

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

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

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

Monthly Progress Report
of
Project Engineer
January 2022



Executing Agency

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



Funding Agency

National Mission for Clean
Ganga, Ministry of Water
Resources, New Delhi
110002



Project Engineer

AECOM India Pvt. Ltd.,
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Concessionaire

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(SPV of ADANI Enterprise Ltd.
and Organica Technologiak
ZRT)
Adani House, 56 Shri Mall,
Society, Navrangpura,

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1. Introduction

The GoI (Government of India), recognizing that the long-term rejuvenation of the river Ganga will have significant social and economic benefits on the lives of 500 Million people living along its basin, has identified cleaning of the river Ganga as one of its priorities. For this purpose, in May-2015, The Government of India approved the flagship Namami Gange Program for cleaning rejuvenation and protection of river Ganga and its tributaries. In January-2016, The Government of India approved a Hybrid annuity model to implement the STP project under the Namami Gange program on a PPP basis.

Subsequently, the MoWR (Ministry of Water Resources) issued the river Ganga (Rejuvenation, Protection and Management) Authorities Order, 2016 (Ganga 2016 Order) to constitute various authorities to assist the Government of India in achieving its aim of effective abatement of pollution in the river Ganga. The Ganga 2016 order designated NMCG as the nodal agency for implementation of the Ganga 2016 order.

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

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

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

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

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

2. Hybrid Annuity Model (HAM)

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

Considering various development models in practice for the construction, operation and maintenance of Sewage Treatment Plants, Government of India has approved the Hybrid Annuity based Public Private Partnership (PPP) mode as one of the options for the development & operation of STPs. Under this model, private investor/developer will design, build, finance, construct, rehabilitate, renovate, operate and maintain the asset (STPs, IPS, and MPS) to the Project Executing Agency/Jal Nigam at the end of the Concession Period (15 years). 40% of the Capital cost will be paid to the developer during construction of the STP. Balance 60% along with Operation & Maintenance (O&M) cost will be paid over the Concession Period on achievement of key performance indicators as per the contract. Entire cost of development and operation of the STPs will be 100% funded by the Government of India as central sector scheme.

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

3. Objectives

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

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

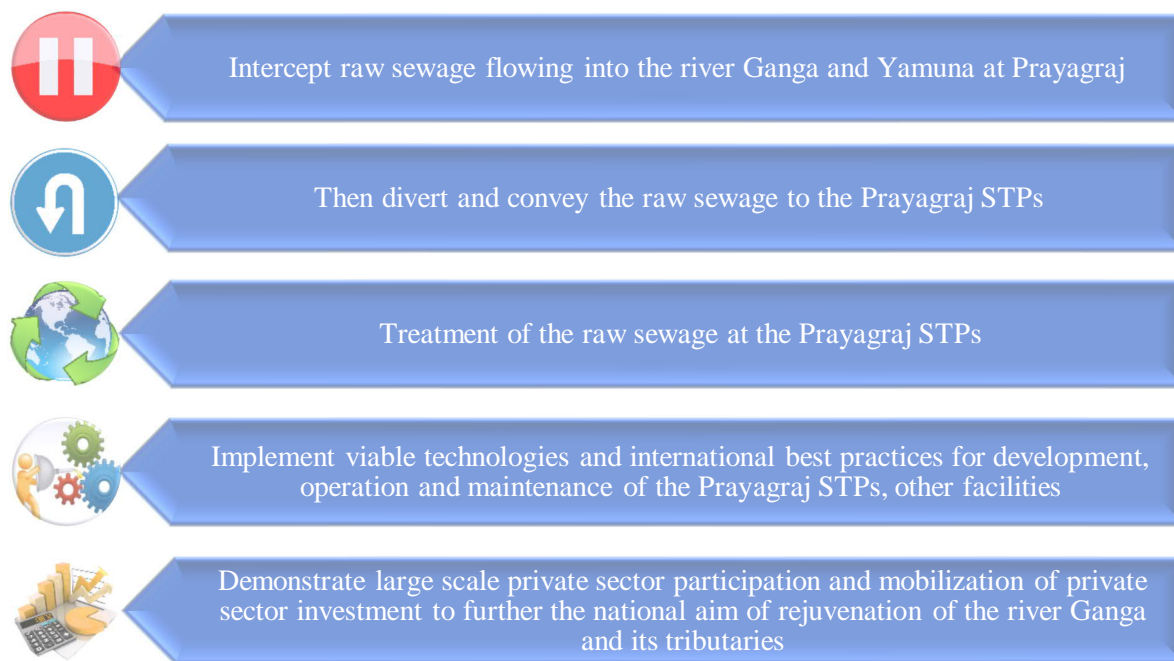


Figure 1 : Objectives of NMCG and UP JAL NIGAM

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

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4. Project at Glance

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

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

5. Site Location



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

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

6. Project Components

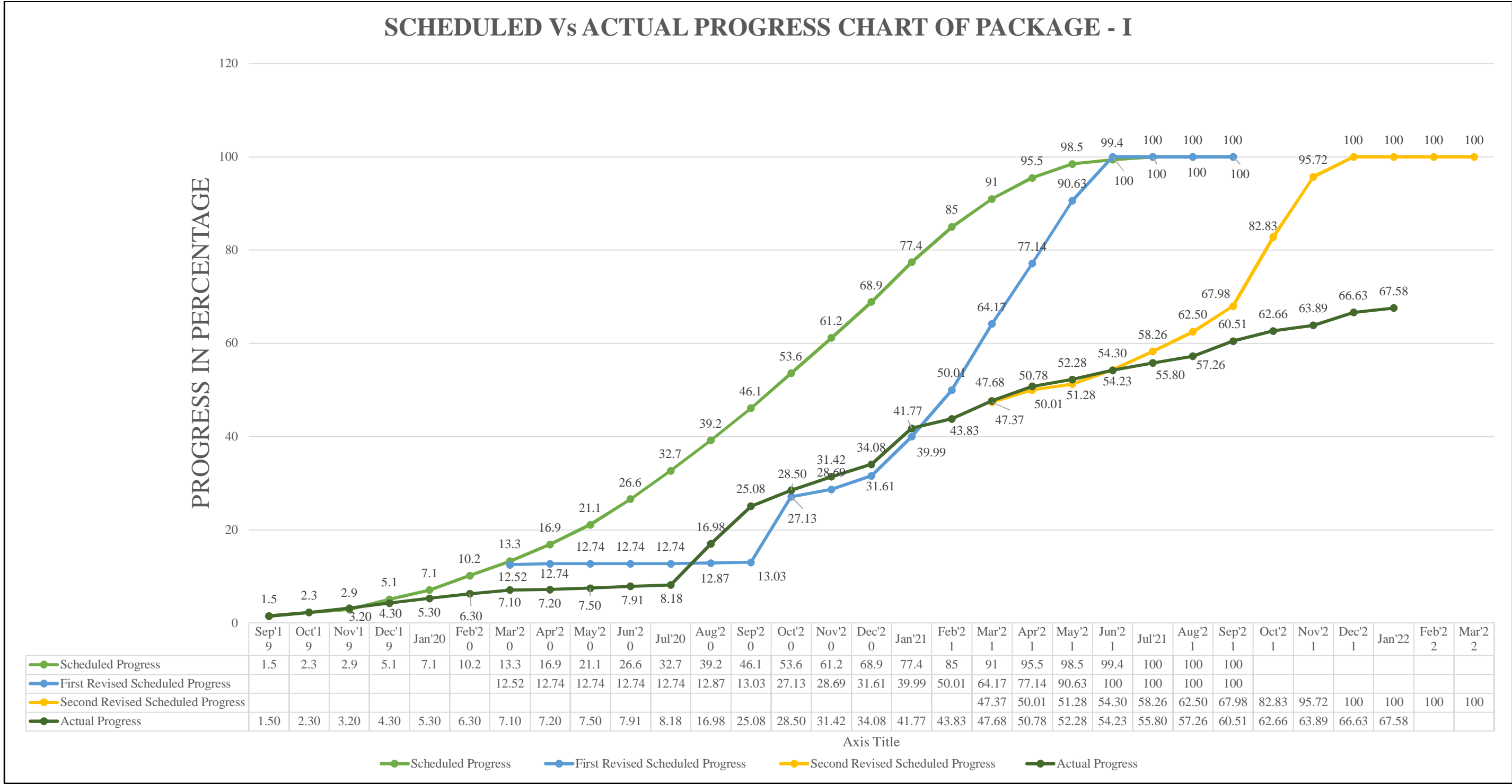
The Project components details of each Facility, their grouping in each Package is presented below

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

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

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

7.1.4 Overall Package-I Progress:



- Project Engineer has provided observation on Concessionaire January'22-month MPR vide letter number AIPL/NMCG/PRAYAG/1336 on dated 14.02.2022 Therefore, status may be change after observation incorporated by Concessionaire.

7.1.5 Physical Activities in January month

| NEW CONSTRUCTION | | | |
|------------------|-----------------------|----------------|---|
| S. No. | Structure Description | Structure Qty. | Status |
| PACKAGE – I | | | |
| PHAPHAMAU STP | | | |
| 1. | FCR tank | 01 No. | <ul style="list-style-type: none"> 100% RCC Work Completed For Hydrotest work is under progress. |
| 2. | Staff Quarter | 01 Nos | <ul style="list-style-type: none"> RCC of roof slab & brick work completed, plastering work under progress. Mumty Slab completed. No work in this Month |
| 3. | MPS | 01 No. | <ul style="list-style-type: none"> MPS RCC work up to 8th lift wall completed. RCC of Inlet chamber wall 6th lift is completed. Slab for common header pipe is completed No Work in this Month. |
| 4. | Tube Settler | 01 No. | <ul style="list-style-type: none"> CCT Area: Tonner room brick work in progress. All other structural casting completed except top level slab. Sludge, holding tank portion: RCC work has been completed up to 6th wall lift out of 7th lift. |
| 5. | Process Building | 01 No | <ul style="list-style-type: none"> 32 Nos. column completed upto bottom of plinth beam. 50% backfilling work completed. No Work in this Month. |
| 6. | Basna Nala SPS | 01 No. | <ul style="list-style-type: none"> Raft completed. 1st Lift wall shuttering work is under progress. |
| NAINI – II STP | | | |
| 7. | FCR tank | 01 No. | <ul style="list-style-type: none"> Civil Construction Completed. Hydrotesting work is under Progress. |
| 8. | Tube Settler | 01 No. | <ul style="list-style-type: none"> Tank A – CCT Sandwich slab Casting completed, 3rd lift of outer and baffle wall casting is completed. 4th lift shuttering work is completed. 3rd Lift wall Casting Completed in Sludge Storage. |

| | | | |
|-----|---|----------|--|
| | | | <ul style="list-style-type: none"> Tank B – 6 hoppers casting completed. 1st lift Wall completed. 2nd lift wall Reinforcement & shuttering work under progress in tube settler. |
| 9. | Staff Quarter | 01 No. | <ul style="list-style-type: none"> Mumty Slab completed, Brick work completed, plastering is under progress |
| 10. | MPS | 01 No. | <ul style="list-style-type: none"> 10th lift of wall casting completed. 11th lift of wall and slab reinforcement work under progress. Inlet Channel Raft & 1st Lift wall Casting Completed. |
| 11. | Process Building | 01 No | <ul style="list-style-type: none"> At Level + 94.25 M & +92.5 M slab casting completed. Above slab Column shuttering work is under progress. Grit Chamber Grade slab & 1st lift wall completed, 2nd lift reinforcement & shuttering work is under progress. |
| 12. | Mahewaghat SPS | 01 No. | <ul style="list-style-type: none"> 8th lift wall casting completed out of 10 lifts. Inlet channel raft casting completed. Battery & Panel room rubble soling work is under progress. |
| 13. | Mawaiya Nalla SPS | 01 No. | <ul style="list-style-type: none"> 5th lift of Wall completed. 6th lift wall & slab reinforcement work under progress. For Common header pipe raft reinforcement work is under progress. Inlet channel raft completed & 1st lift wall shuttering work is under progress. |
| 14. | Boundary Wall | 01 No. | <ul style="list-style-type: none"> Work under progress |
| 15. | DI Pipeline from Mahewaghat to Naini-II (300mm Dia.) | 700 Rmt. | <ul style="list-style-type: none"> Total 688 mtr pipeline laying work is completed No work in this month |
| 16. | DI Pipeline from Mawaiya Nalla to Naini-II (800mm Dia.) | 700 Rmt. | <ul style="list-style-type: none"> Total 687 mtr pipeline laying work is completed No work in this month |
| 17. | RCC 600 dia. From Mahewaghat to Naini-II | 4490 RMT | <ul style="list-style-type: none"> Total 3902 mtr Completed till date. |

| | | | |
|------------|---|----------|---|
| | | | <ul style="list-style-type: none"> Total 100-meter length, 1000 mm dia MS casing pipe pushing completed. No further work due to unavailability of 600mm dia RCC pipe. |
| 18. | RCC 1400 dia. From Mahewaghat to Naini-II | 3050 RMT | <ul style="list-style-type: none"> 2853 m Laying work completed, No Work in this Month |
| 19. | RCC 1600 mm Dia | 880 RMT | <ul style="list-style-type: none"> 705 m Laying work completed, Pipe laying work is under progress. |
| JHUNSI STP | | | |
| 20. | FCR tank | 01 No. | <ul style="list-style-type: none"> Civil and Hydrotesting work completed. |
| 21. | Process Building | 01 No | <ul style="list-style-type: none"> Plinth beam & Column above plinth 75% completed. Reinforcement & shuttering for slab at +92.5 m & +94.0 M is under progress. |
| 22. | Tube Settler | 01 No. | <ul style="list-style-type: none"> Slab at +91.2m & first lift column above slab is completed in CCT portion Sludge, holding tank portion: RCC work has been completed upto Level +91.2 M |
| 23. | MPS | 01 No. | <ul style="list-style-type: none"> RCC of Raft has been completed. Wall upto 6th lift is completed and 7th lift steel and shuttering is under progress. |
| 24. | Security Cabin | 01 No. | <ul style="list-style-type: none"> Putty work under progress |
| 25. | Staff Quarter | 01 No. | <ul style="list-style-type: none"> Putty work under progress |

7.1.6 Physical Activities as per Construction plan:

| 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) |
|--|-----------------------------------|----------------------|--------------------|-----------------------------|--|---------------------------------|-------------------------------|
| Erection Commissioning, Trial Run and COD of Phaphamau STP (14 MLD) & Associated works | | | | | | | |
| 1. | Tree cutting work | 01-01-20 | 31-01-20 | 100 | 100 | 0 | 100 |
| 2. | Dismantling of existing structure | 01-01-20 | 31-01-20 | 100 | 100 | 0 | 100 |
| 3. | FCR tank unit | 01-12-19 | 15-10-21 | | | | |

| Sr. No. | Work description | Scheduled Start Date | Schedule d End Date | Schedul ed Comple tion (In %) | Completi on up to previous month (In %) (A) | This month Completi on (In%) (B) | Total Completi on (In %) (A+B) |
|---------|---|----------------------|---------------------|-------------------------------|---|----------------------------------|--------------------------------|
| 4. | Excavation work | 01-12-19 | 15-03-20 | 100 | 100 | 0 | 100 |
| 5. | Boulder filling work | 15-03-20 | 10-05-20 | 100 | 100 | 0 | 100 |
| 6. | PCC work | 01-10-20 | 09-10-20 | 100 | 100 | 0 | 100 |
| 7. | RCC upto completion | 01-10-20 | 30-09-21 | 100 | 100 | 0 | 100 |
| 8. | Other Misc Works | 09-01-21 | 30-09-21 | 100 | 0 | 0 | 0 |
| 9. | Hydrotesting | 01-10-21 | 15-10-21 | 100 | 0 | 50 | 50 |
| 10. | Tube settler, CCT & Sludge storage Tank | 16-01-21 | 30-10-21 | | | | |
| 11. | Earth work & Boulder filling work | 16-01-21 | 28-02-21 | 100 | 100 | 0 | 100 |
| 12. | PCC work | 01-02-21 | 28-02-21 | 100 | 100 | 0 | 100 |
| 13. | RCC upto completion | 01-02-21 | 15-10-21 | 100 | 83 | 0 | 83 |
| 14. | Other Misc Works | 01-10-21 | 15-10-21 | | | | |
| 15. | Hydrotesting | 15-10-21 | 30-10-21 | | | | |
| 16. | Main Process Building | 01-03-21 | 15-12-21 | | | | |
| 17. | Excavation | 01-03-21 | 03-07-21 | 100 | 100 | 0 | 100 |
| 18. | Rubble soling/ Stone filling work | 03-07-21 | 10-07-21 | 100 | 100 | 0 | 100 |
| 19. | PCC | 10-07-21 | 20-07-21 | 100 | 100 | 0 | 100 |
| 20. | Structure completion (Expect finishing works) | 20--07-21 | 20-10-21 | 100 | 30 | 0 | 30 |
| 21. | Other Misc Works | 15-10-21 | 15-12-21 | | | | |
| 22. | Hydrotesting | 21-10-21 | 31-10-21 | | | | |
| 23. | Basana Nala SPS and I&D Works | 09-01-21 | 15-11-21 | | | | |
| 24. | Excavation work | 09-01-21 | 15-10-21 | 100 | 100 | 0 | 100 |
| 25. | PCC | 16-10-21 | 20-10-21 | 100 | 100 | 0 | 100 |
| 26. | RCC upto completion | 20-10-21 | 09-11-21 | 100 | 0 | 30 | 30 |
| 27. | Hydrotesting | 16-10-21 | 31-10-21 | 100 | 0 | 0 | 0 |
| 28. | Boundary wall | 01-09-21 | 15-11-21 | 100 | 0 | 0 | 0 |
| 29. | Staff quarter | 01-09-21 | 15-11-21 | 100 | 0 | 0 | 0 |
| 30. | Other Misc Works | 01-10-21 | 15-11-21 | 100 | 0 | 0 | 0 |
| 31. | Shantipuram MPS and I&D Works | 01-09-20 | 30-11-21 | | | | |
| 32. | Excavation work | 01-11-20 | 28-03-21 | 100 | 100 | 0 | 100 |

| 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) |
|---------|--|----------------------|--------------------|-----------------------------|--|---------------------------------|-------------------------------|
| 33. | PCC | 28-03-21 | 30-03-21 | 100 | 100 | 0 | 100 |
| 34. | RCC work upto completion | 01-04-21 | 15-10-21 | 100 | 75 | 0 | 75 |
| 35. | Other Misc Works | 16-09-21 | 30-11-21 | 100 | 0 | 0 | 0 |
| 36. | Hydrotesting | 16-11-21 | 30-11-21 | 100 | 0 | 0 | 0 |
| 37. | Staff quarter | 01-09-20 | 30-09-21 | 100 | 90 | 0 | 90 |
| 38. | Pipe laying (Rising Main & Gravity Main) | 16-10-21 | 30-11-21 | | | | |
| 39. | Rising main | 16-10-21 | 30-11-21 | | | | |
| 40. | Excavation, Laying & Jointing, Backfilling/ Restoration works | 16-10-21 | 30-11-21 | 100 | 0 | 0 | 0 |
| 41. | Hydrotesting | 21-11-21 | 30-11-21 | | 0 | 0 | 0 |
| 42. | Gravity Main | 16-10-21 | 30-11-21 | | | | |
| 43. | Excavation, Laying & Jointing, Backfilling/ Restoration works | 16-10-21 | 20-11-21 | 100 | 30 | 10 | 40 |
| 44. | Hydrotesting | 20-11-21 | 30-11-21 | | | | |
| 45. | Other works | 01-01-20 | 15-12-21 | | | | |
| 46. | Site office (Temporary office) | 01-01-20 | 31-01-20 | 100 | 100 | 0 | 100 |
| 47. | Other misc works (Boundary Wall, Road, rainwater harvesting, Land scaping etc) | 16-11-21 | 15-12-21 | | | | |
| 48. | Mechanical Erection- STP unit | 16-10-21 | 15-12-21 | | | | |
| 49. | Pumps | 01-11-21 | 15-12-21 | 100 | | | |
| 50. | Lamella clarifier/ Tube settler | 16-10-21 | 15-12-21 | 100 | | 0 | 0 |
| 51. | Grit removal system | 16-10-21 | 15-12-21 | 100 | | 0 | 0 |
| 52. | Blowers & Diffuser | 16-10-21 | 15-12-21 | 100 | | 0 | 0 |
| 53. | Firefighting System | 16-11-21 | 15-12-21 | 100 | | | |
| 54. | Screens | 01-11-21 | 15-12-21 | 100 | | | |
| 55. | Piping, Valves & Gates | 01-11-21 | 15-12-21 | 100 | | | |

| 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) |
|---------|--|----------------------|--------------------|-----------------------------|--|---------------------------------|-------------------------------|
| 56. | Chlorination | 20-10-21 | 15-12-21 | 100 | | | |
| 57. | Media Installation/ Bio module | 01-11-21 | 15-12-21 | 100 | | | |
| 58. | Other misc. work | 16-11-21 | 15-12-21 | 100 | | | |
| 59. | Mechanical Erection- SPS & MPS | 01-11-21 | 15-12-21 | | | | |
| 60. | Pumps | 01-11-21 | 15-12-21 | 100 | | | |
| 61. | Screens | 01-11-21 | 15-12-21 | 100 | | | |
| 62. | Piping, Valves & Gates | 01-11-21 | 15-12-21 | 100 | | | |
| 63. | Other misc. work | 16-11-21 | 15-12-21 | 100 | | | |
| 64. | Electrical and C&I- STP Unit | 16-10-21 | 15-12-21 | | | | |
| 65. | Transformer Installation | 01-11-21 | 15-12-21 | 100 | | | |
| 66. | HT/LT Panel erection | 01-11-21 | 15-12-21 | 100 | | | |
| 67. | Instrumentation works | 16-10-21 | 15-12-21 | 100 | | 0 | 0 |
| 68. | CCTV | 16-11-21 | 15-12-21 | 100 | | | |
| 69. | Cable Laying | 16-10-21 | 15-12-21 | 100 | | 0 | 0 |
| 70. | PLC Panel & Online monitoring system | 16-10-21 | 15-12-21 | 100 | | 0 | 0 |
| 71. | Solar Panel | 01-11-21 | 15-12-21 | 100 | | | |
| 72. | DG Installation | 16-11-21 | 15-12-21 | 100 | | | |
| 73. | Other misc. work | 16-11-21 | 15-12-21 | 100 | | | |
| 74. | Electrical and C&I- SPS & MPS | 01-10-21 | 15-12-21 | | | | |
| 75. | Transformer Installation | 01-11-21 | 15-12-21 | 100 | | | |
| 76. | HT/LT Panel Erection | 01-10-21 | 15-12-21 | 100 | | 0 | 0 |
| 77. | CABLE LAYING | 01-11-21 | 15-12-21 | 100 | | | |
| 78. | DG Installation | 16-11-21 | 15-12-21 | 100 | | | |
| 79. | PLC Panel & Online monitoring system | 16-10-21 | 15-12-21 | 100 | | 0 | 0 |
| 80. | Other misc. work | 16-11-21 | 15-12-21 | 100 | | | |
| 81. | Commissioning of Mech., Electrical and C&I | 01-12-21 | 15-12-21 | 100 | | | |

| 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) |
|---------|---|----------------------|--------------------|-----------------------------|--|---------------------------------|-------------------------------|
| 82. | Trial Run, Final Inspection and COD | 16-12-21 | 15-03-22 | | | | |
| 83. | Trial Run and Final Inspection | 16-12-21 | 14-03-22 | 25 | | | |
| 84. | COD | 14-03-22 | 15-03-22 | 0 | | | |
| 85. | Erection Commissioning, Trial Run and COD of Naini-II (42 MLD) & Associated works | | | | | | |
| 86. | Removal of shrubs | 01-01-20 | 28-02-20 | 100 | 100 | 0 | 100 |
| 87. | FCR tank unit | 01-02-20 | 30-10-21 | | | | |
| 88. | Excavation work | 01-02-20 | 15-03-20 | 100 | 100 | 0 | 100 |
| 89. | Boulder filling work | 26-10-20 | 30-11-20 | 100 | 100 | 0 | 100 |
| 90. | PCC work | 01-11-20 | 30-11-20 | 100 | 100 | 0 | 100 |
| 91. | RCC work upto completion | 01-12-20 | 15-10-21 | 100 | 98 | 2 | 100 |
| 92. | Other Misc Works | 01-09-21 | 30-09-21 | 100 | 0 | 0 | 0 |
| 93. | Hydrotesting | 15-10-21 | 30-10-21 | 100 | 0 | 50 | 50 |
| 94. | Tube settler, CCT & Sludge storage Tank | 16-01-21 | 31-10-21 | | | | |
| 95. | Earth work & Boulder filling work | 16-01-21 | 22-01-21 | 100 | 100 | 0 | 100 |
| 96. | PCC work | 19-01-21 | 31-01-21 | 100 | 100 | 0 | 100 |
| 97. | RCC work upto completion | 01-03-21 | 20-10-21 | 100 | 45 | 15 | 60 |
| 98. | Other Misc Works | 16-09-21 | 31-10-21 | 100 | 0 | 0 | 0 |
| 99. | Hydrotesting | 20-10-21 | 31-10-21 | 100 | 0 | 0 | 0 |
| 100. | Main Process Building | 01-02-21 | 28-11-21 | 100 | | | |
| 101. | Excavation | 01-02-21 | 31-05-21 | 100 | 100 | 0 | 100 |
| 102. | Rubble soling/ Stone filling work | 01-07-21 | 31-07-21 | 100 | 100 | 0 | 100 |
| 103. | PCC | 01-07-21 | 31-07-21 | 100 | 100 | 0 | 100 |
| 104. | Structure completion (Expect finishing works) | 01-05-21 | 20-10-21 | 100 | 50 | 5 | 55 |
| 105. | Other Misc Works | 06-10-21 | 28-11-21 | 100 | | | |
| 106. | Hydrotesting | 20-10-21 | 31-10-21 | 100 | | | |

| Sr. No. | Work description | Scheduled Start Date | Schedule d End Date | Schedul ed Comple tion (In %) | Completi on up to previous month (In %) (A) | This month Completi on (In%) (B) | Total Completi on (In %) (A+B) |
|---------|---|----------------------|---------------------|-------------------------------|---|----------------------------------|--------------------------------|
| 107. | Mawaiya SPS and I&D work | 01-02-21 | 15-11-21 | | | | |
| 108. | Excavation work | 01-02-21 | 28-02-21 | 100 | 100 | 0 | 100 |
| 109. | PCC | 01-05-21 | 15-06-21 | 100 | 100 | 0 | 100 |
| 110. | RCC WORK upto completion | 15-05-21 | 20-10-21 | 100 | 45 | 05 | 50 |
| 111. | Hydrotesting | 20-10-21 | 31-10-21 | 100 | | | |
| 112. | Boundary wall | 01-09-21 | 31-10-21 | 100 | | | |
| 113. | Staff quarter | 01-09-21 | 31-10-21 | 100 | | | |
| 114. | I&D Other misc works | 01-09-21 | 15-11-21 | 100 | | | |
| 115. | Mahewaghat SPS and I&D work | 01-01-21 | 31-10-21 | | | | |
| 116. | Excavation work | 01-01-21 | 15-04-21 | 100 | 100 | 0 | 100 |
| 117. | PCC | 01-01-21 | 15-04-21 | 100 | 100 | 0 | 100 |
| 118. | RCC Work upto completion | 30-05-21 | 20-10-21 | 100 | 55 | 2 | 57 |
| 119. | Other finishing work | 01-10-21 | 31-10-21 | 100 | 0 | 0 | 0 |
| 120. | Hydrotesting | 20-10-21 | 31-10-21 | 100 | 0 | 0 | 0 |
| 121. | Boundary wall | 01-09-21 | 31-10-21 | 100 | 0 | 0 | 0 |
| 122. | Staff quarter | 01-09-21 | 31-10-21 | 100 | 0 | 0 | 0 |
| 123. | I&D Other misc works | 01-09-21 | 31-10-21 | 100 | 0 | 0 | 0 |
| 124. | Naini-II MPS and I&D work | 26-10-20 | 15-11-21 | | | | |
| 125. | Excavation work | 16-01-21 | 25-04-21 | 100 | 100 | 0 | 100 |
| 126. | PCC | 16-01-21 | 25-04-21 | 100 | 100 | 0 | 100 |
| 127. | RCC Work upto completion | 01-05-21 | 25-10-21 | 100 | 62 | 3 | 65 |
| 128. | Other finishing work | 01-09-21 | 15-11-21 | 100 | 0 | 0 | 0 |
| 129. | Hydrotesting | 20-10-21 | 31-10-21 | 100 | 0 | 0 | 0 |
| 130. | Staff quarter | 26-10-20 | 31-10-21 | 100 | 90 | 0 | 90 |
| 131. | I&D Other misc works | 16-10-21 | 31-10-21 | 100 | 0 | 0 | 0 |
| 132. | Pipe laying (Rising Main & Gravity Main) | 16-01-21 | 31-10-21 | | | | |
| 133. | Rising main | 16-01-21 | 30-10-21 | | | | |

| 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) |
|---------|---|----------------------|--------------------|-----------------------------|--|---------------------------------|-------------------------------|
| 134. | Excavation, Laying & Jointing, Backfilling/ Restoration works | 16-01-21 | 20-09-21 | 100 | 85 | 0 | 85 |
| 135. | Hydrotesting | 01-10-21 | 30-10-21 | 100 | 0 | 0 | 0 |
| 136. | Gravity Main | 01-03-21 | 31-10-21 | | | | |
| 137. | Excavation, Laying & Jointing, Backfilling/ Restoration works | 01-03-21 | 21-10-21 | 100 | 82 | 1 | 83 |
| 138. | Hydrotesting | 21-10-21 | 31-10-21 | 100 | | | |
| 139. | Other works | 01-01-20 | 15-10-21 | | | | |
| 140. | Site office (Temporary office) | 01-01-20 | 31-01-21 | 100 | 100 | 0 | 100 |
| 141. | Other misc works (Boundary Wall, Road, rain water harvesting, Land scaping etc) | 01-03-20 | 15-10-21 | 100 | 75 | 0 | 75 |
| 142. | Mechanical Erection-STP unit | 16-10-21 | 10-12-21 | | | | |
| 143. | Pumps | 16-10-21 | 25-11-21 | 100 | | 0 | 0 |
| 144. | Lamella clarifier/ Tube settler | 16-10-21 | 29-11-21 | 100 | | 0 | 0 |
| 145. | Grit removal system | 16-10-21 | 29-11-21 | 100 | | 0 | 0 |
| 146. | Piping, Valves & Gates | 16-10-21 | 29-11-21 | 100 | | 0 | 0 |
| 147. | Firefighting System | 16-11-21 | 30-11-21 | 100 | | | |
| 148. | Chlorination | 16-10-21 | 29-11-21 | 100 | | 0 | 0 |
| 149. | Blowers & Diffuser | 16-10-21 | 29-11-21 | 100 | | 0 | 0 |
| 150. | screens | 16-10-21 | 29-11-21 | 100 | | 0 | 0 |
| 151. | Media Installation/ Bio module | 16-10-21 | 30-11-21 | 100 | | 0 | 0 |
| 152. | Other misc. work | 16-11-21 | 10-12-21 | | | | |
| 153. | Mechanical Erection-SPS & MPS | 16-10-21 | 15-12-21 | | | | |
| 154. | Pumps | 16-10-21 | 15-12-21 | 100 | | 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) |
|---------|---|----------------------|--------------------|-----------------------------|--|---------------------------------|-------------------------------|
| 155. | Screens | 16-10-21 | 15-12-21 | 100 | | 0 | 0 |
| 156. | Piping, Valves & Gates | 16-10-21 | 15-12-21 | 100 | | 0 | 0 |
| 157. | Other misc. work | 16-11-21 | 15-12-21 | 100 | | | |
| 158. | Electrical and C&I- STP Unit | 16-10-21 | 15-12-21 | | | | |
| 159. | Transformer Installation | 16-11-21 | 15-12-21 | 100 | | | |
| 160. | HT/LT panel erection | 01-11-21 | 15-12-21 | 100 | | | |
| 161. | PLC Panel & Online monitoring system | 16-10-21 | 15-12-21 | 100 | | 0 | 0 |
| 162. | Instrumentation works | 16-10-21 | 15-12-21 | 100 | | 0 | 0 |
| 163. | CCTV | 16-11-21 | 15-12-21 | 100 | | | |
| 164. | CABLE LAYING | 16-10-21 | 15-12-21 | 100 | | 0 | 0 |
| 165. | Solar Panel | 01-11-21 | 15-12-21 | 100 | | | |
| 166. | Other misc. work | 01-12-21 | 15-12-21 | 100 | | | |
| 167. | Electrical and C&I- SPS & MPS | 16-10-21 | 15-12-21 | | | | |
| 168. | Transformer Installation | 01-11-21 | 15-12-21 | 100 | | | |
| 169. | HT/LT panel erection | 16-10-21 | 15-12-21 | 100 | | 0 | 0 |
| 170. | CABLE LAYING | 16-10-21 | 15-12-21 | 100 | | 0 | 0 |
| 171. | DG Installation | 16-11-21 | 15-12-21 | 100 | | | |
| 172. | PLC Panel & Online monitoring system | 16-10-21 | 15-12-21 | 100 | | 0 | 0 |
| 173. | Other misc. work | 16-11-21 | 15-12-21 | 100 | | | |
| 174. | Commissioning of Mech., Electrical and C&I | 01-12-21 | 15-12-21 | 100 | | | |
| 175. | Trial Run, Final Inspection and COD | 16-12-21 | 15-03-22 | | | | |
| 176. | Trial Run and Final Inspection | 16-12-21 | 14-03-22 | 25 | | | |
| 177. | COD | 14-03-22 | 15-03-22 | - | | | |
| 178. | Erection Commissioning, Trial Run and COD of Jhunsi STP (16 MLD) & Associated works | | | | | | |
| 179. | FCR tank unit | 01-10-2020 | 15-11-21 | | | | |


| Sr. No. | Work description | Scheduled Start Date | Scheduled End Date | Scheduled Completion (In %) | Completion up to previous month (In %) (A) | This month Completion (In%) (B) | Total Completion (In %) (A+B) |
|---------|---|----------------------|--------------------|-----------------------------|--|---------------------------------|-------------------------------|
| 180. | Excavation work | 01-10-20 | 25-10-20 | 100 | 100 | 0 | 100 |
| 181. | Boulder filling work | 26-10-20 | 29-10-20 | 100 | 100 | 0 | 100 |
| 182. | PCC work | 30-10-20 | 30-10-20 | 100 | 100 | 0 | 100 |
| 183. | RCC upto completion | 31-10-20 | 15-10-21 | 100 | 100 | 0 | 100 |
| 184. | Other finishing work | 16-09-21 | 15-11-21 | 100 | 0 | 0 | 0 |
| 185. | Hydrotesting | 01-10-21 | 15-10-21 | 100 | 100 | 0 | 100 |
| 186. | Tube settler, CCT & Sludge storage Tank | 01-01-21 | 15-12-21 | | | | |
| 187. | Earth work & Boulder filling work | 01-01-21 | 15-02-21 | 100 | 100 | 0 | 100 |
| 188. | PCC work | 16-02-21 | 28-02-21 | 100 | 100 | 0 | 100 |
| 189. | RCC upto completion | 01-03-21 | 15-11-21 | 100 | 95 | 3 | 98 |
| 190. | Other finishing work | 16-10-21 | 15-12-21 | 100 | | | |
| 191. | Hydrotesting | 21-10-21 | 31-10-21 | 100 | | | |
| 192. | Main Process Building | 01-06-21 | 15-12-21 | | | | |
| 193. | Excavation & Column | 01-06-21 | 16-06-21 | 100 | 100 | 0 | 100 |
| 194. | Rubble soling/ Stone filling work | 16-06-21 | 26-06-21 | 100 | 100 | 0 | 100 |
| 195. | PCC | 26-06-21 | 30-06-21 | 100 | 100 | 0 | 100 |
| 196. | Structure completion (Expect finishing works) | 01-06-21 | 24-10-21 | 100 | 40 | 2 | 42 |
| 197. | Other finishing work | 01-09-21 | 15-12-21 | | | | |
| 198. | Hydrotesting | 24-10-21 | 31-10-21 | | | | |
| 199. | Shastri bridge SPS and I&D work | 01-09-21 | 15-12-21 | | | | |
| 200. | Excavation work | 01-09-21 | 30-09-21 | 100 | | | |
| 201. | PCC | 01-09-21 | 30-09-21 | 100 | | | |
| 202. | RCC upto completion | 01-09-21 | 20-10-21 | 100 | | | |
| 203. | Other finishing work | 30-10-21 | 15-12-21 | | | | |
| 204. | Hydrotesting | 16-10-21 | 29-10-21 | | | | |
| 205. | Boundary wall | 01-09-21 | 15-12-21 | | | | |
| 206. | Staff quarter | 01-09-21 | 21-11-21 | | | | |
| 207. | Other Misc works | 10-12-21 | 15-12-21 | 100 | 0 | 0 | 0 |

| 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) |
|---------|---|----------------------|--------------------|-----------------------------|--|---------------------------------|-------------------------------|
| 208. | Jhunsi MPS and I&D work | 01-09-20 | 30-11-21 | | | | |
| 209. | Excavation work | 01-08-21 | 30-06-21 | 100 | 100 | 0 | 100 |
| 210. | PCC | 01-09-21 | 07-09-21 | 100 | 100 | 0 | 100 |
| 211. | RCC upto completion | 07-09-21 | 20-10-21 | 100 | 50 | 5 | 55 |
| 212. | Other finishing work | 01-10-21 | 31-10-21 | 100 | | | |
| 213. | Hydrotesting | 21-10-21 | 31-10-21 | 100 | | | |
| 214. | Staff quarter | 01-09-20 | 30-09-21 | 100 | 90 | 2 | 92 |
| 215. | Other Misc works | 16-11-21 | 30-11-21 | 100 | | | |
| 216. | Pipe laying (Rising Main & Gravity Main) | 16-09-21 | 15-11-21 | | | | |
| 217. | Rising main | 01-09-21 | 31-10-21 | | | | |
| 218. | Excavation, Laying & Jointing, Backfilling/ Restoration works | 01-09-21 | 15-10-21 | 100 | 25 | 0 | 25 |
| 219. | Hydrotesting | 16-10-21 | 31-10-21 | 100 | 0 | 0 | 0 |
| 220. | Gravity Main | 01-09-21 | 15-11-21 | | | | |
| 221. | Excavation, Laying & Jointing, Backfilling/ Restoration works | 16-09-21 | 31-10-21 | 100 | 0 | 0 | 0 |
| 222. | Hydrotesting | 01-11-21 | 15-11-21 | 100 | 0 | 0 | 0 |
| 223. | Other works | 01-02-20 | 15-12-21 | | | | |
| 224. | Site office (Temporary office) | 01-02-20 | 30-04-20 | 100 | 100 | 0 | 100 |
| 225. | Other misc works (Boundary Wall, Road, rain water harvesting, Land scaping etc) | 16-10-21 | 15-12-21 | 100 | 0 | 0 | 0 |
| 226. | Mechanical Erection- STP unit | 01-11-21 | 15-12-21 | | | | |
| 227. | Pumps | 01-11-21 | 15-12-21 | 100 | | | |
| 228. | Lamella clarifier/ Tube settler | 01-11-21 | 15-12-21 | 100 | | | |

| 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) |
|---------|--------------------------------------|----------------------|--------------------|-----------------------------|--|---------------------------------|-------------------------------|
| 229. | Fire fighting System | 16-11-21 | 15-12-21 | 100 | | | |
| 230. | Chlorination | 01-11-21 | 15-12-21 | 100 | | | |
| 231. | Grit removal system | 01-11-21 | 15-12-21 | 100 | | | |
| 232. | Blowers & Diffuser | 01-11-21 | 15-12-21 | 100 | | | |
| 233. | Screens | 01-11-21 | 15-12-21 | 100 | | | |
| 234. | Piping, Valves & Gates | 01-11-21 | 15-12-21 | 100 | | | |
| 235. | Media Installation/ Bio module | 01-11-21 | 15-12-21 | 100 | | | |
| 236. | Other misc. work | 16-11-21 | 15-12-21 | 100 | | | |
| 237. | Mechanical Erection- SPS & MPS | 16-10-21 | 15-12-21 | | | | |
| 238. | Pumps | 16-10-21 | 15-12-21 | 100 | | 0 | 0 |
| 239. | Screens | 01-11-21 | 11-12-21 | 100 | | | |
| 240. | Piping, Valves & Gates | 01-11-21 | 15-12-21 | 100 | | | |
| 241. | Other misc. work | 16-11-21 | 15-12-21 | 100 | | | |
| 242. | Electrical and C&I- STP Unit | 01-11-21 | 15-12-21 | | | | |
| 243. | Transformer Installation | 16-11-21 | 13-12-21 | 100 | | | |
| 244. | HT/LT panel erection | 01-11-21 | 15-12-21 | 100 | | | |
| 245. | PLC Panel & Online monitoring system | 01-11-21 | 15-12-21 | 100 | | | |
| 246. | Instrumentation works | 01-11-21 | 15-12-21 | 100 | | | |
| 247. | CCTV | 01-11-21 | 10-12-21 | 100 | | | |
| 248. | Cable laying | 01-11-21 | 15-12-21 | 100 | | | |
| 249. | DG Installation | 01-11-21 | 10-12-21 | 100 | | | |
| 250. | Solar Panel | 01-11-21 | 15-12-21 | 100 | | | |
| 251. | Other misc. work | 16-11-21 | 15-12-21 | 100 | | | |
| 252. | Electrical and C&I- SPS & MPS | 16-10-21 | 15-12-21 | | | | |
| 253. | Transformer Installation | 01-11-21 | 13-12-21 | 100 | | | |
| 254. | HT/LT Panel erection | 01-11-21 | 15-12-21 | 100 | | | |
| 255. | Cable laying | 01-11-21 | 15-12-21 | 100 | | | |
| 256. | DG Installation | 01-11-21 | 10-12-21 | 100 | | | |
| 257. | PLC Panel & Online monitoring system | 16-10-21 | 15-12-21 | 100 | | 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) |
|---------|--|----------------------|--------------------|-----------------------------|--|---------------------------------|-------------------------------|
| 258. | Other misc. work | 16-11-21 | 15-12-21 | 100 | | | |
| 259. | Commissioning of Mech., Electrical and C&I | 16-10-21 | 15-12-21 | 100 | | 0 | 0 |
| 260. | Trial Run, Final Inspection and COD | 15-12-21 | 15-03-22 | | | | |
| 261. | Trial Run and Final Inspection | 15-12-21 | 14-03-22 | 325 | | | |
| 262. | COD | 14-03-22 | 15-03-22 | | | | |

7.2 Package-II 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
Email- gmganga.allahabad@gmail.com
Dated: 20/ 09 / 2021

Letter no. 2484 /PWPL (Adani) / 496

To,

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

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

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

Ref :- 1. Our office Letter No 2474/PWPL(Adani)/486 dated 18.09.2021
2. Our office Letter No. 2483/PWPL(Adani)/495 dated 20.09.2021

Sir,

With reference to the above mentioned subject, it is to be noted that we have issued the 4th Milestone completion certificate vide Letter No. 2474/PWPL(Adani)/486 dated 18.09.2021 & Rehabilitation Completion Certificate vide Letter No. 2483/PWPL(Adani)/495 dated 20.09.2021 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-

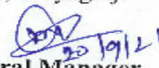
| Sl. No. | Description | Commercial Operations Date (COD) |
|---------|-----------------------------------|----------------------------------|
| 1 | Rehabilitation works under Pkg-II | 01.06.2021 |

(M.C. Srivastava)
General Manager

End No & date: As above.

Copy to following for information and necessary action

- 1- Executive Director(Projects), NMCG, New Delhi.
- 2- Chief Engineer (Ganga), U.P. Jal Nigam Lucknow.
- 3- Chief Engineer (Prayagraj Zone), U.P. Jal Nigam, Prayagraj.
- 4- Mr. Rajat Gupta, Sr. Specialist, NMCG, New Delhi.
- 5- Project Manager (I/E&M), Ganga Pollution Control Unit, U.P. Jal Nigam, Prayagraj.
- 6- AECOM India Pvt. Ltd. (Project Engineer), Gurgaon.


General Manager

Commercial Operations Date was announced on 01.06.2021 vide letter no. 2484/PWPL (Adani)/496

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, 2684891, फैक्स 0532-2684896
Dated: 02/11/2020

Letter No. 2336/PWPL(Adani)/423

To,

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

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

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

Sir,

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

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

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

Yours faithfully

General Manager

Endt No. & and date as above:

Copy to following:

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

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

8. Meetings, Discussions and Site Visits:

Regular progress review meetings are being held at UPJN office & sites. Following meetings were held during the month of January' 2022.

| Sr. No. | Site Visit & Meeting with UPJN / NMCG / PWPL | Date | Attendees | Description |
|---------|--|-----------|--------------------|---|
| 1. | Site inspection of Naini-II STP | 1-Jan-22 | Mr. Nishant Bagde | Inspection, supervision and monitoring of ongoing Civil activities |
| 2. | Site inspection of Jhunsi STP | 4-Jan-22 | Mr. Abhishek Singh | Inspection, supervision and monitoring of ongoing Civil activities |
| 3. | Site inspection of Rajapur | 5-Jan-22 | Mr. Gaurav Gupta | Inspection, supervision and monitoring of ongoing E&M activities and operation and maintenance of plant |
| 4. | Site inspection of Phaphamau STP | 5-Jan-22 | Mr. Wahab Alam | Inspection, supervision and monitoring of ongoing Civil activities |
| 5. | Site inspection of Naini-II STP | 7-Jan-22 | Mr. Amit Ranjan | Inspection, supervision and monitoring of ongoing Civil activities |
| 6. | Site inspection of Jhunsi STP | 8-Jan-22 | Mr. Abhishek Singh | Inspection, supervision and monitoring of ongoing Civil activities |
| 7. | Site inspection of Phaphamau STP | 10-Jan-22 | Mr. Wahab Alam | Inspection, supervision and monitoring of ongoing Civil activities |
| 8. | Site inspection of Rajapur STP | 12-Jan-22 | Mr. Sudhir Tomar | Inspection, supervision and monitoring of ongoing E&M activities and operation and maintenance of plant |
| 9. | Site inspection of Naini-II STP | 13-Jan-22 | Mr. Nishant Bagde | Inspection, supervision and monitoring of ongoing Civil activities |
| 10. | Site inspection of Naini-I STP | 16-Jan-22 | Mr. Gaurav Gupta | Inspection, supervision and monitoring of ongoing E&M activities and operation and maintenance of plant |
| 11. | Site inspection of Rajapur STP | 18-Jan-22 | Mr. Sudhir Tomar | Inspection, supervision and monitoring of ongoing E&M activities and operation and maintenance of plant |

| Sr. No. | Site Visit & Meeting with UPJN / NMCG / PWPL | Date | Attendees | Description |
|---------|--|-----------|--------------------|---|
| 12 | Site inspection of Naini-II STP | 19-Jan-22 | Mr. Amit Ranjan | Inspection, supervision and monitoring of ongoing Civil activities |
| 13 | Site inspection of Phaphamau STP | 20-Jan-22 | Mr. Wahab Alam | Inspection, supervision and monitoring of ongoing Civil activities |
| 14 | Site inspection of Phaphamau | 25-Jan-22 | Mr. Nishant Bagde | Inspection, supervision and monitoring of ongoing Civil activities |
| 15 | Site inspection of Jhunsi STP | 28-Jan-22 | Mr. Abhishek Singh | Inspection, supervision and monitoring of ongoing Civil activities |
| 16 | Site inspection of Rajapur STP | 29-Jan-22 | Mr. Gaurav Gupta | Inspection, supervision and monitoring of ongoing E&M activities and operation and maintenance of plant |
| 17 | Site inspection of Jhunsi STP | 31-Jan-22 | Mr. Amit Ranjan | Inspection, supervision and monitoring of ongoing Civil activities |

11. Outward Register

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

| Sr. No. | PE Transmittal/ Ref No | Description | Outward Date | To (Organization) | Copies To |
|---------|------------------------|--|--------------|---|--|
| 1. | AIPL/NMCG/PRAYAG/1292 | Observation on After coolers for STP Package-I. | 3-Jan-2022 | The General Manager, Ganga Pollution Control Unit | 1. NMCG, 2. E&M-2 Circle-UPJN 3. PM-I &-UPJN 4. E.E-2 Circle-UPJN 5. M/s PWPL, Prayagraj |
| 2. | AIPL/NMCG/PRAYAG/1297 | Observation on Distribution Transformer documents for Pkg I | 10-Jan-2022 | The General Manager, Ganga Pollution Control Unit | 1. NMCG, 2. E&M-2 Circle-UPJN 3. PM-I &-UPJN 4. E.E-2 Circle-UPJN 5. M/s PWPL, Prayagraj |
| 3. | AIPL/NMCG/PRAYAG/1299 | Observation on Mawaiya Nalla, Saccha Baba Nalla & Kharkauni Nalla Weir Revised Design & Drawings | 10-Jan-2022 | The General Manager, Ganga Pollution Control Unit | 1. NMCG, 2. E&M-2 Circle-UPJN 3. PM-I &-UPJN 4. E.E-2 Circle-UPJN 5. M/s PWPL, Prayagraj |
| 4. | AIPL/NMCG/PRAYAG/1300 | Gate Documents_STP_Prayagraj_Package I | 12-Jan-2022 | The General Manager, Ganga Pollution Control Unit | 1. NMCG, 2. E&M-2 Circle-UPJN 3. PM-I &-UPJN 4. E.E-2 Circle-UPJN 5. M/s PWPL, Prayagraj |
| 5. | AIPL/NMCG/PRAYAG/1304 | Package I_Prayagraj HAM project_revisOutfall/disposal piping for Jhunsi STP_ed R1 | 17-Jan-2022 | The General Manager, Ganga Pollution Control Unit | 1. NMCG, 2. E&M-2 Circle-UPJN 3. PM-I &-UPJN 4. E.E-2 Circle-UPJN 5. M/s PWPL, Prayagraj |

| Sr. No. | PE Transmittal/ Ref No | Description | Outward Date | To (Organization) | Copies To |
|---------|------------------------|---|--------------|--|--|
| 6. | AIPL/NMCG/PRAYAG/1306 | Observation on Distribution Transformer documents for Pkg I | 21-Jan-2022 | The General Manager, Ganga Pollution Control Unit | 1. NMCG, 2. E&M-2 Circle-UPJN 3. PM-I &-UPJN 4. E.E-2 Circel-UPJN 5. M/s PWPL, Prayagraj |
| 7. | AIPL/NMCG/PRAYAG/1311 | Observation on Valve Schedule (package-I Associated Infrastructure) - Phaphamau STP & Associated Facility | 27-Jan-2022 | The General Manager, Ganga Pollution Control Unit | 1. NMCG, 2. E&M-2 Circle-UPJN 3. PM-I &-UPJN 4. E.E-2 Circel-UPJN 5. M/s PWPL, Prayagraj |
| 8. | AIPL/NMCG/PRAYAG/1312 | Observation on Valve Schedule of Jhansi STP & Associate infrastructure of Package I | 27-Jan-2022 | The General Manager, Ganga Pollution Control Unit | 1. NMCG, 2. E&M-2 Circle-UPJN 3. PM-I &-UPJN 4. E.E-2 Circel-UPJN 5. M/s PWPL, Prayagraj |
| 9. | AIPL/NMCG/PRAYAG/1313 | Observation on Valve Schedule of Naini-II STP & Associate infrastructure of Package I | 27-Jan-2022 | The General Manager, Ganga Pollution Control Unit | 1. NMCG, 2. E&M-2 Circle-UPJN 3. PM-I &-UPJN 4. E.E-2 Circel-UPJN 5. M/s PWPL, Prayagraj |

12. Inward Register

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

| Sr. No. | PWPL Transmittal reference number | Description | Date | From |
|---------|-----------------------------------|--|-----------|---------------------------------|
| 1. | PWPL/UPJN/PMCG/001/22 | Gate Documents_STP_Prayagraj_Package I | 12-Jan-22 | Prayagraj water private limited |
| 2. | PWPL/UPJN/PMCG/002/22 | Submission of Miscellaneous crane & Hoist drawing/documents for various STP location at Prayagraj STP (Package-I) | 18-Jan-22 | Prayagraj water private limited |
| 3. | PWPL/UPJN/PMCG/003/22 | Submission of Miscellaneous crane & Hoist drawing/documents for various STP location at Prayagraj STP (Package-I) | 18-Jan-22 | Prayagraj water private limited |
| 4. | PWPL/UPJN/PMCG/004/22 | Submission of Distribution Transformer documents for Pkg I | 18-Jan-22 | Prayagraj water private limited |
| 5. | PWPL/UPJN/PMCG/005/21 | Submission of Aftercoolers documents | 18-Jan-22 | Prayagraj water private limited |
| 6. | PWPL/UPJN/PMCG/006/22 | Submission of revised Civil Drawings for Process Building Phaphamau | 19-Jan-22 | Prayagraj water private limited |
| 7. | PWPL/UPJN/PMCG/007/22 | Submission of Triveni Marg Nalla 2, Ulta Quilla Nalla 1&2, Havelia Nalla & Lakkar Nalla I&D Works (part of Shastri Bridge SPS I&D Works) Design & Drawings | 19-Jan-22 | Prayagraj water private limited |
| 8. | PWPL/UPJN/PMCG/008/22 | Outfall/disposal piping for Jhansi STP_Package I | 19-Jan-22 | Prayagraj water private limited |
| 9. | PWPL/UPJN/PMCG/009/22 | Submission of Design Documents of Mahewaghat Drain Weir | 19-Jan-22 | Prayagraj water private limited |
| 10. | PWPL/UPJN/PMCG/010/22 | Submission of Augharwa Nalla, Bhola Mandir Nalla, Gangoli Shivalaya Nalla 1 & 2 I&D Works (part of Shastri Bridge SPS I&D Works) Design & Drawings | 19-Jan-22 | Prayagraj water private limited |

| Sr. No. | PWPL Transmittal reference number | Description | Date | From |
|---------|---|--|-----------|---------------------------------|
| 11. | PWPL/UPJN/PMCG/011/22 | Submission of Valve Schedule Naini II (package-I Associated Infrastructure) | 20-Jan-22 | Prayagraj water private Ltd |
| 12. | PWPL/UPJN/PMCG/012/22 | Submission of Valve Schedule (package-I Associated Infrastructure) - Jhunsi | 20-Jan-22 | Prayagraj water private limited |
| 13. | PWPL/UPJN/PMCG/013/22 | Submission of Valve Schedule (package-I Associated Infrastructure) - Phaphamau STP & Associated Facility | 20-Jan-22 | Prayagraj water private limited |
| 14. | PWPL/UPJN/PMCG/014/22 | Submission of Electrical Design docs for Naini-II MPS : Prayagraj STP | 21-Jan-22 | Prayagraj water private limited |
| 15. | PWPL/UPJN/PMCG/015/22 | Submission of Electrical Design docs for Shantipuram MPS : Prayagraj STP | 21-Jan-22 | Prayagraj water private limited |
| 16. | PWPL/UPJN/PMCG/001/22 (Document_Resubmit) | Gate Documents_STP_Prayagraj_Package I | 31-Jan-22 | Prayagraj water private limited |
| 17. | PWPL/UPJN/PMCG/018/22 | Submission of Kharkauni Nalla Weir Revised Design & Drawings | 29-Jan-22 | Prayagraj water private limited |

13. EHS targets, Achievement & compliance report for the month of January' 2022

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

14. Status of statutory permits:

| Sr. No. | Applicable Permit | Authority | Quantity | Remarks |
|----------------------------------|--|--------------------------------------|----------|--|
| Phaphamau Facility (Package - I) | | | | |
| 1 | Power connection (During commissioning Period) | Electricity Board | 2 No. | Under process towards filing the application. Will be applied before commissioning stage. Location: - 1. At Phaphmau STP 2. At Basna Nalla SPS |
| 2 | Consent to Establish | State Pollution Control Board (SPCB) | 1 No. | Received |
| 3 | Tree cutting | Forest Department | 88 No. | Received NOC From Forest Dept for Cutting 88 Nos. of trees. |
| 4 | Road cutting & crossing | Public Works Department | NA | Not Required |
| 5 | Railway Crossing | Commissioner Railway Safety | NA | Not Required |
| 6 | National Highway cutting & crossing | National Highway Authority of India | 1 No. | 1. License fee & BG amount of 6.67 Cr. & 3.26 Lacs respectively deposited by UPJN to NH authority on 9th Jul'21. 2. Revised estimate charges against road restoration & maintenance charges of Rs 9.32 Cr received by UPJN from NH vide Letter-1115/NH-96/330 dated 5th Aug'21. 3. Letter sent to ED-Project for release of fund vide letter No.2044/PWPL(Adani)/414 Dated 11th Aug'21. 4. Letter written to ED- by UPJN regarding payment of license fee. (2576/PWPL(Adani)/508. 5. Permission Received from NH PWD vide letter no. 70/NH-96/330 dated 12 th Jan 2021. |
| 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. |
| Naini-II Facility (Package - I) | | | | |
| 1 | Power connection (During commissioning Period) | Electricity Board | 3 No. | Under process towards filing the application. Will be applied before commissioning stage. Location: - 1. At Naini-II STP 2. At Mahewaghat SPS 3. At Mawaiya SPS |
| 2 | Consent to Establish | State Pollution Control Board (SPCB) | 1 No. | Received |
| 3 | Tree cutting | Forest Department | - | Under process towards filing the application. Finalized for laying of trunk sewer line route alignment is under progress. |
| 4 | Road cutting & crossing | Public Works Department | 1 No. | NOC received from Mahewaghat SPS to Naini-II MPS on 08th Dec'2020. |

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

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

| Sr. No. | Applicable Permit | Authority | Quantity | Remarks |
|---------|--|---|----------|--|
| | | | | 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

| Sr. No. | Machinery Name | PHAPHAMAU | Naini-II | Jhunsi |
|---------|---------------------------|-----------|----------|--------|
| 1. | JCB | 1 | 4 | - |
| 2. | Dumper | - | - | 1 |
| 3. | Poclain | 1 | 3 | 1 |
| 4. | Ajax | - | 4 | - |
| 5. | Hydra | - | 1 | - |
| 6. | Roller | - | 1 | 1 |
| 7. | Submersible Pump | 2 | 3 | 2 |
| 8. | Diesel Pump 5 HP | 1 | 4 | 1 |
| 9. | 5KV generator | 3 | 5 | 2 |
| 10. | Total Station | - | 1 | 1 |
| 11. | Water tanker | - | 2 | - |
| 12. | Auto level | 1 | 7 | 2 |
| 13. | Mixing machine | - | 3 | - |
| 14. | Vibrator | 4 | 12 | 6 |
| 15. | Tractor | 1 | 9 | 4 |
| 16. | Concrete Chipping machine | 2 | 3 | 1 |
| 17. | Welding Machine | - | 6 | 2 |
| 18. | Grinding Machine | 1 | 7 | 5 |
| 19. | Gas Cutting Set | - | 2 | 1 |
| 20. | Chain Saw Machine | - | 2 | 1 |
| 21. | Chain Block | 1 | - | 1 |
| 22. | RM 800 | 1 | - | - |
| 23. | Plywood Cutting Machine | 2 | 8 | 1 |
| 24. | Steel Cutting Machine | 4 | 10 | 1 |
| | Total | 25 | 82 | 33 |