

**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  
JANUARY 2021**



**Executing Agency**

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



**Funding Agency**

National Mission for Clean  
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## Table of Contents

1.	Introduction.....	2
2.	Hybrid Annuity Model (HAM).....	2
3.	Objectives .....	3
4.	Project at Glance.....	5
5.	Site Location .....	6
6.	Project Components .....	7
7.	Status of project .....	10
7.1	Package-I status.....	10
7.1.1.	Engineering status.....	10
7.1.2	Procurement & Supply status .....	10
7.1.3	Construction, Erection & Commissioning status .....	11
7.1.4	Overall Package-I Progress.....	12
7.1.5	Physical Activities in January month.....	13
7.1.6	Physical Activities as per Construction plan: .....	14
7.2	Package-II status .....	24
7.2.1.	Engineering status.....	24
7.2.2	Procurement & Supply status .....	24
7.2.3	Construction, Erection & Commissioning status .....	25
7.2.4	Overall Package-II Progress .....	26
7.2.5	Physical Activities in January month .....	27
7.2.6	Physical Activities status as per Rehabilitation plan: .....	44
7.3	Package-III status .....	45
7.3.1.	Engineering status.....	45
7.3.2	Procurement & Supply status .....	45
7.3.3	Construction, Erection & Commissioning status .....	46
7.3.4	Overall Package-III Progress.....	47
7.3.5	Physical Activities status .....	48
7.3.6	Physical Activities status as per Rehabilitation plan: .....	50
8.	Meetings, Discussions and Site Visits: .....	51
9.	Staff deployment.....	54
10.	Photos of Meetings / Site Visits and Activities .....	55
11.	Outward Register.....	66
12.	Inward Register .....	73
13.	EHS targets, Achievement & compliance report for the month of January' 2021 .....	77
14.	Status of statutory permits: .....	77
15.	Plant & Machinery Status.....	81
16.	Project Engineer Activities.....	83
17.	Operation and Maintenance report for January month – .....	96

## 1. Introduction

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

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

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

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

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

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

## 2. Hybrid Annuity Model (HAM)

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

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

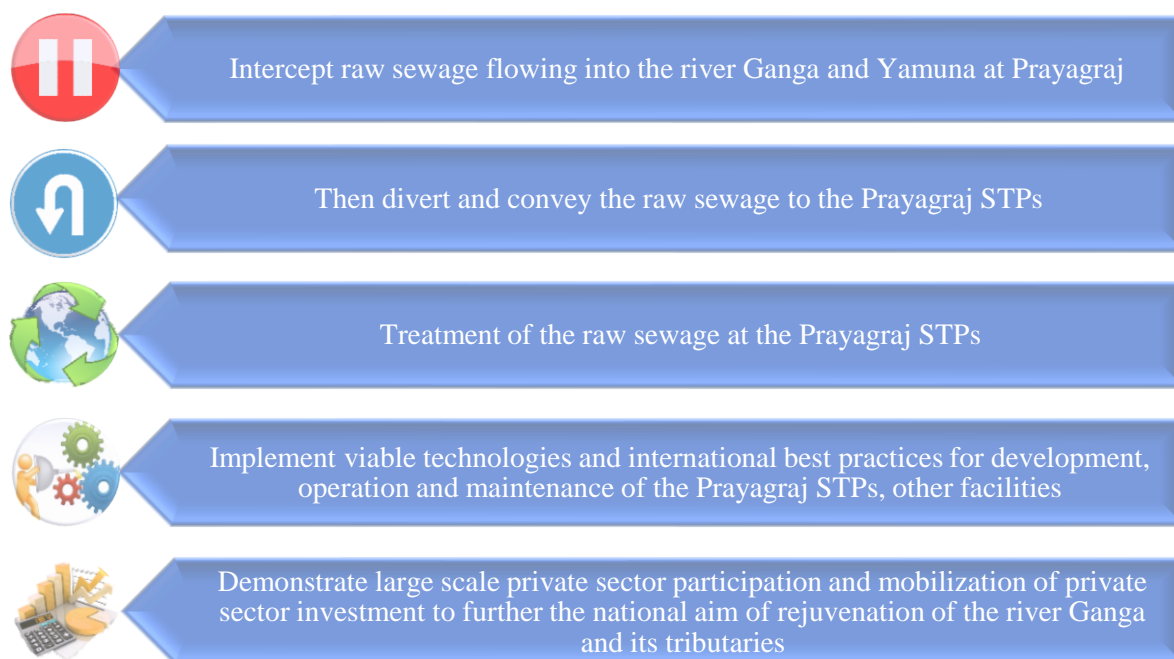
this model, private investor/developer will design, build, finance, construct, rehabilitate, renovate, operate and maintain the asset (STPs, IPS, and MPS) to the Project Executing Agency/Jal Nigam at the end of the Concession Period (15 years). 40% of the Capital cost will be paid to the developer during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

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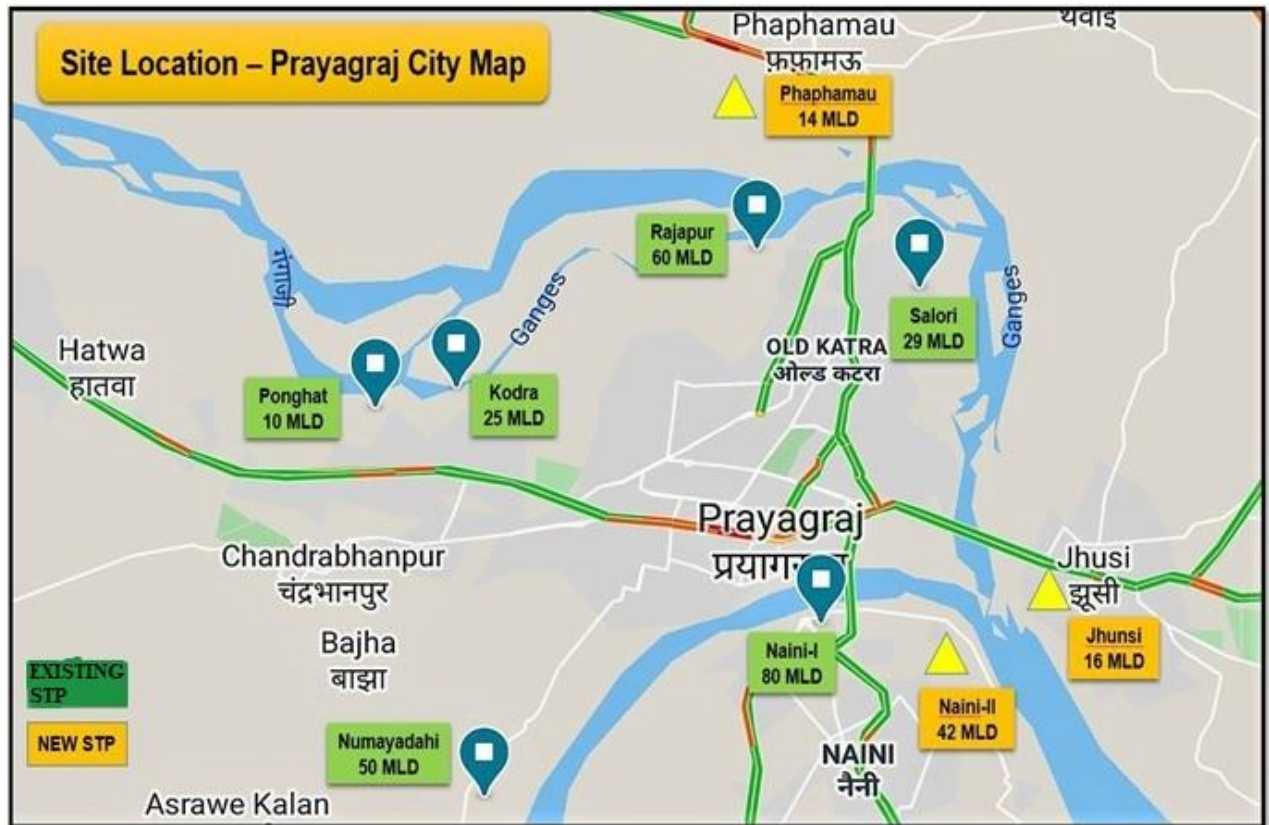
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#### 4. Project at Glance

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), Jhuni (16 MLD) & Phaphamau (14 MLD)). Setup rooftop Solar Power Plant of capacity 930kW (110kW at Phaphamau, 800kW at Naini-II and 20kW at Jhuni).
- 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

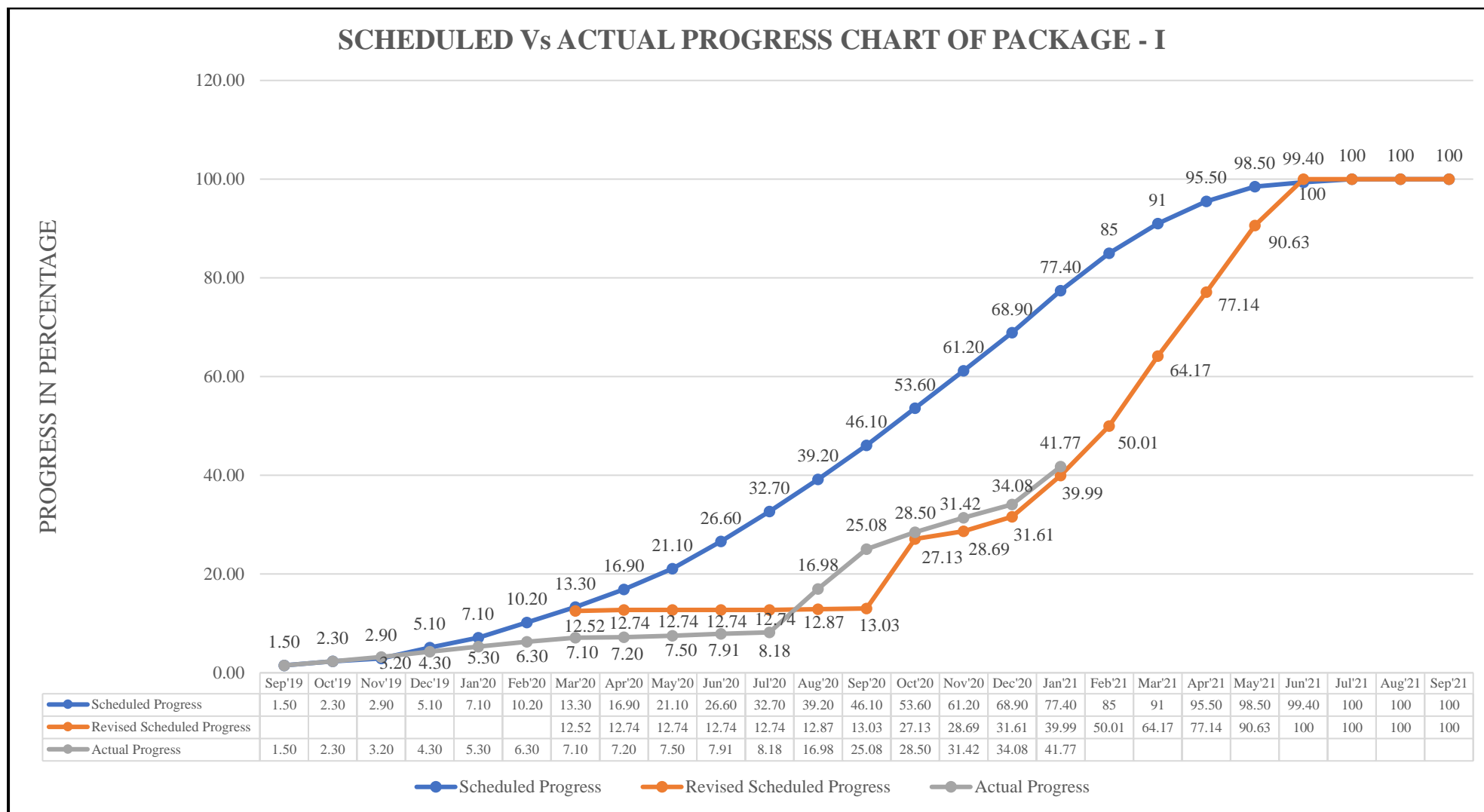
Package Number - I				
Nature of work		Facilities		
New construction		Design, develop, finance, construct, operate and maintain, and transfer the Package-I Facilities including three STP facilities with a proposed capacity of 42 MLD at Naini (District G), 14 MLD at Phaphamau (District F), and 16 MLD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



### 7.1.5 Physical Activities in January 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>Wall shuttering above sandwich Raft Slab under progress.</li> <li>Sand filling Below sandwich raft slab in progress.</li> </ul>
2.	Staff Quarter	01 No.	<ul style="list-style-type: none"> <li>RCC work for Column till 1<sup>st</sup> roof slab under progress.</li> </ul>
NAINI – II STP			
3.	FCR tank	01 No.	<ul style="list-style-type: none"> <li>FCR Tank-A – Shuttering, Staging, Sand filling, Steel cutting, bending, Binding and RCC work for Stream 1 and Stream 2 completed.</li> <li>3<sup>rd</sup> stream Rebar works in progress.</li> <li>1<sup>st</sup> lift wall shuttering, and rebar works above sandwich raft slab in progress for 1<sup>st</sup> and 2<sup>nd</sup> stream.</li> <li>FCR Tank-B – Cleaning and tie rod cutting work in progress.</li> </ul>
4.	Tube Settler	01 No.	<ul style="list-style-type: none"> <li>PCC works completed for Tube Settler, Sludge Storage and CCT Unit.</li> </ul>
5.	Staff Quarter	01 No.	<ul style="list-style-type: none"> <li>RCC of 1<sup>st</sup> roof slab Completed.</li> <li>RCC of Column columns completed above 1<sup>st</sup> Floor slab.</li> <li>Shuttering in progress for 2<sup>nd</sup> floor slab.</li> </ul>
6.	MPS	01 No.	<ul style="list-style-type: none"> <li>15 no. Borewell completed and 5 no. borewell under progress.</li> <li>Excavation work under progress</li> </ul>
7.	Boundary Wall	01 No.	<ul style="list-style-type: none"> <li>Approx. 65% Boundary Wall work is completed.</li> </ul>
8.	DI Pipeline from Mahewaghat to Naini-II (300mm Dia.)	700 Rmt.	<ul style="list-style-type: none"> <li>685 Rmt. Laying Jointing, Backfilling completed</li> </ul>
9.	DI Pipeline from Mawaiya Nalla to Naini-II (800mm Dia.)	700 Rmt.	<ul style="list-style-type: none"> <li>375 Rmt Laying, Jointing, Backfilling completed.</li> </ul>
JHUNSI STP			

10.	FCR tank	01 No.	<ul style="list-style-type: none"> <li>RCC Work for 2<sup>nd</sup> and 3<sup>rd</sup> lift wall completed.</li> <li>50% Sandwich raft slab completed.</li> </ul>
11.	Tube Settler	01 No.	<ul style="list-style-type: none"> <li>Excavation work under progress.</li> </ul>
12.	Security Cabin	01 No.	<ul style="list-style-type: none"> <li>RCC work for Column work till plinth beam completed.</li> </ul>
13.	Staff Quarter	01 No.	<ul style="list-style-type: none"> <li>RCC of Plinth beam and Grade slab completed.</li> </ul>

### 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>	<b>01-12-19</b>	<b>15-06-21</b>				
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	55%	65%	0%	65%
8.	Other Misc Works	01-04-21	15-06-21				
9.	Hydrotesting	16-04-21	30-04-21				
10.	<b>Tube settler, CCT &amp; Sludge storage Tank</b>	<b>16-01-21</b>	<b>30-04-21</b>				
11.	Earth work & Boulder filling work	16-01-21	28-02-21	80%	92%	8%	100%
12.	PCC work	01-02-21	28-02-21	0%	50%	50%	100%
13.	RCC upto completion	01-02-21	30-04-21				
14.	Other Misc Works	01-03-21	19-04-21				
15.	Hydrotesting	20-04-21	30-04-21				
16.	<b>Main Process Building</b>	<b>01-02-21</b>	<b>15-06-21</b>				
17.	Excavation	01-02-21	28-02-21	0%	100%	0%	100%
18.	Rubble soling/ Stone filling work	01-02-21	28-02-21				
19.	PCC	01-02-21	28-02-21				
20.	Structure completion (Expect finishing works)	01-02-21	15-06-21				
21.	Other Misc Works	01-05-21	15-06-21				
22.	Hydrotesting	01-06-21	15-06-21				

Sr. No.	Work description	Scheduled Start Date	Scheduled End Date	Schedule d Completion (In %)	Completi on up to previous month (In %) (A)	This month Completi on (In%) (B)	Total Completio n (In %) (A+B)
23.	<b>Basana Nala SPS and I&amp;D Works</b>	<b>10-10-20</b>	<b>31-05-21</b>				
24.	Excavation work	01-01-21	28-02-21	45%	0%	0%	0%
25.	PCC	01-02-21	10-03-21				
26.	RCC upto completion	16-03-21	31-05-21				
27.	Hydrotesting	01-05-21	31-05-21				
28.	Boundary wall	10-10-20	27-02-21				
29.	Staff quarter	01-03-21	31-05-21				
30.	Other Misc Works	01-03-21	31-05-21				
31.	<b>Shantipuram MPS and I&amp;D Works</b>	<b>01-09-20</b>	<b>31-05-21</b>				
32.	Excavation work	01-11-20	31-03-21	40%	30%	0%	30%
33.	PCC	01-03-21	15-03-21				
34.	RCC work upto completion	16-03-21	31-05-21				
35.	Other Misc Works	01-04-21	31-05-21				
36.	Hydrotesting	01-05-21	31-05-21				
37.	Staff quarter	01-09-20	31-03-21	40%	36%	1%	37%
38.	<b>Pipe laying ( Rising Main &amp; Gravity Main)</b>	<b>01-03-21</b>	<b>15-06-21</b>				
39.	<b>Rising main</b>	<b>01-04-21</b>	<b>15-06-21</b>				
40.	Excavation, Laying & Jointing, Backfilling/ Restoration works	01-04-21	15-06-21				
41.	Hydrotesting	01-06-21	15-06-21				
42.	<b>Gravity Main</b>	<b>01-03-21</b>	<b>31-05-21</b>				
43.	Excavation, Laying & Jointing, Backfilling/ Restoration works	01-03-21	20-05-21				
44.	Hydrotesting	21-05-21	31-05-21				
45.	<b>Other works</b>	<b>01-01-20</b>	<b>15-06-21</b>				
46.	Site office (Temporary office)	01-01-20	31-01-20	100%	100%	0%	100%
47.	Other misc works (Boundary Wall, Road, rain water harvesting, Land scaping etc)	01-04-21	15-06-21				
48.	<b>Mechanical Erection- STP unit</b>	<b>01-05-21</b>	<b>15-06-21</b>				
49.	Pumps	01-05-21	15-06-21				

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



Sr. No.	Work description	Scheduled Start Date	Scheduled End Date	Schedule d Completion (In %)	Completi on up to previous month (In %) (A)	This month Completi on (In%) (B)	Total Completio n (In %) (A+B)
82.	<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.	<b>Erection Work</b>						
87.	Removal of Shurbes	01-01-20	28-02-20	100%	100%	0%	100%
88.	<b>FCR tank unit</b>	<b>01-02-20</b>	<b>20-04-21</b>				
89.	Excavation work	01-02-20	15-03-20	100%	100%	0%	100%
90.	Boulder filling work	01-10-20	25-10-20	100%	100%	0%	100%
91.	PCC work	01-11-20	30-11-20	100%	100%	0%	100%
92.	RCC work upto completion	01-12-20	20-04-21	45%	44%	9%	53%
93.	Other Misc Works	01-04-20	31-05-20				
94.	Hydrotesting	21-04-20	30-04-20				
95.	<b>Tube settler, CCT &amp; Sludge storage Tank</b>	<b>16-01-21</b>	<b>31-05-21</b>				
96.	Earth work & Boulder filling work	16-01-21	31-01-21	100%	100%	0%	100%
97.	PCC work	16-01-21	31-01-21	100%	0%	100%	100%
98.	RCC work upto completion	01-02-21	20-04-21				
99.	Other Misc Works	01-04-21	31-05-21				
100.	Hydrotesting	21-04-21	30-04-21				
101.	<b>Main Process Building</b>	<b>01-01-21</b>	<b>31-05-21</b>				
102.	Excavation	01-01-21	31-01-21	100%	70%	0%	70%
103.	Rubble soling/ Stone filling work	01-01-21	15-02-21				
104.	PCC	16-02-21	28-02-21				
105.	Structure completion (Expect finishing works)	16-02-21	15-05-21				
106.	Other Misc Works	01-04-21	31-05-21				
107.	Hydrotesting	16-05-21	31-05-21				
108.	<b>Mawaiya SPS and I&amp;D work</b>	<b>01-03-21</b>	<b>15-06-21</b>				
109.	Excavation work	01-03-21	02-04-21				
110.	PCC	03-04-21	15-04-21				
111.	RCC WORK upto completion	16-04-21	05-06-21				

Sr. No.	Work description	Scheduled Start Date	Scheduled End Date	Schedule d Completion (In %)	Completi on up to previous month (In %) (A)	This month Completi on (In%) (B)	Total Completio n (In %) (A+B)
112.	Hydrotesting	06-06-21	15-06-21				
113.	Boundary wall	01-03-21	31-05-21				
114.	Staff quarter	01-03-21	31-05-21				
115.	I&D Other misc works	01-04-21	31-05-21				
116.	<b>Mahewaghat SPS and I&amp;D work</b>	<b>01-03-21</b>	<b>31-05-21</b>				
117.	Excavation work	01-03-21	09-04-21				
118.	PCC	10-04-21	15-04-21				
119.	RCC Work upto completion	16-04-21	20-05-21				
120.	Other finishing work	01-04-21	31-05-21				
121.	Hydrotesting	21-05-21	31-05-21				
122.	Boundary wall	01-03-21	31-05-21				
123.	Staff quarter	01-03-21	30-04-21				
124.	I&D Other misc works	01-03-21	31-05-21				
125.	<b>Naini-II MPS and I&amp;D work</b>	<b>26-10-20</b>	<b>31-05-21</b>				
126.	Excavation work	16-01-21	31-03-21	20%	20%	0%	20%
127.	PCC	01-04-21	16-04-21				
128.	RCC Work upto completion	17-04-21	15-05-21				
129.	Other finishing work	01-04-21	31-05-21				
130.	Hydrotesting	16-05-21	31-05-21				
131.	Staff quarter	26-10-20	31-05-21	35%	31%	5%	36%
132.	I&D Other misc works	01-03-21	31-05-21				
133.	<b>Pipe laying ( Rising Main &amp; Gravity Main)</b>	<b>01-02-21</b>	<b>31-05-21</b>				
134.	<b>Rising main</b>	<b>01-02-21</b>	<b>31-05-21</b>				
135.	Excavation, Laying & Jointing, Backfilling/ Restoration works	01-02-21	15-05-21				
136.	Hydrotesting	16-05-21	31-05-21				
137.	<b>Gravity Main</b>	<b>01-03-21</b>	<b>31-05-21</b>				
138.	Excavation, Laying & Jointing, Backfilling/ Restoration works	01-03-21	15-05-21				
139.	Hydrotesting	16-05-21	31-05-21				
140.	<b>Other works</b>	<b>01-01-20</b>	<b>15-06-21</b>				
141.	Site office (Temporary office)	01-01-20	31-01-21	100%	100%	0%	100%

Sr. No.	Work description	Scheduled Start Date	Scheduled End Date	Schedule d Completion (In %)	Completi on up to previous month (In %) (A)	This month Completi on (In%) (B)	Total Completio n (In %) (A+B)
142.	Other misc works (Boundary Wall, Road, rain water harvesting, Land scaping etc)	01-07-20	15-06-21	0%	27%	7%	34%
143.	<b>Mechanical Erection-STP unit</b>	<b>01-05-21</b>	<b>15-06-21</b>				
144.	Pumps	01-05-21	15-06-21				
145.	Lamella clarifier/ Tube settler	01-05-21	15-06-21				
146.	Grit removal system	01-05-21	15-06-21				
147.	Piping, Valves & Gates	01-05-21	15-06-21				
148.	Fire fighting System	01-05-21	15-06-21				
149.	Chlorination	01-05-21	15-06-21				
150.	Blowers & Diffuser	01-05-21	15-06-21				
151.	screens	01-05-21	15-06-21				
152.	Media Installation/ Bio module	01-05-21	15-06-21				
153.	Other misc. work	01-05-21	15-06-21				
154.	<b>Mechanical Erection-SPS &amp; MPS</b>	<b>01-05-21</b>	<b>15-06-21</b>				
155.	Pumps	01-05-21	15-06-21				
156.	Screens	01-05-21	15-06-21				
157.	Piping, Valves & Gates	01-05-21	15-06-21				
158.	Other misc. work	01-05-21	15-06-21				
159.	<b>Electrical and C&amp;I- STP Unit</b>	<b>01-05-21</b>	<b>15-06-21</b>				
160.	Transformer Installation	01-05-21	15-06-21				
161.	HT/LT panel erection	01-05-21	15-06-21				
162.	PLC Panel & Online monitoring system	01-05-21	15-06-21				
163.	Instrumentation works	01-05-21	15-06-21				
164.	CCTV	01-05-21	15-06-21				
165.	CABLE LAYING	01-05-21	15-06-21				
166.	Solar Panel	01-05-21	15-06-21				
167.	Other misc. work	01-05-21	15-06-21				
168.	<b>Electrical and C&amp;I- SPS &amp; MPS</b>	<b>01-05-21</b>	<b>15-06-21</b>				
169.	Transformer Installation	01-05-21	15-06-21				
170.	HT/LT panel erection	01-05-21	15-06-21				
171.	CABLE LAYING	01-05-21	15-06-21				

Sr. No.	Work description	Scheduled Start Date	Scheduled End Date	Schedule d Completion (In %)	Completi on up to previous month (In %) (A)	This month Completi on (In%) (B)	Total Completio n (In %) (A+B)
172.	DG Installation	01-05-21	15-06-21				
173.	PLC Panel & Online monitoring system	01-05-21	15-06-21				
174.	Other misc. work	01-05-21	15-06-21				
175.	Commissioning of Mech., Electrical and C&I	01-06-21	15-06-21				
176.	<b>Trial Run, Final Inspection and COD</b>	<b>16-06-21</b>	<b>15-09-21</b>				
177.	Trial Run and Final Inspection	16-06-21	14-09-21				
178.	COD	14-09-21	15-09-21				
179.	<b>Erection Commissioning, Trial Run and COD of Jhunsu STP (16 MLD) &amp; Associated works</b>						
180.	<b>Erection Work</b>						
181.	<b>FCR tank unit</b>	<b>01-10-20</b>	<b>15-06-21</b>				
182.	Excavation work	01-10-20	25-10-20	100%	100%	0%	100%
183.	Boulder filling work	26-10-20	29-10-20	100%	100%	0%	100%
184.	PCC work	30-10-20	30-10-20	100%	100%	0%	100%
185.	RCC upto completion	31-10-20	30-04-21	30%	32%	14%	46%
186.	Other finishing work	01-05-21	15-06-21				
187.	Hydrotesting	01-05-21	30-05-21				
188.	<b>Tube settler, CCT &amp; Sludge storage Tank</b>	<b>01-01-21</b>	<b>15-06-21</b>				
189.	Earth work & Boulder filling work	01-01-21	15-02-21	40%	0%	10%	10%
190.	PCC work	16-02-21	28-02-21				
191.	RCC upto completion	01-03-21	20-05-21				
192.	Other finishing work	01-05-21	15-06-21				
193.	Hydrotesting	21-05-21	31-05-21				
194.	<b>Main Process Building</b>	<b>01-03-21</b>	<b>15-06-21</b>				
195.	Excavation & Column	01-03-21	15-04-21				
196.	Rubble soling/ Stone filling work	16-04-21	21-04-21				
197.	PCC	22-04-21	26-04-21				
198.	Structure completion (Expect finishing works)	27-04-21	31-05-21				
199.	Other finishing work	01-05-21	15-06-21				
200.	Hydrotesting	01-05-21	31-05-21				
201.	<b>Shastri bridge SPS and I&amp;D work</b>	<b>01-03-21</b>	<b>15-06-21</b>				

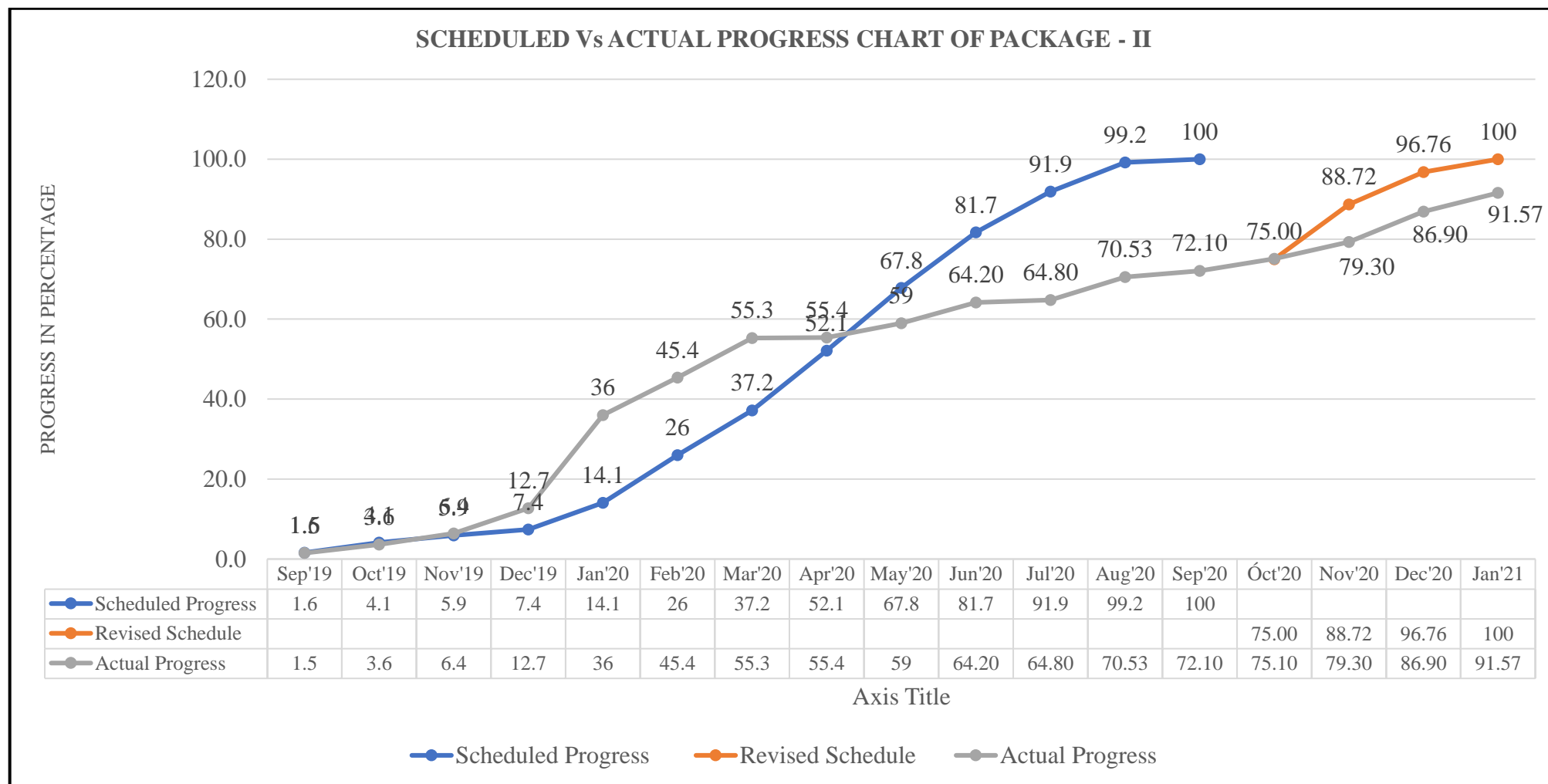
Sr. No.	Work description	Scheduled Start Date	Scheduled End Date	Schedule d Completion (In %)	Completi on up to previous month (In %) (A)	This month Completi on (In%) (B)	Total Completio n (In %) (A+B)
202.	Excavation work	01-03-21	15-04-21				
203.	PCC	16-04-21	22-04-21				
204.	RCC upto completion	23-04-21	20-05-21				
205.	Other finishing work	01-05-21	15-06-21				
206.	Hydrotesting	21-05-21	31-05-21				
207.	Boundary wall	01-03-21	31-05-21				
208.	Staff quarter	01-03-21	31-05-21				
209.	Other Misc works	01-05-21	15-06-21				
210.	<b>Jhunsi MPS and I&amp;D work</b>	<b>01-09-20</b>	<b>15-06-21</b>				
211.	Excavation work	16-01-21	31-03-21	40%	0%	0%	0%
212.	PCC	01-04-21	22-04-21				
213.	RCC upto completion	23-04-21	20-05-21				
214.	Other finishing work	01-05-21	15-06-21				
215.	Hydrotesting	21-05-21	31-05-21				
216.	Staff quarter	01-09-20	31-03-21	25%	27%	0%	27%
217.	Other Misc works	01-04-21	15-06-21				
218.	<b>Pipe laying ( Rising Main &amp; Gravity Main)</b>	<b>01-03-21</b>	<b>31-05-21</b>				
219.	<b>Rising main</b>	<b>01-03-21</b>	<b>31-05-21</b>				
220.	Excavation, Laying & Jointing, Backfilling/ Restoration works	01-03-21	20-05-21				
221.	Hydrotesting	21-05-21	31-05-21				
222.	<b>Gravity Main</b>	<b>01-03-21</b>	<b>31-05-21</b>				
223.	Excavation, Laying & Jointing, Backfilling/ Restoration works	01-03-21	20-05-21				
224.	Hydrotesting	21-05-21	31-05-21				
225.	<b>Other works</b>	<b>01-02-20</b>	<b>15-06-21</b>				
226.	Site office (Temporary office)	01-02-20	30-04-20	100%	100%	0%	100%
227.	Other misc works (Boundary Wall, Road, rain water harvesting, Land scaping etc)	01-03-21	15-06-21				
228.	<b>Mechanical Erection- STP unit</b>	<b>01-04-21</b>	<b>15-06-21</b>				
229.	Pumps	01-04-21	15-06-21				
230.	Lamella clarifier/ Tube settler	01-04-21	15-06-21				

Sr. No.	Work description	Scheduled Start Date	Scheduled End Date	Schedule d Completion (In %)	Completi on up to previous month (In %) (A)	This month Completi on (In%) (B)	Total Completio n (In %) (A+B)
231.	Fire fighting System	01-04-21	15-06-21				
232.	Chlorination	01-04-21	15-06-21				
233.	Grit removal system	01-04-21	15-06-21				
234.	Blowers & Diffuser	01-04-21	15-06-21				
235.	Screens	01-04-21	15-06-21				
236.	Piping, Valves & Gates	01-04-21	15-06-21				
237.	Media Installation/ Bio module	01-04-21	15-06-21				
238.	Other misc. work	01-04-21	15-06-21				
239.	<b>Mechanical Erection- SPS &amp; MPS</b>	<b>01-04-21</b>	<b>15-06-21</b>				
240.	Pumps	01-04-21	15-06-21				
241.	Screens	01-04-21	15-06-21				
242.	Piping, Valves & Gates	01-04-21	15-06-21				
243.	Other misc. work	01-04-21	15-06-21				
244.	<b>Electrical and C&amp;I- STP Unit</b>	<b>01-04-21</b>	<b>15-06-21</b>				
245.	Transformer Installation	01-04-21	15-06-21				
246.	HT/LT panel erection	01-04-21	15-06-21				
247.	PLC Panel & Online monitoring system	01-04-21	15-06-21				
248.	Instrumentation works	01-04-21	15-06-21				
249.	CCTV	01-04-21	15-06-21				
250.	Cable laying	01-04-21	15-06-21				
251.	DG Installation	01-04-21	15-06-21				
252.	Solar Panel	01-04-21	15-06-21				
253.	Other misc. work	01-05-21	15-06-21				
254.	<b>Electrical and C&amp;I- SPS &amp; MPS</b>	<b>01-04-21</b>	<b>15-06-21</b>				
255.	Transformer Installation	01-05-21	15-06-21				
256.	HT/LT Panel erection	01-04-21	15-06-21				
257.	Cable laying	01-04-21	15-06-21				
258.	DG Installation	01-04-21	31-05-21				
259.	PLC Panel & Online monitoring system	01-04-21	15-06-21				
260.	Other misc. work	01-04-21	15-06-21				
261.	Commissioning of Mech., Electrical and C&I	01-06-21	15-06-21				
262.	<b>Trial Run, Final Inspection and COD</b>	<b>15-06-21</b>	<b>15-09-21</b>				

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



## 7.2.4 Overall Package-II Progress



## 7.2.5 Physical Activities in January month

NEW CONSTRUCTION (Civil)			
S. No.	Structure Description	Structure Qty.	Status
PACKAGE – II			
RAJAPUR STP			
1.	Sludge Dewatering Building	01 No.	<ul style="list-style-type: none"> <li>1<sup>st</sup> Slab casting done.</li> <li>Roof top steel binding under progress</li> </ul>
2.	Battery Room	01 No.	<ul style="list-style-type: none"> <li>1<sup>st</sup> slab casting completed.</li> <li>Roof slab concreting completed</li> </ul>
NAINI-I STP			
3.	Chachar Nalla SPS PLC Room	01 No.	<ul style="list-style-type: none"> <li>Plaster work under progress.</li> </ul>
4	Sludge Dewatering Building	01 No.	<ul style="list-style-type: none"> <li>Roof slab concrete work completed</li> </ul>
5	SCADA Room	01 No.	<ul style="list-style-type: none"> <li>Inner and outer wall plaster work under progress</li> </ul>
6	Transformer foundation	01 No.	<ul style="list-style-type: none"> <li>Foundation work completed.</li> <li>Fire wall completed.</li> </ul>
7	DG Foundation	02 No.	<ul style="list-style-type: none"> <li>Shed construction in progress.</li> </ul>
8	Absorption Shed	01 No.	<ul style="list-style-type: none"> <li>Foundation work completed</li> </ul>
9	Wet Mix filter	01 No	<ul style="list-style-type: none"> <li>Casting up to plint beam completed.</li> <li>Roof slab reinforcement work completed.</li> <li>Brick work in progress</li> </ul>
10	Compressor Room	01 No	<ul style="list-style-type: none"> <li>Plaster work in progress</li> </ul>
REHABILITATION UNITS (Civil)			
NAINI – I STP			
1.	Sludge digester	01 No.	<ul style="list-style-type: none"> <li>Digester cleaning work under progress.</li> </ul>
2.	Grit Chamber	01 No.	<ul style="list-style-type: none"> <li>Grit Mechanism erection work completed.</li> </ul>
3.	Scrubber Unit (Gas Area)	01 No.	<ul style="list-style-type: none"> <li>Dismantling is completed.</li> </ul>
4.	Compressor Room	01 No.	<ul style="list-style-type: none"> <li>Dismantling is completed.</li> </ul>
5.	DFG Set	01 No.	<ul style="list-style-type: none"> <li>Dismantling is in progress</li> </ul>
6.	Primary Clarifier	01 No.	<ul style="list-style-type: none"> <li>Rehabilitation work is progress.</li> </ul>
7.	Secondary Clarifier	01 No.	<ul style="list-style-type: none"> <li>Rehabilitation work is progress.</li> </ul>
8.	Aeration Tank	02 No.	<ul style="list-style-type: none"> <li>Rehabilitation work is progress.</li> </ul>

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

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS (Mechanical)		
Sr. No.	Structure / Equipment details	Status
1.	Installation of flowmeter – 1 No. in New Inlet line of Naini - I STP from Gaughat MPS	1) Installation of new flowmeter is completed. 2) Commissioning work is completed. 3) Calibration of flowmeter is pending. 4) Earthing connections remains to connect
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 flow meter is pending. 4) Sluice valve adjacent to the flowmeter is to be shifted and replaced with knife gate valve as decided during joint inspection. 5) Earthing connections remains to connect
3.	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.
4.	Replacement of PMCC panel in Naini-I STP	1) Erection of new electrical panel is completed. 2) Testing of panel is completed & it is charged. 3) Connection of cables for field equipment is in progress. 4) Civil work is in progress. 5) All open spaces remains to close by checked plate 6) Rubber mat remains to bedding
5.	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.

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS (Mechanical)		
Sr. No.	Structure / Equipment details	Status
6.	Installation of flowmeter in Effluent Bypass of Naini - I STP	1) Installation of flowmeter is completed. 2) Level checking for flowmeter was done & it was found that level at outlet point was 25mm below level of topmost point of flowmeter for which a plate is welded at outlet point. 3) RCC flooring work is completed. 4) Commissioning work is pending. 5) Backflow of water towards flowmeter is arrested & RCC flooring at outside to prevent soil erosion at outlet point is constructed. 6) For rectifying the heading of effluent in outlet channel & in outlet launder of FSTs, elbow at the end of effluent pipe is cut down but since there is no change in heading of effluent, this elbow must be refitted to the effluent pipe or otherwise the flowmeter installed in effluent pipe will not work correctly. 7) Local Indicators not yet installed. 8) Earthing connections remains to to connect
7.	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.
8.	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.
9.	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.
10.	Overhauling of Mechanical Screens of 20 MLD stream along with conveyor	1) Overhauling work is completed. 2) Equipment are taken into operation on 10.01.2021.
11.	Rehabilitation works for Grit Removal Unit - 1	1) Erection work for scrapper is completed. 2) Erection of rake classifier is completed. 3) Commissioning work is completed. 4) Gap between floor & plates of rake classifier were found as 15-20mm after the completion of screeding work for floor. 5) Gap between floor & plates of scrapper were found as 30-35mm after completion of screeding work for the floor. 6) Unit is taken into operation on 03.02.2021 & its performance is under observation. 7) Torque switch arrangement for scrapper mechanism as per approved FEED is not provided.
12.	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.
13.	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.

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS (Mechanical)		
Sr. No.	Structure / Equipment details	Status
14.	Rehabilitation works for Grit Removal Unit - 4 (20 MLD)	<ol 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) Abnormal noise is coming from the gear box of rake classifier, this must be rectified.</li> <li>4) Torque switch arrangement for scrapper mechanism as per approved FEEP is not provided.</li> </ol>
15.	Replacement of Electrical Panel for Grit cum PST	<ol style="list-style-type: none"> <li>1) Erection of new electrical panel is completed.</li> <li>2) Testing of panel is completed &amp; it is charged.</li> <li>3) Connection of cables for field equipment is in progress.</li> <li>4) Civil work is in progress..</li> <li>5) All open spaces remains to close by checked plate</li> <li>6) Rubber mat remains to bedding</li> </ol>
16.	Rehabilitation works for PST - 1	<ol style="list-style-type: none"> <li>1) Erection &amp; commissioning of equipment is completed.</li> <li>2) Unit is taken into operation on 09.01.2021.</li> <li>3) Maintenance of Telescopic valve is pending.</li> <li>4) Scum is fully filled in the box &amp; it is not going properly to collection chamber. Rectification of problem is required.</li> <li>5) Torque switch arrangement for scrapper mechanism as per approved FEEP is not provided.</li> <li>6)The Gap between scrapper blades &amp; floor when checked, it was varying from 10 to 60 mm. This is not rectified yet &amp; for increasing the efficiency of unit, the gap must be maintained in between 20 - 30mm.</li> </ol>
17.	Rehabilitation works for PST - 2	<ol 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) Maintenance of Telescopic valve is pending.</li> <li>4) Scum is fully filled in the box &amp; it is not going properly to collection chamber. Rectification of problem is required.</li> <li>5) Torque switch arrangement for scrapper mechanism as per approved FEEP is not provided.</li> <li>6)The Gap between scrapper blades &amp; floor when checked, it was varying from 10 to 60 mm. This is not rectified yet &amp; for increasing the efficiency of unit, the gap must be maintained in between 20 - 30mm.</li> </ol>
18.	Rehabilitation works for PST - 3	<ol style="list-style-type: none"> <li>1) Cleaning work is completed.</li> <li>2) Erection of new structure is completed.</li> <li>4) Commissioning work is in progress.</li> <li>3) Maintenance of telescopic valve is required.</li> <li>4) Torque switch arrangement for scrapper mechanism as per approved FEEP is not provided.</li> <li>5)The Gap between scrapper blades must be maintained in between 20 - 30 mm.</li> </ol>
19.	Rehabilitation works for PST - 4 (20 MLD)	<ol 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> </ol>

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS (Mechanical)		
Sr. No.	Structure / Equipment details	Status
20.	Replacement of Valves for Drain line of PST - 4 Nos	1) Replacement of valves is completed. 2) Actuator are not fitted to the valves as they are not available at site. 3) Maintenance of telescopic valves is pending. 4) Cleaning required for all valves chambers so that scum/sludge can flow freely without any choking problem. 5) Installation of flushing arrangement for the drain valves must be completed.
21.	Rehabilitation works for Aeration Tank no. 1	1) Erection & commissioning of equipment is completed. 2) Unit is taken into operation on 02.01.2021.
22.	Rehabilitation works for Aeration Tank no. 2	1) Unit is taken into operation on 09.01.2021. 2) Rehabilitation work is not started yet. 3) Stud bolts are not present at site.
23.	Rehabilitation works for Aeration Tank no. 3	1) Cleaning of unit is completed from Concessionaire's side and during the visit it was found that sewage is filled inside the tank. During last visit it was found that atleast 250-300mm of sludge is left in entire tank, provisions must be made for the cleaning the sludge completely. 2) Dismantling of all old surface aerator is completed. 3) Modification work for foundation of all surface aerators is completed. 4) Erection of new surface aerators is in progress.
24.	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.
25.	Replacement of Aeration Blowers for Aeration Tank of 20 MLD	1) Dismantling of one blower is completed but no rehab work is in progress currently. 2) New Air Blowers are not available at site. 3) No work is in progress. 4) Currently, two old blowers are ready for operation.
26.	Rehabilitation works for FST - 1	1) Erection & commissioning of equipment is completed. 2) Unit is taken into operation on 02.01.2021. 3) Central well is completely submerged in water level and this will affect the quality of final water from the unit. This must be rectified or otherwise this unit will not work at maximum efficiency. 4) Torque switch arrangement for scrapper mechanism as per approved FEED is not provided. 5) The Gap between scrapper blades & floor when checked, it was varying from 10 to 60 mm. This is not rectified yet & for increasing the efficiency of unit, the gap must be maintained in between 20 - 30mm.

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS (Mechanical)		
Sr. No.	Structure / Equipment details	Status
27.	Rehabilitation works for FST - 2	1) Erection & commissioning of equipment is completed.2) Unit is taken into operation on 09.01.2021.3) There is very little margin between top level of water & top level of Central well. If the central well gets submerged due to increase in flow then this will effect the quality of final water from the unit. This must be rectified or otherwise this unit will not work at maximum efficiency.4)Torque switch arrangement for scrapper mechanism as per approved FEEP is not provided. 5)The Gap between scrapper blades & floor when checked, it was varying from 10 to 60 mm. This is not rectified yet & for increasing the efficiency of unit, the gap must be maintained in between 20 - 30mm.
28.	Rehabilitation works for FST - 3	1) Cleaning work is completed. 2) Erection & commissioning of scrapper is completed. 3) Unit is taken into operation on 01.02.2021. Final Inspection of unit was not completed as unit was taken into operation for resolving the issues of FST 1&2 (one by one) and for improving the quality of effluent. 3) Sheets for current density baffle are also not installed completely. Material is not available at site. 4) Since final inspection of the unit was not completed so performance of unit is under review and remaining works / discrepancies will be completed / resolved in the future. 5) During recent visit it was found that sludge is coming to the top due to which outlet quality of FST is very bad. Concessionaire is required to rectify the issue at the earliest. 6) Torque switch arrangement for scrapper mechanism as per approved FEEP is not provided.
29.	Rehabilitation works for FST - 4 (20 MLD)	1) Overhauling work is completed. 2) Equipment is taken into operation on 10.01.2021. 3) Torque switch arrangement for scrapper mechanism as per approved FEEP is not provided.
30.	Replacement of Valves for Drain line of FST - 4 Nos	1) Replacement of valves is completed. 2) Actuator are not fitted to the valves as they are not available at site. 3) Installation of flushing arrangement for the drain valves must be completed.
31.	Replacement of Electrical Panel for Return Sludge cum FST	1) Erection of new electrical panel is completed. 2) Testing of panel is completed & it is charged. 3) Connection of cables for field equipment is in progress. 4) Civil work is in progress. 5) All open spaces remains to close by checked plate 6) Rubber mat remains to bedding



NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS (Mechanical)		
Sr. No.	Structure / Equipment details	Status
32.	Rehabilitation works for Return Sludge Pumps (60 MLD)	1) Replacement of suction valves is completed. 2) Dismantling of one pump is done. 3) Pumps are available at site. 4) Erection of new pumps is not started yet. 5) Discharge valve & NRV are not available at site. 6) Currently two old pumps are available for operation and no pump is in stand-by. 7) As discussed, dismantling joints must be provided in both suction & discharge pipelines. of pumps.
33.	Rehabilitation works for Thickener - 1	1) Work for inlet line of thickener is completed..2) Commissioning work is in progress..3) Currently, three streams are in operation & work for thickener must be completed at the earliest for proper sludge withdrawal from PSTs. 4) Currently, sludge from blending is taken directly to sludge drying beds which is not proper method, Hence, thickener must be made ready at the earliest for the proper withdrawal of sludge.5) Level of weir plates must be checked as at some points v-notch is not clear completely.6) Torque switch arrangement for scrapper mechanism as per approved FEED & datasheet must be provided.
34.	Rehabilitation works for Thickener - 2	1) Cleaning of unit is completed. 2) Dismantling of old structure is completed. 3) Erection of new structure is not started yet. 3) Repairing of central RCC column at the top is required. 4) Torque switch arrangement for scrapper mechanism as per approved FEED & datasheet must be provided.
35.	Rehabilitation Works for Sludge Pumps of Thickener	1) Civil modification work for the unit is completed. 2) Concessionaire is required to expedite the work for ensuring proper sludge withdrawal. 3) Installation of pump is completed. 4) Piping work is in progress. 5) Laying Power and Control cables is pending.
36.	Erection & Commissioning of Valves in Inlet line of Thickener	Valve installation work is completed.
37.	Replacement of Valves for Drain line of Thickener -2 Nos	1) Valves are available at site but work is not started yet. 2) Actuator for the valves are not available at site. 3) Installation of flushing arrangement for the drain valves must be completed.
38.	Replacement of Electrical Panel for Digester cum Thickener	1) Erection of new electrical panel is completed. 2) Testing of panel is completed & it is charged. 3) Connection of cables for field equipment is in progress. 4) Civil work is pending. 5) Panels at the backside of main panel are required to be shifted in front for proper access. 6) All open spaces remains to close by checked plate 7) Rubber mat remains to bedding

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS (Mechanical)		
Sr. No.	Structure / Equipment details	Status
39.	Rehabilitation works for HNC pumps of Naini Area in TEPH	1) HNC pumps are available but some valves/NRVs are not available at site. 2) Concessionaire is also required to resolve the design issues of Valves & pumps as per observations given by UPJN/PE. 3) Dismantling of 3 pumps is completed and erection of two new pumps is completed. 4) Modification work for foundation of pumps is in progress. 5) Work progress is very slow. 6) As discussed, dismantling joints must be provided in suction & discharge line of the pumps. 7) Laying of power & control cable is pending.
40.	Rehabilitation works for HNC pumps of Dandi Area in TEPH	1) HNC pumps are available but some valves/NRVs are not available at site.2) Concessionaire is also required to resolve the design issues of Valves & pumps as per observations given by UPJN/PE.3) Dismantling of all pumps is completed & erection of one pump is completed.4) Modification work for foundation of three pumps is in progress.5) Work progress is very slow.6) As discussed, dismantling joints must be provided in suction & discharge line of the pumps.7) Laying of power & control cable is pending.
41.	Replacement of Electrical Panel for TEPH	1) Gate has been removed & opening has been enlarged for removing old electrical panel. 2) Erection of 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 close by checked plate 4) Rubber mat remains to bedding
42.	Replacement of Electrical Panel for DGs	1) New panel is commissioned & it is shifted to new position on Gas engine room. 2) Commissioning work is completed. 3) Cleaning of area around DG panels is required.
43.	Replacement of HT Panel	1) Erection of new panel is completed. 2) Modification for trench is completed. 3) Commissioning work is in progress. 4) Cable termination work is in progress. 5) All open spaces remains to close by checked plate 6) Rubber mat remains to bedding
44.	Erection & Commissioning of New Transformers	1) Erection work is completed. 2) Concessionaire is required to complete levelling, commissioning, testing & raise inspection call. 3) Civil work is in progress. 4) Commissioning work is in progress. 5) All testings are remains prior to pre-commissioning. 6) Power and control cables remains to connected.

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS (Mechanical)		
Sr. No.	Structure / Equipment details	Status
45.	Erection & Commissioning of New DGs	<ol style="list-style-type: none"> <li>1) Erection work is completed.</li> <li>2) Erection work for chimney is pending.</li> <li>3) Fuel tank installation is completed but its connection to DGs is not done.</li> <li>4) Concessionaire is required to complete levelling, commissioning, testing &amp; raise inspection call.</li> <li>5) Currently, no work is in progress.</li> </ol>
46.	Rehabilitation Works for Chlorination System	<ol 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) Both units are not working satisfactorily as booster pumps are not able to generate proper pressure. Rectification of the problem is required.</li> <li>4) It was also observed that chlorine dosing is not done regularly &amp; several times the system was found not running. This problem must be rectified &amp; 24X7 dosing of chlorine must be ensured.</li> <li>5) It must also be ensured that chlorine dosing is done to effluent that is bypassing the chlorine contact tank.</li> </ol>
47.	Erection & Commissioning of Leak Absorption System	<ol style="list-style-type: none"> <li>1) Civil work is in progress.</li> <li>2) Erection of new equipment is started.</li> <li>2) Currently, No work is in progress.</li> </ol>
48.	Erection & Commissioning of Sludge Dewatering System	<ol style="list-style-type: none"> <li>1) Civil work is in progress..</li> <li>2) E&amp;M works not started yet.</li> </ol>
49.	Rehabilitation Works for Filtrate Pumps	<ol style="list-style-type: none"> <li>1) Dismantling work is not started yet.</li> <li>2) No work is in progress.</li> <li>3) Some valves/NRVs are not available at site.</li> </ol>
50.	Installation of flowmeter in Header line of HNC pumps for Dandi Area in TEPH	<ol style="list-style-type: none"> <li>1) Excavation work is completed.</li> <li>2) Flowmeter is available at site &amp; pipe of 800mm dia is procured.</li> <li>3) Fabrication of new spool pieces is completed and line is punctured for dewatering purpose.</li> <li>4) Installation work is not started yet.</li> <li>5) Signal and Power cables not yet laid.</li> <li>6) Local Indicators not yet installed.</li> <li>7) Earthing connections remains to connect</li> </ol>
51.	Installation of flowmeter in Header line of HNC pumps for Naini Area in TEPH	<ol style="list-style-type: none"> <li>1) Installation of new flowmeter is completed.</li> <li>2) Commissioning work is pending.</li> <li>3) Signal and Power cables not yet laid.</li> <li>4) Local Indicators not yet installed.</li> <li>5) Earthing connections remains to connect</li> </ol>
52.	Installation of flowmeter in Inlet line of Thickener from Blending Tank	<ol style="list-style-type: none"> <li>1) Excavation work for both thickener is completed.</li> <li>2) Flowmeter installation for one thickener is completed.</li> <li>3) Flowmeter for second thickener is not available at site.</li> <li>4) Signal and Power cables not yet laid.</li> <li>5) Local Indicators not yet installed.</li> <li>6) Earthing connections remains to connect</li> </ol>

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS (Mechanical)		
Sr. No.	Structure / Equipment details	Status
53.	Installation of flowmeter in Header line of Submersible pumps from Thickener to Digester	Flowmeter is not available at site.
54.	Installation of flowmeter in Return Sludge Line from RSPH of 60 MLD	1) Installation of new flowmeter is completed but flowmeter of size 350mm is fitted in line of 300mm by giving enlargers at both ends. This must be checked as both enlargers are fitted within 2D & 5D dimensions in downstream & upstream respectively. This must be checked & rectified as flowmeter can give wrong values. 2) Commissioning work is pending. 3) Signal and Power cables not yet laid. 4) Local Indicators not yet installed. 5) Earthing connections remains to connect
55.	Installation of flowmeter in Return Sludge Line from RSPH of 20 MLD	1) Installation of new flowmeter is completed. 2) Commissioning work is pending. 3) Signal and Power cables not yet laid. 4) Local Indicators not yet installed. 5) Earthing connections remains to connect
56.	Erection & Commissioning of Online Instruments	1) Erection of online analyzers is started. 2) Work progress is very slow. 3) Signal and Power cables not yet laid. 4) Earthing connections remains to connect
57.	Erection & Commissioning of PLC panels	1) Civil work for PLC / SCADA room is in progress. 2) Erection works for PLC panels is started. 3) Concessionaire is required to expedite the work.
58.	Erection & Commissioning of SCADA System	1) Civil work for PLC / SCADA room is in progress. 2) Erection works for SCADA system is started.
59.	Erection & Commissioning of APFC Panels	1) Construction work for trenches is completed. 2) Erection work for panels is completed. 3) Commissioning work is in progress.
60.	Rehabilitation works for Storm Water Pump House	No plan is submitted yet for the Rehabilitation works.
61.	Rehabilitation works for Digester no. 1	1) Cleaning work for the Digester is completed. 2) Core cutting work for fitting Gas mixing system is completed. 3) Erection of Gas mixing system is in progress. 4) Piping work for digester is not started yet.
62.	Rehabilitation works for Digester no. 2	1) Cleaning work for the Digester is not complete. 2) Core cutting work for fitting Gas mixing system is completed. 3) Erection of Gas mixing system is in progress. 4) Piping work for digester is not started yet.

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS (Mechanical)		
Sr. No.	Structure / Equipment details	Status
63.	Rehabilitation works for Digester no. 3	1) Cleaning work for the Digester is not started yet. 2) Core cutting work for fitting Gas mixing system is completed. 3) Erection of Gas mixing system is in progress.
64.	Erection & Commissioning of Compressors for Gas mixing system of Digesters	1) Construction work for the room is in progress 2) E&M works are not started yet.
65.	Erection & Commissioning of Heat Exchangers/sludge recirculation pumps - 3 Nos	1) Construction of foundations is in progress. 2) Erection of one heat exchanger is completed.
66.	Erection & Commissioning work of Gas Holder no. 1 & 2	Civil work is not started yet
67.	Erection & Commissioning of Dewatering Feed pumps	1) Construction of sludge sump is in progress. 2) E&M work is not started yet.
68.	Erection & Commissioning of Gas Engine	1) Construction of foundation is completed. 2) Erection of Gas Engine is completed. 3) Piping work is in progress. 4) Material for exhaust chimney is not available at site. 5) Power and control cables remains to laid and connected.
69.	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 is in progress.
70.	Erection & Commissioning of HT, LT & Hot Water System	1) Construction of foundation is completed. 2) Erection of equipment is completed. 3) Piping work is in progress. 4) Power and control cables remains to laid and connect
71.	Erection & Commissioning of Radiator	1) Construction work for foundation is completed. 2) Erection of equipment is completed. 3) Piping work is in progress.
72.	Erection & Commissioning of Ventilation System	1) Civil construction work is in progress 2) E&M work is not started yet.
73.	Erection & Commissioning of Gas Flare	1) Construction work for foundation is completed. 2) Erection of equipment is completed. 3) Piping work is in progress.
74.	Set-up of Laboratory	1) Civil work is in progress. 2) Set-up of laboratory is not started yet.
75.	Installation of flowmeter in old header line of Gaughat MPS	1) Installation of new flowmeter is completed. 2) Commissioning work is completed. 3) Calibration is pending. 4) Earthing remains to be connected.

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS (Mechanical)		
Sr. No.	Structure / Equipment details	Status
76.	Installation of flowmeter in new header line of Gaughat MPS	1) Installation of new flowmeter is completed. 2) Rectification work for leakage during commissioning of pipeline is completed. 3) Commissioning work is pending. 4) Power and control cables remains to laid and connect 5) Local display remains to installation. 6) Earthing remains to be connected.
77.	Replacement of HNC pumps - 5 Nos	1) Dismantling of one pumps is completed. 2) Concessionaire is required to resolve the design issues of Valves & pumps as per observations given by UPJN/PE.3) It was also decided that one new pump must be installed in vacant space for 5th pump.4) Erection of new pumps is not started yet.5) No work is in progress.
78.	Replacement of Submersible pumps - 3 nos	1) Replacement work of pumps is completed. 2) Installation of Soft Starter panel is completed. 3) Commissioning work is completed. 4) Testing of two pumps is completed and one pump is remaining due to problem in its soft starter panel. Concessionaire to please check & do the needful.
79.	Replacement of Mechanical Screen - 2 Nos	1) Erection of new mechanical screens is completed.2) Commissioning work was completed but when the equipment were taken into operation the screen got bend at the bottom. Hence, rectification of the problem is required or otherwise the equipment will not be operated.3) Rectification work for one screen was completed but it is not working satisfactorily as it is getting stuck frequently. Rectification of the problem must be completed as it will effect the performance of facility.
80.	Replacement of Electrical Panel for DGs	Panel is charged & taken into operation.
81.	Cleaning of Receiving Chamber for HNC pumps	Cleaning of sump is completed.
82.	Cleaning of Receiving Chamber for Submersible pumps	Cleaning of sump is completed.
83.	Erection & Commissioning of PLC panels	1) Construction of PLC room is in completed. 2) Finishing work for the room is completed. 3) Erection of PLC panel is completed. 4) Commissioning work is not started yet.
84.	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, problem must be resolved for the same.



NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS (Mechanical)		
Sr. No.	Structure / Equipment details	Status
85.	Installation of flowmeter - 600mm in header line of VNC pumps in Chacharnalla SPS	1) Installation work is completed. 2) Commissioning work is pending. 3) Power and control cables remains to laid and connect 4) Local display remains to installation. 5) Earthing remains to be connected.
86.	Overhauling/Calibration of flowmeter - 400mm in header line of VNC pumps in Chacharnalla SPS	1) As per information, flowmeter will not be replaced because is old flowmeter is OK for operation. 2) Overhauling/calibration of old flowmeter is not started yet.
87.	Erection of Manual Screens at tapping points in Chacharnalla SPS	1) Erection of screens is completed. 2) Civil work is pending.
88.	Replacement of Big VNC pumps in Chacharnalla SPS	1) Dismantling of one pump is completed. 2) Erection work for one pump is completed and it is taken is not operation. Performance of the same is under review. 3) Concessionaire is also required to resolve the design issues of Valves & pumps as per observations given by UPJN/PE. 4) Concessionaire is required to complete the erection work of other pumps also so that stand-by pumps can be made ready for operation.
89.	Replacement of MCC panel at Chacharnalla SPS	1) Panel is taken into operation on 10.01.2021.
90.	Cleaning of Receiving Chamber at Chacharnalla SPS	Cleaning of sump is completed.
91.	Erection & Commissioning of PLC panels	1) Construction of PLC room is not completed yet. 2) Civil work is in progress. 3) E&M works are not started yet.
92.	Overhauling of Mechanical Screens	1) Overhauling work is not started yet. 2) Currently, both screens are in working condition.
93.	Overhauling of DG sets	1) Overhauling work is not started yet. 2) During the visit, facility was checked by giving load on DGs and it was found that during the changeover, the lever inside incomer panel of DG was not working properly. Hence, servicing of old panels is required & it must be done from authorized vendors so that proper pumping during power cuts can also be ensured.



RAJAPUR STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS (Mechanical)		
Sr. No.	Structure / Equipment details	Status
1.	Repairing of Parshall flume after PTU & installation of Ultrasonic flowmeter.	1) Installation of flowmeter is completed. 2) Cable connection work is in progress
2.	Installation of flowmeter – 1 No. in Inlet line of Rajapur STP from Mumfordganj SPS	Commissioning of flowmeter is completed
3.	Installation of flowmeter in Outlet of Rajapur STP	1) Installation of flowmeter is completed. 2) Commissioning work is in progress. 3) Calibration work is pending.
4.	Cleaning of Chlorine Contact Tank in Rajapur STP	Cleaning work is completed.
5.	Overhauling of Mechanical Screens at PTU	1) Overhauling work is completed. 2) Both screens are in working condition.
6.	Rehabilitation works for Grit Removal Unit - 1 & 2	1) Overhauling work is completed. 2) Chain guard for all drives must be installed. 3) Abnormal vibration found in both organic pumps, this must be rectified.
7.	Rehabilitation work for Sluice Gates at PTU	Rehabilitation works is completed.
8.	Rehabilitation works for UASB - 1	1) Leakage rectification required from HDP pipes. 2) Dewatering of structure is completed for one compartment. Cleaning work was started but was not completed and the unit was taken into operation due to Magh Mela period. 3) No cleaning work is in progress currently. 4) During visit it was found that several cells are in choked condition hence cleaning is required for the same.
9.	Rehabilitation works for UASB - 2	1) Dewatering of structure is not started yet. 2) Leakage rectification required from HDP pipes. 3) During visit it was found that several cells are in choked condition hence cleaning is required for the same.
10.	Rehabilitation works for Aeration Tank	1) As informed, current plan is to replace 3 Surface Aerators only in place of total 15. It is strongly suggested to replace all 15 Surface Aerators so that maximum efficiency of treatment can be achieved, and desired level of Dissolved Oxygen can be maintained in the outlet of Aeration Tank. 2) One Surface Aerator erection work is completed but it is taking high ampere during operation. Hence, problem must be rectified. 3) Cleaning of Aeration tank is not started yet. 4) Erection for remaining two surface aerators is completed but it is taking high ampere during testing. Hence, problem must be rectified.

RAJAPUR STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS (Mechanical)		
Sr. No.	Structure / Equipment details	Status
11.	Rehabilitation works for Quiescent Zone	1) Unit is taken into operation on 01.01.2021 without doing the cleaning work. 2) As informed, current plan is to avoid cleaning of Quiescent Zone do it at some afterwards due to time constraints. In current situation also we can see that the dead sludge which is deposited in Quiescent Zone over the years is coming out along with the treated water resulting in higher TSS & low DO hence It is strongly suggested to complete the cleaning of Quiescent Zone to increase the treatment efficiency of the plant.
12.	Rehabilitation works in MEP Room	1) Floor restoration work is completed.2) Increase in height of Electrical Panels is completed.3) No permanent arrangement is being made for safe approach to the electrical panel at increased height which is very dangerous and violates all safety norms. Concessionaire is required to look into the matter & do the needful at the earliest.
13.	Rehabilitation works in Metering Room	1) Floor restoration work is completed. 2) Increase in height of Electrical Panels is completed. 3) No permanent arrangement is being made for safe approach to the electrical panel at increased height which is very dangerous and violates all safety norms. Concessionaire is required to look into the matter & do the needful at the earliest.
14.	Cleaning of Sludge Drying Beds	Cleaning work is in progress.
15.	Increase in height of foundation for DGs	1) Modification work for foundation is completed. 2) Repairing of shed is pending.
16.	Rehabilitation works for Gas Handling System	No work is started for the system. Concessionaire to please expedite the work as this system is part of the process must be made functional before the end of Rehabilitation period.
17.	Rehabilitation works for Sludge Handling System	1) No work is started for the system. 2) Two sludge sumps are available for the system but one pump is not available in each sump. Hence, repairing/overhauling of pumps is required.
18.	Rehabilitation works for Filtrate pump house	1) No work is started for the system. 2) Two filtrate pumps are available for the system but one pump is not available. Hence, repairing/overhauling of pumps is required.
19.	Rehabilitation works of Chlorination system.	1) Erection & commissioning of chlorine system is completed. 2) Testing of chlorination system is completed, both are found running at maximum efficiency. Proper Pipe Supports are required. 3) Painting of pipes is required.

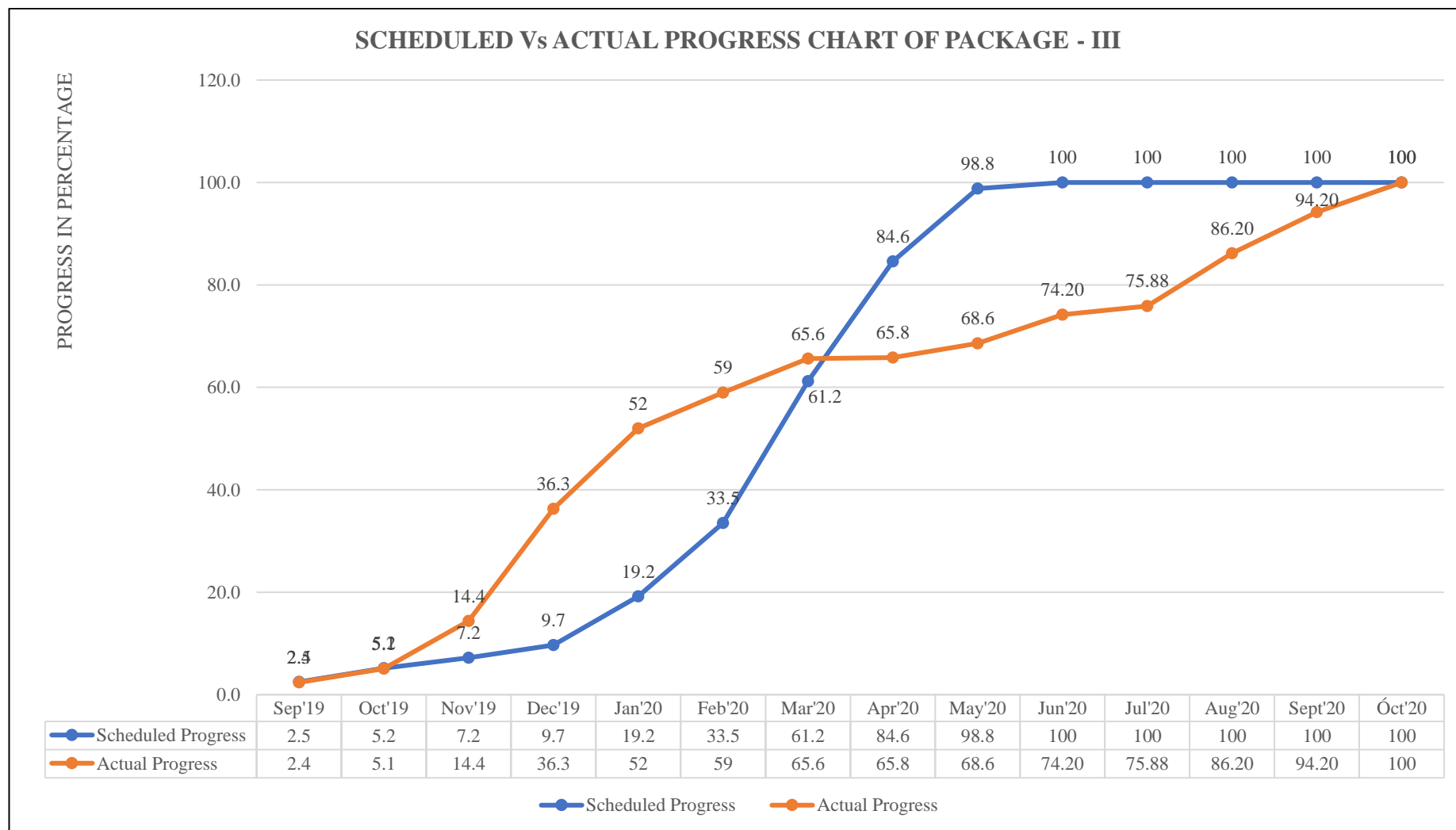
RAJAPUR STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS (Mechanical)		
Sr. No.	Structure / Equipment details	Status
20.	Rehabilitation works of Leak Absorption System	1) Rehabilitation works is not started. 2) After completion of Rehabilitation works, the system must be checked in Auto mode. 3) Proper caustic solution must be filled in Caustic pit for absorbing the chlorine leakage. 4) PU coating for neutralisation pit is in progress.
21.	Erection & Commissioning of Sludge Dewatering System	1) Civil work for the unit is not completed yet. 2) E&M work is not started yet.
22.	Erection & Commissioning of Online Instruments	1) Erection of online instruments is started. 2) Cable trench excavation work is in progress. 3) Cable laying work is in progress.
23.	Erection & Commissioning of PLC panels	1) PLC panel installation is in progress. 2) Cable connection 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.	Set-up of Laboratory	1) Set-up of laboratory is in progress..
27.	Replacement of Submersible pumps - 6 nos	1) Replacement of 5 no. submersible pumps is completed out of 6.2) Flow for two pumps was checked and it was coming around 720 m <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.
28.	Overhauling of Mechanical Screen	Overhauling work is completed and equipment is taken into operation.
29.	Cleaning of Receiving Chamber	Cleaning of sump is completed.
30.	Overhauling of sluice gates	Overhauling work for two gates is pending for which check nuts are required, order for the same is given.
31.	Rehabilitation Works for tapping point of Rajapur SPS	1) Cleaning of channel is completed. 2) Preparation of retaining wall was completed but it is again broken. Reconstruction of retaining wall must be done so that no untreated sewage can go directly into the river. Proper strength must be given for preventing breakage in retaining wall.
32.	Overhauling/Calibration of existing flowmeter in header line of pumps	1) Currently new flowmeter is installed at site. 2) Commissioning work is completed. 3) Calibration work is completed. 3) Dismantling joint must be provided along with flowmeter for ease in maintenance.
33.	Overhauling of Mechanical Screen	Overhauling work is in progress.
34.	Replacement of HNC pumps along with cables.	1) Dismantling of Two pump is completed. 2) Modification for foundation of two pumps is in progress. 3) Erection of two new pumps is in progress.

RAJAPUR STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS (Mechanical)		
Sr. No.	Structure / Equipment details	Status
35.	Replacement of suction valves, discharge valves & NRVs	<p>1) Replacement of suction valves is completed.</p> <p>2) Replacement of header line is completed on 15.01.2021 &amp; 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.</p> <p>3) Concessionaire is also required to resolve the design issues of Valves &amp; pumps as per observations given by UPJN/PE.</p> <p>4) NRV in main header line must be provided for reducing back hammering on the pumps.</p>
36.	Rehabilitation works of MCC panel	No rehabilitation work is started & complete material is not present at site.
37.	Erection & Commissioning of PLC panels	<p>1) Construction of PLC room is completed.</p> <p>2) Erection of PLC panel is completed.</p> <p>3) Cable laying &amp; connection work is on progress.</p>
38.	Cleaning of Receiving Chamber	Cleaning of sump is completed.
39.	Overhauling/testing of Transformer	<p>1) Overhauling work is not started yet.</p> <p>2) One transformer is sent for repairing &amp; currently one transformer is available for operations only. Hence, the repairing of transformer must be completed at the earliest for having one transformer in stand-by mode.</p>

## 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	50	8	58
Building Work	1-sept-20	24-Jan-21	100	70	8	78
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	70	5	75
Pipes, Valves, Gates, Screens	1-Nov-20	24-Jan-21	100	60	10	70
Sludge Dewatering System	1-Nov-20	24-Jan-21	100	0	0	0
Grit Removal System	20-Oct-20	24-Jan-21	100	50	50	100
Biogas Engine with Scrubber and Gas Mixing System	1-Nov-20	24-Jan-21	100	15	50	65
Chlorination System	1-Nov-20	24-Jan-21	100	80	20	100
<b>Electrical &amp; C&amp;I Work</b>						
PLC	1-Nov-20	24-Jan-21	100	31	39	70
Field Instruments (Gauges)	1-Nov-20	24-Jan-21	100	0	0	0
Level Transmitters	1-Nov-20	24-Jan-21	100	0	0	0
Analyzers	1-Nov-20	24-Jan-21	100	70	10	80
Cable Traying laying	1-Nov-20	24-Jan-21	100	40	30	70
Cable Laying, Termination and Glanding	1-Nov-20	24-Jan-21	100	30	35	65
<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

### 7.3.4 Overall Package-III Progress



### 7.3.5 Physical Activities status

NEW CONSTRUCTION			
S. No.	Structure Description	Structure Qty.	Status
<b>PACKAGE – III</b>			
<b>SALORI STP</b>			
1.	PLC building	01 No.	Completed
2.	Chlorination room	01 No.	Completed
3.	Sludge Dewatering Building	01 No.	Completed
4.	Absorption Shed	01 No.	Completed
5.	FeCl <sub>3</sub> dosing house Shed	01 No.	Completed
6.	Store Room	01 No.	Completed
<b>LUKARGANJ SPS</b>			
1.	PLC Room	01 No.	Completed
<b>PONGHAT STP</b>			
2.	PLC Room	01 No.	Completed
<b>REHABILITATION UNITS</b>			
<b>NUMAYADAHI STP</b>			
1.	Bio tower	03 No.	Completed
2.	Secondary clarifier	02 No.	Completed
3.	Aeration tank	03No.	Completed
4.	Blower	04 No	Completed
5.	PLC	01 No.	Completed
6.	Chlorine Room	02 No.	Completed
7.	SCADA	01 No.	Completed
8.	Solar Panel	01 Lot	Completed
9.	Grit classifier	02 No.	Completed
10.	Online Monitoring System	01 Unit	Completed
11.	Erection of Handrail/Chequered Plate.	01 Unit.	Completed
12.	Level Transmitter at Sump.	01 Unit.	Completed
<b>KODRA STP</b>			
1.	Bio tower	02 No.	Completed
2.	Secondary clarifier	02 No.	Completed
3.	Aeration tank	01 No.	Completed
4.	SCADA	01 No.	Completed
5.	PLC	01 No.	Completed
6.	Blower	03 No.	Completed
7.	Solar System	01 Lot	Completed
8.	VFD & SD Panel	01 No.	Completed
9.	Grit classifier	02 No.	Completed
10.	Thickener	01 No.	Completed
11.	Secondary Sludge Sump	01 No.	Completed
12.	Level Transmitter at Sump.	01 No.	Completed
13.	Online monitoring System.	01 No.	Completed



PONGHAT STP			
1.	Bio tower	02 No.	Completed
2.	Secondary clarifier	02 No.	Completed
3.	Aeration tank	01 No.	Completed
4.	Blower	03 No.	Completed
5.	VFD & SD Panel	01 No.	Completed
6.	PLC panel	01 No.	Completed
7.	SCADA	01 No.	Completed
8.	Solar Panel	01 No.	Completed
9.	Grit classifier	02 No.	Completed
10.	Online Monitoring System	01 Unit	Completed
11.	Level Transmitter at Sump	01 Unit	Completed
12.	MPS	01 Unit	Completed
13.	Thickener	01 Unit	Completed
SALORI STP			
1.	FAB reactor	02 No	Completed
2.	Grit classifier	01 No	Completed
3.	Clarissettler	02 No	Completed
4.	Dewatering Feed Pump.	01 No	Completed
5.	Chlorine Unit.	01 No	Completed
6.	Absorption System	01 No	Completed
7.	LV panel	01 No	Completed
8.	Solar Panel	01 No	Completed
9.	Blower	03 No.	Completed
10.	Level Transmitter at Sump	01 Unit	Completed
11.	Secondary Sludge Pump	01 Unit	Completed
12.	Strengthening & surface coating of steel structure.	01 Unit	Completed
13.	Online Monitoring System	01 Unit	Completed
14.	MPS	01 Nos.	Completed

### 7.3.6 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>Numayadahi, Kodra, Ponghat &amp; Salori STP &amp; Associated Infrastructure</b>						
<b>Civil Work</b>						
Civil Work in Plant, MPS, SPS	23-03-20	17-10-20	100	95	5	100
Building Work	22-03-20	17-10-20	100	95	5	100
Office Work	26-03-20	17-10-20	100	95	5	100
<b>Mechanical Work</b>						
Pumps, Blowers, Diffusers	13-03-20	17-10-20	100	95	5	100
Pipes, Valves, Gates, Screens	18-03-20	17-10-20	100	95	5	100
Sludge Dewatering System	18-05-20	17-10-20	100	95	5	100
Grit Removal System	13-05-20	17-10-20	100	90	10	100
Media	05-03-20	17-10-20	100	95	5	100
Chlorination System	18-05-20	17-10-20	100	90	10	100
<b>Electrical &amp; C&amp;I</b>						
PLC	20-03-20	17-10-20	100	95	5	100
Field Instruments (Gauges)	20-03-20	17-10-20	100	90	10	100
Level Transmitters	20-03-20	17-10-20	100	90	10	100
Analyzers	20-03-20	17-10-20	100	95	5	100
Cable Traying laying	20-03-20	17-10-20	100	95	5	100
Cable Laying, Termination and Glanding	30-03-20	17-10-20	100	95	5	100
<b>Commissioning / Trial Run</b>	17-10-20	24-10-20	100	90	10	100
<b>Final Inspection by Client</b>	25-10-20	31-10-20	100	90	10	100
<b>COD</b>	31-10-20	31-10-20	100	90	10	100

## 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 January' 2021

Sr. No.	Site Visit & Meeting with UPJN / NMCG / PWPL	Date	Attendees	Description
1.	Site inspection of Naini-I and Rajapur STP	1-Jan-2021	Mr. Divvela Srimannarayana Mr. Gaurav Gupta Mr. Sudhir Tomar	Inspection Regarding ongoing E&M activities
2.	Site inspection of Jhunsi STP and Shastri Bridge SPS	2-Jan-2021	Mr. Amit Ranjan	Inspection Regarding ongoing Civil activities
3.	Site inspection of Naini-II STP	2-Jan-2021	Mr. Amit Ranjan Mr. Kumar Kashyap	Inspection Regarding ongoing Civil activities
4.	Site inspection of Naini- I STP and Progress review meeting with P.M (E&M) - UPJN	4-Jan-2021	Mr. Gaurav Pandey	Inspection Regarding ongoing E&M activities
5.	Site inspection of Jhunsi STP	4-Jan-2021	Mr. Abhishek Singh	Inspection Regarding ongoing Civil activities
6.	Site inspection of Phphamau STP	4-Jan-2021	Mr. Wahab Alam	Inspection Regarding ongoing Civil activities
7.	Site inspection of Jhunsi STP	5-Jan-2021	Mr. Abhishek Singh	Inspection Regarding ongoing Civil activities
8.	Site inspection of Naini-II STP	5-Jan-2021	Mr. Kumar Kashyap	Inspection Regarding ongoing Civil activities
9.	Site inspection of Naini-I STP	6-Jan-2021	Mr. Gaurav Pandey Mr. Atahar Ayyub Mr. Amit Ranjan	Inspection Regarding ongoing E&M activities
10.	Site inspection of Naini-II STP	6-Jan-2021	Mr. Kumar Kashyap	Inspection Regarding ongoing Civil activities
11.	Site inspection of Jhunsi STP	6-Jan-2021	Mr. Abhishek Singh	Inspection Regarding ongoing Civil activities
12.	Site inspection of Phphamau STP	6-Jan-2021	Mr. Wahab Alam	Inspection Regarding ongoing Civil activities
13.	Site inspection of Phaphamau STP	7-Jan-2021	Mr. Wahab Alam	Inspection Regarding ongoing Civil activities
14.	Site inspection of Naini-I STP	7-Jan-2021	Mr. Amit Ranjan Mr. Gaurav Pandey	Inspection Regarding ongoing E&M activities
15.	Site inspection of Rajapur STP	7-Jan-2021	Mr. Atahar Ayyub Mr. Abhishek Singh	Inspection Regarding ongoing E&M activities
16.	Site inspection of Jhunsi STP	9-Jan-2021	Mr. Abhishek Singh	Inspection Regarding ongoing Civil activities
17.	Site inspection of Naini-II STP	9-Jan-2021	Mr. Kumar Kashyap	Inspection Regarding ongoing Civil activities

Sr. No.	Site Visit & Meeting with UPJN / NMCG / PWPL	Date	Attendees	Description
18.	Site inspection of Phaphamau STP	9-Jan-2021	Mr. Wahab Alam	Inspection Regarding ongoing Civil activities
19.	Site inspection of Naini-II STP	11-Jan-2021	Mr. Kumar Kashyap	Inspection Regarding ongoing Civil activities
20.	Site inspection of Jhunsi STP	11-Jan-2021	Mr. Abhishek Singh	Inspection Regarding ongoing Civil activities
21.	Site inspection of Phaphamau STP	11-Jan-2021	Mr. Wahab Alam	Inspection Regarding ongoing Civil activities
22.	Site inspection of Phaphamau STP	12-Jan-2021	Mr. Wahab Alam Mr. Amit Ranjan	Inspection Regarding ongoing Civil activities
23.	Site inspection of Jhunsi STP	12-Jan-2021	Mr. Abhishek Singh	Inspection Regarding ongoing Civil activities
24.	Site inspection of Naini-II STP	12-Jan-2021	Mr. Kumar Kashyap	Inspection Regarding ongoing Civil activities
25.	Site inspection of Jhunsi STP	15-Jan-2021	Mr. Abhishek Singh	Inspection Regarding ongoing Civil activities
26.	Site inspection of Naini-II STP	15-Jan-2021	Mr. Kumar Kashyap	Inspection Regarding ongoing Civil activities
27.	Site inspection of Naini-I STP	15-Jan-2021	Mr. Atahar Ayyub	Inspection Regarding ongoing E&M activities
28.	Site inspection of Phaphamau STP	15-Jan-2021	Mr. Wahab Alam	Inspection Regarding ongoing Civil activities
29.	Site inspection of Phaphamau STP	16-Jan-2021	Mr. Wahab Alam	Inspection Regarding ongoing Civil activities
30.	Site inspection of Jhunsi STP	16-Jan-2021	Mr. Abhishek Singh	Inspection Regarding ongoing Civil activities
31.	Site inspection of Naini-II STP	16-Jan-2021	Mr. Kumar Kashyap Mr. Amit Ranjan	Inspection Regarding ongoing Civil activities
32.	Site inspection of Naini-I STP	18-Jan-2021	Mr. Amit Ranjan Mr. Gaurav Pandey	Inspection Regarding ongoing E&M activities
33.	Site inspection of Naini-II STP	18-Jan-2021	Mr. Kumar Kashyap Mr. Divvela Srimannarayana	Inspection Regarding ongoing Civil activities
34.	Site inspection of Naini-II STP	19-Jan-2021	Mr. Kumar Kashyap Mr. Amit Ranjan	Inspection Regarding ongoing Civil activities
35.	Site inspection of Jhunsi STP	19-Jan-2021	Mr. Divvela Srimannarayana	Inspection Regarding ongoing Civil activities
36.	Site inspection of Phaphamau STP	19-Jan-2021	Mr. Wahab Alam	Inspection Regarding ongoing Civil activities
37.	Site inspection of Naini-II STP	21-Jan-2021	Mr. Kumar Kashyap	Inspection Regarding ongoing Civil activities
38.	Site inspection of Jhunsi STP	21-Jan-2021	Mr. Abhishek Singh Mr. Amit Ranjan	Inspection Regarding ongoing Civil activities

Sr. No.	Site Visit & Meeting with UPJN / NMCG / PWPL	Date	Attendees	Description
39.	Site inspection of Phaphamau STP	21-Jan-2021	Mr. Wahab Alam Mr. Divvela Srimannarayana	Inspection Regarding ongoing Civil activities
40.	Site inspection of Naini-II STP	22-Jan-2021	Mr. Kumar Kashyap Mr. Divvela Srimannarayana	Inspection Regarding ongoing Civil activities
41.	Site inspection of Jhunsi STP	22-Jan-2021	Mr. Abhishek Singh	Inspection Regarding ongoing Civil activities
42.	Site inspection of Phaphamau STP	22-Jan-2021	Mr. Wahab Alam Mr. Amit Ranjan	Inspection Regarding ongoing Civil activities
43.	Site inspection of Naini-II STP	23-Jan-2021	Mr. Kumar Kashyap	Inspection Regarding ongoing Civil activities
44.	Site inspection of Jhunsi STP	23-Jan-2021	Mr. Abhishek Singh	Inspection Regarding ongoing Civil activities
45.	Site inspection of Phaphamau STP	23-Jan-2021	Mr. Wahab Alam	Inspection Regarding ongoing Civil activities
46.	Site inspection of Naini-I STP	25-Jan-2021	Mr. Atahar Ayyub	Inspection Regarding ongoing E&M activities
47.	Site inspection of Naini-I STP	28-Jan-2021	Mr. Atahar Ayyub Mr. Gaurav Pandey	Inspection Regarding ongoing E&M activities
48.	Site inspection of Jhunsi STP	28-Jan-2021	Mr. Abhishek Singh Mr. Amit Ranjan	Inspection Regarding ongoing Civil activities
49.	Site inspection of Phaphamau STP	28-Jan-2021	Mr. Wahab Alam Mr. Divvela Srimannarayana	Inspection Regarding ongoing Civil activities
50.	Site inspection of Jhunsi STP	29-Jan-2021	Mr. Abhishek Singh Mr. Divvela Srimannarayana	Inspection Regarding ongoing Civil activities
51.	Site inspection of Naini-I STP	29-Jan-2021	Mr. Gaurav Pandey Mr. Atahar Ayyub	Inspection Regarding ongoing E&M activities
52.	Site inspection call for DI pipes of Naini II Forced Mian-Part quantity offered	29-Jan-2021	Mr. Amit Ranjan Mr. Wahab Alam	Inspection Regarding ongoing Civil activities
53.	Site inspection of Phaphamau STP	30-Jan-2021	Mr. Wahab Alam Mr. Amit Ranjan	Inspection Regarding ongoing Civil activities
54.	Site inspection of Jhunsi STP	30-Jan-2021	Mr. Abhishek Singh Mr. Divvela Srimannarayana	Inspection Regarding ongoing Civil activities
55.	Site inspection of Naini-II STP	30-Jan-2021	Mr. Kumar Kashyap	Inspection Regarding ongoing Civil activities
56.	Site inspection of Naini-I STP	30-Jan-2021	Mr. Gaurav Pandey Mr. Atahar Ayyub	Inspection Regarding ongoing E&M activities

Sr. No.	PE Transmittal/ Ref No	Description	Outward Date	To (Organization)	Copies To
58.	AIPL/NMCG/PRAYAG/765	Regarding Slow Progress at PHAPHAMAU STP Under PKG I	26-Jan-2021	The General Manager, Ganga Pollution Control Unit	1. SEFAE, NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-I, PM-IV, PM-E&M - UPJN, Prayagraj
59.	AIPL/NMCG/PRAYAG/766	Letter of Breach of Guaranteed Interim Availability - Package II	26-Jan-2021	The General Manager, Ganga Pollution Control Unit	1. SEFAE, NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-I, PM-IV, PM-E&M - UPJN, Prayagraj
60.	AIPL/NMCG/PRAYAG/767	Observation on GA & Instrument Installation drawings.(Hook-up) of C&I of STP & SPS for Package – I of Prayagraj STP Project	27-Jan-2021	The General Manager, Ganga Pollution Control Unit	1. SEFAE, NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-I, PM-IV, PM-E&M - UPJN, Prayagraj
61.	AIPL/NMCG/PRAYAG/768	Operation & Control Philosophy of C&I of Naini -II & Jhansi STP for Package - I of Prayagraj STP Project	27-Jan-2021	The General Manager, Ganga Pollution Control Unit	1. SEFAE, NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-I, PM-IV, PM-E&M - UPJN, Prayagraj
62.	AIPL/NMCG/PRAYAG/769	Observation on Revised & Final FEED Documents for Package II	27-Jan-2021	The General Manager, Ganga Pollution Control Unit	1. SEFAE, NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-I, PM-IV, PM-E&M - UPJN, Prayagraj
63.	AIPL/NMCG/PRAYAG/770	Prayagraj Package I - PE dosing system	27-Jan-2021	The General Manager, Ganga Pollution Control Unit	1. SEFAE, NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-I, PM-IV, PM-E&M - UPJN, Prayagraj
64.	AIPL/NMCG/PRAYAG/771	Submission of Invoice & Progress Report for the month of December-2020 of Construction period of Prayagraj STP Projects	27-Jan-2021	The General Manager, Ganga Pollution Control Unit	1. SEFAE, NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-I, PM-IV, PM-E&M - UPJN, Prayagraj
65.	AIPL/NMCG/PRAYAG/772	Regarding CRS on Submission of MPR of December 2020 by Concessionaire	27-Jan-2021	The General Manager, Ganga Pollution Control Unit	1. SEFAE, NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-I, PM-IV, PM-E&M - UPJN, Prayagraj
66.	AIPL/NMCG/PRAYAG/773	Site inspection call for DI pipes of Naini II Forced Mian- Part quantity offered	29-Jan-2021	The General Manager, Ganga Pollution Control Unit	1. SEFAE, NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-I, PM-IV, 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/004/2021	Submission of Revised & Final FEEP Documents for Package II	5-Jan-21	Project Manager, Ganga Pollution control unit
2.	PWPL/UPJN/PMCG/005/2021	Submission of Valve schedule for Package II	5-Jan-21	Project Manager, Ganga Pollution control unit
3.	PWPL/UPJN/PMCG/006/2021	Submission of Master Documents List (MDL) for STP projects at Allahabad	5-Jan-21	Project Manager, Ganga Pollution control unit
4.	PWPL/UPJN/PMCG/007/2021	Manhole Typical drawing	5-Jan-21	Project Manager, Ganga Pollution control unit
5.	PWPL/UPJN/PMCG/008/2021	Submission of documents for Gas Mixing System Naini I	5-Jan-21	Project Manager, Ganga Pollution control unit
6.	PWPL/UPJN/PMCG/009/2021	Submission of Rising main piping drawing of MAWAIYA SPS to Naini II STP	6-Jan-21	Project Manager, Ganga Pollution control unit
7.	PWPL/UPJN/PMCG/010/2021	Submission of Technical datasheet of Screens - Gaughat MPS	6-Jan-21	Project Manager, Ganga Pollution control unit
8.	PWPL/UPJN/PMCG/011/2021	Submission of Technical datasheet of Screens - Naini-I	6-Jan-21	Project Manager, Ganga Pollution control unit
9.	PWPL/UPJN/PMCG/012/21	Submission of Lime Handling system for various STP location at Prayagraj STP( Index-3) L-769	7-Jan-21	Project Manager, Ganga Pollution control unit
10.	PWPL/UPJN/PMCG/013/21	3 KVA UPS of C&I for all Pumping Stations of Package - I of PRAYAGRAJ STP PROJECT	7-Jan-21	Project Manager, Ganga Pollution control unit
11.	PWPL/UPJN/PMCG/014/21	Submission of VFD docs for FCR & GRIT Blowers for Package-I	8-Jan-21	Project Manager, Ganga Pollution control unit
12.	PWPL/UPJN/PMCG/015/21	Field Instruments Data sheets & Specifications ( Electromagnetic Flow meter - Additional) of C&I of NAINI - I STP & SLAORI STP of Package - II & III facilities of Prayagraj STP Project	9-Jan-21	Project Manager, Ganga Pollution control unit
13.	PWPL/UPJN/PMCG/016/21	Operation & control philosophy of C&I of SPS for Package - I of Prayagraj STP Project	9-Jan-21	Project Manager, Ganga Pollution control unit
14.	PWPL/UPJN/PMCG/017/21	Submission of revised G.A drawings of Naini II MPS	9-Jan-21	Project Manager, Ganga Pollution control unit



Sr. No.	PWPL Transmittal reference number	Description	Date	From
15.	PWPL/UPJN/PMCG/018/21	Submission of structural drawing of Tube settler for Jhunsi STP	9-Jan-21	Project Manager, Ganga Pollution control unit
16.	PWPL/UPJN/PRAYAGRAJ/S ITE/399	Regarding the submission of QAP & IR of DI pipe of Package-I	6-Jan-21	Project Manager, Ganga Pollution control unit
17.	PWPL/UPJN/PMCG/019/21	Documents of Dewatering Unit Feed Pumps	11-Jan-21	Project Manager, Ganga Pollution control unit
18.	PWPL/UPJN/PMCG/020/21	Phaphamau STP: Revised FCR tank reinforcement detail drawings Phaphamau STP	11-Jan-21	Project Manager, Ganga Pollution control unit
19.	PWPL/UPJN/PMCG/021/21	GA & Instrument Installation drawings.(Hook-up) of C&I of STP & SPS for Package – I of Prayagraj STP Project	11-Jan-21	Project Manager, Ganga Pollution control unit
20.	PWPL/UPJN/PMCG/022/21	Submission of Mechanical & Manual Screens - Prayagraj Package-I	12-Jan-21	Project Manager, Ganga Pollution control unit
21.	PWPL/UPJN/PMCG/023/21	Non clog submersible pumps - Documents	12-Jan-21	Project Manager, Ganga Pollution control unit
22.	PWPL/UPJN/PMCG/024/21	Operation & Control Philosophy of C&I of Naini -II & Jhunsi STP for Package - I of Prayagraj STP Project	13-Jan-21	Project Manager, Ganga Pollution control unit
23.	PWPL/UPJN/PMCG/025/21	Submission of Motor docs for FCR & GRIT Blowers for Package-I STP : Prayagraj STP	13-Jan-21	Project Manager, Ganga Pollution control unit
24.	PWPL/UPJN/PRAYAGRAJ/S ITE/412	Regarding the justification of open points on CRS of submersible pumps of Package-I	12-Jan-21	Project Manager, Ganga Pollution control unit
25.	PWPL/UPJN/PRAYAGRAJ/S ITE/415	Regarding approval of Vendor for Gate for Package-I	14-Jan-21	Project Manager, Ganga Pollution control unit
26.	PWPL/UPJN/PMCG/026/2021	Submission of Master Documents List (MDL) for STP projects at Allahabad	18-Jan-21	Project Manager, Ganga Pollution control unit
27.	PWPL/UPJN/PMCG/027/21	Naini I STP piping drawing_Package II	19-Jan-21	Project Manager, Ganga Pollution control unit
28.	PWPL/UPJN/PMCG/028/21	Jhunsi STP:Topographic survey of Jhunsi plot plan	19-Jan-21	Project Manager, Ganga Pollution control unit
29.	PWPL/UPJN/PMCG/029/21	Instrument Cable Schedule of C&I of STP of Package – I of Prayagraj STP Project	19-Jan-21	Project Manager, Ganga Pollution control unit
30.	PWPL/UPJN/PMCG/030/21	Submission of Detail construction drawing for Tube Settler Tank _JHUNSI STP	19-Jan-21	Project Manager, Ganga Pollution control unit

Sr. No.	PWPL Transmittal reference number	Description	Date	From
31.	PWPL/UPJN/PMCG/031/21	Submission of PLC IO SCHEDULE of C&I of Pumping stations for Package - I of Prayagraj STP Project	19-Jan-21	Project Manager, Ganga Pollution control unit
32.	PWPL/UPJN/PMCG/032/21	Submission of Lime Handling system for various STP location at Prayagraj STP	20-Jan-21	Project Manager, Ganga Pollution control unit
33.	PWPL/UPJN/PMCG/033/21	Submission of revised GA Drawings for Mahewaghat SPS	21-Jan-21	Project Manager, Ganga Pollution control unit
34.	PWPL/UPJN/PMCG/034/21	Submission of Lime Handling system for various STP location at Prayagraj STP	22-Jan-21	Project Manager, Ganga Pollution control unit
35.	PWPL/UPJN/PMCG/035/21	Submission of revised drawings for Sluice Gate Package II_R5	25-Jan-21	Project Manager, Ganga Pollution control unit
36.	PWPL/UPJN/PMCG/036/21	Solar Panel Arrangement Drawing - For Package-I STPs	25-Jan-21	Project Manager, Ganga Pollution control unit
37.	PWPL/UPJN/PRAYAGRAJ/S ITE/418	Regarding the request for plate load test from MNNIT for the determination of SBC for Naini-II STP, Phaphamau STP & Jhunsi STP of Package-I	25-Jan-21	Project Manager, Ganga Pollution control unit
38.	PWPL/UPJN/PMCG/037/21	Submission of as built drawing of Rajapur STP- Package-II	28-Jan-21	Project Manager, Ganga Pollution control unit
39.	PWPL/UPJN/PMCG/038/21	Submission of Plant Layout - Package-II - Naini-I STP	28-Jan-21	Project Manager, Ganga Pollution control unit
40.	PWPL/UPJN/PMCG/039/21	Submission of revised Naini II FCR Tank Civil Drawings	28-Jan-21	Project Manager, Ganga Pollution control unit
41.	PWPL/UPJN/PMCG/040/2021	Submission of Valve schedule for Package II	29-Jan-21	Project Manager, Ganga Pollution control unit
42.	PWPL/UPJN/PMCG/041/21	Submission of Valve Schedule for Gas Engine at Naini-I STP	29-Jan-21	Project Manager, Ganga Pollution control unit
43.	PWPL/UPJN/PMCG/042/21	Prayagraj Package I - NAINI II MPS - Docs. of Mechanical and Manual Screens	29-Jan-21	Project Manager, Ganga Pollution control unit
44.	PWPL/UPJN/PMCG/043/21	Submission of Process Analyzer Data sheets & Specifications for Phaphamau STP	29-Jan-21	Project Manager, Ganga Pollution control unit
45.	PWPL/UPJN/PMCG/045/21	Bedding calculation for mahewaghat Trunk sewer to naini ii mps_pck I_pck I	29-Jan-21	Project Manager, Ganga Pollution control unit
46.	PWPL/UPJN/PRAYAGRAJ/S ITE/421	Regarding the clearance for laying the DI pipe for Naini-II	29-Jan-21	Project Manager, Ganga Pollution control unit

Sr. No.	PWPL Transmittal reference number	Description	Date	From
		STP facilities of Package-I for Prayagraj STP Project		
47.	PWPL/UPJN/PMCG/046/21	3 KVA UPS of C&I for all Pumping Stations of Package - I of PRAYAGRAJ STP PROJECT	30-Jan-21	Project Manager, Ganga Pollution control unit
48.	PWPL/UPJN/PMCG/047/21	Sludge Reticulation pump and sludge heat exchanger civil foundation of Bio gas package Naini 1 STP As built Drawing	30-Jan-21	Project Manager, Ganga Pollution control unit
49.	PWPL/UPJN/PMCG/048/21	Field Instruments Data sheet ( FRC Analyser of Prayagraj STP Project)	30-Jan-21	Project Manager, Ganga Pollution control unit

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

Sr. No.	Applicable Permit	Authority	Quantity	Remarks
7	Revenue Road cutting & crossing	Panchayat/Local Authority	NA	Not Required
8	Obtaining No Objection Certificate for various sewerage facilities under the ULB for handing them over to JN	ULB/District Administration	NA	Not Required
9	Construction of Weirs/pipeline crossings	Irrigation department/ULB	2 No.	Under process towards filing the application, Construction of 2 no. of Weir at; 1. Basna Nalla Drain Tapping 2. Shantipuram Nalla Tapping
10	Approach Road to new Facilities	Forest Department/Panchayat/Local Authority/Irrigation Department	NA	Not Required
11	Consent to operate for Existing Facilities	ULB and SPCB	1 No.	Will be processed during commissioning stage.
<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. Final approval is awaited.
6	National Highway cutting & crossing	National Highway Authority of India	NA	NA
7	Revenue Road cutting & crossing	Panchayat/Local Authority	1 No.	Under process towards filing the application to concern authority.

Sr. No.	Applicable Permit	Authority	Quantity	Remarks
8	Obtaining No Objection Certificate for various sewerage facilities under the ULB for handing them over to JN	ULB/District Administration	NA	Not Required
9	Construction of Weirs/pipeline crossings	Irrigation department/ULB	6 No.	Under process towards filing the application, Construction of Weir at 6 nos. Drains. Location: - 1. Mawaiya Drain 2. Sachcha Baba Aashram Drain Tapping 3. Kharkhauni Drain 4. Mahewaghat Nalla-1 5. Mahewaghat Nalla-2 6. Mahewaghat Nalla-3
10	Approach Road to new Facilities	Forest Department/Panchayat/ Local Authority/Irrigation Department	NA	Not Required
11	Consent to operate for Existing Facilities	ULB and SPCB	1 No.	Will be processed during commissioning stage
<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. Shastri Bridge SPS
2	Consent to Establish	State Pollution Control Board (SPCB)	1 No.	Received
3	Tree cutting	Forest Department	NA	Not Required
4	Road cutting & crossing	Public Works Department	1 No.	Under process towards filing the application to concern authority. Location: - Trivenipuram ADA Colony colony to Shastri Bridge SPS
5	Railway Crossing	Commissioner Railway Safety	1 No.	Under process towards filing the application to concern authority. Location: - Shastri Bridge
6	National Highway cutting & crossing	National Highway	1 No.	Under process towards filing the application to concern authority. Location: - Underpass Shastri Bridge
7	Revenue Road cutting & crossing	Panchayat/Local Authority	1 No.	Under process towards filing the application to concern authority.

Sr. No.	Applicable Permit	Authority	Quantity	Remarks
				Location: - Shastri Bridge SPS to Jhansi MPS
8	Obtaining No Objection Certificate for various sewerage facilities under the ULB for handing them over to UPJN	ULB/District Administration	NA	Not Required
9	Construction of Weirs/pipeline crossings	Irrigation department/ULB	13 No	Under process towards filing the application, Construction of Weir at 13 nos. Drains. Locations: - 1. Augharwa Nalla 2. Bhola Mandir Nalla 3. Gangoli Shivala Nalla I 4. Gangoli Shivala Nalla II 5. Savitri Nagar Nalla 6. Dham Nalla 7. Sashtri bridge Nalla 8. Triveni Marg Nalla I 9. Triveni Marg Nalla II 10. Ulta Quila Nalla I 11. Ulta Quila Nalla II 12. Havelia Nalla 13. Lakkar Nalla
10	Approach Road to new Facilities	Forest Department/Panchayat/ Local Authority/Irrigation Department	NA	Not Required
11	consent to operate for Existing Facilities	ULB and SPCB	1 No	Will be processed during commissioning stage
12	Shastri Bridge SPS Site		1	There is a dispute regarding the land position by Railway department / Revenue Department. Joint Site inspection made by UPJN and concerned line officers made on dated 2 <sup>nd</sup> Nov 2020. The final decision is pending.



## 15. Plant & Machinery Status

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

23.	Plywood Cutting Machine	-	1	-	-	1	-	-	-	-	2
24.	Steel Cutting Machine	2	2	-	1	1	-	-	-	-	6
	<b>Total</b>	<b>15</b>	<b>18</b>	<b>2</b>	<b>22</b>	<b>7</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>64</b>

17. Operation and Maintenance report for January month –

## Naini-I STP, 80 MLD STP at Prayagraj FLOW & QUALITY REPORT

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/g TS)	
1-Jan-21	0	0.00	100% Shutdown taken for Rehabilitation Work						NA		No dosing due to Plant Shutdown			1) Plant availability is 0% due to ongoing Rehabilitation works & as per approved Guaranteed Interim Availability. Complete STP is in Shutdown and Sewage is being bypassed into the river & alternate treatment for the same is being done through Bio-remediation. 2) Completion of Rehabilitation works planned for 100% Shutdown of STP is delayed as it was to be completed by 31.12.2020. 3) Plant Availability is not 75% as per approved Guaranteed Interim Availability due to Rehabilitation works going on in STP.
2-Jan-21	11200	11.20	7.44	7.41	132	80	298	160	NA	Lab set-up is not complete. Testing of this parameter is not done for complete month.	-	Lab set-up is not complete. Testing of this parameter is not done for complete month.	Lab set-up is not complete. Testing of this parameter is not done for complete month.	1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as no flow meter is working at Naini I STP. 2) First stream at Naini - I STP is charged on 02.01.2021. 3) Gaughat MPS is taken into operation on 02.01.2021. 4) Plant Availability is less than 75% as per approved Guaranteed Interim Availability & due to Rehabilitation works going on in three streams of STP. 5) Value of KPIs are on the higher side due to new biomass generation in various units after completion of Rehabilitation works. 6) Bypass flow of STP is approx. 17 MLD & of Chacharnalla SPS is approx. 32 MLD.
3-Jan-21	20060	20.06	7.44	7.56	137	60	303	98	NA		0.4			1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as no flow meter is working at Naini I STP. 2) Plant Availability is less than 75% as per approved Guaranteed Interim Availability & due to Rehabilitation works going on in three streams of STP. 3) Value of KPIs are on the higher side due to new biomass generation in various units after completion of Rehabilitation works. 4) Bypass flow of STP is approx. 7 MLD & of Chacharnalla SPS is approx. 33 MLD.
4-Jan-21	15830	15.83	7.36	7.41	137	66	299	76	NA		0.4			1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as no flow meter is working at Naini I STP. 2) Plant Availability is less than 75% as per approved Guaranteed Interim Availability & due to Rehabilitation works going on in three streams of STP. 3) Value of KPIs are on the higher side due to new biomass generation in various units after completion of Rehabilitation works. 4) Bypass flow of STP is approx. 16 MLD & of Chacharnalla SPS is approx. 28 MLD.

## Naini-I STP, 80 MLD STP at Prayagraj FLOW & QUALITY REPORT

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/g TS)	
5-Jan-21	19730	19.73	7.44	7.49	140	55	302	64	NA		0.3			1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as no flow meter is working at Naini I STP. 2) Plant Availability is less than 75% as per approved Guaranteed Interim Availability & due to Rehabilitation works going on in three streams of STP. 3) Value of KPIs are on the higher side due to new biomass generation in various units after completion of Rehabilitation works. 4) Bypass flow of STP is approx. 20 MLD & of Chacharnalla SPS is approx. 21 MLD.
6-Jan-21	21530	21.53	7.33	7.46	132	46	308	62	NA		0.4			1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as no flow meter is working at Naini I STP. 2) Plant Availability is less than 75% as per approved Guaranteed Interim Availability & due to Rehabilitation works going on in three streams of STP. 3) Value of KPIs are on the higher side due to new biomass generation in various units after completion of Rehabilitation works. 4) Bypass flow of STP is approx. 22 MLD & of Chacharnalla SPS is approx. 17 MLD.
7-Jan-21	18260	18.26	7.39	7.53	136	38	307	60	NA		0.5			1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as no flow meter is working at Naini I STP. 2) Plant Availability is less than 75% as per approved Guaranteed Interim Availability & due to Rehabilitation works going on in three streams of STP. 3) Value of KPIs are on the higher side due to new biomass generation in various units after completion of Rehabilitation works. 4) Bypass flow of STP is approx. 22 MLD & of Chacharnalla SPS is approx. 19 MLD.
8-Jan-21	38399	38.40	7.39	7.57	142	30	305	58	NA		0.3			1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as no flow meter is working at Naini I STP. 2) Plant Availability is less than 75% as per approved Guaranteed Interim Availability & due to Rehabilitation works going on in three streams of STP. 3) Value of KPIs are on the higher side due to new biomass generation in various units after completion of Rehabilitation works. 4) Bypass flow of Chacharnalla SPS is approx. 22 MLD.

## Naini-I STP, 80 MLD STP at Prayagraj FLOW & QUALITY REPORT

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/g TS)	
9-Jan-21	29567	29.57	7.41	7.53	140	29	309	60	NA		0.4			1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as no flow meter is working at Naini I STP. 2) Second stream at Naini - I STP is charged on 09.01.2021. 3) Plant Availability is less than 75% as per approved Guaranteed Interim Availability & due to Rehabilitation works going on in three streams of STP. 4) Value of KPIs are on the higher side due to new biomass generation in various units after completion of Rehabilitation works. 5) Bypass flow of STP is approx. 10 MLD & of Chacharnalla SPS is approx. 20 MLD.
10-Jan-21	47881	47.88	7.52	7.44	138	28	312	56	NA		0.5			1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as no flow meter is working at Naini I STP. 2) Third stream at Naini - I STP is charged on 10.01.2021. 3) Plant Availability is 75% as per approved Guaranteed Interim Availability. Three streams of STP are taken into operation. 4) Value of KPIs are on the higher side due to new biomass generation in various units after completion of Rehabilitation works.
11-Jan-21	48060	48.06	7.46	7.49	135	29	299	53	NA		0.3			1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as no flow meter is working at Naini I STP. 2) Chacharnalla SPS is taken into operation on 11.01.2021. 3) Plant Availability is 75% 4) Value of KPIs are on the higher side due to new biomass generation in various units after completion of Rehabilitation works. 5) Rehabilitation work for Fourth Stream & Gas Area of STP is in progress.
12-Jan-21	48060	48.06	7.37	7.45	140	30	301	51	NA		0.4			1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as no flow meter is working at Naini I STP. 2) Plant Availability is 75% 3) Value of KPIs are on the higher side due to new biomass generation in various units after completion of Rehabilitation works. 4) Rehabilitation work for Fourth Stream & Gas Area of STP is in progress.
13-Jan-21	54620	54.62	7.49	7.51	132	28	306	50	NA		0.4			1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as no flow meter is working at Naini I STP. 2) Plant Availability is 75% 3) Value of KPIs are on the higher side due to new biomass generation in various units after completion of Rehabilitation works. 4) Rehabilitation work for Fourth Stream & Gas Area of STP is in progress.

## Naini-I STP, 80 MLD STP at Prayagraj FLOW & QUALITY REPORT

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/g TS)	
14-Jan-21	53410	53.41	7.44	7.48	136	24	298	52	NA		0.5			1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as no flow meter is working at Naini I STP. 2) Plant Availability is 75% 3) Value of KPIs are on the higher side due to new biomass generation in various units after completion of Rehabilitation works. 4) Rehabilitation work for Fourth Stream & Gas Area of STP is in progress.
15-Jan-21	56590	56.59	7.39	7.70	140	29	302	50	NA		0.4			1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as no flow meter is working at Naini I STP. 2) Plant Availability is 75% 3) Value of KPIs are on the higher side due to new biomass generation in various units after completion of Rehabilitation works. 4) Rehabilitation work for Fourth Stream & Gas Area of STP is in progress.
16-Jan-21	56800	56.80	7.35	7.51	138	24	305	49	NA		0.5			1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as no flow meter is working at Naini I STP. 2) Plant Availability is 75% 3) Rehabilitation work for Fourth Stream & Gas Area of STP is in progress. 4) Rehabilitation work for Gaughat MPS & Sasur Kadheri SPS is in progress.
17-Jan-21	56611	56.61	7.28	7.36	142	28	301	48	NA		0.4			1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as no flow meter is working at Naini I STP. 2) Plant Availability is 75% 3) Rehabilitation work for Fourth Stream & Gas Area of STP is in progress. 4) Rehabilitation work for Gaughat MPS & Sasur Kadheri SPS is in progress.
18-Jan-21	57660	57.66	7.33	7.41	136	26	296	45	NA		0.5			1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as no flow meter is working at Naini I STP. 2) Plant Availability is 75% 3) Rehabilitation work for Fourth Stream & Gas Area of STP is in progress. 4) Rehabilitation work for Gaughat MPS & Sasur Kadheri SPS is in progress.

## Naini-I STP, 80 MLD STP at Prayagraj FLOW & QUALITY REPORT

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/g TS)	
19-Jan-21	59230	59.23	7.42	7.52	146	28	284	47	NA		0.4			1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as no flow meter is working at Naini I STP. 2) Plant Availability is 75% 3) Rehabilitation work for Fourth Stream & Gas Area of STP is in progress. 4) Rehabilitation work for Gaughat MPS & Sasur Kadheri SPS is in progress.
20-Jan-21	58825	58.83	7.32	7.54	145	27	296	43	NA		0.4			1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as no flow meter is working at Naini I STP. 2) Plant Availability is 75% 3) Rehabilitation work for Fourth Stream & Gas Area of STP is in progress. 4) Rehabilitation work for Gaughat MPS & Sasur Kadheri SPS is in progress.
21-Jan-21	60452	60.45	7.28	7.61	140	25	301	42	NA		0.5			1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as no flow meter is working at Naini I STP. 2) Plant Availability is 75% 3) Rehabilitation work for Fourth Stream & Gas Area of STP is in progress. 4) Rehabilitation work for Gaughat MPS & Sasur Kadheri SPS is in progress.
22-Jan-21	58130	58.13	7.39	7.53	142	24	290	40	NA		0.4			1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as no flow meter is working at Naini I STP. 2) Plant Availability is 75% 3) Rehabilitation work for Fourth Stream & Gas Area of STP is in progress. 4) Rehabilitation work for Gaughat MPS & Sasur Kadheri SPS is in progress.
23-Jan-21	71480	71.48	7.42	7.68	140	26	312	42	NA		0.5			1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as no flow meter is working at Naini I STP. 2) Plant Availability is 75% 3) Rehabilitation work for Fourth Stream & Gas Area of STP is in progress. 4) Rehabilitation work for Gaughat MPS & Sasur Kadheri SPS is in progress.



## Naini-I STP, 80 MLD STP at Prayagraj FLOW & QUALITY REPORT

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/g TS)	
24-Jan-21	65530	65.53	7.36	7.70	146	28	308	39	NA		0.4			1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as no flow meter is working at Naini I STP. 2) Plant Availability is 75% 3) Rehabilitation work for Fourth Stream & Gas Area of STP is in progress. 4) Rehabilitation work for Gaughat MPS & Sasur Kadheri SPS is in progress.
25-Jan-21	67283	67.28	7.33	7.42	138	25	306	41	NA		0.5			1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as no flow meter is working at Naini I STP. 2) Plant Availability is not 100% as Rehabilitation works for Fourth Stream of STP are not completed yet. 3) Rehabilitation works for Gas Area of STP is in progress. 4) Rehabilitation work for Gaughat MPS & Sasur Kadheri SPS is in progress.
26-Jan-21	67466	67.47	7.38	7.41	142	27	299	39	NA		0.3			1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as no flow meter is working at Naini I STP. 2) Plant Availability is not 100% as Rehabilitation works for Fourth Stream of STP are not completed yet. 3) Rehabilitation works for Gas Area of STP is in progress. 4) Rehabilitation work for Gaughat MPS & Sasur Kadheri SPS is in progress.
27-Jan-21	67466	67.47	7.41	7.46	136	25	302	37	NA		0.5			1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as no flow meter is working at Naini I STP. 2) Plant Availability is not 100% as Rehabilitation works for Fourth Stream of STP are not completed yet. 3) Rehabilitation works for Gas Area of STP is in progress. 4) Rehabilitation work for Gaughat MPS & Sasur Kadheri SPS is in progress.
28-Jan-21	72550	72.55	7.36	7.47	140	26	309	42	NA		0.6			1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as no flow meter is working at Naini I STP. 2) Plant Availability is not 100% as Rehabilitation works for Fourth Stream of STP are not completed yet. 3) Rehabilitation works for Gas Area of STP is in progress. 4) Rehabilitation work for Gaughat MPS & Sasur Kadheri SPS is in progress.

## Naini-I STP, 80 MLD STP at Prayagraj FLOW & QUALITY REPORT

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/g TS)	
29-Jan-21	69210	69.21	7.64	7.52	136	29	312	46	NA		0.4			1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as no flow meter is working at Naini I STP. 2) Plant Availability is not 100% as Rehabilitation works for Fourth Stream of STP are not completed yet. 3) Rehabilitation works for Gas Area of STP is in progress. 4) Rehabilitation work for Gaughat MPS & Sasur Kadheri SPS is in progress.
30-Jan-21	68900	68.90	7.52	7.48	144	30	308	40	NA		0.5			1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as no flow meter is working at Naini I STP. 2) Plant Availability is not 100% as Rehabilitation works for Fourth Stream of STP are not completed yet. 3) Rehabilitation works for Gas Area of STP is in progress. 4) Rehabilitation work for Gaughat MPS & Sasur Kadheri SPS is in progress.
31-Jan-21	66920	66.92	7.49	7.46	142	29	298	39	NA		0.4			1) Currently, reading of flow is taken from flowmeter at Gaughat MPS as no flow meter is working at Naini I STP. 2) Plant Availability is not 100% as Rehabilitation works for Fourth Stream of STP are not completed yet. 3) Rehabilitation works for Gas Area of STP is in progress. 4) Rehabilitation work for Gaughat MPS & Sasur Kadheri SPS is in progress.
<b>Average</b>	<b>50257.00</b>	<b>50.26</b>	<b>7.41</b>	<b>7.50</b>	<b>139.00</b>	<b>33.30</b>	<b>302.53</b>	<b>54.30</b>	<b>NA</b>		<b>0.43</b>			

**Source:** Logbook of Laboratory at Sewage Treatment Plant



## Rajapur STP, 60 MLD STP at Prayagraj FLOW & QUALITY REPORT

Date	Daily Feed Quantity MLD (Design-60 MLD)		pH		BOD (mg/l)		TSS (mg/l)		FECAL COLIFORM		FRC	DEWATERED SLUDGE		REMARKS
	M3	MLD	Inlet pH (Design-<9)	Final pH (Design-6.5 to 9.0)	Inlet BOD (Design-<250 mg/l)	Final BOD (Design - <20 mg/l)	Inlet TSS (Design-<500 mg/l)	Final TSS (Design - <30 mg/l)	Inlet (Design - NA)	Final (Design - <1000 MPN/100 ml)	Final (Design - 0.2 mg/l)	Outlet Concentration (>20%)	Fecal Coliform (20,00,000 MPN/g TS)	
1-Jan-21	11840	11.84	7.43	-	115	-	252	-	NA		-			1) STP is taken into operation on 01.01.2021. 2) Rajapur SPS is taken into operation on 01.01.2021. 3) Mumfordganj SPS is not taken into operation as Rehabilitation works are not completed. 4) Cleaning of UASB is in progress. 5) Plant availability is not 50% as rehabilitation works for Mumfordganj SPS are not completed yet.
2-Jan-21	12060	12.06	7.45	7.62	125	48	263	82	NA	Lab set-up is not complete. Testing of this parameter is not done for complete month.	-	Lab set-up is not complete. Testing of this parameter is not done for complete month.	Lab set-up is not complete. Testing of this parameter is not done for complete month.	1) Flow is less as per approved Guaranteed Interim Availability as Mumfordganj SPS is not taken into operation due to incomplete Rehabilitation works. 2) Cleaning of UASB is in progress. 3) Value of KPIs are on the higher side due to new biomass generation in various units after completion of Rehabilitation works. 4) Chlorine dosing is not started as Effluent has not started overflowing from CCT.
3-Jan-21	10940	10.94	7.40	7.60	132	44	245	76	NA		-			1) Flow is less as per approved Guaranteed Interim Availability as Mumfordganj SPS is not taken into operation due to incomplete Rehabilitation works. 2) Cleaning of UASB is in progress. 3) Value of KPIs are on the higher side due to new biomass generation in various units after completion of Rehabilitation works. 4) Chlorine dosing is not started as Effluent has not started overflowing from CCT. 5) Plant availability is not 50% as rehabilitation works for Mumfordganj SPS are not completed yet.

## Rajapur STP, 60 MLD STP at Prayagraj FLOW & QUALITY REPORT

Date	Daily Feed Quantity MLD (Design- 60 MLD)		pH		BOD (mg/l)		TSS (mg/l)		FECAL COLIFORM		FRC	DEWATERED SLUDGE		REMARKS
	M3	MLD	Inlet pH (Design- <9)	Final pH (Design- 6.5 to 9.0)	Inlet BOD (Design- <250 mg/l)	Final BOD (Design - <20 mg/l)	Inlet TSS (Design- <500 mg/l)	Final TSS (Design - <30 mg/l)	Inlet (Design - NA)	Final (Design - <1000 MPN/100 ml)	Final (Design - 0.2 mg/l)	Outlet Concentration (>20%)	Fecal Coliform (20,00,000 MPN/g TS)	
4-Jan-21	9870	9.87	7.43	7.58	128	42	268	80	NA		-			1) Flow is less as per approved Guaranteed Interim Availability as Mumfordganj SPS is not taken into operation due to incomplete Rehabilitation works. 2) Cleaning of UASB is in progress. 3) Value of KPIs are on the higher side due to new biomass generation in various units after completion of Rehabilitation works. 4) Chlorine dosing is not started as Effluent has not started overflowing from CCT. 5) Plant availability is not 50% as rehabilitation works for Mumfordganj SPS are not completed yet.
5-Jan-21	10250	10.25	7.48	7.64	140	38	290	85	NA		-			1)Flow is less as per approved Guaranteed Interim Availability as Mumfordganj SPS is not taken into operation due to incomplete Rehabilitation works. 2) Cleaning of UASB is in progress. 3) Value of KPIs are on the higher side due to new biomass generation in various units after completion of Rehabilitation works. 4) Chlorine dosing is not started as Effluent has not started overflowing from CCT. 5) Plant availability is not 50% as rehabilitation works for Mumfordganj SPS are not completed yet.
6-Jan-21	10780	10.78	7.38	7.60	145	36	282	83	NA		-			1) Flow is less as per approved Guaranteed Interim Availability as Mumfordganj SPS is not taken into operation due to incomplete Rehabilitation works. 2) Cleaning of UASB is in progress. 3) Value of KPIs are on the higher side due to new biomass generation in various units after completion of Rehabilitation works. 4) Chlorine dosing is not started as Effluent has not started overflowing from CCT. 5) Plant availability is not 50% as rehabilitation works for Mumfordganj SPS are not completed yet.

## Rajapur STP, 60 MLD STP at Prayagraj FLOW & QUALITY REPORT

Date	Daily Feed Quantity MLD (Design- 60 MLD)		pH		BOD (mg/l)		TSS (mg/l)		FECAL COLIFORM		FRC	DEWATERED SLUDGE		REMARKS
	M3	MLD	Inlet pH (Design- <9)	Final pH (Design- 6.5 to 9.0)	Inlet BOD (Design- <250 mg/l)	Final BOD (Design - <20 mg/l)	Inlet TSS (Design- <500 mg/l)	Final TSS (Design - <30 mg/l)	Inlet (Design - NA)	Final (Design - <1000 MPN/100 ml)	Final (Design - 0.2 mg/l)	Outlet Concentration (>20%)	Fecal Coliform (20,00,000 MPN/g TS)	
7-Jan-21	10720	10.72	7.35	7.62	138	35	255	75	NA		-			1) Flow is less as per approved Guaranteed Interim Availability as Mumfordganj SPS is not taken into operation due to incomplete Rehabilitation works. 2) Cleaning of UASB is in progress. 3) Value of KPIs are on the higher side due to new biomass generation in various units after completion of Rehabilitation works. 4) Chlorine dosing is not started as Effluent has not started overflowing from CCT. 5) Plant availability is not 50% as rehabilitation works for Mumfordganj SPS are not completed yet.
8-Jan-21	10720	10.72	7.32	7.68	142	32	275	92	NA		-			1) Flow is less as per approved Guaranteed Interim Availability as Mumfordganj SPS is not taken into operation due to incomplete Rehabilitation works. 2) Cleaning of UASB is in progress. 3) Value of KPIs are on the higher side due to new biomass generation in various units after completion of Rehabilitation works. 4) Chlorine dosing is not started as Effluent has not started overflowing from CCT. 5) Plant availability is not 50% as rehabilitation works for Mumfordganj SPS are not completed yet.
9-Jan-21	9870	9.87	7.38	7.70	135	30	298	65	NA		-			1) Flow is less as per approved Guaranteed Interim Availability as Mumfordganj SPS is not taken into operation due to incomplete Rehabilitation works. 2) Cleaning of UASB is in progress. 3) Value of KPIs are on the higher side due to new biomass generation in various units after completion of Rehabilitation works. 4) Chlorine dosing is not started as Effluent has not started overflowing from CCT. 5) Plant availability is not 50% as rehabilitation works for Mumfordganj SPS are not completed yet.

## Rajapur STP, 60 MLD STP at Prayagraj FLOW & QUALITY REPORT

Date	Daily Feed Quantity MLD (Design- 60 MLD)		pH		BOD (mg/l)		TSS (mg/l)		FECAL COLIFORM		FRC	DEWATERED SLUDGE		REMARKS
	M3	MLD	Inlet pH (Design- <9)	Final pH (Design- 6.5 to 9.0)	Inlet BOD (Design- <250 mg/l)	Final BOD (Design - <20 mg/l)	Inlet TSS (Design- <500 mg/l)	Final TSS (Design - <30 mg/l)	Inlet (Design - NA)	Final (Design - <1000 MPN/100 ml)	Final (Design - 0.2 mg/l)	Outlet Concentration (>20%)	Fecal Coliform (20,00,000 MPN/g TS)	
10-Jan-21	11840	11.84	7.42	7.74	140	30	259	51	NA		-			1) Flow is less as per approved Guaranteed Interim Availability as Mumfordganj SPS is not taken into operation due to incomplete Rehabilitation works. 2) Cleaning of UASB is in progress. 3) Value of KPIs are on the higher side due to new biomass generation in various units after completion of Rehabilitation works. 4) Chlorine dosing is not started as Effluent has not started overflowing from CCT. 5) Plant availability is not 50% as rehabilitation works for Mumfordganj SPS are not completed yet.
11-Jan-21	11470	11.47	7.40	7.72	148	24	280	45	NA		0.5			1) Flow is less as per approved Guaranteed Interim Availability as Mumfordganj SPS is not taken into operation due to incomplete Rehabilitation works. 2) Cleaning of UASB is in progress. 3) Value of KPIs are on the higher side due to new biomass generation in various units after completion of Rehabilitation works. 4) Chlorine dosing is started. 5) Plant availability is not 50% as rehabilitation works for Mumfordganj SPS are not completed yet.
12-Jan-21	10620	10.62	7.43	7.74	130	25	286	32	NA		0.6			1) Flow is less as per approved Guaranteed Interim Availability as Mumfordganj SPS is not taken into operation due to incomplete Rehabilitation works. 2) Value of KPIs are on the higher side due to new biomass generation in various units after completion of Rehabilitation works. 3) Plant availability is not 50% as rehabilitation works for Mumfordganj SPS are not completed yet.



## Rajapur STP, 60 MLD STP at Prayagraj FLOW & QUALITY REPORT

Date	Daily Feed Quantity MLD (Design- 60 MLD)		pH		BOD (mg/l)		TSS (mg/l)		FECAL COLIFORM		FRC	DEWATERED SLUDGE		REMARKS
	M3	MLD	Inlet pH (Design- <9)	Final pH (Design- 6.5 to 9.0)	Inlet BOD (Design- <250 mg/l)	Final BOD (Design - <20 mg/l)	Inlet TSS (Design- <500 mg/l)	Final TSS (Design - <30 mg/l)	Inlet (Design - NA)	Final (Design - <1000 MPN/100 ml)	Final (Design - 0.2 mg/l)	Outlet Concentration (>20%)	Fecal Coliform (20,00,000 MPN/g TS)	
13-Jan-21	18450	18.45	7.40	7.76	136	22	248	28	NA		0.6			1) Flow is less as per approved Guaranteed Interim Availability as Mumfordganj SPS is not taken into operation due to incomplete Rehabilitation works. 2) Rehabilitation works for STP, Mumfordganj SPS are in progress. 3) Value of KPIs are on the higher side due to new biomass generation in various units after completion of Rehabilitation works. 4) Plant availability is not 50% as rehabilitation works for Mumfordganj SPS are not completed yet.
14-Jan-21	27470	27.47	7.42	7.74	142	23	290	29	NA		0.5			1) Flow is less as per approved Guaranteed Interim Availability as Mumfordganj SPS is not taken into operation due to incomplete Rehabilitation works. 2) Rehabilitation works for STP, Mumfordganj SPS are in progress. 3) Value of KPIs are on the higher side due to new biomass generation in various units after completion of Rehabilitation works. 4) Plant availability is not 50% as rehabilitation works for Mumfordganj SPS are not completed yet.
15-Jan-21	32430	32.43	7.38	7.70	132	25	282	27	NA		0.5			1) Flow is less as per approved Guaranteed Interim Availability as Mumfordganj SPS is not taken into operation due to incomplete Rehabilitation works. 2) Rehabilitation works for STP, Mumfordganj SPS are in progress. 3) Two pumps from Mumfordaganj SPS are made operational from 6:00 PM on 15.01.2021 4) Value of KPIs are on the higher side due to new biomass generation in various units after completion of Rehabilitation works.



## Rajapur STP, 60 MLD STP at Prayagraj FLOW & QUALITY REPORT

Date	Daily Feed Quantity MLD (Design-60 MLD)		pH		BOD (mg/l)		TSS (mg/l)		FECAL COLIFORM		FRC	DEWATERED SLUDGE		REMARKS
	M3	MLD	Inlet pH (Design-<9)	Final pH (Design-6.5 to 9.0)	Inlet BOD (Design-<250 mg/l)	Final BOD (Design - <20 mg/l)	Inlet TSS (Design-<500 mg/l)	Final TSS (Design - <30 mg/l)	Inlet (Design - NA)	Final (Design - <1000 MPN/100 ml)	Final (Design - 0.2 mg/l)	Outlet Concentration (>20%)	Fecal Coliform (20,00,000 MPN/g TS)	
16-Jan-21	71330	71.33	7.35	7.76	140	27	242	25	NA		0.5			1) Value of KPIs are on the higher side due to new biomass generation in various units after completion of Rehabilitation works. 2) Third pump from Mumfordganj SPS is made operational from 4:30 PM on 16.01.2021. 3) Rehabilitation works for STP, Mumfordganj SPS are in progress.
17-Jan-21	78690	78.69	7.37	7.75	135	22	276	28	NA		0.4			1) Value of KPIs are on the higher side due to new biomass generation in various units after completion of Rehabilitation works & excess flow received in STP. 2) Rehabilitation works for STP, Mumfordganj SPS are in progress.
18-Jan-21	72570	72.57	7.34	7.78	130	24	292	28	NA		0.5			1) Value of KPIs are on the higher side due to new biomass generation in various units after completion of Rehabilitation works & excess flow received in STP. 2) Rehabilitation works for STP, Mumfordganj SPS are in progress.
19-Jan-21	72660	72.66	7.32	7.76	136	25	302	30.00	NA		0.5			1) Rehabilitation works for STP, Mumfordganj SPS are in progress. 2) Value of KPIs are on the higher side due to new biomass generation in various units after completion of Rehabilitation works & excess flow received in STP.
20-Jan-21	58130	58.13	7.35	7.74	145	21	288	27.00	NA		0.5			1) Rehabilitation works for STP, Mumfordganj SPS are in progress. 2) Value of KPIs are on the higher side due to new biomass generation in various units after completion of Rehabilitation works.
21-Jan-21	58650	58.65	7.34	7.72	142	23	246	32.00	NA		0.5			1) Rehabilitation works for STP, Mumfordganj SPS are in progress. 2) Value of KPIs are on the higher side due to new biomass generation in various units after completion of Rehabilitation works.

## Rajapur STP, 60 MLD STP at Prayagraj FLOW & QUALITY REPORT

Date	Daily Feed Quantity MLD (Design-60 MLD)		pH		BOD (mg/l)		TSS (mg/l)		FECAL COLIFORM		FRC	DEWATERED SLUDGE		REMARKS
	M3	MLD	Inlet pH (Design-<9)	Final pH (Design-6.5 to 9.0)	Inlet BOD (Design-<250 mg/l)	Final BOD (Design - <20 mg/l)	Inlet TSS (Design-<500 mg/l)	Final TSS (Design - <30 mg/l)	Inlet (Design - NA)	Final (Design - <1000 MPN/100 ml)	Final (Design - 0.2 mg/l)	Outlet Concentration (>20%)	Fecal Coliform (20,00,000 MPN/g TS)	
22-Jan-21	64520	64.52	7.36	7.75	130	24	278	30	NA		0.40			1) Value of KPIs are on the higher side due excess flow received in STP. 2) Rehabilitation works for STP, Mumfordganj SPS are in progress.
23-Jan-21	65340	65.34	7.40	7.79	138	21	253	34	NA		0.50			1) Value of KPIs are on the higher side due to new biomass generation in various units after completion of Rehabilitation works. 2) Rehabilitation works for STP, Mumfordganj SPS are in progress.
24-Jan-21	55370	55.37	7.42	7.76	128	20	290	28	NA		0.50			1) Rehabilitation works for STP, Mumfordganj SPS are in progress.
25-Jan-21	69110	69.11	7.45	7.78	124	22	284	33	NA		0.40			1) Value of KPIs are on the higher side due excess flow received in STP. 2) Plant availability is not 100% as rehabilitation works for Mumfordganj SPS are not completed yet. 3) Rehabilitation works for STP are in progress.
26-Jan-21	82260	82.26	7.42	7.75	130	17	261	29	NA		0.50			1) Value of KPIs are on the higher side due excess flow received in STP. 2) Plant availability is not 100% as rehabilitation works for Mumfordganj SPS are not completed yet. 3) Rehabilitation works for STP are in progress.
27-Jan-21	82250	82.25	7.43	7.78	140	18	276	38	NA		0.40			1) Value of KPIs are on the higher side due excess flow received in STP. 2) Plant availability is not 100% as rehabilitation works for Mumfordganj SPS are not completed yet. 3) Rehabilitation works for STP are in progress.
28-Jan-21	92930	92.93	7.45	7.76	136	18	296	28	NA		0.50			1) Fourth pump in Mumfordganj SPS is started on 28.01.2021. 2) Rehabilitation works for STP, Mumfordganj SPS are in progress.
29-Jan-21	85430	85.43	7.44	7.77	122	17	280	29	NA		0.50			1) Rehabilitation works for STP, Mumfordganj SPS are in progress. 2) Value of KPIs are on the higher side due excess flow received in STP.

## Rajapur STP, 60 MLD STP at Prayagraj FLOW & QUALITY REPORT

Date	Daily Feed Quantity MLD (Design- 60 MLD)		pH		BOD (mg/l)		TSS (mg/l)		FECAL COLIFORM		FRC	DEWATERED SLUDGE		REMARKS
	M3	MLD	Inlet pH (Design- <9)	Final pH (Design- 6.5 to 9.0)	Inlet BOD (Design- <250 mg/l)	Final BOD (Design - <20 mg/l)	Inlet TSS (Design- <500 mg/l)	Final TSS (Design - <30 mg/l)	Inlet (Design - NA)	Final (Design - <1000 MPN/100 ml)	Final (Design - 0.2 mg/l)	Outlet Concentration (>20%)	Fecal Coliform (20,00,000 MPN/g TS)	
30-Jan-21	93000	93.00	7.46	7.68	128	19	275	30	NA		0.40			1) Rehabilitation works for STP, Mumfordganj SPS are in progress. 2) Value of KPIs are on the higher side due excess flow received in STP.
31-Jan-21	90060	90.06	7.42	7.74	142	18	286	32	NA		0.50			
Average	45213.87	45.21	7.40	7.72	134.65	26.33	274.13	44.37	NA		0.49			

Source: Logbook of Laboratory at Sewage Treatment Plant

