YAG/976	Observation on Mechanical & Manual Screens - Package I	5-Jun-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
7.	AIPL/NMCG/PRA YAG/977	Observation on G. A drawing of shastri bridge SPS	5-Jun-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
8.	AIPL/NMCG/PRA YAG/978	Observation on Mechanical GA of I&D of 13 Nalla Tappings with Trunk Sewer & Manholes at Jhansi associated infrastructure	5-Jun-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
9.	AIPL/NMCG/PRA YAG/980	Observation on Mechanical Datasheets & GAD of Submersible Mixers of Pkg-I STP	5-Jun-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
10.	AIPL/NMCG/PRA YAG/ 979	Regarding Observation on Variation details for Trivenipuram SPS and associated Rising main & Gravity Main.	5-Jun-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
11.	AIPL/NMCG/PRA YAG/981	Extension of civil Electrical Engineer	6-Jun-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/PRA YAG/982	Regarding Poor Quality of work and Poor Workmanship at Naini- II facilities.	7-Jun-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/PRA YAG/983	Observation on PLC FAT & SAT Procedure of C&I of STP of Package – I of Prayagraj STP Project	8-Jun-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/PRA YAG/984	Observation on PLC CONTROL ROOM LAYOUT of STP for Package-I of Prayagraj STP Project	8-Jun-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/PRA YAG/985	Observation on SCADA & PLC Control System Configuration diagram Phapamau (Package - I)	9-Jun-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
16.	AIPL/NMCG/PRA YAG/986	Observation on Test Certificates & Manufacturer's catalogues of C&I of STP & Pumping station for Package-I.	9-Jun-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
17.	AIPL/NMCG/PRA YAG/987	Observation on PLC based control system datasheet & Specifications including GA, IA, Annunciation, & Internal wiring of PLC Panels_Phaphamau STP of Package – I	9-Jun-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
18.	AIPL/NMCG/PRA YAG/988	Observation on PLC System Configuration Naini-II STP ( PACKAGE - I)	10-Jun- 21	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/PRA YAG/989	Observation on SCADA & PLC Control System Configuration diagram of Jhansi STP of Package - I	10-Jun- 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
20.	AIPL/NMCG/PRA YAG/990	Observation on PLC BASED CONTROL SYSTEM DATASHEET & SPECIFICATIONS INCLUDING GA, IA, ANNUNCIATION, & INTERNAL WIRING OF PLC PANELS of C&I for Package - I of Prayagraj STP Project	10-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
21.	AIPL/NMCG/PRA YAG/991	O & M Monthly Progress report for the month of November , 2020	10-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
22.	AIPL/NMCG/PRA YAG/992	Monthly progress report for the month of December , 2020	10-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
23.	AIPL/NMCG/PRA YAG/993	Observation on VFD docs for FCR & GRIT Blowers for Package-I	10-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
24.	AIPL/NMCG/PRA YAG/994	Observation on Field Instruments Data sheet & Specification ( Ultrasonic level transmitters ) of C&I for PACKAGE - I	10-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
25.	AIPL/NMCG/PRA YAG/995	Regarding release of Third Milestone Payment of Package-II	15-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
26.	AIPL/NMCG/PRA YAG/996	Observation of Monthly Invoice along with progress report for the Month of January- 2021.	14-Jun- 21	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/PRA YAG/997	Observation of Monthly Invoice along with progress report for the Month of February- 2021.	14-Jun- 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/PRA YAG/998	Regarding the notice for the completion of Milestone IV of Package-I	14-Jun- 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/PRA YAG/999	Observation on PLC FAT & SAT PROCEDURE of	15-Jun- 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
		Pumping Stations of Package – I			
30.	AIPL/NMCG/PRA YAG/1000	Observation on PLC LOGIC WIRTEUP of Pumping Stations of Package – I	15-Jun- 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/PRA YAG/1001	Observation on Instrumentation & Control Cable Data Sheet of STPs & Pumping Stations of Package – I	15-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
32.	AIPL/NMCG/PRA YAG/1002	Observation on Lime Handling system for various STP location at Prayagraj STP	15-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
33.	AIPL/NMCG/PRA YAG/1003	Observation on Naini II Process Building Civil Drawings	15-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
34.	AIPL/NMCG/PRA YAG/1004	Observation on monthly progress report for the month of January,2021	16-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
35.	AIPL/NMCG/PRA YAG/1005	Inspection Reports of Package III facilities	20-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
36.	AIPL/NMCG/PRA YAG/1006	Regarding O&M Payment of Quarter – 1 i.e., Nov-20 to Jan-21 for Package III facilities for the STP Project at Prayagraj under HAM based PPP model	21-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
37.	AIPL/NMCG/PRA YAG/1007	Regarding O&M Payment of Quarter –II i.e., Feb-21 to Apr-21 for Package III facilities for the STP Project at Prayagraj under HAM based PPP model.	21-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
38.	AIPL/NMCG/PRA YAG/1008	Observation on DATA SHEET, GA, WIRING AND MANUAL OF PA SYSTEM of C&I of STP for Package – I	21-Jun- 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
39.	AIPL/NMCG/PRA YAG/1009	Observation on Process Analyser Data sheets & Specifications for Naini-II STP	21-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
40.	AIPL/NMCG/PRA YAG/1010	Observation on Mechanical and Manual Screens - Jhunsu STP, Phaphamau STP & Jhunsu MPS - Package-I	21-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
41.	AIPL/NMCG/PRA YAG/1011	Observation on Dewatering unit Data sheet- Rewrite/ReObservation - Package-I	21-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
42.	AIPL/NMCG/PRA YAG/1012	Observation on Trash rack Screens at Various Nallas - Package-I	21-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
43.	AIPL/NMCG/PRA YAG/1013	Observation on Instrument Cable Schedule of C&I of STP of Package – I	22-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
44.	AIPL/NMCG/PRA YAG/1014	Observation on INSTRUMENT SCHEDULE of C&I for STP & PUMPING STATIONS of Package - I	22-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
45.	AIPL/NMCG/PRA YAG/1015	Status of Rehabilitation works for Package-II facilities	22-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
46.	AIPL/NMCG/PRA YAG/1016	Observation on Operation & Control Philosophy of C&I of PHAPHAMAU STP of Package – I	23-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
47.	AIPL/NMCG/PRA YAG/1017	Observation on Operation & Control Philosophy of C&I of Naini -II & Jhunsu STP for Package - I of Prayagraj STP Project	23-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
48.	AIPL/NMCG/PRA YAG/1018	Observation on Knife Gate Valves - Datasheet & GAD - Package-I	24-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
49.	AIPL/NMCG/PRA YAG/1019	Observation on Datasheet & GAD of Butterfly valve for Package-I	24-Jun- 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
50.	AIPL/NMCG/PRA YAG/1020	Observation on monthly progress report for the month of February, 2021	24-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
51.	AIPL/NMCG/PRA YAG/1024	Inspection Reports of Jhansi Facilities under Package-I.	25-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
52.	AIPL/NMCG/PRA YAG/1021	Observation on Datasheet & GAD of Check Valves & Sluice Valves for Package-I	25-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
53.	AIPL/NMCG/PRA YAG/1022	Observation on Field Instruments Data sheets & Specifications for Phaphamau STP	25-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
54.	AIPL/NMCG/PRA YAG/1023	Observation on Mechanical & Manual screen of package-I	25-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
55.	AIPL/NMCG/PRA YAG/1025	Observation on Augharwa Nalla, Bhola Mandir Nalla, Gangoli Shivalaya Nalla 1 & 2 I&D Works (part of Shastri Bridge SPS I&D Works) Design & Drawings	25-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
56.	AIPL/NMCG/PRA YAG/1026	Observation on Savitri Nagar Nalla, Dham Nalla, Shastri Bridge Nalla & Triveni Marg Nalla 1 I&D Works (part of Shastri Bridge SPS I&D Works) Design & Drawings	25-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
57.	AIPL/NMCG/PRA YAG/1027	Observation on Triveni Marg Nalla 2, Ulta Quilla Nalla 1&2, Havelia Nalla & Lakkar Nalla I&D Works (part of Shastri Bridge SPS I&D Works) Design & Drawings	25-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
58.	AIPL/NMCG/PRA YAG/1028	Observation on Mawaiya Nalla, Saccha Baba Nalla & Kharkauni Nalla Weir Revised Design & Drawings	25-Jun- 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
59.	AIPL/NMCG/PRA YAG/1029	Observations on PWPL Observation vide letter no. 16/2020, 17/2020 and 18/2020. (Weir Drawings) Basna Nalla Weir Design & Drawings	25-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
60.	AIPL/NMCG/PRA YAG/1030	Observation on Shantipuram Nalla Weir Revised Drawing	25-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
61.	AIPL/NMCG/PRA YAG/1031	Observation on Civil Drawings & Design for Jhunsu MPS	25-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
62.	AIPL/NMCG/PRA YAG/1032	Observation on monthly progress report for the month of March ,2021	28-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
63.	AIPL/NMCG/PRA YAG/1033	Regarding operational issues of Naini I facility	28-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
64.	AIPL/NMCG/PRA YAG/1034	Observation on VFD docs for FCR & GRIT Blowers for Package-I	28-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
65.	AIPL/NMCG/PRA YAG/1035	Observation on Valve Schedule (package-I Associated Infrastructure) - Jhunsu	28-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
66.	AIPL/NMCG/PRA YAG/1036	Observation on Valve Schedule (package-I Associated Infrastructure) - Phaphamau STP & Associated Facility	28-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
67.	AIPL/NMCG/PRA YAG/1037	Observation on Valve Schedule (package-I Associated Infrastructure)	28-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
68.	AIPL/NMCG/PRA YAG/1038	Observation on Instrumentation & Control Cable Data Sheet of STPs & Pumping Stations of Package – I	28-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
69.	AIPL/NMCG/PRA YAG/1039	Observation on PLC LOGIC WIRTEUP of Pumping Stations of Package – I	28-Jun- 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
70.	AIPL/NMCG/PRA YAG/1040	Observation on AHF panel for Non clog submersible pumps Package I : Prayagraj STP	28-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
71.	AIPL/NMCG/PRA YAG/1041	Observation on LT panel for Non clog submersible pumps Package I : Prayagraj STP	28-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
72.	AIPL/NMCG/PRA YAG/ 1042	Observation on Design Documents of Mahewaghat Drain Weir	28-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
73.	AIPL/NMCG/PRA YAG/ 1043	Observation on LT Switchgear documents for Package-I	29-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
74.	AIPL/NMCG/PRA YAG/ 1044	Observation on Sluice Gate Datasheet_ Shantipuram_Basna_P KG I	29-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
75.	AIPL/NMCG/PRA YAG/1045	Observation on Non clog submersible pumps - Documents - Package-I	30-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
76.	AIPL/NMCG/PRA YAG/1046	Observation on monthly progress report for the month of April ,2021	30-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
77.	AIPL/NMCG/PRA YAG/1047	Inspection Reports of Naini-II Facility and Phaphamau Facility under Package-I.	30-Jun- 21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
78.	AIPL/NMCG/PRA YAG/1048	Regarding the Observation of MPR of May'21	30-Jun- 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/267/21	Submission of Field Instruments Data sheet & Specification (Ultrasonic level transmitters) of C&I for PACKAGE - I	2-Jun-21	Prayagraj water private limited
2.	PWPL/UPJN/PMCG/268/21	Submission of Control System Configuration Diagram of Pumping Stations of SPS of Package – I	3-Jun-21	Prayagraj water private limited
3.	PWPL/UPJN/PMCG/269/21	Submission of PLC datasheet including GA, IA & Internal wiring of PLC Panels of C&I of SPS of Package – I	3-Jun-21	Prayagraj water private limited
4.	PWPL/UPJN/PMCG/270/21	Submission of Instrument Cable Schedule of C&I of STP of Package – I of Prayagraj STP Project	3-Jun-21	Prayagraj water private limited
5.	PWPL/UPJN/PMCG/271/21	Submission of INSTRUMENT SCHEDULE of C&I for STP & PUMPING STATIONS of Package - I	3-Jun-21	Prayagraj water private limited
6.	PWPL/UPJN/PMCG/272/21	Submission of Functional Design Specification of Pumping Stations of SPS of Package – I	4-Jun-21	Prayagraj water private limited
7.	PWPL/UPJN/PMCG/273/21	Submission of Mawaiya nalla & Basna nalla SPS Road drain	4-Jun-21	Prayagraj water private limited
8.	PWPL/UPJN/PMCG/274/21	Submission of Sludge Dewatering System - Screw press - Package I	5-Jun-21	Prayagraj water private limited
9.	PWPL/UPJN/PMCG/275/21	Submission of Civil Drawings & Design for Jhunsi MPS - Package-I	6-Jun-21	Prayagraj water private limited
10.	PWPL/UPJN/PMCG/276/21	Submission of Non clog submersible pumps - Documents - Package-I	7-Jun-21	Prayagraj water private limited
11.	PWPL/UPJN/PMCG/277/21	Submission of PLC FAT & SAT PROCEDURE of Pumping Stations of Package – I	9-Jun-21	Prayagraj water private limited
12.	PWPL/UPJN/PMCG/278/21	Submission of PLC LOGIC WIRTEUP of Pumping Stations of Package – I.	9-Jun-21	Prayagraj water private limited
13.	PWPL/UPJN/PMCG/279/21	Submission of Mechanical GA of I&D of 13 Nalla Tappings with Trunk Sewer & Manholes at Jhunsi associated infrastructure	9-Jun-21	Prayagraj water private limited

Sr. No.	PWPL Transmittal reference number	Description	Date	From
14.	PWPL/UPJN/PMCG/280/21	Submission of Instrumentation & Control Cable Data Sheet of STPs & Pumping Stations of Package – I	10-Jun-21	Prayagraj water private limited
15.	PWPL/UPJN/PMCG/281/21	Submission of Process Analyser Data sheets & Specifications for Naini-II STP	11-Jun-21	Prayagraj water private limited
16.	PWPL/UPJN/PMCG/283/21	Submission of Operation & Control Philosophy of C&I of Naini -II & Jhunsi STP for Package - I of Prayagraj STP Project	15-Jun-21	Prayagraj water private limited
17.	Via E- Mail (L-254-21)	Submission of Operation & Control Philosophy of C&I of PHAPHAMAU STP of Package – I for Prayagraj STP Project	15-Jun-21	Prayagraj water private limited
18.	PWPL/UPJN/PMCG/284/21	Submission of Manhole Drawing- Vehicular Load/ Traffic	15-Jun-21	Prayagraj water private limited
19.	PWPL/UPJN/PMCG/285/21	Submission of Functional Design Specification of C&I of STP for Package – I of Prayagraj STP Project	16-Jun-21	Prayagraj water private limited
20.	PWPL/UPJN/PMCG/286/21	Submission of Mechanical Datasheets & GAD of Submersible Mixers of Pkg-I STP	16-Jun-21	Prayagraj water private limited
21.	PWPL/UPJN/PMCG/288/21	Submission of Field Instruments Data sheets & Specifications for Jhunsi STP	18-Jun-21	Prayagraj water private limited
22.	PWPL/UPJN/PMCG/289/21	Submission of Field Instruments Data sheets & Specifications for Naini-II STP	18-Jun-21	Prayagraj water private limited
23.	PWPL/UPJN/PMCG/290/21	Submission of VFD docs for FCR & GRIT Blowers for Package-I	18-Jun-21	Prayagraj water private limited
24.	PWPL/UPJN/PMCG/291/21	Submission of AHF panel for Non clog submersible pumps Package I : Prayagraj STP	21-Jun-21	Prayagraj water private limited
25.	PWPL/UPJN/PMCG/292/21	Submission of Sluice Gate Datasheet_ Shantipuram_Basna_PKG I	21-Jun-21	Prayagraj water private limited
26.	PWPL/UPJN/PMCG/293/21	Submission of Instrumentation & Control Cable Data Sheet of STPs & Pumping Stations of Package – I	22-Jun-21	Prayagraj water private limited
27.	PWPL/UPJN/PMCG/294/21	Submission of Documents of Grit Removal Mechanism for STPs	22-Jun-21	Prayagraj water private limited
28.	PWPL/UPJN/PMCG/295/21	Submission of LT panel for Non clog submersible pumps Package I : Prayagraj STP	22-Jun-21	Prayagraj water private limited
29.	PWPL/UPJN/PMCG/296/21	PLC LOGIC WIRTEUP of Pumping Stations of Package – I.	23-Jun-21	Prayagraj water private limited

Sr. No.	PWPL Transmittal reference number	Description	Date	From
30.	PWPL/UPJN/PMCG/297/21	Submission of Process Analyzer Data sheets & Specifications for Jhansi STP	24-Jun-21	Prayagraj water private limited
31.	PWPL/UPJN/PMCG/299/21	Submission of PLC FAT & SAT PROCEDURE of Pumping Stations of Package – I	28-Jun-21	Prayagraj water private limited
32.	PWPL/UPJN/PMCG/300/21	Submission of PLC I/O Schedule of JHUNSI & PHAPHAMAU STP of C&I for Package - I of Prayagraj STP Project	28-Jun-21	Prayagraj water private limited
33.	PWPL/UPJN/PMCG/301/21	Submission of PLC I/O Schedule Naini-II STP	28-Jun-21	Prayagraj water private limited
34.	PWPL/UPJN/PMCG/302/21	Submission of LCP & JB Drawing for Aerated Grit Mechanism -Package-I	30-Jun-21	Prayagraj water private limited

### 13. EHS targets, Achievement & compliance report for the month of June' 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
<b>Phaphmau Facility (Package - I)</b>				
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.	Estimate charges and Road restoration maintenance charges of Rs 36.97 Cr received by UPJN from NH vide letter No 802/NH-96 DATED 30 <sup>th</sup> June 2021. Final approval is awaited.
7	Revenue Road cutting & crossing	Panchayat/Local Authority	NA	Not Required

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	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.
<b>Naini-II Facility (Package - I)</b>				
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. All Document sought by DRM Prayagraj has been provided on 26.04.2021. DRM Prayagraj moved the file to AEN(Line). Final approval is awaited.

Sr. No.	Applicable Permit	Authority	Quantity	Remarks
6	National Highway cutting & crossing	National Highway Authority of India	NA	NA
7	Revenue Road cutting & crossing	Panchayat/Local Authority	1 No.	Under process towards filing the application to concern authority.
8	Obtaining No Objection Certificate for various sewerage facilities under the ULB for handing them over to JN	ULB/District Administration	NA	Not Required
9	Construction of Weirs/pipeline crossings	Irrigation department/ULB	6 No.	Under process towards filing the application, Construction of Weir at 6 nos. Drains. Location: - 1. Mawaiya Drain 2. Sachcha Baba Aashram Drain Tapping 3. Kharkhauni Drain 4. Mahewaghat Nalla-1 5. Mahewaghat Nalla-2 6. Mahewaghat Nalla-3
10	Approach Road to new Facilities	Forest Department/Panchayat/Local Authority/Irrigation Department	NA	Not Required
11	Consent to operate for Existing Facilities	ULB and SPCB	1 No.	Will be processed during commissioning stage
<b>Jhansi Facility (Package - I)</b>				
1	Power connection (During commissioning Period)	Electricity Board	2 No.	Under process towards filing the application. Will be applied before commissioning stage. Location: - 1. Jhansi STP 2. Shastribridge 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.	Demand Draft and required document submitted to DRM Varanasi. DRM Varanasi





Sr. No.	Applicable Permit	Authority	Quantity	Remarks
				forwarded the file to IOW(Line) for permission.
6	National Highway cutting & crossing	National Highway	1 No.	Under process towards filing the application to concern authority. Location: - Underpass Shashtri Bridge
7	Revenue Road cutting & crossing	Panchayat/Local Authority	1 No.	Under process towards filing the application to concern authority. Location: - Shastri Bridge SPS to 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

## 15. Plant & Machinery Status



Machinery Details											
Sr. No.	Machinery Name	Facility Name									
		Phaphama u	Naini-II	Jhansi	Naini-I	Rajapur	Salori	Numayada hi	Ponghat	Kodra	Total
1.	JCB	1	2	2	2	-	-	-	-	-	7
2.	Dumper	-	-	1	-	-	-	-	-	-	1
3.	Poclain	1	3	1	-	-	-	-	-	-	5
4.	Ajax	-	4	1	-	-	-	-	-	-	5
5.	Hydra	-	-	1	1	-	-	-	-	-	2
6.	Roller	-	1	1	1	-	-	-	-	-	3
7.	Submersible Pump	-	15	5	-	-	-	-	-	-	20
8.	Diesel Pump 5 HP	1	6	2	2	-	-	-	-	-	11
9.	5KV generator	-	3	2	2	-	-	-	-	-	7
10.	Total Station	-	2	1	-	-	-	-	-	-	3
11.	Water tanker	1	3	-	-	-	-	-	-	-	4
12.	Auto level	2	6	2	-	-	-	-	-	-	10
13.	Mixing machine	1	3	1	1	-	-	-	-	-	6
14.	Vibrator	3	5	6	1	1	-	-	-	-	16
15.	Tractor	2	3	1	4	-					10
16.	Concrete Chipping machine	1	2	1	4	-	-	-	-		8
17.	Welding Machine	-	2	2	4	-	-	-	-	-	8
18.	Grinding Machine	-	5	2	3	-	-	-	-	-	10
19.	Gas Cutting Set	-	1	-	6	0	-	-	-	-	7
20.	Chain Saw Machine	-	-	-	3	-	-	-	-	-	3
21.	Chain Block	0	0	1	0	-	-	-	-	-	1
22.	RM 800	-	-	-	3	-	-	-	-	-	3
23.	Plywood Cutting Machine	1	3	1	0	1	-	-	-	-	6
24.	Steel Cutting Machine	1	3	2	1	1	-	-	-	-	8
	<b>Total</b>	<b>15</b>	<b>72</b>	<b>36</b>	<b>38</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>164</b>

## 16. Operation and Maintenance report for June month –

<div>  <div> <b>Naini-I STP, 80 MLD STP at Prayagraj</b>  <b>INLET FLOW &amp; QUALITY REPORT</b> </div>  </div>														
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-Jun-21	81033	81.03	7.33	7.46	153.00	16.00	324.00	35.00	NA	700	0.3	24.50	1600000.00	1) Plant Availability is 100%. 2) Rehabilitation works for Gas Area of STP is in progress. 3) Rehabilitation work for Gaughat MPS & Chachamalla SPS is in progress. 4) Sample for sludge testing is taken from sludge drying beds hence the value of sludge consistency cannot be deemed as accurate. 5) Checking of Calibration of flowmeter from OEM is required for both outlet of Gaughat MPS & inlet of Naini I STP as flow has rapidly increased from 50 - 60 MLD to 75 - 85 MLD from 07.05.2021.
2-Jun-21	83220	83.22	7.39	7.51	159.00	18.00	328.00	33.00	NA	800	0.2	23.90	1300000.00	
3-Jun-21	84450	84.45	7.44	7.56	163.00	16.00	332.00	35.00	NA	700	0.1	22.40	1500000.00	
4-Jun-21	81710	81.71	7.48	7.66	160.00	19.00	328.00	33.00	NA	600	0.2	24.30	1200000.00	
5-Jun-21	80660	80.66	7.44	7.53	156.00	18.00	322.00	31.00	NA	700	0.3	24.50	1400000.00	
6-Jun-21	79090	79.09	7.49	7.51	159.00	16.00	326.00	35.00	NA	500	0.1	24.30	1500000.00	
7-Jun-21	86340	86.34	7.53	7.66	153.00	18.00	329.00	30.00	NA	600	0.2	24.20	1200000.00	
8-Jun-21	85780	85.78	7.44	7.56	149.00	16.00	327.00	34.00	NA	500	0.3	24.30	1400000.00	
9-Jun-21	59210	59.21	7.52	7.61	160.00	20.00	324.00	35.00	NA	700	0.2	24.10	1300000.00	
10-Jun-21	84340	84.34	7.46	7.58	156.00	22.00	328.00	30.00	NA	500	0.3	24.40	1500000.00	
11-Jun-21	76350	76.35	7.39	7.56	152.00	18.00	320.00	31.00	NA	800	0.2	24.50	1600000.00	
12-Jun-21	79070	79.07	7.47	7.61	156.00	19.00	328.00	33.00	NA	600	0.4	24.00	1400000.00	
13-Jun-21	95180	95.18	7.39	7.52	149.00	18.00	318.00	32.00	NA	500	0.3	24.10	1500000.00	
14-Jun-21	94190	94.19	7.53	7.66	153.00	20.00	322.00	34.00	NA	700	0.2	23.70	1400000.00	
15-Jun-21	77540	77.54	7.49	7.55	149.00	22.00	326.00	35.00	NA	600	0.2	24.30	1500000.00	
16-Jun-21	80120	80.12	7.51	7.60	152.00	24.00	301.00	30.00	NA	500	0.3	24.40	1600000.00	
17-Jun-21	77890	77.89	7.36	7.41	146.00	26.00	294.00	33.00	NA	800	0.3	24.50	1300000.00	
18-Jun-21	102360	102.36	7.44	7.49	138.00	22.00	288.00	30.00	NA	600	0.3	24.10	1500000.00	
19-Jun-21	97900	97.90	7.38	7.46	126.00	20.00	282.00	34.00	NA	500	0.2	24.40	1300000.00	
20-Jun-21	88620	88.62	7.52	7.58	152.00	21.00	306.00	35.00	NA	700	0.2	24.00	1200000.00	
21-Jun-21	73470	73.47	7.49	7.66	156.00	19.00	322.00	30.00	NA	600	0.3	24.30	1500000.00	
22-Jun-21	78270	78.27	7.56	7.64	160.00	20.00	319.00	33.00	NA	500	0.2	24.40	1300000.00	
23-Jun-21	85520	85.52	7.63	7.56	152.00	22.00	321.00	30.00	NA	700	0.2	24.20	1400000.00	
24-Jun-21	92540	92.54	7.55	7.61	157.00	23.00	294.00	28.00	NA	500	0.3	24.00	1600000.00	
25-Jun-21	91180	91.18	7.57	7.54	160.00	21.00	305.00	32.00	NA	600	0.2	24.10	1500000.00	
26-Jun-21	90550	90.55	7.52	7.58	126.00	20.00	311.00	30.00	NA	700	0.3	24.30	1400000.00	
27-Jun-21	82890	82.89	7.60	7.56	132.00	24.00	308.00	33.00	NA	600	0.2	24.20	1500000.00	
28-Jun-21	86130	86.13	7.45	7.59	138.00	20.00	315.00	32.00	NA	500	0.2	24.40	1600000.00	
29-Jun-21	82350	82.35	7.41	7.54	126.00	22.00	313.00	30.00	NA	600	0.3	24.30	1400000.00	
30-Jun-21	80460	80.46	7.47	7.58	135.00	18.00	319.00	33.00	NA	700	0.2	24.20	1300000.00	
Average	83947.10	83.95	7.48	7.56	149.43	19.93	316.00	32.30	NA	620.00	0.24	24.18	1423333.33	

Source: Logbook of Labarotory at Sewage Treament Plant



<div>  <div> <b>Rajapur STP, 60 MLD STP at Prayagraj</b>  <b>INLET FLOW &amp; QUALITY REPORT</b> </div>  </div>														
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 Concentrati on (>20% )	Fecal Coliform (20,00,000 MPN/gTS)	
1-Jun-21	80200	80.20	7.42	7.70	125.00	19.00	252.00	28.00	NA	700	0.2	25.26	1400000.00	1) Rehabilitation works for STP, Mumfordganj SPS are in progress. 2) Plant Availability is 100%. 3) Sample for sludge testing is taken from sludge drying beds hence the value of sludge consistency cannot be deemed as accurate. 4) Retaining for nalla at tapping point for Rajapur SPS is broken hence raw sewage is going directly into the river.
2-Jun-21	82560	82.56	7.45	7.64	130.00	18.00	247.00	29.00	NA	500	0.2	24.46	1700000.00	
3-Jun-21	80640	80.64	7.42	7.68	125.00	17.00	255.00	27.00	NA	400	0.3	22.05	1100000.00	
4-Jun-21	76820	76.82	7.40	7.69	135.00	14.00	262.00	26.00	NA	600	0.2	23.45	1300000.00	
5-Jun-21	76020	76.02	7.45	7.67	140.00	15.00	295.00	24.00	NA	500	0.2	26.32	1100000.00	
6-Jun-21	78770	78.77	7.42	7.65	130.00	15.00	286.00	28.00	NA	600	0.4	24.54	1700000.00	
7-Jun-21	81150	81.15	7.44	7.62	125.00	17.00	275.00	27.00	NA	500	0.2	25.45	1100000.00	
8-Jun-21	82100	82.10	7.45	7.68	130.00	18.00	297.00	25.00	NA	700	0.2	23.48	1700000.00	
9-Jun-21	80780	80.78	7.40	7.71	120.00	16.00	309.00	28.00	NA	400	0.3	22.58	1400000.00	
10-Jun-21	88060	88.06	7.42	7.72	135.00	19.00	312.00	26.00	NA	600	0.2	26.36	1300000.00	
11-Jun-21	87160	87.16	7.46	7.70	125.00	17.00	275.00	29.00	NA	400	0.2	27.50	1100000.00	
12-Jun-21	86410	86.41	7.43	7.68	130.00	15.00	254.00	28.00	NA	500	0.3	26.82	1700000.00	
13-Jun-21	83560	83.56	7.42	7.66	120.00	16.00	271.00	28.00	NA	400	0.2	27.42	1300000.00	
14-Jun-21	96750	96.75	7.48	7.67	125.00	19.00	287.00	26.00	NA	700	0.2	21.40	1400000.00	
15-Jun-21	100180	100.18	7.34	7.69	115.00	18.00	252.00	29.00	NA	400	0.3	23.58	1700000.00	
16-Jun-21	89410	89.41	7.35	7.65	125.00	17.00	273.00	25.00	NA	600	0.2	21.72	1700000.00	
17-Jun-21	84470	84.47	7.45	7.68	120.00	17.00	278.00	24.00	NA	500	0.2	22.50	1400000.00	
18-Jun-21	93090	93.09	7.56	7.65	115.00	19.00	248.00	29.00	NA	700	0.4	21.52	1100000.00	
19-Jun-21	98720	98.72	7.52	7.70	110.00	19.00	252.00	29.00	NA	400	0.2	23.46	1400000.00	
20-Jun-21	89810	89.81	7.43	7.72	120.00	16.00	272.00	27.00	NA	600	0.2	22.40	1100000.00	
21-Jun-21	83890	83.89	7.45	7.69	125.00	18.00	278.00	25.00	NA	400	0.3	23.56	1700000.00	
22-Jun-21	79740	79.74	7.42	7.70	135.00	14.00	262.00	24.00	NA	500	0.2	21.59	1400000.00	
23-Jun-21	85960	85.96	7.45	7.68	140.00	17.00	284.00	27.00	NA	400	0.2	22.74	1700000.00	
24-Jun-21	88960	88.96	7.42	7.69	125.00	18.00	266.00	28.00	NA	700	0.2	21.54	1300000.00	
25-Jun-21	83750	83.75	7.45	7.68	130.00	16.00	270.00	26.00	NA	400	0.3	22.05	1400000.00	
26-Jun-21	84590	84.59	7.42	7.71	120.00	19.00	284.00	25.00	NA	600	0.2	24.08	1100000.00	
27-Jun-21	85270	85.27	7.40	7.68	125.00	17.00	292.00	27.00	NA	700	0.4	25.32	1400000.00	
28-Jun-21	93500	93.50	7.43	7.65	115.00	19.00	282.00	29.00	NA	500	0.3	21.42	1100000.00	
29-Jun-21	82320	82.32	7.40	7.68	130.00	16.00	292.00	26.00	NA	500	0.2	22.80	1700000.00	
30-Jun-21	82250	82.25	7.41	7.69	125.00	17.00	273.00	25.00	NA	400	0.2	23.54	1300000.00	
Average	85563.00	85.56	7.43	7.68	125.67	17.07	274.50	26.80	NA	526.67	0.24	23.70	1393333.33	

Source: Logbook of Labarotory at Sewage Treament Plant