

**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  
April 2021**



**Executing Agency**

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



**Funding Agency**

National Mission for Clean  
Ganga, Ministry of Water  
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## 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

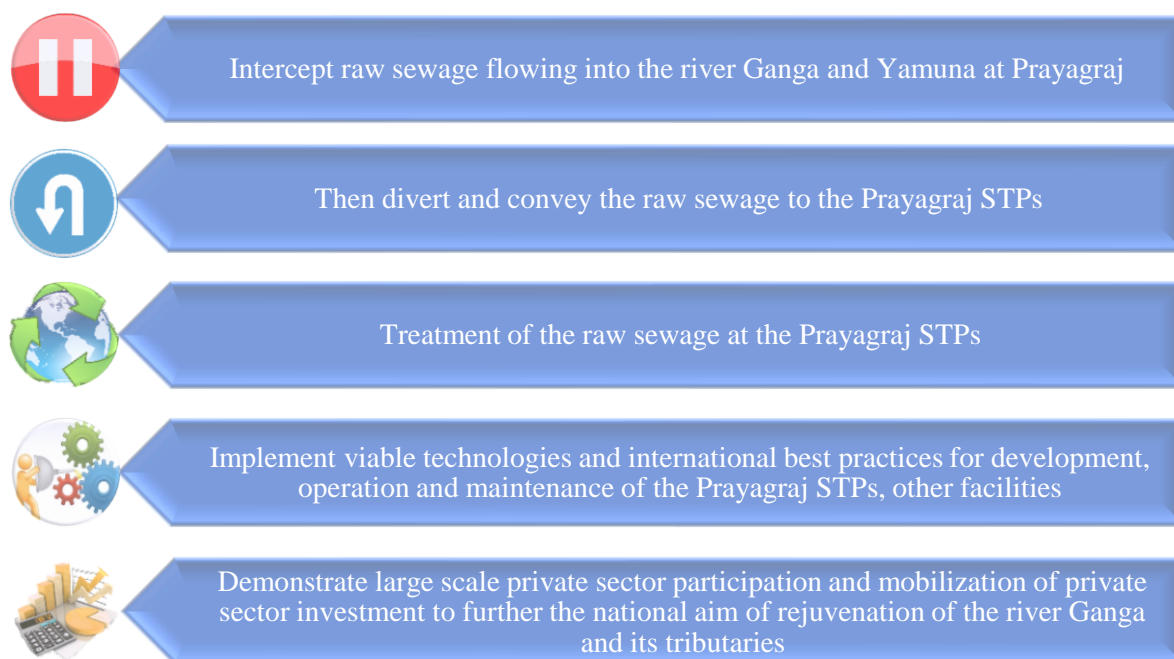
this model, private investor/developer will design, build, finance, construct, rehabilitate, renovate, operate and maintain the asset (STPs, IPS, and MPS) to the Project Executing Agency/Jal Nigam at the end of the Concession Period (15 years). 40% of the Capital cost will be paid to the developer during 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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## 4. Project at Glance

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

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

## 5. Site Location



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

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



## 6. Project Components

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

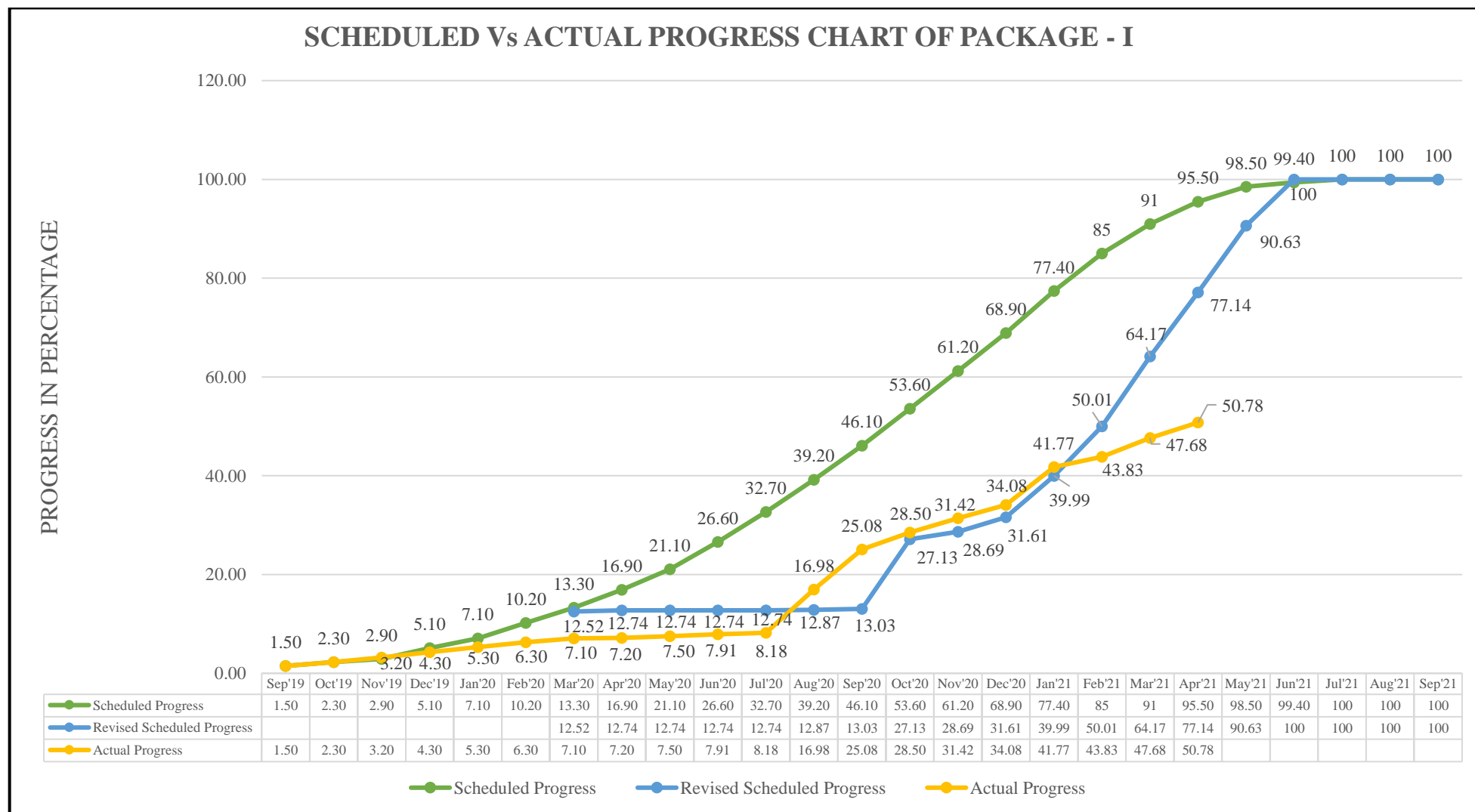
Package Number - I				
Nature of work		Facilities		
New construction		Design, develop, finance, construct, operate and maintain, and transfer the Package-I Facilities including three STP facilities with a proposed capacity of 42 MLD at Naini (District G), 14 MLD at Phaphamau (District F), and 16 MLD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



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

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

## 7.1.4 Overall Package-I Progress



### 7.1.5 Physical Activities in April 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>Sand filling completed</li> </ul>
2.	Staff Quarter	01 No.	<ul style="list-style-type: none"> <li>Brick work under progress</li> </ul>
3.	MPS	01 No.	<ul style="list-style-type: none"> <li>RCC work of raft completed</li> </ul>
4.	Tube Settler	01 No.	<ul style="list-style-type: none"> <li>Vertical wall reinforcement under progress</li> </ul>
5.	Basna Nalla SPS	01 No.	<ul style="list-style-type: none"> <li>No work</li> </ul>
NAINI – II STP			
6.	FCR tank	01 No.	<ul style="list-style-type: none"> <li>FCR Tank-A -4<sup>th</sup> lift wall RCC work completed</li> <li>Tank B -Wall 1 and bar bending work completed</li> </ul>
7.	Tube Settler	01 No.	<ul style="list-style-type: none"> <li>PART A- RCC work of raft completed</li> <li>Part-B- Vertical wall reinforcement fixing work under progress.</li> </ul>
8.	Staff Quarter	01 No.	<ul style="list-style-type: none"> <li>Brick works under progress.</li> </ul>
9.	MPS	01 No.	<ul style="list-style-type: none"> <li>Excavation and dewatering under progress.</li> </ul>
10.	Boundary Wall	01 No.	<ul style="list-style-type: none"> <li>Approx. 77% Boundary Wall work is completed.</li> </ul>
11.	Process building	01 No.	<ul style="list-style-type: none"> <li>Excavation under progress.</li> </ul>
12.	Mahewaghat SPS	01 No.	<ul style="list-style-type: none"> <li>Reinforcement shifting and bending work under progress.</li> </ul>
13.	Mawaiya Nalla SPS	01 No.	<ul style="list-style-type: none"> <li>Excavation work under progress.</li> </ul>
14.	DI Pipeline from Mahewaghat to Naini-II (300mm Dia.)	700 Rmt.	<ul style="list-style-type: none"> <li>680 Rmt. Laying Jointing, Backfilling completed. Hydro-Testing and Road Restoration work pending.</li> <li>In the April month No work</li> </ul>
15.	DI Pipeline from Mawaiya Nalla to Naini-II (800mm Dia.)	700 Rmt.	<ul style="list-style-type: none"> <li>545 Rmt. Laying Jointing, Backfilling completed. Hydro-Testing and Road Restoration work pending.</li> <li>In the April month No work</li> </ul>

16.	RCC 600 dia. From Mahewaghat to Naini-II	4490	<ul style="list-style-type: none"> <li>2020 Rmt Laying work completed, and balance work under progress.</li> </ul>
17.	RCC 1400 dia. From Mahewaghat to Naini-II	3050	<ul style="list-style-type: none"> <li>715 Rmt. Laying work completed, and balance work under progress.</li> </ul>
<b>JHUNSI STP</b>			
18.	FCR tank	01 No.	<ul style="list-style-type: none"> <li>2<sup>nd</sup> lift above sandwich raft completed</li> </ul>
19.	Tube Settler	01 No.	<ul style="list-style-type: none"> <li>Reinforcement and shuttering of 1<sup>st</sup> lift wall under progress.</li> </ul>
20.	Security Cabin	01 No.	<ul style="list-style-type: none"> <li>No work</li> </ul>
21.	Staff Quarter	01 No.	<ul style="list-style-type: none"> <li>2<sup>nd</sup> floor slab shuttering under progress.</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	90%	77%	7%	84%
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	100%	100%	0%	100%
12.	PCC work	01-02-21	28-02-21	100%	100%	0%	100%
13.	RCC upto completion	01-02-21	30-04-21	80%	20%	3%	23%
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	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)
18.	Rubble soling/ Stone filling work	01-02-21	28-02-21	100%	0%	0%	0%
19.	PCC	01-02-21	28-02-21	100%	0%	0%	0%
20.	Structure completion (Expect finishing works)	01-02-21	15-06-21	50%	0%	0%	0%
21.	Other Misc Works	01-05-21	15-06-21				
22.	Hydrotesting	01-06-21	15-06-21				
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	100%	5%	0%	5%
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	100%	100%	0%	100%
33.	PCC	01-03-21	15-03-21	100%	100%	0%	100%
34.	RCC work upto completion	16-03-21	31-05-21	80%	0%	13%	13%
35.	Other Misc Works	01-04-21	31-05-21	50%	0%	0%	0%
36.	Hydrotesting	01-05-21	31-05-21				
37.	Staff quarter	01-09-20	31-03-21	100%	38%	2%	40%
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	25%	0%	0%	0%
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	70%	0%	0%	0%
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%

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)
47.	Other misc works (Boundary Wall, Road, rain water harvesting, Land scaping etc)	01-04-21	15-06-21	20%	0%	0%	0%
48.	<b>Mechanical Erection-STP unit</b>	<b>01-05-21</b>	<b>15-06-21</b>				
49.	Pumps	01-05-21	15-06-21				
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	35%	0%	0%	0%
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				



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)
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				
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	75%	68%	8%	75%
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%	100%	0%	100%
98.	RCC work upto completion	01-02-21	20-04-21	100%	15%	8%	23%
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%	80%	10%	90%
103.	Rubble soling/ Stone filling work	01-01-21	15-02-21	100%	0%	0%	0%
104.	PCC	16-02-21	28-02-21	100%	0%	0%	0%
105.	Structure completion (Expect finishing works)	16-02-21	15-05-21	70%	0%	0%	0%
106.	Other Misc Works	01-04-21	31-05-21	50%	0%	0%	0%

Sr. No.	Work description	Scheduled Start Date	Scheduled End Date	Schedule d Completion (In %)	Completi on up to previous month (In %) (A)	This month Completi on (In%) (B)	Total Completio n (In %) (A+B)
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	100%	20%	80%	100%
110.	PCC	03-04-21	15-04-21	100%			
111.	RCC WORK upto completion	16-04-21	05-06-21	20%			
112.	Hydrotesting	06-06-21	15-06-21				
113.	Boundary wall	01-03-21	31-05-21	60%			
114.	Staff quarter	01-03-21	31-05-21	70%			
115.	I&D Other misc works	01-04-21	31-05-21	50%			
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	100%	100%	0%	100%
118.	PCC	10-04-21	15-04-21	100%			
119.	RCC Work upto completion	16-04-21	20-05-21	25%			
120.	Other finishing work	01-04-21	31-05-21	50%			
121.	Hydrotesting	21-05-21	31-05-21				
122.	Boundary wall	01-03-21	31-05-21	50%			
123.	Staff quarter	01-03-21	30-04-21	100%			
124.	I&D Other misc works	01-03-21	31-05-21	50%			
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	100%	65%	35%	100%
127.	PCC	01-04-21	16-04-21	100%	0%	100%	100%
128.	RCC Work upto completion	17-04-21	15-05-21	50%			
129.	Other finishing work	01-04-21	31-05-21	50%			
130.	Hydrotesting	16-05-21	31-05-21				
131.	Staff quarter	26-10-20	31-05-21	90%	78%	7%	85%
132.	I&D Other misc works	01-03-21	31-05-21	60%			
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	70%	85%	0%	85%
136.	Hydrotesting	16-05-21	31-05-21				
137.	<b>Gravity Main</b>	<b>01-03-21</b>	<b>31-05-21</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)
138.	Excavation, Laying & Jointing, Backfilling/ Restoration works	01-03-21	15-05-21	60%	10%	20%	30%
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%
142.	Other misc works (Boundary Wall, Road, rain water harvesting, Land scaping etc)	01-07-20	15-06-21	40%	42%	6%	48%
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				

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)
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				
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 Jhunsī 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	85%	63%	5%	68%
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	100%	100%	0%	100%
190.	PCC work	16-02-21	28-02-21	100%	0%	100%	100%
191.	RCC upto completion	01-03-21	20-05-21	70%	20%	3%	23%
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	100%	0%	0%	0%
196.	Rubble soling/ Stone filling work	16-04-21	21-04-21	100%	0%	0%	0%
197.	PCC	22-04-21	26-04-21	100%	0%	0%	0%

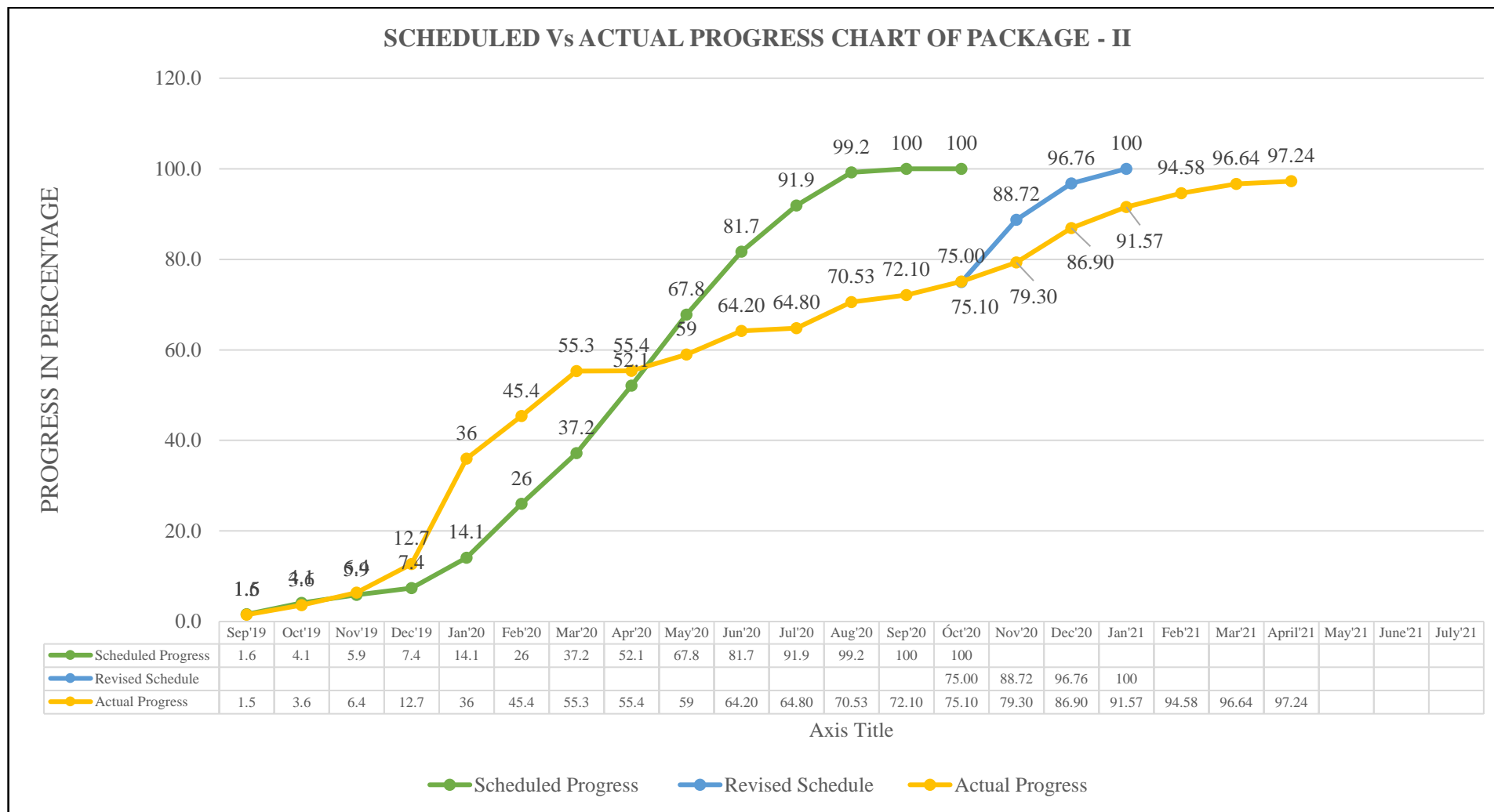
Sr. No.	Work description	Scheduled Start Date	Scheduled End Date	Schedule d Completion (In %)	Completi on up to previous month (In %) (A)	This month Completi on (In%) (B)	Total Completio n (In %) (A+B)
198.	Structure completion (Expect finishing works)	27-04-21	31-05-21	60%	0%	0%	0%
199.	Other finishing 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>				
202.	Excavation work	01-03-21	15-04-21	100%	0%	0%	0%
203.	PCC	16-04-21	22-04-21	100%	0%	0%	0%
204.	RCC upto completion	23-04-21	20-05-21	50%	0%	0%	0%
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	70%	0%	0%	0%
208.	Staff quarter	01-03-21	31-05-21	70%	0%	0%	0%
209.	Other Misc works	01-05-21	15-06-21				
210.	<b>Jhunsu 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	100%	0%	0%	0%
212.	PCC	01-04-21	22-04-21	100%	0%	0%	0%
213.	RCC upto completion	23-04-21	20-05-21	50%	0%	0%	0%
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	100%	43%	17%	60%
217.	Other Misc works	01-04-21	15-06-21	40%	0%	0%	0%
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	60%	0%	0%	0%
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	80%	0%	0%	0%
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,	01-03-21	15-06-21	15%	0%	0%	0%

Sr. No.	Work description	Scheduled Start Date	Scheduled End Date	Schedule d Completion (In %)	Completi on up to previous month (In %) (A)	This month Completi on (In%) (B)	Total Completio n (In %) (A+B)
	rain water harvesting, Land scaping etc)						
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	10%	0%	0%	0%
230.	Lamella clarifier/ Tube settler	01-04-21	15-06-21	10%	0%	0%	0%
231.	Fire fighting System	01-04-21	15-06-21	10%	0%	0%	0%
232.	Chlorination	01-04-21	15-06-21	10%	0%	0%	0%
233.	Grit removal system	01-04-21	15-06-21	10%	0%	0%	0%
234.	Blowers & Diffuser	01-04-21	15-06-21	10%	0%	0%	0%
235.	Screens	01-04-21	15-06-21	10%	0%	0%	0%
236.	Piping, Valves & Gates	01-04-21	15-06-21	10%	0%	0%	0%
237.	Media Installation/ Bio module	01-04-21	15-06-21	10%	0%	0%	0%
238.	Other misc. work	01-04-21	15-06-21	30%	0%	0%	0%
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	10%	0%	0%	0%
241.	Screens	01-04-21	15-06-21	10%	0%	0%	0%
242.	Piping, Valves & Gates	01-04-21	15-06-21	10%	0%	0%	0%
243.	Other misc. work	01-04-21	15-06-21	30%	0%	0%	0%
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	30%	0%	0%	0%
246.	HT/LT panel erection	01-04-21	15-06-21				
247.	PLC Panel & Online monitoring system	01-04-21	15-06-21	10%	0%	0%	0%
248.	Instrumentation works	01-04-21	15-06-21	10%	0%	0%	0%
249.	CCTV	01-04-21	15-06-21	10%	0%	0%	0%
250.	Cable laying	01-04-21	15-06-21	10%	0%	0%	0%
251.	DG Installation	01-04-21	15-06-21	50%	0%	0%	0%
252.	Solar Panel	01-04-21	15-06-21	30%	0%	0%	0%
253.	Other misc. work	01-05-21	15-06-21	0%	0%	0%	0%
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	10%	0%	0%	0%
257.	Cable laying	01-04-21	15-06-21	10%	0%	0%	0%
258.	DG Installation	01-04-21	31-05-21	50%	0%	0%	0%

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)
259.	PLC Panel & Online monitoring system	01-04-21	15-06-21	10%	0%	0%	0%
260.	Other misc. work	01-04-21	15-06-21	25%	0%	0%	0%
261.	Commissioning of Mech., Electrical and C&I	01-06-21	15-06-21	0%	0%	0%	0%
262.	<b>Trial Run, Final Inspection and COD</b>	<b>15-06-21</b>	<b>15-09-21</b>				
263.	Trial Run and Final Inspection	15-06-21	14-09-21	0%	0%	0%	0%
264.	<b>COD</b>	<b>14-09-21</b>	<b>15-09-21</b>	0%	0%	0%	0%



## 7.2.4 Overall Package-II Progress



## 7.2.5 Rehabilitation status till April month

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
Sr. No.	Structure / Equipment details	Status
1.	Installation of flowmeter – 1 No. in New Inlet line of Naini - I STP from Gaughat MPS	1) Installation of new flowmeter is completed. 2) Commissioning work is completed. 3) Calibration of flowmeter is pending. 4) Earthing connections remains to connected. 5) Construction of RCC chamber is completed. Installation of slab covers is pending.
2.	Installation of flowmeter – 1 No. in Old Inlet line of Naini - I STP from Gaughat MPS	1) Installation of new flowmeter is completed. 2) Commissioning work is completed. 3) Calibration of flowmeter is pending. 4) Sluice valve adjacent to the flowmeter is to be shifted and replaced with knife gate valve as decided during joint inspection with Mr. Manohar of M/s. PWPL. 5) Earthing connections remains to connected. 6) Construction of RCC chamber is completed.
3.	Installation of flowmeter in Bypass line of Naini - I STP	Flowmeter is not available at site.
4.	Replacement of Sluice gates - 4 Nos at Inlet of TEPH sump of Naini – I STP	1) Erection work is completed. 2) Equipment are taken into operation on 02.01.2021.
5.	Replacement of PMCC panel in Naini-I STP	1) Erection of new electrical panel is completed. 2) Testing of panel is completed & it is charged. 3) Connection of cables for field equipment is in progress. 4) Civil work is in progress. 5) All open spaces remains to be closed by chequered plates 6) Rubber mats must be kept around LT panel. 7) 1 No. 1000 Amp ACB of Main PMCC Panel of STP Naini is damaged and it is found that cables of 20 MLD STP are shifted to 630 Amp ACB instead of 1000 Amp ACB which is installed for the APFC Panel. Please rectify the problem,
6.	Cleaning of Chlorine Contact Tank in Naini-I STP	1) Cleaning work is completed. 2) Tile fitting work for outlet launder is completed. 3) Unit is taken into operation on 02.01.2021. 4) Tiles fitted in the outlet launder are coming out, Concessionaire to please rectify the problem. 5) Cleaning of CCT is required again as sludge due to malfunctioning of PST no. 3 is deposited in the CCT and hence the quality of effluent is getting deteriorated.

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
7.	Installation of flowmeter in Effluent Bypass of Naini - I STP	1) Installation of flowmeter is completed. 2) Level checking for flowmeter was done & it was found that level at outlet point was 25mm below level of topmost point of flowmeter for which a plate is welded at outlet point. 3) RCC flooring work is completed. 4) Commissioning work is completed. 5) Calibration of flowmeter is pending. 6) Backflow of water towards flowmeter is arrested & RCC flooring at outside to prevent soil erosion at outlet point is constructed. 7) For rectifying the heading of effluent in outlet channel & in outlet launder of FSTs, elbow at the end of effluent pipe is cut down but since there is no change in heading of effluent, this elbow must be refitted to the effluent pipe or otherwise the flowmeter installed in effluent pipe will not work correctly. 8) Earthing connections remains to connected
8.	Replacement of Manual Screen with Mechanical Fine Screen - 1	1) Erection & commissioning of equipment is completed. 2) Equipment is taken into operation on 03.02.2021.
9.	Replacement of Manual Screen with Mechanical Fine Screen - 2	1) Erection & commissioning of equipment is completed.2) Equipment is taken into operation on 09.01.2021.
10.	Replacement of Manual Screen with Mechanical Fine Screen - 3	1) Erection & commissioning of equipment is completed. 2) A chute type arrangement is required at the end of compactor for properly transferring waste material. 3) Equipment is taken into operation on 02.01.2021.
11.	Overhauling of Mechanical Screens of 20 MLD stream along with conveyor	1) Overhauling work is completed. 2) Equipment are taken into operation on 10.01.2021.
12.	Rehabilitation works for Grit Removal Unit - 1	1) Erection & commissioning of equipment is completed. 2) Equipment is taken into operation on 03.02.2021. 3) Torque switch arrangement for scrapper mechanism as per approved FEED is not provided.
13.	Rehabilitation works for Grit Removal Unit - 2	1) Erection & commissioning of equipment is completed. 2) Equipment is taken into operation on 09.01.2021. 3) Torque switch arrangement for scrapper mechanism as per approved FEED is not provided. 4) Grit removal from the unit is not very efficient, Concessionaire to please check & resolve the issue.
14.	Rehabilitation works for Grit Removal Unit - 3	1) Erection & commissioning of equipment is completed. 2) Equipment is taken into operation on 02.01.2021. 3) Torque switch arrangement for scrapper mechanism as per approved FEED is not provided.
15.	Rehabilitation works for Grit Removal Unit - 4 (20 MLD)	1) Overhauling work is completed. 2) Equipment is taken into operation on 10.01.2021. 3) Abnormal noise is coming from the gear box of rake classifier, this must be rectified. 4) Torque switch arrangement for scrapper mechanism as per approved FEED is not provided.

NAINI-I STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
16.	Replacement of Electrical Panel for Grit cum PST	1) Erection of new electrical panel is completed. 2) Testing of panel is completed & it is charged. 3) Connection of cables for field equipment is in progress. 4) Civil work is in completed. 5) All open spaces remains to be closed by chequered plates
17.	Rehabilitation works for PST - 1	1) Erection & commissioning of equipment is completed. 2) Unit is taken into operation on 09.01.2021. 3) Maintenance of Telescopic valve is pending. 4) Scum is fully filled in the box & it is not going properly to collection chamber. Rectification of problem is required. 5) Torque switch arrangement for scrapper mechanism as per approved FEEP is not provided. 6) The Gap between scrapper blades & floor when checked, it was varying from 10 to 60 mm. This is not rectified yet & for increasing the efficiency of unit, the gap must be maintained in between 20 - 30mm.
18.	Rehabilitation works for PST - 2	1) Erection & commissioning of equipment is completed. 2) Unit is taken into operation on 02.01.2021. 3) Maintenance of Telescopic valve is pending. 4) Scum is fully filled in the box & it is not going properly to collection chamber. Rectification of problem is required. 5) Torque switch arrangement for scrapper mechanism as per approved FEEP is not provided. 6) The Gap between scrapper blades & floor when checked, it was varying from 10 to 60 mm. This is not rectified yet & for increasing the efficiency of unit, the gap must be maintained in between 20 - 30mm.
19.	Rehabilitation works for PST - 3	1) Cleaning work is completed. 2) Erection of new structure is completed. 3) Commissioning work is completed. 3) Maintenance of telescopic valve is required. 4) Torque switch arrangement for scrapper mechanism as per approved FEEP is not provided. 5) The Gap between scrapper blades must be maintained in between 20 - 30 mm. 6) Inspection of the unit is completed, and observations are given to the Concessionaire which must be closed and Inspection call must be raised afterwards.
20.	Rehabilitation works for PST - 4 (20 MLD)	1) Overhauling work is completed. 2) Equipment is taken into operation on 10.01.2021. 3) Torque switch arrangement for scrapper mechanism as per approved FEEP is not provided. 4) Scum removal is not proper as it is not going properly to collection chamber. Rectification of problem is required.
21.	Replacement of Valves for Drain line of PST - 4 Nos	1) Replacement of valves is completed. 2) Actuator are not fitted to the valves as they are not available at site. 3) Maintenance of telescopic valves is pending. 4) Cleaning required for all valves chambers so that scum/sludge can flow freely without any choking problem. 5) Installation of flushing arrangement for the drain valves must be completed.

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REHABILITATION UNITS		
22.	Rehabilitation works for Aeration Tank no. 1	1) Erection & commissioning of equipment is completed. 2) Unit is taken into operation on 02.01.2021. 3) Proper cable glands must be provided in terminal boxes. 4) Installation of DO analyzer as per approved FEED is pending.
23.	Rehabilitation works for Aeration Tank no. 2	1) Erection & commissioning of equipment is completed. 2) Unit is taken into operation on 04.03.2021. 3) Proper cable glands must be provided in terminal boxes. 4) Installation of DO analyzer as per approved FEED is pending.
24.	Rehabilitation works for Aeration Tank no. 3	1) Erection & commissioning of equipment is completed. 2) Unit is taken into operation on 13.02.2021. 3) Proper cable glands must be provided in terminal boxes. 4) Installation of DO analyzer as per approved FEED is pending.
25.	Replacement of Diffusers along with Air grid pipeline for Aeration Tank - 4 (20 MLD)	1) 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 are checked and it was found that no air is coming out of the pipe. Concessionaire is required to check the issue, or it can create problem during operations of unit in future. 4) Installation of DO analyzer, pressure transmitter. temperature transmitter is completed. Calibration work is pending. 5) Interlink of DO analyzer with Aeration blowers is not done yet for running blower in auto mode.
26.	Replacement of Aeration Blowers for Aeration Tank of 20 MLD	1) Dismantling of one blower is completed. 2) New Air Blowers are not available at site. 3) Currently, two old blowers are ready for operation. 4) Currently, installation of old blower is in progress.
27.	Rehabilitation works for FST - 1	1) Erection & commissioning of equipment is completed. 2) Unit is taken into operation on 02.01.2021. 3) Torque switch arrangement for scrapper mechanism as per approved FEED is not provided. 4) The Gap between scrapper blades & floor when checked, it was varying from 10 to 60 mm. This is not rectified yet & for increasing the efficiency of unit, the gap must be maintained in between 20 - 30mm.
28.	Rehabilitation works for FST - 2	1) Erection & commissioning of equipment is completed. 2) Unit is taken into operation on 09.01.2021. 3) Torque switch arrangement for scrapper mechanism as per approved FEED is not provided. 5) The Gap between scrapper blades & floor when checked, it was varying from 10 to 60 mm. This is not rectified yet & for increasing the efficiency of unit, the gap must be maintained in between 20 - 30mm.

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REHABILITATION UNITS		
29.	Rehabilitation works for FST - 3	<p>1) Cleaning work is completed.</p> <p>2) Erection &amp; commissioning of scrapper is completed.</p> <p>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&amp;2 (one by one) and for improving the quality of effluent.</p> <p>4) Sheets for current density baffle are also not installed completely. Material is not available at site.</p> <p>5) Since the issues of FST 1 &amp; FST 2 are resolved hence it is suggested to complete remaining works of this FST must be completed and inspection call must be raised for the same.</p> <p>6) Torque switch arrangement for scrapper mechanism as per approved FEEP is not provided.</p>
30.	Rehabilitation works for FST - 4 (20 MLD)	<p>1) Overhauling work is completed.</p> <p>2) Equipment is taken into operation on 10.01.2021.</p> <p>3) Torque switch arrangement for scrapper mechanism as per approved FEEP is not provided.</p>
31.	Replacement of Valves for Drain line of FST - 4 Nos	<p>1) Replacement of valves is completed.</p> <p>2) Actuator are not fitted to the valves as they are not available at site.</p> <p>3) Installation of flushing arrangement for the drain valves must be completed.</p>
32.	Replacement of Electrical Panel for Return Sludge cum FST	<p>1) Erection of new electrical panel is completed.</p> <p>2) Testing of panel is completed &amp; it is charged.</p> <p>3) Connection of cables for field equipment is in progress.</p> <p>4) All open spaces remain to be closed by chequered plates</p> <p>5) Rubber mats must be kept around LT panel.</p>
33.	Rehabilitation works for Return Sludge Pumps (60 MLD)	<p>1) Replacement of suction valves, 2 nos discharge valves is completed.</p> <p>2) Erection &amp; commissioning of all pumps is completed &amp; they are available for operation.</p> <p>3) 4 nos NRVs are not available at site.</p> <p>4) Concessionaire is also required to resolve the design issues of Valves &amp; pumps as per observations given by UPJN/PE.</p> <p>5) Proper cable glands must be provided in terminal boxes.</p>
34.	Rehabilitation works for Return Sludge Pumps (20 MLD)	<p>1) Dismantling of pumps is completed.</p> <p>2) Erection of pumps is in progress.</p>
35.	Rehabilitation works for Thickener - 1	<p>1) Erection &amp; commissioning of equipment is completed.</p> <p>2) Unit is taken into operation on 15.02.2021.</p> <p>3) Torque switch arrangement for scrapper mechanism as per approved FEEP &amp; datasheet must be provided.</p> <p>4) It has been observed that thick layer of scum is formed on top of the water surface. To rectify the same, Concessionaire to please ensure that sludge and supernatant are withdrawn periodically from Thickener.</p>



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REHABILITATION UNITS		
36.	Rehabilitation works for Thickener - 2	1) Erection & commissioning of equipment is completed. 2) Unit is taken into operation on 16.03.2021. 3) Torque switch arrangement for scrapper mechanism as per approved FEEP & datasheet must be provided. 4) It has been observed that thick layer of scum is formed on top of the water surface. To rectify the same, Concessionaire to please ensure that sludge and supernatant are withdrawn periodically from Thickener.
37.	Rehabilitation Works for Sludge Pumps of Thickener	1) Civil modification work for the unit is completed. 2) Erection of pumps is completed, and unit is taken into operation on 15.02.2021. 3) Currently, commissioning of two small pumps is completed and they are taken into operation. Commissioning of two big pumps is pending. 4) Installation of cable trays and dressing of cables is pending. 5) Installation of exhaust fans is pending.
38.	Erection & Commissioning of Valves in Inlet line of Thickener	Valve installation work is completed.
39.	Replacement of Valves for Drain line of Thickener -2 Nos	1) Valves are available at site, valve for thickener no. 1 is replaced but valve for thickener no. 2 is not completed as removal of old valve is not possible. Arrangements must be made to remove second valve also or otherwise installation of actuator will not be possible. 2) Installation of actuators is pending.
40.	Replacement of Electrical Panel for Digester cum Thickener	1) Erection of new electrical panel is completed. 2) Testing of panel is completed & it is charged. 3) Connection of cables for field equipment is in progress. 4) Civil work is pending. 5) All open spaces remains to be closed by chequered plates
41.	Rehabilitation works for HNC pumps of Naini Area in TEPH	1) Erection of all HNC pumps is completed. 2) Commissioning of two HNC pumps is completed till date 3) Replacement of Suction valve, discharge valve & NRVs is completed. 4) Concessionaire is also required to resolve the design issues of Valves & pumps as per observations given by UPJN/PE. 5) Laying of power & control cable is pending. 6) Proper cable glands must be provided in terminal boxes.
42.	Rehabilitation works for HNC pumps of Dandi Area in TEPH	1) Erection of all HNC pumps is completed. 2) Commissioning of all HNC pumps is completed. 3) Replacement of Suction valve, discharge valve & NRVs is completed. 4) Concessionaire is also required to resolve the design issues of Valves & pumps as per observations given by UPJN/PE. 5) Laying of power & control cable is pending. 6) Proper cable glands must be provided in terminal boxes.



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REHABILITATION UNITS		
43.	Replacement of Electrical Panel for TEPH	<ol style="list-style-type: none"> <li>1) Old panel is removed.</li> <li>2) Erection of new panel is completed on old trench but since new panel is of double front type, modification is required in existing room and trench for maintaining proper gap around the electrical panel. Concessionaire to please do the needful.</li> <li>3) All open spaces remain to be closed by chequered plates</li> <li>4) Rubber mats must be kept around LT panel.</li> </ol>
44.	Replacement of Electrical Panel for DGs	<ol style="list-style-type: none"> <li>1) New panel is commissioned &amp; it is shifted to new position in Gas engine room.</li> <li>2) Commissioning work is completed.</li> <li>3) Cleaning of area around DG panels is required.</li> <li>4) Rubber mats must be kept around LT panel.</li> <li>5) Civil modification work around DG panel is pending.</li> </ol>
45.	Replacement of HT Panel	<ol style="list-style-type: none"> <li>1) Erection of new panel is completed.</li> <li>2) Testing of panel is completed &amp; it is charged.</li> <li>3) All open spaces remain to be closed by chequered plates.</li> <li>4) Rubber mats must be kept around HT panel.</li> <li>5) Installation of Battery bank &amp; battery charger is pending. Equipment is not available at site.</li> </ol>
46.	Erection & Commissioning of New Transformers	<ol style="list-style-type: none"> <li>1) Erection work is completed.</li> <li>2) All testing works are completed.</li> <li>3) Cable connection work is completed.</li> <li>4) Load transfer to new Transformers is completed and it is charged.</li> <li>5) Fencing work and finishing work around transformer is pending.</li> </ol>
47.	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> <li>6) Modification of civil foundation is required as part of requirement from OEM for completing the commissioning process. On the basis of same, synchronization of DG sets also depends and currently STP is not running at full capacity during power cuts.</li> </ol>
48.	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) It must also be ensured that chlorine dosing is done to effluent that is bypassing the chlorine contact tank.</li> <li>4) Proper stock of chlorine tonners must be available at site.</li> </ol>
49.	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 completed.</li> <li>3) Commissioning work is pending.</li> </ol>
50.	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>
51.	Rehabilitation Works for Filtrate Pumps	<ol style="list-style-type: none"> <li>1) Erection &amp; commissioning of 4 nos new pumps is completed.</li> <li>2) Unit is taken into operation.</li> </ol>

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REHABILITATION UNITS		
52.	Installation of flowmeter in Header line of HNC pumps for Dandi Area in TEPH	1) Installation of flowmeter is completed. 2) Commissioning work is in progress. 3) Earthing connections remains to be connected. 4) Construction of chamber is completed. Installation of slab covers is pending.
53.	Installation of flowmeter in Header line of HNC pumps for Naini Area in TEPH	1) Installation of new flowmeter is completed. 2) Commissioning work is completed. 3) Calibration of flowmeter is completed by site team Concessionaire is required to get the calibration of flowmeter verified by Project Engineer/UPJN. 4) Installation of slab covers on RCC chambers is pending.
54.	Installation of flowmeter in Inlet line of Thickener from Blending Tank	1) Excavation work for both thickener is completed. 2) Flowmeter installation for one thickener is completed. 3) Flowmeter for second thickener is not available at site. 4) Signal and Power cables not yet laid. 5) Local Indicators not yet installed. 6) Earthing connections remains to connect.
55.	Installation of flowmeter in Header line of Submersible pumps from Thickener to Digester	Flowmeter is not available at site.
56.	Installation of flowmeter in Return Sludge Line from RSPH of 60 MLD	1) Installation of new flowmeter is completed but flowmeter of size 350mm is fitted in line of 300mm by giving enlargers at both ends. This must be checked as both enlargers are fitted within 2D & 5D dimensions in downstream & upstream respectively. This must be checked & rectified as flowmeter can give wrong values. 2) Commissioning work is progress. 3) Signal and Power cables not yet laid. 4) Local Indicators not yet installed. 5) Earthing connections remains to be connected.
57.	Installation of flowmeter in Return Sludge Line from RSPH of 20 MLD	1) Installation of new flowmeter is completed. 2) Commissioning work is progress. 3) Signal and Power cables not yet laid. 4) Local display is not installed yet. 5) Earthing connections remains to be connected. 6) Construction of RCC chamber is in progress.
58.	Erection & Commissioning of Online Instruments	1) Erection of online analyzers at inlet and outlet is completed, commissioning work is in progress. 2) Erection of Chlorine Analyzer is completed, commissioning work is in progress. 3) Erection of DO analyzers is not started yet. 4) Erection of level instruments is in progress. 3) Signal and Power cables laying in progress. 4) Earthing connections remains to be connected.
59.	Erection & Commissioning of PLC panels	1) Civil work for PLC / SCADA room is in progress. 2) Erection works for PLC panels is completed. 3) Commissioning work is in progress. 4) Connection of equipment, field instruments is in progress.

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REHABILITATION UNITS		
60.	Erection & Commissioning of SCADA System	1) Civil work for PLC / SCADA room is completed. 2) Commissioning works for SCADA system is completed except for gas generation/sludge handling area.. 3) KPI & Flow Report generation from SCADA is started. Running hour report for equipment is not started yet. 4) Communication from associated infrastructure is not received in Naini-I STP. 5) Provision for transmission of data from SCADA servers to Government offices as per conditions given in CA is not provided yet.
61.	Replacement of Sluice gate in Effluent Bypass of Naini – I STP	No work is in progress
62.	Replacement of Sluice Gates in Inlet of Grit Removal Units	No work is in progress
63.	Replacement of Sluice Gates in Inlet of Primary Settling Tanks	No work is in progress
64.	Replacement of Sluice Gates in Inlet of Aeration Tanks	No work is in progress
65.	Replacement of Sluice Gates in Inlet of Final Settling Tanks	No work is in progress
66.	Replacement of Valve in old header line from Guahan MPS	No work is in progress
67.	Replacement of other miscellaneous gates/valves for 60 MLD streams	No work is in progress
68.	Overhauling & Testing of Electrical panels for 20 MLD stream	No work is in progress
69.	Erection & Commissioning of APFC Panels	1) Construction work for trenches is completed. 2) Erection work for panels is completed. 3) Commissioning work is in progress.
70.	Service Water Pumps - 2 Nos	No work is in progress
71.	Dilution Water Pumps - 2 Nos	Pumps which were originally procured for dilution line are not used for thickened sludge pumping and dilution water will be taken from service water pumps.
72.	Rehabilitation works for Storm Water Pump House	No plan is submitted yet for the Rehabilitation works.
73.	Rehabilitation works for Digester no. 1	1) Cleaning work for the Digester is completed. 2) Core cutting work for fitting Gas mixing is completed. 3) Erection of Gas mixing system is completed. 4) Excavation of trenches for piping work is completed. 5) Sludge Piping work for digester is in progress
74.	Rehabilitation works for Digester no. 2	1) Cleaning work for the Digester is not complete. 2) Core cutting work for fitting Gas mixing system is completed. 3) Erection of Gas mixing system is in progress. 4) Excavation of trenches for piping work is completed. 5) Sludge Piping work for digester is not started yet.

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REHABILITATION UNITS		
75.	Rehabilitation works for Digester no. 3	<ol style="list-style-type: none"> <li>1) Cleaning work for the Digester is not complete.</li> <li>2) Core cutting work for fitting Gas mixing system is completed.</li> <li>3) Erection of Gas mixing system is in progress.</li> <li>4) Excavation of trenches for piping work is completed.</li> <li>5) Sludge Piping work for digester is not started yet.</li> </ol>
76.	Erection & Commissioning of Compressors for Gas mixing system of Digesters	<ol style="list-style-type: none"> <li>1) Finishing work for compressor room is pending.</li> <li>2) Erection of all three skids of compressor is completed.</li> <li>3) Piping work is in progress.</li> </ol>
77.	Erection & Commissioning of Heat Exchangers - 3 nos / sludge recirculation pumps - 6 Nos	<ol style="list-style-type: none"> <li>1) Construction of foundation for Digester no. 1 completed.</li> <li>2) Construction of foundation for Digester no. 2 is completed.</li> <li>3) Construction of foundation for Digester no. 3 is not started due to accumulation of sludge in that area. E&amp;M works are not started yet.</li> <li>3) Erection of heat exchanger - 1 no., sludge recirculation pumps - 2 nos of Digester no. 1 is completed.</li> <li>4) Erection of heat exchanger - 1 no., sludge recirculation pumps - 2 nos of Digester no. 2 is completed.</li> <li>4) Piping work for Digester no. 1 &amp; 2 is completed.</li> <li>5) Electrical connections for the unit is pending.</li> </ol>
78.	Erection & Commissioning work of Gas Holder no. 1 & 2	<ol style="list-style-type: none"> <li>1) PCC work is completed.</li> <li>2) Raft construction work is in progress.</li> </ol>
79.	Erection & Commissioning of Dewatering Feed pumps	<ol style="list-style-type: none"> <li>1) Construction of sludge sump is in progress.</li> <li>2) E&amp;M work is not started yet.</li> </ol>
80.	Erection & Commissioning of Gas Engine	<ol style="list-style-type: none"> <li>1) Construction of foundation is completed.</li> <li>2) Erection of Gas Engine is completed.</li> <li>3) Piping work is in progress.</li> <li>4) Erection work for exhaust chimney is in progress.</li> <li>5) Power and control cables remains to be laid and connected.</li> </ol>
81.	Erection & Commissioning of Control Panel Room for Gas Engine	Construction of cable trenches in in progress.
82.	Erection & Commissioning of H <sub>2</sub> S Scrubber, Blowers - 2 Nos & Dehumidifier	<ol style="list-style-type: none"> <li>1) Construction of foundation is completed.</li> <li>2) Erection of Scrubber, blowers &amp; dehumidifier is completed.</li> <li>3) Piping work for the unit is completed.</li> <li>4) Electrical connection for the equipment is pending.</li> <li>5) Commissioning work is pending.</li> </ol>
83.	Erection & Commissioning of HT, LT & Hot Water System	<ol style="list-style-type: none"> <li>1) Construction of foundation is completed.</li> <li>2) Erection of equipment is completed.</li> <li>3) Piping work is in progress.</li> <li>4) Power and control cables remains to laid and connected.</li> </ol>
84.	Erection & Commissioning of Radiator	<ol style="list-style-type: none"> <li>1) Construction work for foundation is completed.</li> <li>2) Erection of equipment is completed.</li> <li>3) Piping work is in progress.</li> </ol>
85.	Erection & Commissioning of Ventilation System	<ol style="list-style-type: none"> <li>1) Civil construction work is in progress</li> <li>2) E&amp;M work is not started yet.</li> </ol>

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REHABILITATION UNITS		
86.	Erection & Commissioning of Gas Flare	1) Construction work for foundation is completed. 2) Erection of equipment is completed. 3) Piping work is completed. 4) Commissioning work is pending. 5) Construction of chamber for moisture trap is completed. Installation of covers is pending.
87.	Erection & Commissioning of Gas Piping for complete Gas Generation Area	1) Excavation work is in progress. 2) Pipe laying Work is in progress
88.	Erection & Commissioning of Sludge Piping for complete Gas Generation Area	1) Excavation work is in progress. 2) Pipe laying Work is in progress
89.	Cleaning of Sludge Drying Beds	1) Cleaning work is in progress. 2) Currently, only one sludge drying bed is empty.
90.	Set-up of Laboratory	1) Civil work, finishing is in progress. 2) Set-up of laboratory is in progress.
91.	Installation of flowmeter in old header line of Gaughat MPS	1) Installation of new flowmeter is completed. 2) Commissioning work is completed. 3) Calibration is pending. 4) Earthing remains to be connected.
92.	Installation of flowmeter in new header line of Gaughat MPS	1) Installation of new flowmeter is completed. 2) Commissioning work is completed. 3) Calibration is pending. 4) Earthing remains to be connected.
93.	Replacement of HNC pumps - 5 Nos	1) Dismantling of one pump is completed. 2) Concessionaire is required to resolve the design issues of Valves & pumps as per observations given by UPJN/PE. 3) It was also decided that one new pump must be installed in vacant space for 5th pump. 4) Erection of new pumps is not started yet. 5) No work is in progress.
94.	Replacement of Submersible pumps - 3 nos	1) Replacement work of pumps is completed. 2) Installation of Soft Starter panel is completed. 3) Commissioning work is completed. 4) Testing of two pumps is completed and one pump is remaining due to problem in its soft starter panel. Concessionaire to please check & do the needful.
95.	Replacement of Mechanical Screen - 2 Nos	1) Erection of new mechanical screens is completed. 2) Commissioning work was completed but when the equipment was 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 affect the performance of facility.
96.	Replacement of Electrical Panel for DGs	Panel is charged & taken into operation.
97.	Cleaning of Receiving Chamber for HNC pumps	Cleaning of sump is completed.



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REHABILITATION UNITS		
98.	Cleaning of Receiving Chamber for Submersible pumps	Cleaning of sump is completed.
99.	Erection & Commissioning of PLC panels	1) Construction of PLC room is in completed. 2) Finishing work for the room is completed. 3) Erection of PLC panel is completed. 4) Cable connection work is in progress. 5) Commissioning work is in progress. 6) During visit it was suggested that UPS & batteries must be taken out of PLC and must be installed in pump house for making space and one table/chair for operator can be put into the PLC room. 7) Installation of Level Transmitters is not started yet.
100.	Overhauling of Mechanical Screens	1) Overhauling work is completed. 2) Equipment is taken into operation on 09.01.2021. 3) Currently, one mechanical screen is not in operation due to problem in motor & unavailability of spare part, problem must be resolved for the same.
101.	Overhauling of DG sets	1) No work is in progress. 2) DG no. 2 is not starting due to problem in batteries which must be rectified.
102.	Replacement of emergency gate	No work is in progress
103.	Overhauling & Testing of Old Electrical panels for HNC pump house & submersible pump house	No work is in progress
104.	Installation of flowmeter - 600mm in header line of VNC pumps in Chacharnalla SPS	1) Installation work is completed. 2) Commissioning work is pending. 3) Power and control cables remains to laid and connect 4) Local display remains to installation. 5) Earthing remains to be connected.
105.	Overhauling/Calibration of flowmeter - 400mm in header line of VNC pumps in Chacharnalla SPS	1) As per information, flowmeter will not be replaced because is old flowmeter is OK for operation. 2) Overhauling/calibration of old flowmeter is not started yet. 3) Currently, flowmeter is not working.
106.	Erection of Manual Screens at tapping points in Chacharnalla SPS	1) Erection of screens is completed. 2) Civil work is pending.
107.	Replacement of Big VNC pumps in Chacharnalla SPS	1) Dismantling of one pump is completed. 2) Erection work for one pump is completed and it is taken into operation. Performance of the same was not possible because flowmeters at the SPS are not working. 3) Concessionaire is also required to resolve the design issues of Valves & pumps as per observations given by UPJN/PE. 4) Concessionaire is required to complete the erection work of other pumps also so that stand-by pumps can be made ready for operation. 5) Currently, two pumps are ready for operations, VNC pump no. 2 is in maintenance. Hence no pump is in stand-by.
108.	Overhauling of Small VNC pumps	1) Overhauling work is not started yet. 2) Currently, both pumps are in working condition.

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REHABILITATION UNITS		
109.	Replacement of MCC panel at Chacharnalla SPS	1) Panel is taken into operation on 10.01.2021.
110.	Cleaning of Receiving Chamber at Chacharnalla SPS	Cleaning of sump is completed.
111.	Erection & Commissioning of PLC panels	1) Construction of PLC room is in completed. 2) Finishing work for the room is completed. 3) Erection of PLC panel is completed. 4) Cable connection work is in progress. 5) Commissioning work is in progress. 6) It is suggested that UPS & batteries must be taken out of PLC and must be installed at a suitable place somewhere else for making space and one table/chair for operator can be put into the PLC room. 7) Installation of level transmitters is not started yet.
112.	Overhauling of Mechanical Screens	1) Overhauling work is not started yet. 2) Currently, both screens are in working condition.
113.	Overhauling & Testing of Old Electrical panels	No work is in progress
114.	Overhauling of DG sets	1) Overhauling work is not started yet. 2) During the visit, facility was checked by giving load on DGs and it was found that during the changeover, the lever inside incomer panel of DG was not working properly. Hence, servicing of old panels is required & it must be done from authorized vendors so that proper pumping during power cuts can also be ensured.



RAJAPUR STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
Sr. No.	Structure / Equipment details	Status
1.	Repairing of Parshall flume after PTU & installation of Ultrasonic flowmeter.	1) Installation of flowmeter is completed. 2) Cable connection work is completed. 3) calibration work is pending.
2.	Installation of flowmeter – 1 No. in Inlet line of Rajapur STP from Mumfordganj SPS	1) Commissioning of flowmeter is completed. 2) Calibration of flowmeter is completed by site team, Concessionaire is required to get the calibration of flowmeter verified by Project Engineer/UPJN.
3.	Installation of flowmeter in Outlet of Rajapur STP	1) Installation of flowmeter is completed. 2) Commissioning work is in progress. 3) Calibration 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) It is observed that problem of leakage from HDP inlet pipes is very frequent. For minimizing this problem, it was suggested to give proper supports under the pipes. Concessionaire to please do the needful.
9.	Rehabilitation works for UASB - 2	1) Dewatering of structure is not started yet. 2) Leakage rectification required from HDP pipes. 3) No cleaning work is in progress currently. 4) It is observed that problem of leakage from HDP inlet pipes is very frequent. For minimizing this problem, it was suggested to give proper supports under the pipes. Concessionaire to please do the needful.
10.	Rehabilitation works for Aeration Tank	1) As informed, current plan is to replace 3 Surface Aerators only in place of total 15. It is strongly suggested to replace all 15 Surface Aerators so that maximum efficiency of treatment can be achieved, and desired level of Dissolved Oxygen can be maintained in the outlet of Aeration Tank. 2) Three Surface Aerator erection work is completed but it is taking high ampere during operation. Hence, problem must be rectified. 3) Cleaning of Aeration tank is not started yet. 4) Rectification work for one surface aeration is completed & now it is taking normal amperes but it is observed that splashing of sewage has become half of the amount at earlier stage. This

RAJAPUR STP & ASSOCIATE INFRASTRUCTURE		
REHABILITATION UNITS		
		<p>problem must be rectified or otherwise it will be difficult to maintain DO level in the aeration tank.</p> <p>5) At the time of visit, only 8 aerators were found running which must be 12 as per process requirement. It must be ensured that minimum 12 aerators must run at a time.</p> <p>6) Currently, 11 old &amp; 1 new aerator is ready for operation and 3 aerators are in maintenance, hence no surface aerator is in stand-by.</p>
11.	Rehabilitation works for Quiescent Zone	<p>1) Unit is taken into operation on 01.01.2021 without doing the cleaning work.</p> <p>2) As informed, current plan is to avoid cleaning of Quiescent Zone do it at some afterwards due to time constraints. In current situation also we can see that the dead sludge which is deposited in Quiescent Zone over the years is coming out along with the treated water resulting in higher TSS &amp; low DO hence It is strongly suggested to complete the cleaning of Quiescent Zone to increase the treatment efficiency of the plant.</p>
12.	Rehabilitation works in MEP Room	<p>1) Floor restoration work is completed.</p> <p>2) Increase in height of Electrical Panels is completed.</p> <p>3) No permanent arrangement is being made for safe approach to the electrical panel at increased height which is very dangerous and violates all safety norms. Concessionaire is required to look into the matter &amp; do the needful at the earliest.</p>
13.	Rehabilitation works in Metering Room	<p>1) Floor restoration work is completed.</p> <p>2) Increase in height of Electrical Panels is completed.</p> <p>3) No permanent arrangement is being made for safe approach to the electrical panel at increased height which is very dangerous and violates all safety norms. Concessionaire is required to look into the matter &amp; do the needful at the earliest.</p>
14.	Cleaning of Sludge Drying Beds	Cleaning work is in progress.
15.	Increase in height of foundation for DGs	<p>1) Modification work for foundation is completed.</p> <p>2) Repairing of shed is pending.</p> <p>3) Operating plate from is required for DG operation.</p> <p>4) Increase in height of chimney is required as per CPCB norms.</p>
16.	Rehabilitation works for Gas Handling System	No work is started for the system. Concessionaire to please expedite the work as this system is part of the process must be made functional before the end of Rehabilitation period.
17.	Rehabilitation works for Sludge Handling System	<p>1) No work is started for the system.</p> <p>2) Two sludge sumps are available for the system, but one pump is not available in each sump. Hence, repairing/overhauling of pumps is required.</p>
18.	Rehabilitation works for Filtrate pump house	<p>1) No work is started for the system.</p> <p>2) Two filtrate pumps are available for the system but one pump is not available. Hence, repairing/overhauling of pumps is required.</p>
19.	Rehabilitation works of Chlorination system.	<p>1) Erection &amp; commissioning of chlorine system is completed.</p> <p>2) Testing of chlorination system is completed, both are found running at maximum efficiency. Proper Pipe Supports are required.</p>

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REHABILITATION UNITS		
		3) It was also found that booster pumps were getting water from potable water system of plant which is completely against CPCB norms. Concessionaire to please look into the matter and make arrangement for using treated water in booster line.
20.	Rehabilitation works of Leak Absorption System	1) Rehabilitation works is completed. 2) The system must be checked in Auto mode. 3) Proper caustic solution must be filled in Caustic pit for absorbing the chlorine leakage. 4) PU coating for neutralization pit is completed.
21.	Erection & Commissioning of Sludge Dewatering System	1) Civil work for the unit is not completed yet. 2) E&M work is not started yet.
22.	Erection & Commissioning of Online Instruments	1) Erection of online instruments is completed. 2) Calibration work is completed. 3) Installation of level transmitters is in progress. 4) Installation of chlorine analyzer is completed. 5) Installation of DO analyzer for Aeration tank is not started yet.
23.	Erection & Commissioning of PLC panels	1) PLC panel installation is in Completed. 2) Cable connection work is completed.
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 completed.
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) Retaining wall is completed.
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	1)Overhauling work is completed and equipment is taken into operation. 2) Currently, one screen is under maintenance & one is working. Second screen is also not able to lift waste efficiently from the sewage. Concessionaire is requested to rectify the problems. 3) Provision for running of mechanical screens in auto mode is pending.

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REHABILITATION UNITS		
34.	Replacement of HNC pumps along with cables.	1) Dismantling of Four pumps is completed. 2) Modification for foundation of Four pumps is Completed. 3) Erection of Four new pumps is completed.
35.	Replacement of suction valves, discharge valves & NRVs	1) Replacement of suction valves is completed. 2) Replacement of header line is completed on 15.01.2021 & two pumps were started on 15.01.2021. Since the shutdown was given till 31.12.2020, hence the work for replacement of header line is delayed by 15 days for which Concessionaire is required to provide justification or otherwise LDs as per relevant clauses of CA will be applicable. 3) Concessionaire is also required to resolve the design issues of Valves & pumps as per observations given by UPJN/PE. 4) NRV in main header line must be provided for reducing back hammering on the pumps.
36.	Rehabilitation works of MCC panel	Rehabilitation work is completed.
37.	Erection & Commissioning of PLC panels	1) Construction of PLC room is completed. 2) Erection of PLC panel is completed. 3) Cable laying & connection work is completed. 4) PLC Data transfer is not completed yet.
38.	Cleaning of Receiving Chamber	Cleaning of sump is completed.
39.	Overhauling/testing of Transformer	1) Overhauling work for Transformer no. 1 is pending. 2) Transfer No 02 after repairing/overhauling was received at site on date 13.03.2021. It is installed and taken into operation.

## 7.2.6 Physical Activities status as per Rehabilitation plan:

Work Description	Scheduled Start Date	Scheduled End Date	Scheduled completion (In %)	Completion upto Previous Month (In %) (A)	This month Completion (In %) (B)	Total Completion (In %) (A+B)
<b>Naini-I STP &amp; Associated Infrastructure &amp; Rajapur STP &amp; Associated Infrastructure</b>						
<b>Civil Work</b>						
Civil Work in Plant, MPS, SPS	1-sept-20	24-Jan-21	100	94	1	95
Building Work	1-sept-20	24-Jan-21	100	92	1	93
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	89	6	95
Pipes, Valves, Gates, Screens	1-Nov-20	24-Jan-21	100	82	12	94
Sludge Dewatering System	1-Nov-20	24-Jan-21	100	0	0	0
Grit Removal System	20-Oct-20	24-Jan-21	100	100	0	100
Biogas Engine with Scrubber and Gas Mixing System	1-Nov-20	24-Jan-21	100	87	5	92
Chlorination System	1-Nov-20	24-Jan-21	100	100	0	100
<b>Electrical &amp; C&amp;I Work</b>						
PLC	1-Nov-20	24-Jan-21	100	100	0	100
Field Instruments (Gauges)	1-Nov-20	24-Jan-21	100	95	5	100
Level Transmitters	1-Nov-20	24-Jan-21	100	90	10	100
Analyzers	1-Nov-20	24-Jan-21	100	95	5	100
Cable Traying laying	1-Nov-20	24-Jan-21	100	85	13	98
Cable Laying, Termination and Glanding	1-Nov-20	24-Jan-21	100	93	3	96
<b>Commissioning / Trial Run</b>	25-Jan-21	31-Jan-21	100	0	0	0
<b>Final Inspection by Client</b>	25-Jan-21	30-Jan-21	100	0	0	0
<b>COD</b>	31-Jan-21	31-Jan-21	100	0	0	0



### 7.3 Package-III status



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

Letter No. 2336/PWPL(Adani)/423

To,

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

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

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

Sir,

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

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

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

Yours faithfully

General Manager

Endt No. & and date as above:

Copy to following:

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

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

## 8. Meetings, Discussions and Site Visits:

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

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



Sr. No.	Site Visit & Meeting with UPJN / NMCG / PWPL	Date	Attendees	Description
15.	Site inspection of Naini-I STP	9-Apr-21	Mr. Gaurav Pandey	Inspection, supervision and monitoring of ongoing E&M and Civil activities
16.	Site inspection of Naini-I STP	9-Apr-21	Mr. Atahar Ayyub	Inspection, supervision and monitoring of ongoing E&M and Civil activities
17.	Site inspection of Phaphamau STP	10-Apr-21	Mr. Wahab Alam Mr. Amit Ranjan	Inspection, supervision and monitoring of ongoing Civil activities
18.	Site inspection of Phaphamau STP	12-Apr-21	Mr. Wahab Alam	Inspection, supervision and monitoring of ongoing Civil activities
19.	Site inspection of Naini-I STP	12-Apr-21	Mr. Atahar Ayyub	Inspection, supervision and monitoring of ongoing E&M and Civil activities
20.	Site inspection of Phaphamau STP	13-Apr-21	Mr. Wahab Alam	Inspection, supervision and monitoring of ongoing Civil activities
21.	Site inspection of Naini-I STP	13-Apr-21	Mr. Atahar Ayyub	Inspection, supervision and monitoring of ongoing E&M and Civil activities
22.	Site inspection of Naini-II STP	13-Apr-21	Mr. Amit Ranjan	Inspection, supervision and monitoring of ongoing Civil activities
23.	Site inspection of Jhansi STP	13-Apr-21	Mr. Abhishek Singh	Inspection, supervision and monitoring of ongoing Civil activities
24.	Site inspection of Phaphamau STP	17-Apr-21	Mr. Wahab Alam	Inspection, supervision and monitoring of ongoing Civil activities
25.	Site inspection of Naini-I STP	17-Apr-21	Mr. Atahar Ayyub	Inspection, supervision and monitoring of ongoing E&M activities
26.	Site inspection of Naini-II STP	17-Apr-21	Mr. Amit Ranjan	Inspection, supervision and monitoring of ongoing E&M and Civil activities

## 11. Outward Register

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

Sr. No.	PE Transmittal/ Ref No	Description	Outward Date	To (Organization )	Copies To
1.	AIPL/NMC G/PRAYAG/ 882	Observation on Basna Nalla SPS - Rev 1 _Civil Design Docs & Dwgs	1-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
2.	AIPL/NMC G/PRAYAG/ 883	Observation on Mawaiya drain SPS revised GA Drawing	3-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
3.	AIPL/NMC G/PRAYAG/ 884	Observation on Approval of Mech GAD for Basana Nala SPS Under Pkg-1	3-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
4.	AIPL/NMC G/PRAYAG/ 885	Observation on revised GA Drawings for Mahewaghat SPS	3-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
5.	AIPL/NMC G/PRAYAG/ 886	Observation on revised G.A drawings of Naini II MPS	3-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
6.	AIPL/NMC G/PRAYAG/ 887	Observation on Chlorination System documents for Package-I	3-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
7.	AIPL/NMC G/PRAYAG/ 870	Request for Reduction in value of Performance Security for Package-II in line with MOF Notification	3-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
8.	AIPL/NMC G/PRAYAG/ 888	Observation on Civil/Structural Details of Thrust Block	3-Apr-21	The General Manager, Ganga	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj

Sr. No.	PE Transmittal/ Ref No	Description	Outward Date	To (Organization)	Copies To
				Pollution Control Unit	3. PM-E&M - UPJN, Prayagraj
9.	AIPL/NMC G/PRAYAG/ 889	Observation on Functional Design Specification of C&I of STP for Package – I of Prayagraj STP Project	3-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
10.	AIPL/NMC G/PRAYAG/ 893	Observation on Revised GA Drawings for Naini-II STP	6-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
11.	AIPL/NMC G/PRAYAG/ 894	Observation on Civil Drawing for Tube Settler Naini-II	6-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
12.	Via Mail	Observation on revised documents – Phaphamau BEP	6-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
13.	Via Mail	Observation on revised FEED for Naini II	6-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
14.	AIPL/NMC G/PRAYAG/ 890	Inspection Reports of Package III facilities	6-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
15.	AIPL/NMC G/PRAYAG/ 891	Regarding operational issues of Naini-I facility	6-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
16.	AIPL/NMC G/PRAYAG/ 892	Regarding Handover of material replaced as part of rehabilitation of Package II & Package III facilities.	6-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj

Sr. No.	PE Transmittal/ Ref No	Description	Outward Date	To (Organization)	Copies To
					3. PM-E&M - UPJN, Prayagraj
17.	AIPL/NMC G/PRAYAG/ 895	Observation on Documents of Grit Removal Mechanism for Package I STPs	7-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
18.	AIPL/NMC G/PRAYAG/ 896	Observation on Pipe Schedule for Package I - Naini II, Phaphamau and Jhansi STP	7-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
19.	AIPL/NMC G/PRAYAG/ 897	Observation on NAINI II MPS - Docs. of Mechanical and Manual Screens	7-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
20.	AIPL/NMC G/PRAYAG/ 898	Observation on Mechanical & Manual Screens - NAINI II STP of Package-I	7-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
21.	AIPL/NMC G/PRAYAG/ 899	Observation on Electrical Design docs for Shastri Bridge SPS : Prayagraj STP	7-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
22.	AIPL/NMC G/PRAYAG/ 900	Observation on Distribution Transformer documents for Pkg I.	7-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
23.	AIPL/NMC G/PRAYAG/ 901	Reg. Slow work progress at Basna Nalla SPS under PKG-I	8-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
24.	Via Mail	Status of Drawing of Package-I	8-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj

Sr. No.	PE Transmittal/ Ref No	Description	Outward Date	To (Organization)	Copies To
					3. PM-E&M - UPJN, Prayagraj
25.	AIPL/NMC G/PRAYAG/ 903	Regarding the extension of time of Package-I	8-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
26.	AIPL/NMC G/PRAYAG/ 902	Observation on Detail construction drawing for Tube Settler Tank _JHUNSI STP	8-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
27.	AIPL/NMC G/PRAYAG/ 904	HAZOP review for STP projects at Allahabad under Hybrid Annuity based PPP mode	9-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
28.	AIPL/NMC G/PRAYAG/ 905	Observation on Floor Plan GA Drawings Jhunsu STP	9-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
29.	AIPL/NMC G/PRAYAG/ 906	Observation on Datasheet and GAD of Blowers for Package I - Grit blowers	9-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
30.	AIPL/NMC G/PRAYAG/ 907	Observation on Mechanical and Manual Screens - Jhunsu STP, Phaphamau STP & Jhunsu MPS of Package-I	9-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
31.	AIPL/NMC G/PRAYAG/ 908	Observation on Documents of Mechanical + Manual Screens at Basna Nalla SPS of Package-I	9-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
32.	AIPL/NMC G/PRAYAG/ 909	Regarding the shutdown for header line replacement at Ghaghar Nala MPS of Package-III	12-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj

Sr. No.	PE Transmittal/ Ref No	Description	Outward Date	To (Organization)	Copies To
					3. PM-E&M - UPJN, Prayagraj
33.	AIPL/NMC G/PRAYAG/ 910	Regarding successful implementation of Operation & Maintenance activities for Package III facilities: Requisite Concessionaire's obligations during O&M period - Prayagraj HAM Project	12-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
34.	AIPL/NMC G/PRAYAG/ 911	Observation on SCADA & PLC Control System Configuration diagram Phapamau (Package - I)	13-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
35.	AIPL/NMC G/PRAYAG/ 912	Observation on SCADA & PLC Control System Configuration diagram of Jhansi STP of Package - I.	13-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
36.	AIPL/NMC G/PRAYAG/ 913	Observation on PLC System Configuration Naini-II STP ( PACKAGE - I)	13-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
37.	AIPL/NMC G/PRAYAG/ 914	Observation on Dewatering unit Data sheet- Rewrite/ReObservation of Package-I	13-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
38.	AIPL/NMC G/PRAYAG/ 915	Regarding RCC work for Tube Settler at Naini-II STP and Phaphamau STP under Pkg-I.	16-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
39.	AIPL/NMC G/PRAYAG/ 916	Regarding approval of QAP & Inspection of Chlorination system of Package-I.	16-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj



Sr. No.	PE Transmittal/ Ref No	Description	Outward Date	To (Organization)	Copies To
40.	AIPL/NMCG/PRAYAG/ 917	Observation on DG Set documents for Pkg- I (Mail 1 of 2)	16-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
41.	AIPL/NMCG/PRAYAG/ 918	Observation on Non clog submersible pumps - Documents - Package-I	16-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
42.	AIPL/NMCG/PRAYAG/ 919	Intimation regarding COVID – 19 Positive Case found in Prayagraj Project team.	22-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
43.	AIPL/NMCG/PRAYAG/ 921	Observation on Regarding the Observation of details of the quantities & cost implication due to the change in the STP location of Jhansi STP facility.	23-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
44.	AIPL/NMCG/PRAYAG/ 922	Observation on Naini II Process Building Civil Drawings	23-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
45.	AIPL/NMCG/PRAYAG/ 920	Regarding the Observation of technical proposal & cost estimate for carrying sewage from Trivenipuram to Jhansi STP.	24-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
46.	AIPL/NMCG/PRAYAG/ 923	Intimation regarding COVID – 19 Positive Case found in Prayagraj Project team.	24-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
47.	AIPL/NMCG/PRAYAG/ 926	Regarding the Observation of MPR of March'21	28-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj



Sr. No.	PE Transmittal/ Ref No	Description	Outward Date	To (Organization )	Copies To
48.	AIPL/NMC G/PRAYAG/ 927	Observation on Rising main piping drawing from shastri bridge SPS to Jhunsi MPS (Jhunsi STP)	28-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
49.	AIPL/NMC G/PRAYAG/ 924	Observation on revised documents – Phaphamau BEP	28-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
50.	AIPL/NMC G/PRAYAG/ 928	Inspection Reports of Naini-II and Jhunsi Facilities under Package-I	29-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
51.	AIPL/NMC G/PRAYAG/ 925	Observation on revised FEEP for Naini II- (Mail 1 of 2)	30-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj
52.	AIPL/NMC G/PRAYAG/ 929	Observation on Motor docs for FCR & GRIT Blowers for Package-I STP : Prayagraj STP	30-Apr-21	The General Manager, Ganga Pollution Control Unit	1. NMCG, New Delhi 2. M/s PWPL, Prayagraj 3. PM-E&M - UPJN, Prayagraj

## 12. Inward Register

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

Sr. No.	PWPL Transmittal reference number	Description	Date	From
53.	PWPL/UPJN/PMCG/149/21	Submission of Valve Schedule (package-I Associated Infrastructure) - Phaphamau STP & Associated Facility	1-Apr-21	Prayagraj water private limited
54.	PWPL/UPJN/PMCG/160/21	Submission of Valve Schedule (package-I Associated Infrastructure)	1-Apr-21	Prayagraj water private limited
55.	PWPL/UPJN/PMCG/161/21	Submission of Documents of Mechanical + Manual Screens at Basna Nalla SPS for Package-I	1-Apr-21	Prayagraj water private limited
56.	PWPL/UPJN/PMCG/162/21	PE dosing system for Package-I	1-Apr-21	Prayagraj water private limited
57.	PWPL/UPJN/PMCG/163/21	Submission of Datasheet and GAD of Blowers for Package I	2-Apr-21	Prayagraj water private limited
58.	PWPL/UPJN/PMCG/164/21	Submission of Mechanical & Manual Screens for Package-I	2-Apr-21	Prayagraj water private limited
59.	PWPL/UPJN/PMCG/165/21	Submission of Naini I Gas Engine Documents (Part 3)	6-Apr-21	Prayagraj water private limited
60.	PWPL/UPJN/PMCG/166/21	Submission of Mechanical & Manual Screens- Prayagraj Package I	6-Apr-21	Prayagraj water private limited
61.	PWPL/UPJN/PMCG/167/21	Submission of Valve Schedule for Gas Engine at Naini-I STP	6-Apr-21	Prayagraj water private limited
62.	Via E-Mail	Submission of revised documents – Phaphamau BEP	6-Apr-21	Prayagraj water private limited
63.	PWPL/UPJN/PMCG/169/21	Submission of Naini I STP piping drawing_Package II	7-Apr-21	Prayagraj water private limited
64.	Via E-Mail	Submission of revised FEED for Naini II	8-Apr-21	Prayagraj water private limited
65.	Via E-Mail	Submission of Detail construction drawing for Tube Settler Tank _JHUNSI STP	8-Apr-21	Prayagraj water private limited
66.	PWPL/UPJN/PMCG/170/21	Submission of Non clog submersible pumps - Documents	8-Apr-21	Prayagraj water private limited
67.	Via E-Mail	Submission of revised documents – Phaphamau BEP (Mail 1 of 2)	9-Apr-21	Prayagraj water private limited
68.	Via E-Mail	Submission of Datasheet and GAD of Blowers for Package I	9-Apr-21	Prayagraj water private limited

Sr. No.	PWPL Transmittal reference number	Description	Date	From
69.	PWPL/UPJN/PRAYAGRAJ/S ITE /475	Submission of QAP of screen under Package-I.	11-Apr-21	Prayagraj water private limited
70.	PWPL/UPJN/PMCG/171/21	Submission of Civil Drawings for Naini II Process Building	12-Apr-21	Prayagraj water private limited
71.	PWPL/UPJN/PMCG/172/21	Submission of Trash rack Screens at Various Nallas - Package-I	12-Apr-21	Prayagraj water private limited
72.	PWPL/UPJN/PMCG/173/21	Submission of Design Basis for HVAC for Prayagraj STP Package-I	12-Apr-21	Prayagraj water private limited
73.	PWPL/UPJN/PMCG/168/21	Submission of Mawaiya Drain Weir Drawings - Naini II STP	12-Apr-21	Prayagraj water private limited
74.	PWPL/UPJN/PMCG/173/21	Submission of Trash rack Screens at Mahewaghat Nalla and Shashtribridge Nalla	13-Apr-21	Prayagraj water private limited
75.	PWPL/UPJN/PMCG/174/21	Submission of Trash rack Screens at Various Nallas - Package-I	15-Apr-21	Prayagraj water private limited
76.	PWPL/UPJN/PMCG/175/21	Submission of Jhansi STP retaining wall documents-package-I	15-Apr-21	Prayagraj water private limited
77.	PWPL/UPJN/PMCG/176/21	Submission of BEP for Jhansi Associated Infrastructure	15-Apr-21	Prayagraj water private limited
78.	PWPL/UPJN/PMCG/177/21	Submission of revised BEP for Jhansi STP	15-Apr-21	Prayagraj water private limited
79.	PWPL/UPJN/PMCG/178/21	Submission of Design Documents of Saccha Baba Nalla Weir	15-Apr-21	Prayagraj water private limited
80.	PWPL/UPJN/PMCG/179/21	Submission of Lime Handling system for various STP location at Prayagraj STP	17-Apr-21	Prayagraj water private limited
81.	PWPL/UPJN/PMCG/181/21	Submission of revised Documents of Grit Removal Mechanism for STPs (Pxd-1485, Adani Infra)	20-Apr-21	Prayagraj water private limited
82.	PWPL/UPJN/PMCG/182/21	Submission of Design Documents of KHARKAUNI Nalla Weir - Naini II STP	20-Apr-21	Prayagraj water private limited
83.	PWPL/UPJN/PMCG/183/21	Submission of Datasheet and GAD of Blowers for Package I - Grit blowers	20-Apr-21	Prayagraj water private limited
84.	PWPL/UPJN/PMCG/184/21	Submission of Mechanical and Manual Screens - Jhansi STP, Phaphamau STP & Jhansi MPS	20-Apr-21	Prayagraj water private limited

Sr. No.	PWPL Transmittal reference number	Description	Date	From
85.	PWPL/UPJN/PMCG/185/21	Submission of Functional Design Specification of C&I of STP for Package – I of Prayagraj STP Project	20-Apr-21	Prayagraj water private limited
86.	PWPL/UPJN/PMCG/186/21	Submission of Prayagraj Package – I - Knife Gate Valves - Datasheet & GAD	21-Apr-21	Prayagraj water private limited
87.	PWPL/UPJN/PMCG/187/21	Submission of Prayagraj Package – I (complete) : Datasheet & GAD of Sluice, Butterfly & Check Valves	21-Apr-21	Prayagraj water private limited
88.	PWPL/UPJN/PMCG/188/21	Submission of Pkg I - Non clog submersible pumps - Documents	22-Apr-21	Prayagraj water private limited
89.	PWPL/UPJN/PMCG/189/21	Submission of VFD docs for FCR & GRIT Blowers for Package-I	22-Apr-21	Prayagraj water private limited
90.	PWPL/UPJN/PMCG/190/21	Prayagraj Project Package I - Dewatering unit Data sheet- Rewrite/Resubmission	22-Apr-21	Prayagraj water private limited
91.	PWPL/UPJN/PMCG/191/21	Submission of Augharwa Nalla I&D Works (part of Shastri Bridge SPS I&D Works) Design & Drawings	23-Apr-21	Prayagraj water private limited
92.	PWPL/UPJN/PMCG/192/21	Submission of Bhola Mandir Nalla I&D Works (part of Shastri Bridge SPS I&D Works) Design & Drawings	23-Apr-21	Prayagraj water private limited
93.	PWPL/UPJN/PMCG/193/21	Submission of Design Documents of Mahewaghat Drain Weir	23-Apr-21	Prayagraj water private limited
94.	PWPL/UPJN/PMCG/195/21	Submission of Gangoli Shivalaya Nalla 1 I&D Works Design & Drawings	23-Apr-21	Prayagraj water private limited
95.	PWPL/UPJN/PMCG/196/21	Submission of Gangoli Shivalaya Nalla 2 I&D Works (part of Shastri Bridge SPS I&D Works) Design & Drawings	24-Apr-21	Prayagraj water private limited
96.	PWPL/UPJN/PMCG/197/21	Submission of LT Switchgear documents for Package-I (MAIL 1 OF 2)	24-Apr-21	Prayagraj water private limited
97.	PWPL/UPJN/PMCG/198/21	Submission of Savitri Nagar Nalla I&D Works (part of Shastri Bridge SPS I&D Works) Design & Drawings	24-Apr-21	Prayagraj water private limited
98.	PWPL/UPJN/PMCG/199/21	Submission of Dham Nalla I&D Works (part of Shastri Bridge SPS I&D Works) Design & Drawings	24-Apr-21	Prayagraj water private limited

Sr. No.	PWPL Transmittal reference number	Description	Date	From
99.	PWPL/UPJN/PMCG/200/21	Submission of revised Civil Drawings for Process Building Jhunsi	24-Apr-21	Prayagraj water private limited
100.	PWPL/UPJN/PMCG/201/21	Submission of Triveni Marg Nalla 1 I&D Works (part of Shastri Bridge SPS I&D Works) Design & Drawings	25-Apr-21	Prayagraj water private limited
101.	PWPL/UPJN/PMCG/202/21	Submission of Shastri Bridge Nalla I&D Works (part of Shastri Bridge SPS I&D Works) Design & Drawings	25-Apr-21	Prayagraj water private limited
102.	PWPL/UPJN/PMCG/203/21	Submission of DATA SHEET, GA, WIRING AND MANUAL OF PA SYSTEM of C&I of STP for Package – I	25-Apr-21	Prayagraj water private limited
103.	PWPL/UPJN/PMCG/204/21	Submission of Triveni Marg Nalla 2 I&D Works (part of Shastri Bridge SPS I&D Works) Design & Drawings	25-Apr-21	Prayagraj water private limited
104.	PWPL/UPJN/PMCG/205/21	Submission of Ulta Quilla Nalla 1 & 2 I&D Works (part of Shastri Bridge SPS I&D Works) Design & Drawings	25-Apr-21	Prayagraj water private limited
105.	PWPL/UPJN/PMCG/206/21	Submission of Havelia Nalla I&D Works (part of Shastri Bridge SPS I&D Works) Design & Drawings	25-Apr-21	Prayagraj water private limited
106.	PWPL/UPJN/PMCG/207/21	Submission of Lakkar Nalla I&D Works (part of Shastri Bridge SPS I&D Works) Design & Drawings	25-Apr-21	Prayagraj water private limited
107.	PWPL/UPJN/PMCG/208/21	Submission of Shantipuram Nalla Weir Revised Drawing	27-Apr-21	Prayagraj water private limited
108.	PWPL/UPJN/PMCG/209/21	Submission of Basna Nalla Weir Design & Drawings	27-Apr-21	Prayagraj water private limited

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

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

### 14. Status of statutory permits:

Sr. No.	Applicable Permit	Authority	Quantity	Remarks
<b>Phaphmau Facility (Package - I)</b>				
1	Power connection (During commissioning Period)	Electricity Board	2 No.	Under process towards filing the application. Will be applied before commissioning stage. Location: - 1. At Phaphmau STP 2. At Basna Nalla SPS
2	Consent to Establish	State Pollution Control Board (SPCB)	1 No.	Received
3	Tree cutting	Forest Department	88 No.	Received NOC From Forest Dept for Cutting 88 Nos. of trees.
4	Road cutting & crossing	Public Works Department	NA	Not Required
5	Railway Crossing	Commissioner Railway Safety	NA	Not Required
6	National Highway cutting & crossing	National Highway Authority of India	1 No.	Already applied on dated. On dated 26.02.2020, and NHAI inspection completed and report submitted to joint secretariate, Lucknow. Final approval is awaited.
7	Revenue Road cutting & crossing	Panchayat/Local Authority	NA	Not Required

Sr. No.	Applicable Permit	Authority	Quantity	Remarks
8	Obtaining No Objection Certificate for various sewerage facilities under the ULB for handing them over to JN	ULB/District Administration	NA	Not Required
9	Construction of Weirs/pipeline crossings	Irrigation department/ULB	2 No.	Under process towards filing the application, Construction of 2 no. of Weir at; 1. Basna Nalla Drain Tapping 2. Shantipuram Nalla Tapping
10	Approach Road to new Facilities	Forest Department/Panchayat/ Local Authority/Irrigation Department	NA	Not Required
11	Consent to operate for Existing Facilities	ULB and SPCB	1 No.	Will be processed during commissioning stage.
<b>Naini-II Facility (Package - I)</b>				
1	Power connection (During commissioning Period)	Electricity Board	3 No.	Under process towards filing the application. Will be applied before commissioning stage. Location: - 1. At Naini-II STP 2. At Mahewaghat SPS 3. At Mawaiya SPS
2	Consent to Establish	State Pollution Control Board (SPCB)	1 No.	Received
3	Tree cutting	Forest Department	-	Under process towards filing the application. Finalized for laying of trunk sewer line route alignment is under progress.
4	Road cutting & crossing	Public Works Department	1 No.	Already applied on dated 19.10.2020 for STP main line. NOC received from Mahewaghat SPS to Naini-II MPS on 08th Dec'2020.
5	Railway Crossing	Commissioner Railway Safety	1 No.	Already applied on dated 12.11.2020. All Document sought by DRM Prayagraj has been provided on 26.04.2021. DRM Prayagraj moved the file to AEN(Line). Final approval is awaited.





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


Sr. No.	Applicable Permit	Authority	Quantity	Remarks
				forwarded the file to IOW(Line) for permission.
6	National Highway cutting & crossing	National Highway	1 No.	Under process towards filing the application to concern authority. Location: - Underpass Shashtri Bridge
7	Revenue Road cutting & crossing	Panchayat/Local Authority	1 No.	Under process towards filing the application to concern authority. Location: - Shastri Bridge SPS to Jhansi MPS
8	Obtaining No Objection Certificate for various sewerage facilities under the ULB for handing them over to UPJN	ULB/District Administration	NA	Not Required
9	Construction of Weirs/pipeline crossings	Irrigation department/ULB	13 No	Under process towards filing the application, Construction of Weir at 13 nos. Drains. Locations: - 1. Augharwa Nalla 2. Bhola Mandir Nalla 3. Gangoli Shivala Nalla I 4. Gangoli Shivala Nalla II 5. Savitri Nagar Nalla 6. Dham Nalla 7. Sashtri bridge Nalla 8. Triveni Marg Nalla I 9. Triveni Marg Nalla II 10. Ulta Quila Nalla I 11. Ulta Quila Nalla II 12. Havelia Nalla 13. Lakkar Nalla
10	Approach Road to new Facilities	Forest Department/Panchayat/Local Authority/Irrigation Department	NA	Not Required
11	consent to operate for Existing Facilities	ULB and SPCB	1 No	Will be processed during commissioning stage

## 15. Plant & Machinery Status

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

16. Operation and Maintenance report for April month –

<div>  <div> <b>Naini-I STP, 80 MLD STP at Prayagraj</b>  <b>INLET FLOW &amp; QUALITY REPORT</b> </div>  </div>														
Date	Daily Feed Quantity MLD (Design- 80 MLD)		pH		BOD (mg/l)		TSS (mg/l)		FECAL COLIFORM		FRC	DEWATERED SLUDGE		REMARKS
	M3	MLD	Inlet pH (Design- <9)	Final BOD (Design- 6.5 to 9.0)	Inlet BOD (Design- <250 mg/l)	Final BOD (Design - <30 mg/l)	Inlet TSS (Design- <500 mg/l)	FinalTSS (Design - <50 mg/l)	Inlet (Design - NA)	Final (Design - <1000 MPN/100 ml)	Final (Design - 0.2 mg/l)	Outlet Concentration (>20%)	Fecal Coliform (20,00,000 MPN/gTS)	
1-Apr-21	56460	56.46	7.56	7.58	153.00	21.00	344.00	30.00	NA	800	0.2	23.80	1500000.00	1) Currently, reading of flow is taken from old flowmeter at Gaughat MPS as commissioning of flowmeter is not completed at Naini I STP. 2) Plant Availability is 100%. 3) Rehabilitation works for Gas Area of STP is in progress. 4) Rehabilitation work for Gaughat MPS & Chacharnalla SPS is in progress. 5) Sample for sludge testing is taken from sludge drying beds hence the value of sludge consistency cannot be deemed as accurate.
2-Apr-21	68490	68.49	7.44	7.49	159.00	22.00	335.00	38.00	NA	900	0.1	23.00	1400000.00	
3-Apr-21	64450	64.45	7.33	7.38	156.00	24.00	332.00	35.00	NA	600	0.5	23.40	1700000.00	
4-Apr-21	62840	62.84	7.48	7.56	163.00	25.00	338.00	39.00	NA	400	0.4	23.20	1300000.00	
5-Apr-21	63020	63.02	7.52	7.49	159.00	23.00	328.00	32.00	NA	300	0.5	23.30	1500000.00	
6-Apr-21	63910	63.91	7.53	7.54	153.00	20.00	348.00	40.00	NA	500	0.4	24.70	1400000.00	
7-Apr-21	63160	63.16	7.52	7.58	156.00	22.00	348.00	40.00	NA	400	0.5	22.60	1600000.00	
8-Apr-21	61650	61.65	7.51	7.55	159.00	24.00	338.00	35.00	NA	600	0.4	22.10	1300000.00	
9-Apr-21	60770	60.77	7.46	7.49	166.00	21.00	332.00	37.00	NA	300	0.5	22.20	1500000.00	
10-Apr-21	60850	60.85	7.44	7.51	163.00	23.00	328.00	39.00	NA	700	0.4	22.50	1600000.00	
11-Apr-21	60390	60.39	7.46	7.49	159.00	20.00	336.00	32.00	NA	400	0.5	23.40	1400000.00	
12-Apr-21	55620	55.62	7.44	7.46	153.00	22.00	340.00	35.00	NA	900	0.3	22.90	1700000.00	
13-Apr-21	52570	52.57	7.36	7.44	156.00	21.00	328.00	39.00	NA	800	0.2	22.50	1500000.00	
14-Apr-21	56190	56.19	7.54	7.58	160.00	19.00	335.00	33.00	NA	900	0.3	22.90	1400000.00	
15-Apr-21	58420	58.42	7.51	7.63	166.00	22.00	338.00	37.00	NA	700	0.2	22.00	1300000.00	
16-Apr-21	60810	60.81	7.53	7.64	160.00	18.00	333.00	35.00	NA	900	0.3	22.50	1600000.00	
17-Apr-21	57610	57.61	7.51	7.59	153.00	21.00	328.00	36.00	NA	700	0.2	22.00	1500000.00	
18-Apr-21	54180	54.18	7.59	7.66	159.00	19.00	335.00	33.00	NA	800	0.3	22.00	1300000.00	
19-Apr-21	56800	56.80	7.46	7.53	149.00	20.00	331.00	35.00	NA	600	0.2	22.90	1600000.00	
20-Apr-21	54500	54.50	7.39	7.51	153.00	22.00	329.00	37.00	NA	500	0.3	22.50	1700000.00	
21-Apr-21	62940	62.94	7.44	7.55	156.00	20.00	325.00	39.00	NA	700	0.2	22.00	1500000.00	

22-Apr-21	65340	65.34	7.56	7.61	159.00	18.00	330.00	34.00	NA	800	0.3	22.30	1200000.00	
23-Apr-21	59110	59.11	7.48	7.56	163.00	21.00	344.00	36.00	NA	900	0.2	22.50	1400000.00	
24-Apr-21	58430	58.43	7.53	7.59	160.00	19.00	339.00	32.00	NA	600	0.3	22.50	1300000.00	
25-Apr-21	57160	57.16	7.36	7.44	156.00	22.00	329.00	34.00	NA	800	0.2	21.00	1500000.00	
26-Apr-21	51210	51.21	7.39	7.47	153.00	20.00	331.00	36.00	NA	700	0.3	22.10	1600000.00	
27-Apr-21	56510	56.51	7.41	7.56	156.00	18.00	331.00	32.00	NA	900	0.2	21.90	1400000.00	
28-Apr-21	59040	59.04	7.48	7.53	153.00	21.00	327.00	35.00	NA	600	0.2	22.20	1300000.00	
29-Apr-21	56040	56.04	7.56	7.48	149.00	17.00	322.00	30.00	NA	500	0.2	22.70	1500000.00	
30-Apr-21	57880	57.88	7.48	7.55	153.00	18.00	326.00	37.00	NA	700	0.2	21.90	1700000.00	
<b>Average</b>	<b>59211.67</b>	<b>59.21</b>	<b>7.48</b>	<b>7.53</b>	<b>157.10</b>	<b>20.77</b>	<b>333.60</b>	<b>35.40</b>	<b>NA</b>	<b>663.33</b>	<b>0.30</b>	<b>22.58</b>	<b>1473333.33</b>	
<b>Source:</b>	<div>Logbook of Laboratory at Sewage Treatment Plant</div>													



## Rajapur STP, 60 MLD STP at Prayagraj

### INLET FLOW & QUALITY REPORT



Date	Daily Feed Quantity MLD (Design- 60 MLD)		pH		BOD (mg/l)		TSS (mg/l)		FECAL COLIFORM		FRC	DEWATERED SLUDGE		REMARKS
	M3	MLD	Inlet pH (Design- <9)	Final pH (Design- 6.5 to 9.0)	Inlet BOD (Design- <250 mg/l)	Final BOD (Design - <20 mg/l)	Inlet TSS (Design- <500 mg/l)	Final TSS (Design - <30 mg/l)	Inlet (Design - NA)	Final (Design - <1000 MPN/100 ml)	Final (Design - 0.2 mg/l)	Outlet Concentration (>20%)	Fecal Coliform (20,00,000 MPN/gTS)	
1-Apr-21	79510	79.51	7.36	7.74	140.00	15.00	252.00	25.00	NA	600	0.4	23.48	1700000.00	1) Rehabilitation works for STP, Mumfordganj SPS are in progress. 2) Plant Availability is 100%. 3) Sample for sludge testing is taken from sludge drying beds hence the value of sludge consistency cannot be deemed as accurate.
2-Apr-21	80860	80.86	7.46	7.72	128.00	19.00	312.00	29.00	NA	500	0.5	25.82	1400000.00	
3-Apr-21	75590	75.59	7.45	7.79	134.00	14.00	298.00	27.00	NA	400	0.4	24.42	1100000.00	
4-Apr-21	75310	75.31	7.40	7.76	126.00	16.00	308.00	28.00	NA	700	0.3	26.56	1700000.00	
5-Apr-21	75450	75.45	7.45	7.71	130.00	15.00	286.00	26.00	NA	400	0.3	24.20	1300000.00	
6-Apr-21	85400	85.40	7.40	7.76	138.00	18.00	294.00	25.00	NA	500	0.5	22.54	1400000.00	
7-Apr-21	80430	80.43	7.42	7.72	134.00	17.00	269.00	28.00	NA	700	0.5	26.40	1700000.00	
8-Apr-21	77370	77.37	7.46	7.68	128.00	15.00	290.00	27.00	NA	700	0.4	25.48	1300000.00	
9-Apr-21	77300	77.30	7.45	7.70	132.00	14.00	288.00	29.00	NA	600	0.5	23.50	1400000.00	
10-Apr-21	78990	78.99	7.48	7.73	126.00	16.00	258.00	27.00	NA	500	0.4	25.86	1300000.00	
11-Apr-21	75900	75.90	7.46	7.71	130.00	15.00	290.00	25.00	NA	400	0.3	24.80	1700000.00	
12-Apr-21	81120	81.12	7.42	7.74	136.00	18.00	264.00	28.00	NA	600	0.5	26.88	1400000.00	
13-Apr-21	77640	77.64	7.48	7.70	132.00	15.00	296.00	26.00	NA	500	0.3	24.80	1300000.00	
14-Apr-21	79380	79.38	7.45	7.67	124.00	17.00	282.00	25.00	NA	700	0.3	27.42	1700000.00	
15-Apr-21	78850	78.85	7.42	7.71	130.00	19.00	305.00	27.00	NA	600	0.4	26.54	1100000.00	
16-Apr-21	76810	76.81	7.38	7.72	134.00	15.00	276.00	25.00	NA	400	0.4	25.54	1400000.00	
17-Apr-21	75650	75.65	7.45	7.70	120.00	14.00	292.00	28.00	NA	500	0.5	22.82	1300000.00	
18-Apr-21	78110	78.11	7.42	7.72	126.00	16.00	263.00	29.00	NA	700	0.4	24.62	1400000.00	
19-Apr-21	77530	77.53	7.46	7.70	132.00	17.00	285.00	26.00	NA	500	0.5	25.75	1700000.00	
20-Apr-21	78090	78.09	7.45	7.69	124.00	15.00	268.00	27.00	NA	600	0.3	22.52	1700000.00	
21-Apr-21	80870	80.87	7.40	7.68	130.00	18.00	295.00	28.00	NA	400	0.4	21.45	1100000.00	
22-Apr-21	80610	80.61	7.42	7.70	120.00	19.00	245.00	28.00	NA	600	0.4	24.55	1400000.00	
23-Apr-21	78950	78.95	7.48	7.66	126.00	17.00	278.00	25.00	NA	600	0.3	22.74	1700000.00	
24-Apr-21	78020	78.02	7.46	7.71	130.00	15.00	288.00	27.00	NA	500	0.5	25.70	1100000.00	
25-Apr-21	78040	78.04	7.42	7.70	128.00	16.00	298.00	29.00	NA	400	0.4	23.75	1300000.00	
26-Apr-21	78620	78.62	7.45	7.72	124.00	16.00	279.00	26.00	NA	700	0.3	25.70	1400000.00	
27-Apr-21	78750	78.75	7.46	7.70	118.00	18.00	290.00	25.00	NA	500	0.3	21.40	1400000.00	

28-Apr-21	82130	82.13	7.48	7.73	126.00	19.00	275.00	28.00	NA	700	0.2	23.54	1100000.00	
29-Apr-21	76970	76.97	7.43	7.70	122.00	15.00	266.00	25.00	NA	600	0.2	24.58	1300000.00	
30-Apr-21	76210	76.21	7.46	7.73	130.00	14.00	258.00	27.00	NA	400	0.3	21.56	1400000.00	
<b>Average</b>	<b>78482.00</b>	<b>78.48</b>	<b>7.44</b>	<b>7.71</b>	<b>128.60</b>	<b>16.23</b>	<b>281.60</b>	<b>26.83</b>	<b>NA</b>	<b>550.00</b>	<b>0.38</b>	<b>24.50</b>	<b>1406666.67</b>	
<b>Source:</b>	<b>Logbook of Laboratory at Sewage Treatment Plant</b>													