

NATIONAL MISSION FOR CLEAN GANGA (NMCG)
**MINISTRY OF JAL SHAKTI DEPARTMENT OF WATER RESOURCES,
RIVER DEVELOPMENT & GANGA REJUVENATION, GOVT. OF INDIA**



जल शक्ति मंत्रालय
जल संसाधन, नदी विकास और गंगा संरक्षण विभाग
MINISTRY OF JAL SHAKTI
DEPARTMENT OF WATER RESOURCES,
RIVER DEVELOPMENT & GANGA REJUVENATION

**DEVELOPMENT OF NEW SEWAGE TREATMENT PLANTS,
REHABILITATION OF EXISTING SEWAGE TREATMENT
INFRASTRUCTURE AND O&M FOR 15 YEARS IN KANPUR**

UNDER

**ONE CITY ONE OPERATOR CONCEPT THROUGH HYBRID ANNUITY
BASED PPP MODE (HAM – KANPUR)**

(STC agreement dated 19.04.2019 & LOA: Pr-12012/41/2018-PPP/NMCG dated 04.02.2019)

Monthly Progress Report

Of

Project Engineer

December - 2020



Executing Agency
Uttar Pradesh Jal
Nigam
Benajhabar Road,
Kanpur
Uttar Pradesh -
208002



Funding Agency
National Mission for
Clean Ganga
MoWR, River
Development & Ganga
Rejuvenation,
New Delhi



Project Engineer
Shah technical Consultar
Pvt. Ltd.
117/426 14-O block,
Geeta Nagar
Kanpur
Uttar Pradesh - 208025



Concessionaire
Kanpur River Management
Pvt. Ltd.
Flat no 101,
1st Floor, 3/83, Vishnupuri,
Kanpur, Uttar Pradesh -
208002

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ABBREVIATIONS

| | |
|--------|---|
| ASP | Activated Sludge Process |
| BEP | Basic Engineering Package |
| BOD | Biochemical Oxygen Demand |
| CETP | Common Effluent Treatment Plant |
| COD | Chemical Oxygen Demand |
| COD | Commercial Operation Date |
| CPs | Condition Precedent |
| CTE | Consent To Establish |
| CTO | Consent to Operate |
| DFGs | Dual Fuel Generators |
| DPR | Detailed Project Report |
| ESHS | Environment, Social, Health And Safety |
| GOI | Government of India |
| HAM | Hybrid Annuity Model |
| I&D | Interception & Diversion |
| IPS | Intermediate Pumping Station |
| KPIs | Key Performance Indicators |
| KRMPL | Kanpur River Management Private Limited |
| LOA | Letter of Award |
| MOM | Minutes of Meeting |
| MPS | Main Pumping Station |
| O&M | Operation and Maintenance |
| PLC | Programmable Logic Control |
| PMC | Project Management Consultant |
| PDD | Proposal Due Date |
| PDMC | Project Development and Monitoring Consultant |
| PPP | Public Private Partnership |
| QAP | Quality Assurance Plan |
| RFP | Request for Proposal |
| RTU | Remote Terminal Unit |
| RTOLMS | Real Time Online Monitoring System |
| TOR | Terms of Reference |
| SBR | Sequential Batch Reactors |
| STP | Sewage Treatment Plant |
| TEPH | Treated Effluent Pump House |
| UASB | Up-Flow Anaerobic Sludge Blanket Reactor |

MONTHLY PROGRESS REPORT – HAM KANPUR

1 INTRODUCTION

The Govt. of India, recognizing that long-term rejuvenation of the river Ganga will have significant social and economic benefits on the lives of the 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 GoI approved the flagship Namami Gange programme for cleaning, rejuvenation, and protection of the river Ganga. In January 2016, the GoI approved a hybrid annuity model to implement STP projects under the Namami Gange programme on a PPP basis.

Subsequently, the MoWR issued the River Ganga (Rejuvenation, Protection and Management) Authorities Order, 2016 (Ganga 2016 Order) to constitute various authorities to assist the GoI in achieving its aim of effective abatement of pollution in the river Ganga. The Ganga 2016 Order applies to all states in the catchment of the river Ganga basin, including Uttar Pradesh. The Ganga 2016 Order revised the legal status of NMCG (which was initially constituted as a registered society under the Societies Registration Act, 1860) to an authority constituted under the Environment (Protection) Act, 1986 and designated NMCG as the nodal agency for the 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, in particular, 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.

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 in the State of Uttar Pradesh, the Jal Nigam, in association with NMCG has decided to undertake the development of:

- three new STP facilities (30 MLD Pankha, 15 MLD Unnao & 5 MLD Shuklaganj) and their O&M for 15 years;
- rehabilitation of existing 130 MLD Jajmau Phase-I STP facility with O&M for 15 years and;
- O&M for three existing STP facilities (43 MLD Jajmau Phase-II, 210 MLD Bingawan & 42 MLD Sajari) in Kanpur under Hybrid Annuity based PPP mode.

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.

NMCG & UPJN appointed M/s. Shah Technical Consultant Pvt. Ltd., as third party engineering firm 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 12th April 2019.

3 OBJECTIVES

To achieve above objectives effective development of STPs at Unnao, Shuklaganj and Pankha rehabilitation of existing STPs with O&M for 15 years in Kanpur are proposed under this program. The objectives that NMCG and the UP Jal Nigam wish to achieve through the Project are mentioned in Figure 1.

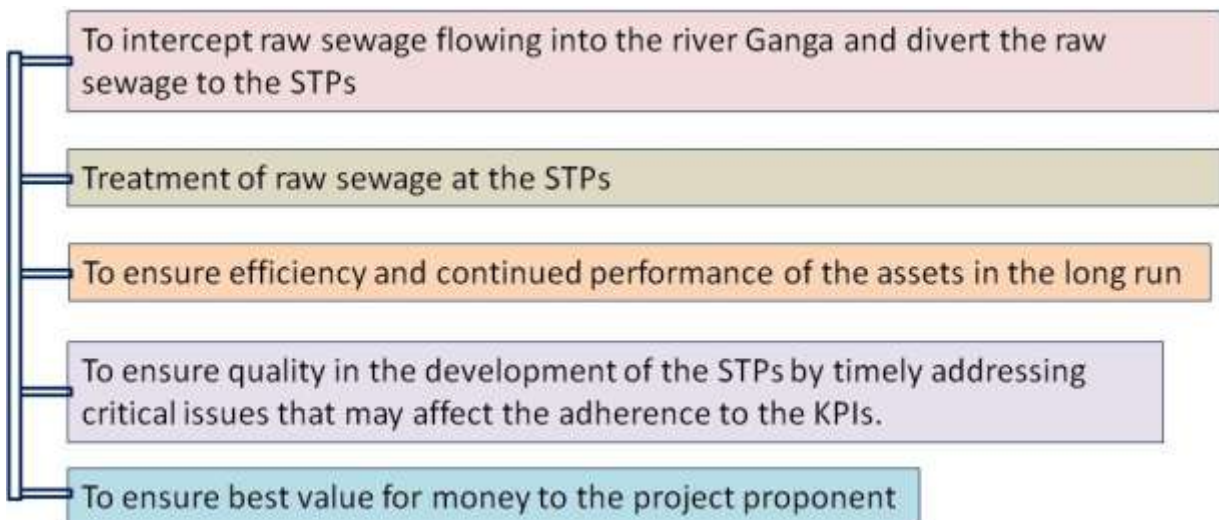


Figure 1: Objectives of NMCG and UP JAL NIGAM

4 HAM KANPUR PROJECT AT A GLANCE

Details of HAM Kanpur project are given in the following table:

Table 2.1: HAM Kanpur Project at a Glance

| Particulars | Description |
|--|--|
| Name of Project | : Development of new Sewage Treatment Plants and O&M for 15 years, Rehabilitation of existing Sewage Treatment Infrastructure and O&M for 15 years in Kanpur under One City One Operator concept through Hybrid Annuity based PPP mode. (HAM – Kanpur) |
| Client | : National Mission for Clean Ganga (NMCG), New Delhi and UP Jal Nigam |
| Execution Agency | : Uttar Pradesh Jal Nigam (UPJN) |
| Consultant | : Shah Technical Consultants (P) Ltd. as ‘Project Engineer’ |
| Agreement &LOA | : STC Agreement dated 12.04.2019 & LOA: Pr-12012/41/2018-PPP/NMCG dated 04.02.2019 |
| Concessionaire | : Kanpur River Management Private Limited (KRMPL) an SPV of Shapoorji Pallonji & Company Private Limited, Mumbai |
| Concessionaire’s Agreement | : 14/GM/2018-19 dated 21.12.2018 |
| Cost of Project (CAPEX+OPEX) | : Rs. 816.25 Cr. (CAPEX 255.50 Cr. + OPEX 560.75 Cr.) |
| Effective Date | : 11.10.2019 |
| Completion date (as per contract) | : 24 Months from effective date (21 months construction + 3 months trial run) |
| O&M period | : 15 years after last Commercial Operation Date (COD) |
| Description of Work | : <ul style="list-style-type: none"> ➤ Construction of three new STPs (SBR) at different locations (30 MLD at Pankha, 15 MLD at Unnao and 5 MLD STP at Shuklaganj) and related infrastructure with 15 years of O&M; ➤ Rehabilitation of 130 MLD (Phase-I) STP at Jajmau with construction of 200 MLD TEPS and 173 MLD CCT at Jajmau with O&M for 15 years; ➤ O&M of 43 MLD (Phase-II) Jajmau facilities, O&M of 210 MLD Bingawan facilities and O&M of 42 MLD Sajari facilities for 15 years; |

5 PROJECT WISE DETAILS OF COMPONENTS UNDER HAM KANPUR PROJECT

HAM Kanpur project is divided into 5 districts of the Kanpur– Pankha (District –III, Kanpur), Unnao & Shuklaganj – (District Unnao), Jajmau – (District I, Kanpur), Bingawan – (District II, Kanpur) and Sajari – (District IV, Kanpur).

Under this project, development and O&M work of total seven STP facilities are proposed in which three new STP facilities based on SBR technology with associated infrastructure have been proposed for - 30 MLD Pankha (District III, Kanpur), 15 MLD Unnao&5 MLD Shuklaganj.

Rehabilitation and O&M for 15 years is proposed for 130 MLD Jajmau STP facilities (Phase-I) and O&M of 210 MLD USAB based Bingawan STP facilities, 43 MLD Jajmau Phase-II and for 42 MLD ASP based Sajari STP facilities for 15 years.

5.1 PANKHA FACILITIES

Project wise components details of Pankha Facilities are given in table 5.1:

Table 5.1: Pankha Facilities

| SN | STP Facilities | Capacity/dia. /size | No. of units/length |
|------|--|------------------------|------------------------|
| | Date of Start- Effective Date (11.10.2019) | | |
| | Scope of Work- New Construction and O&M | | |
| 1.1 | STP | 30 MLD | 1 |
| 1.2 | MPS | 115MLD | 1 |
| 1.3 | ICI Nala IPS | 25 MLD | 1 |
| 1.4 | Sundar Nagar IPS | 20 MLD | 1 |
| 1.5 | Thermal Nala (A)(tapping) | 22 MLD | 1 |
| 1.6 | Thermal Nala (B)(tapping) | 8 MLD | 1 |
| 1.7 | ICI Nala (tapping) | 7.85 MLD | 1 |
| 1.8 | Common Collection chamber | - | 1 |
| 1.9 | Rising main (ICI Nala IPS to collection chamber) | 800mm-φ | 6.91km |
| 1.10 | Rising main (Sundar Nagar IPS to collection chamber) | 800mm-φ | 0.651km |
| 1.11 | Gravity main (Thermal Nala B Tapping to common collection chamber) | | |
| 1.12 | Common Gravity main (collection chamber to MPS) | 2000mm- φ | 1.948Km |
| 1.13 | Sewage network | 350mm-φ | 2.771km |
| | | 400 mm-φ | 1.359km |
| | | 450 mm-φ | 1.272km |
| | | 500 mm-φ | 1.243km |
| | | 600 mm-φ | 1.778km |
| | | 700 mm-φ | 1.487km |
| | | 800 mm-φ | 1.012km |

| | | | |
|-------------|---------------------------|----------------------------|----------------------|
| | | 900 mm-φ | 2.170km |
| | | 1200 mm-φ | 3.634km |
| | | 1600 mm-φ | 1.596km |
| | | 2000 mm-φ | 1.948km |
| 1.14 | Milestones | Date | Amount in Rs. |
| | 1 st Milestone | 12-Oct-2019 to 25-Apr-2020 | 1248,39,750 |
| | 2 nd Milestone | 26-Apr-2020 to 10-Jul-2020 | 1248,39,750 |
| | 3 rd Milestone | 11-Jul-2020 to 24-Sep-2020 | 1248,39,750 |
| | 4 th Milestone | 25-Sep-2020 to 09-Dec-2020 | 1248,39,750 |
| | 5 th Milestone | 10-Dec-2020 to 13-Feb-2021 | 1248,39,750 |
| | 6 th Milestone | 14-Feb-2021 to 21-Apr-2021 | 1248,39,750 |
| | 7 th Milestone | 22-Apr-2021 to 22-Jun-2021 | 1248,39,750 |
| | 8 th Milestone | 23-Jun-2021 to 25-Aug-2021 | 1248,39,750 |

5.2 UNNAO FACILITIES

Project wise components details of Unnao Facilities are given in table 5.2:

Table 5.2: Unnao Facilities

| SN | STP Facilities | | Capacity/ dia. /size | No. of units/length |
|-------------|--|---|-------------------------|---------------------|
| | Date of Start- Effective Date (11.10.2019) | Scope of Work- New Construction and O&M | | |
| 1.1 | STP | | 15 MLD | 1 |
| 1.2 | Sump cum Pump house (MPS) | | 40 MLD | 1 |
| 1.3 | Trunk Sewer | | 1200mm φ | 3.2Km |
| 1.4 | I&D works (Nala tapping) | | 40 MLD | 1 |
| 1.5 | Trash screen | | 7m-1.7m x 0.8m | 1 |
| 1.6 | Grit chamber | | 12m-4m x 1m | 2 |
| 1.7 | Collection chamber | | 3.4m-6.2m x 3m | 1 |
| 1.8 | Rising main (MPS to STP) | | 750mm φ | 100m |
| 1.9 | Rising main (bypass) | | 750mm φ | 100m |
| 1.10 | Effluent distribution chamber | | - | 1 |
| 1.11 | Effluent gravity channel (STP to discharge point) | | 1.5m x 1.0m | 300m |
| 1.12 | Effluent disposal drains | | - | 500m |
| 1.13 | Milestones | Date | Amount in Rs. | |
| | 1 st Milestone | 12-Oct-2019 to 24-Feb-2020 | 478,36,250 | |
| | 2 nd Milestone | 25-Feb-2020 to 15-May-2020 | 478,36,250 | |
| | 3 rd Milestone | 16-May-2020to 30-Jul-2020 | 478,36,250 | |

| | | |
|---------------------------|----------------------------|------------|
| 4 th Milestone | 30-Jul-2020to 14-Oct-2020 | 478,36,250 |
| 5 th Milestone | 15-Oct-2020to 24-Dec-2020 | 478,36,250 |
| 6 th Milestone | 10-Dec-2020 to 01-Mar-2021 | 478,36,250 |
| 7 th Milestone | 02-Mar-2021 to 05-May-2021 | 478,36,250 |
| 8 th Milestone | 06-May-2021to 10-Jul-2021 | 478,36,250 |

5.3 SHUKLAGANJ STP FACILITIES

Project wise components details of Shuklaganj STP are given in table 5.3:

Table 5.3: Shuklaganj Facilities*

| SN | STP Facilities | Capacity/dia./size | No. of units/length |
|------|--|-------------------------|---------------------|
| | Date of Start- Effective Date (11.10.2019) | | |
| | Scope of Work- New Construction and O&M | | |
| 1.1 | STP | 5 MLD* | 1 |
| 1.2 | Sump cum Pump house (MPS) | 20 MLD | 1 |
| 1.3 | Connecting sewer | - | 1 |
| 1.4 | I&D works (Nala tapping) | - | 1 |
| 1.5 | Collection chamber | - | 1 |
| 1.6 | Rising main (MPS to STP) | 500mm ϕ | 50m |
| 1.7 | Rising main (bypass) | 500mm ϕ | 50m |
| 1.8 | Retaining wall | | 1 |
| 1.9 | Effluent channel (STP to discharge point) | 1.5m x1m | 100m |
| 1.10 | Milestones | To be submitted* | |

*CTE for new land has been received in July 2020.Geotech survey is in progress

5.4 JAJMAU (PHASE I) FACILITIES

Project wise components details of Jajmau are given in table 5.4:

Table 5.4: Jajmau Facilities

| SN | STP Facilities | Capacity/dia./size | No. of units/length |
|-----|---|--------------------|---------------------|
| A | Phase-I | | |
| | Date of Start- Effective Date (11.10.2019) | | |
| | Scope of Work- Renovation and O&M | | |
| 1.1 | STP 1 on ASP technology with power Generation | 130 MLD | 1 |
| 1.2 | Sump cum Pump house (TEPH) | 200 MLD | 1 |
| 1.3 | CCT | 173 MLD | 1 |
| 1.4 | Nawabganj IPS | - | 1 |
| 1.5 | Parmat IPS | - | 1 |
| 1.6 | Baba Ghat/Muar mill IPS | - | 1 |

| | | | |
|-----|----------------|---|---|
| 1.7 | GuptarGhat IPS | - | 1 |
| 1.8 | Jajmau CSPA | - | 1 |

5.5 JAJMAU PHASE II STP FACILITY

Project wise components details of Jajmau Phase II are given in table 5.4:

| SN | STP Facilities | Capacity/ dia. /size | No. of units/length |
|-----|---|-------------------------|------------------------|
| | Schedule Handing Over Date- 01.10.2019 | | |
| | Scope of Work- O&M | | |
| 1.1 | STP 2 on ASP technology with power Generation | 43 MLD | 1 |
| 1.2 | Sanjaypuram IPS | - | 1 |
| 1.3 | Khalisa lane IPS | - | 1 |
| 1.4 | Jajmau MPS | - | 1 |

5.6 BINGAWAN FACILITIES

Project wise component detail of Bingawan is given in table 5.5:

Table 5.5: Bingawan Facilities

| SN | STP Facilities | Capacity /dia. /size | No. of units/length |
|-----|---|----------------------------|------------------------|
| | Schedule Handing Over Date- 01.04.2019 | | |
| | Scope of Work- Renovation and O&M for 15 years | | |
| 1.1 | STP on UASB Technology with power generation | 210 MLD | 1 |
| 1.2 | Installation of online monitoring system (RTOLMS) | | L.S. |
| 1.3 | Bingawan MPS | 200 MLD | 1 |
| 1.4 | Rakhimandi IPS | 100 MLD | 1 |
| 1.5 | Halwakhanda IPS | 20 MLD | 1 |
| 1.6 | Munshipurwa IPS | 67 MLD | 1 |
| 1.7 | ShisamauNala (tapping) | 8MLD | 1 |

5.7 SAJARI FACILITIES

Project wise component detail of Sajari is given in table 5.6

Table 5.6: Sajari Facilities

| SN | STP Facilities | Capacity/dia. /size | No. of units/length |
|-----|--|------------------------|------------------------|
| | Schedule Handing Over Date- 11.10.2019 | | |
| | Scope of Work- O&M for 15 years | | |
| 1.1 | STP on ASP technology | 42 MLD | 1 |
| 1.2 | MPS | 42 MLD | 1 |
| 1.3 | Chakeri IPS | 14 MLD | 1 |
| 1.4 | Sanigawan IPS | 14 MLD | 1 |

6 PHYSICAL PROGRESS OF WORK

As per the provision of Concessionaire Agreement, effective date of the project was to be declared before 19th April 2019. Effective date for work execution under HAM Kanpur project was declared on 11th October 2019. Hence, work related to construction / execution of new STP facilities and related infrastructure i.e. Pankha, Unnao & Shuklaganj and renovation of existing facilities i.e. Jajmau 130 MLD started after effective date.

The overall physical progress of the facilities have been taken in the same proportion as financial progress as per milestones in approved Construction Plan. Overall progress can be monitored as project works have been divided in eight milestones each having progress of 12.5%. The scheduled date of project completion is 10th October 2021 i.e. 24 months from the effective date.

6.1 MILESTONE WISE ACTIVITIES AND PROGRESS: PANKHA STP FACILITIES

Milestone wise activities and their progress of work for Pankha STP are given in table 6.1:

Table 6.1: Pankha STP Facilities

| S N | Description of Items | Milestone-1 (From 26th Nov.'19 to 25th Sep'20) | | Achieved against 2nd Milestone | | Milestone-3 (From 26th Nov.'20 to 25th Jan'21) | | Achieved against 3rd Milestone | | Achieved against 4th Milestone | | Achieved against 5th Milestone | |
|--------|--|--|---------------|-----------------------------------|---------------|---|---------------|-----------------------------------|--------------|-----------------------------------|--------------|-----------------------------------|--------|
| | | % | Amount(Rs.) | % | Amount | % | Amount(Rs.) | % | Amount | % | Amount | % | Amount |
| A | Design & Drawing & STP & Sewer Laying works | | | | | | | | | | | | |
| | A. On approval of BEP | 100% | 249,67,950.00 | | | | | | | | | | |
| | B. On approval of design & drawings for Civil & Sewerage works | 100% | 249,67,950.00 | | | | | | | | | | |
| | | | | | | | | | | | | | |
| B | CONSTRUCTION | | | | | | | | | | | | |
| | STP (30 MLD) | | | | | | | | | | | | |
| 1 | SBR Basin Area | | | | | | | | | | | | |
| | CIVIL WORK | | | | | | | | | | | | |
| | Site Clearance | 100% | 2,50,000.00 | | | | | | | | | | |
| | Excavation | 100% | 98,38,400.00 | | | | | | | | | | |
| | PCC | 100% | 147,57,600.00 | | | | | | | | | | |
| | RCC Foundation/Raft | 40% | 98,38,400.00 | 60% | 147,57,600.00 | | - | | | | | | |
| | Wall 50% of total lift work | | - | 100% | 245,96,000.00 | | - | | | | | | |
| | Walls (balance 50% of Total Lift work) | | - | | - | 60% | 147,57,600.00 | 24% | 59,03,040.00 | | | | |
| | Baffle Walls work | | - | | - | | - | | - | 21% | 25,82,580.00 | | |
| | Walkway/Platform | | - | | - | | - | | - | | - | | |
| | Finishing Work | | - | | - | | - | | - | | - | | |
| | MECHANICAL WORK | | | | | | | | | | | | |
| | A. DECANTERS | | | | | | | | | | | | |
| | (i) On supply of machinery/equipment at site | | | | - | | | | - | | - | | |
| | (ii) On completion of erection works | | | | - | | | | - | | - | | |
| | (iii) On completion of Testing of equipment | | | | - | | | | - | | - | | |

| S N | Description of Items | Milestone-1 (From 26th Nov.'19 to 25th Sep'20) | | Achieved against 2nd Milestone | | Milestone-3 (From 26th Nov.'20 to 25th Jan'21) | | Achieved against 3rd Milestone | | Achieved against 4th Milestone | | Achieved against 5th Milestone | |
|--------|--|--|--------------|-----------------------------------|--------------|---|------------------|-----------------------------------|-------------|-----------------------------------|-------------|-----------------------------------|--------|
| | | % | Amount(Rs.) | % | Amount | % | Amount(Rs.) | % | Amount | % | Amount | % | Amount |
| | | | | | - | | | | - | | - | | |
| | B. DIFFUSERS | | | | - | | | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | | | - | | | | - | | - | | |
| | (ii) On completion of erection works | | | | - | | | | - | | - | | |
| | (iii) On completion of Testing of equipment | | | | - | | | | - | | - | | |
| | | | | | - | | | | - | | - | | |
| | C. RAS & SAS PUMPS | | | | - | | | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | | | - | | | | - | | - | | |
| | (ii) On completion of erection works | | | | - | | | | - | | - | | |
| | (iii) On completion of Testing of equipment | | | | - | | | | - | | - | | |
| | | | | | - | | | | - | | - | | |
| | D. PIPES & FITTINGS | | | | - | | | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | | | - | | | | - | | - | | |
| | (ii) On completion of erection works | | | | - | | | | - | | - | | |
| | (iii) On completion of Testing of equipment | | | | - | | | | - | | - | | |
| 2 | Chlorine Contact Tank Area | | | | - | | | | - | | - | | |
| | Site Clearance | 100% | 1,50,000.00 | | - | | - | | - | | - | | |
| | Excavation | 100% | 7,37,880.00 | | - | | - | | - | | - | | |
| | PCC | 100% | 11,06,820.00 | | - | | - | | - | | - | | |
| | RCC Foundation/Raft | | - | 100 % | 46,11,750.00 | | - | | - | | - | | |
| | Wall 50% of total lift work | | - | 100 % | 27,67,050.00 | | - | | - | | - | | |
| | Walls (balance 50% of Total Lift work) | | - | | - | 100% | 27,67,050 .00 | 15 % | 4,15,057.50 | | - | | |
| | Baffle Walls work | | - | | - | | - | | - | 25 % | 9,22,350.00 | | |
| | Finishing Work | | - | | - | | - | | - | | - | | |

| S N | Description of Items | Milestone-1 (From 26th Nov.'19 to 25th Sep'20) | | Achieved against 2nd Milestone | | Milestone-3 (From 26th Nov.'20 to 25th Jan'21) | | Achieved against 3rd Milestone | | Achieved against 4th Milestone | | Achieved against 5th Milestone | |
|--------|--|--|-------------|-----------------------------------|--------------|---|-------------|-----------------------------------|-------------|-----------------------------------|--------|-----------------------------------|--------|
| | | % | Amount(Rs.) | % | Amount | % | Amount(Rs.) | % | Amount | % | Amount | % | Amount |
| 3 | Chlorination House Area | | | | - | | | | - | | - | | |
| | CIVIL WORK | | | | - | | | | - | | - | | |
| | Site Clearance | 100% | 1,00,000.00 | | - | | - | | - | | - | | |
| | Excavation | 100% | 3,68,940.00 | | - | | - | | - | | - | | |
| | PCC | 100% | 5,53,410.00 | | - | | - | | - | | - | | |
| | RCC Foundation/Column footing | | - | 100% | 27,67,050.00 | | - | | - | | - | | |
| | Column & Beam | | - | 50% | 4,61,175.00 | 50% | 4,61,175.00 | 50% | 4,61,175.00 | | - | | |
| | Ground floor Slab | | - | | - | 100% | 9,22,350.00 | | - | | - | | |
| | Column & Beam | | - | | - | | - | | - | | - | | |
| | Roof Slab | | - | | - | | - | | - | | - | | |
| | Brickwork & Plaster | | - | | - | | - | | - | | - | | |
| | Finishing Work | | - | | - | | - | | - | | - | | |
| | MECHANICAL WORK | | | | - | | | | - | | - | | |
| | A. CHLORINATION SYSTEM | | | | - | | | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | | | - | | | | - | | - | | |
| | (ii) On completion of erection works | | | | - | | | | - | | - | | |
| | (iii) On completion of Testing of equipment | | | | - | | | | - | | - | | |
| | | | | | - | | | | - | | - | | |
| | B. HOIST WORKS | | | | - | | | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | | | - | | | | - | | - | | |
| | (ii) On completion of erection works | | | | - | | | | - | | - | | |
| | (iii) On completion of Testing of equipment | | | | - | | | | - | | - | | |
| | | | | | - | | | | - | | - | | |
| | ELECTRICAL & INSTRUMENTATION WORK | | | | - | | | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | | | - | | | | - | | - | | |

| S N | Description of Items | Milestone-1 (From 26th Nov.'19 to 25th Sep'20) | | Achieved against 2nd Milestone | | Milestone-3 (From 26th Nov.'20 to 25th Jan'21) | | Achieved against 3rd Milestone | | Achieved against 4th Milestone | | Achieved against 5th Milestone | |
|--------|--|--|--------------|-----------------------------------|--------------|---|------------------|-----------------------------------|-------------|-----------------------------------|--------|-----------------------------------|--------|
| | | % | Amount(Rs.) | % | Amount | % | Amount(Rs.) | % | Amount | % | Amount | % | Amount |
| | (ii) On completion of erection works | | | | - | | | | - | | - | | |
| | (iii) On completion of Testing of equipment | | | | - | | | | - | | - | | |
| | | | | | - | | | | - | | - | | |
| 4 | Sludge Thickener Area | | | | - | | | | - | | - | | |
| | CIVIL WORK | | | | - | | | | - | | - | | |
| | Site Clearance | 100% | 1,00,000.00 | | - | | - | | - | | - | | |
| | Excavation | 100% | 7,37,880.00 | | - | | - | | - | | - | | |
| | PCC | 100% | 11,06,820.00 | | - | | - | | - | | - | | |
| | RCC Foundation wall/base slab | | - | 100 % | 36,89,400.00 | | - | | - | | - | | |
| | Wall 50% of total lift work | | - | 100 % | 27,67,050.00 | | - | | - | | - | | |
| | Walls (balance 50% of Total Lift work) | | - | | - | 60% | 16,60,230 .00 | | - | | - | | |
| | Finishing Work | | - | | - | | - | | - | | - | | |
| | MECHANICAL WORK | | | | - | | | | - | | - | | |
| | SLUDGE THICKENER MECHANISM | | | | - | | | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | | | - | | | | - | | - | | |
| | (ii) On completion of erection works | | | | - | | | | - | | - | | |
| | (iii) On completion of Testing of equipment | | | | - | | | | - | | - | | |
| 5 | Inlet / Stilling Chamber Area | | | | - | | | | - | | - | | |
| | Site Clearance | | - | 100 % | 50,000.00 | | - | | - | | - | | |
| | Excavation | | - | 100 % | 2,45,960.00 | | - | | - | | - | | |
| | PCC | | - | 100 % | 3,68,940.00 | | - | | - | | - | | |
| | RCC Foundation/Column footing | | - | 100 % | 12,29,800.00 | | - | | - | | - | | |
| | Column & Beam | | - | | - | 100% | 9,22,350. | 30 | 2,76,705.00 | | - | | |

| S N | Description of Items | Milestone-1 (From 26th Nov.'19 to 25th Sep'20) | | Achieved against 2nd Milestone | | Milestone-3 (From 26th Nov.'20 to 25th Jan'21) | | Achieved against 3rd Milestone | | Achieved against 4th Milestone | | Achieved against 5th Milestone | |
|--------|---|--|-------------|-----------------------------------|--------|---|--------------|-----------------------------------|-------------|-----------------------------------|--------|-----------------------------------|--------|
| | | % | Amount(Rs.) | % | Amount | % | Amount(Rs.) | % | Amount | % | Amount | % | Amount |
| | | | | | | | 00 | % | | | | | |
| | RCC Slab | | - | | - | | - | | - | | - | | |
| | RCC Wall | | - | | - | | - | | - | | - | | |
| | Final finishing including Staircases,Railing,Shade,Painting, etc. | | - | | - | | - | | - | | - | | |
| 6 | Manual & Mechanical Fine Bar Screen Chamber Area | | | | | | | | | | | | |
| | Site Clearance | | - | | - | 100% | 50,000.00 | 100% | 50,000.00 | | - | | |
| | Excavation | | - | | - | 100% | 2,45,960.00 | 100% | 2,45,960.00 | | - | | |
| | PCC | | - | | - | 100% | 3,68,940.00 | | - | | - | | |
| | RCC Foundation | | - | | - | 100% | 12,29,800.00 | | - | | - | | |
| | Column & Beam | | - | | - | | - | | - | | - | | |
| | RCC Slab | | - | | - | | - | | - | | - | | |
| | RCC Wall | | - | | - | | - | | - | | - | | |
| | Walkway/Platform | | - | | - | | - | | - | | - | | |
| | Finishing Work | | - | | - | | - | | - | | - | | |
| 7 | Grit Chamber (Mechanical Cleaned) & (Manually Cleaned) | | | | | | | | | | | | |
| | Site Clearance | | - | | - | 100% | 50,000.00 | 100% | 50,000.00 | | - | | |
| | Excavation | | - | | - | 100% | 2,45,960.00 | 70% | 1,72,172.00 | | - | | |
| | PCC | | - | | - | 100% | 3,68,940.00 | | - | | - | | |
| | RCC Foundation | | - | | - | 100% | 12,29,800.00 | | - | | - | | |

| S N | Description of Items | Milestone-1 (From 26th Nov.'19 to 25th Sep'20) | | Achieved against 2nd Milestone | | Milestone-3 (From 26th Nov.'20 to 25th Jan'21) | | Achieved against 3rd Milestone | | Achieved against 4th Milestone | | Achieved against 5th Milestone | |
|--------|--|--|-------------|-----------------------------------|--------|---|-------------|-----------------------------------|--------|-----------------------------------|--------|-----------------------------------|--------|
| | | % | Amount(Rs.) | % | Amount | % | Amount(Rs.) | % | Amount | % | Amount | % | Amount |
| | Column & Beam | | - | | - | | - | | - | | - | | |
| | RCC Slab | | - | | - | | - | | - | | - | | |
| | RCC Wall | | - | | - | | - | | - | | - | | |
| | Walkway/Platform | | - | | - | | - | | - | | - | | |
| | Finishing Work | | - | | - | | - | | - | | - | | |
| | MECHANICAL WORK | | | | - | | | | - | | - | | |
| | A.MECHANICAL FINE SCREEN | | | | - | | | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | | | - | | | | - | | - | | |
| | (ii) On completion of erection works | | | | - | | | | - | | - | | |
| | (iii) On completion of Testing of equipment | | | | - | | | | - | | - | | |
| | B.MANUAL FINE SCREEN | | | | - | | | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | | | - | | | | - | | - | | |
| | (ii) On completion of erection works | | | | - | | | | - | | - | | |
| | (iii) On completion of Testing of equipment | | | | - | | | | - | | - | | |
| | C.GATES | | | | - | | | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | | | - | | | | - | | - | | |
| | (ii) On completion of erection works | | | | - | | | | - | | - | | |
| | (iii) On completion of Testing of equipment | | | | - | | | | - | | - | | |
| | D.CONVEYOR BELTS | | | | - | | | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | | | - | | | | - | | - | | |
| | (ii) On completion of erection works | | | | - | | | | - | | - | | |
| | (iii) On completion of Testing of equipment | | | | - | | | | - | | - | | |
| | E. GRIT MECHANISM | | | | - | | | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | | | - | | | | - | | - | | |
| | (ii) On completion of erection works | | | | - | | | | - | | - | | |
| | (iii) On completion of Testing of equipment | | | | - | | | | - | | - | | |

| S N | Description of Items | Milestone-1 (From 26th Nov.'19 to 25th Sep'20) | | Achieved against 2nd Milestone | | Milestone-3 (From 26th Nov.'20 to 25th Jan'21) | | Achieved against 3rd Milestone | | Achieved against 4th Milestone | | Achieved against 5th Milestone | |
|--------|--------------------------------------|--|-------------|-----------------------------------|--------------|---|--------------|-----------------------------------|--------------|-----------------------------------|--------|-----------------------------------|--------|
| | | % | Amount(Rs.) | % | Amount | % | Amount(Rs.) | % | Amount | % | Amount | % | Amount |
| | | | | | - | | | | - | | - | | |
| 8 | Flow Measurement Channel Area | | | | - | | | | - | | - | | |
| | Site Clearance | | - | | - | 100% | 50,000.00 | 100% | 50,000.00 | | - | | |
| | Excavation | | - | | - | 100% | 2,45,960.00 | 70% | 1,72,172.00 | | - | | |
| | PCC | | - | | - | 100% | 3,68,940.00 | | - | | - | | |
| | RCC Foundation | | - | | - | 100% | 12,29,800.00 | | - | | - | | |
| | Column & Beam | | - | | - | | - | | - | | - | | |
| | RCC Slab | | - | | - | | - | | - | | - | | |
| | RCC Wall | | - | | - | | - | | - | | - | | |
| | Walkway/Platform | | - | | - | | - | | - | | - | | |
| | Finishing Work | | - | | - | | - | | - | | - | | |
| 9 | Admin Bldg Area | | | | - | | | | - | | - | | |
| | Site Clearance | 100% | 1,00,000.00 | | - | | - | | - | | - | | |
| | Excavation | 100% | 3,68,940.00 | | - | | - | | - | | - | | |
| | PCC | 100% | 5,53,410.00 | | - | | - | | - | | - | | |
| | Column footings/Foundation | | - | 100% | 18,44,700.00 | | - | | - | | - | | |
| | Column & Beam | | - | | - | 100% | 18,44,700.00 | 100% | 18,44,700.00 | | - | | |
| | Ground Floor Slab | | - | | - | | - | | - | | - | | |
| | 1st Floor Slab | | - | | - | | - | | - | | - | | |
| | Roof Slab | | - | | - | | - | | - | | - | | |
| | Brickwork & Plaster | | - | | - | | - | | - | | - | | |
| | Finishing Work | | - | | - | | - | | - | | - | | |

| S N | Description of Items | Milestone-1 (From 26th Nov.'19 to 25th Sep'20) | | Achieved against 2nd Milestone | | Milestone-3 (From 26th Nov.'20 to 25th Jan'21) | | Achieved against 3rd Milestone | | Achieved against 4th Milestone | | Achieved against 5th Milestone | |
|--------|--|--|-------------|-----------------------------------|--------|---|-------------|-----------------------------------|--------|-----------------------------------|--------|-----------------------------------|--------|
| | | % | Amount(Rs.) | % | Amount | % | Amount(Rs.) | % | Amount | % | Amount | % | Amount |
| | ELECTRICAL WORK | | | | - | | | | - | | - | | |
| | LT/HT PANEL | | | | - | | | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | | | - | | | | - | | - | | |
| | (ii) On completion of erection works | | | | - | | | | - | | - | | |
| | (iii) On completion of Testing of equipment | | | | - | | | | - | | - | | |
| | PLC/SCADA SYSTEM | | | | - | | | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | | | - | | | | - | | - | | |
| | (ii) On completion of erection works | | | | - | | | | - | | - | | |
| | (iii) On completion of Testing of equipment | | | | - | | | | - | | - | | |
| | | | | | - | | | | - | | - | | |
| 1 0 | Air Blower Room Area | | | | - | | | | - | | - | | |
| | Site Clearance | | - | | - | | - | | - | | - | | - |
| | Excavation | | - | | - | | - | | - | | - | | - |
| | PCC | | - | | - | | - | | - | | - | | - |
| | Column footings/Foundation | | - | | - | | - | | - | | - | | - |
| | Column & Beam | | - | | - | | - | | - | | - | | - |
| | RCC Ground Floor Slab | | - | | - | | - | | - | | - | | - |
| | RCC Roof Slab | | - | | - | | - | | - | | - | | - |
| | Brickwork & Plaster | | - | | - | | - | | - | | - | | - |
| | Finishing Work | | - | | - | | - | | - | | - | | - |
| | MECHANICAL WORK | | | | - | | | | - | | - | | |
| | AIR BLOWER(PUMP) | | | | - | | | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | | | - | | | | - | | - | | |
| | (ii) On completion of erection works | | | | - | | | | - | | - | | |
| | (iii) On completion of Testing of equipment | | | | - | | | | - | | - | | |
| | ELECTRICAL WORK | | | | - | | | | - | | - | | |

| S N | Description of Items | Milestone-1 (From 26th Nov.'19 to 25th Sep'20) | | Achieved against 2nd Milestone | | Milestone-3 (From 26th Nov.'20 to 25th Jan'21) | | Achieved against 3rd Milestone | | Achieved against 4th Milestone | | Achieved against 5th Milestone | |
|--------|--|--|-------------|-----------------------------------|--------|---|-------------|-----------------------------------|--------|-----------------------------------|-----------|-----------------------------------|--------|
| | | % | Amount(Rs.) | % | Amount | % | Amount(Rs.) | % | Amount | % | Amount | % | Amount |
| | AIR BLOWER(MOTOR) | | | | - | | | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | | | - | | | | - | | - | | |
| | (ii) On completion of erection works | | | | - | | | | - | | - | | |
| | (iii) On completion of Testing of equipment | | | | - | | | | - | | - | | |
| 1 1 | Staff Quarter Area | | | | - | | | | - | | - | | |
| | Site Clearance | | - | | - | | - | | - | 10 0 % | 50,000.00 | | |
| | Excavation | | - | | - | | - | | - | | - | | |
| | PCC | | - | | - | | - | | - | | - | | |
| | RCC Foundation/column footing | | - | | - | | - | | - | | - | | |
| | Column & Beam | | - | | - | | - | | - | | - | | |
| | RCC Ground Floor Slab | | - | | - | | - | | - | | - | | |
| | RCC Roof Slab | | - | | - | | - | | - | | - | | |
| | Brickwork & Plaster | | - | | - | | - | | - | | - | | |
| | Electrical work | | - | | - | | - | | - | | - | | |
| | Finishing Work | | - | | - | | - | | - | | - | | |
| 1 2 | Guard Room Area | | | | - | | | | - | | - | | |
| | Site Clearance | | - | | - | | - | | - | 10 0 % | 50,000.00 | | |
| | Excavation | | - | | - | | - | | - | | - | | |
| | PCC | | - | | - | | - | | - | | - | | |
| | RCC Foundation/column footing | | - | | - | | - | | - | | - | | |
| | Column & Beam | | - | | - | | - | | - | | - | | |
| | RCC Ground Floor Slab | | - | | - | | - | | - | | - | | |
| | RCC Roof Slab | | - | | - | | - | | - | | - | | |

| S N | Description of Items | Milestone-1 (From 26th Nov.'19 to 25th Sep'20) | | Achieved against 2nd Milestone | | Milestone-3 (From 26th Nov.'20 to 25th Jan'21) | | Achieved against 3rd Milestone | | Achieved against 4th Milestone | | Achieved against 5th Milestone | |
|--------|--|--|-------------|-----------------------------------|--------|---|-----------------|-----------------------------------|-------------|-----------------------------------|--------|-----------------------------------|--------|
| | | % | Amount(Rs.) | % | Amount | % | Amount(Rs.) | % | Amount | % | Amount | % | Amount |
| | Brickwork & Plaster | | - | | - | | - | | - | | - | | |
| | Electrical work | | - | | - | | - | | - | | - | | |
| | Finishing Work | | - | | - | | - | | - | | - | | |
| 1 3 | Sludge Dewatering System Area (Centrifuge Pump House, Sludge sump & Poly dosing tank) | | | | - | | | | - | | - | | |
| | Site Clearance | | - | | - | 100% | 1,00,000. 00 | 10 0 % | 1,00,000.00 | | - | | |
| | Excavation | | - | | - | 100% | 6,14,900. 00 | 10 0 % | 6,14,900.00 | | - | | |
| | PCC | | - | | - | 100% | 9,22,350. 00 | | - | | - | | |
| | RCC Foundation | | - | | - | | - | | - | | - | | |
| | 1st Column & Beam | | - | | - | | - | | - | | - | | |
| | Ground Floor Slab | | - | | - | | - | | - | | - | | |
| | 2nd Column & Beam | | - | | - | | - | | - | | - | | |
| | RCC Roof Slab | | - | | - | | - | | - | | - | | |
| | Brickwork & Plaster | | - | | - | | - | | - | | - | | |
| | Finishing Work | | - | | - | | - | | - | | - | | |
| | MECHANICAL WORK | | | | - | | | | - | | - | | |
| | CENTRIFUGE UNIT | | | | - | | | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | | | - | | | | - | | - | | |
| | (ii) On completion of erection works | | | | - | | | | - | | - | | |
| | (iii) On completion of Testing of equipment | | | | - | | | | - | | - | | |
| | CENTRIFUGE FEED PUMP | | | | - | | | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | | | - | | | | - | | - | | |
| | (ii) On completion of erection works | | | | - | | | | - | | - | | |

| S N | Description of Items | Milestone-1 (From 26th Nov.'19 to 25th Sep'20) | | Achieved against 2nd Milestone | | Milestone-3 (From 26th Nov.'20 to 25th Jan'21) | | Achieved against 3rd Milestone | | Achieved against 4th Milestone | | Achieved against 5th Milestone | |
|--------|---|--|-------------|-----------------------------------|--------|---|-------------|-----------------------------------|--------|-----------------------------------|--------------|-----------------------------------|--------------|
| | | % | Amount(Rs.) | % | Amount | % | Amount(Rs.) | % | Amount | % | Amount | % | Amount |
| | (iii) On completion of Testing of equipment | | | | - | | | | - | | - | | |
| | POLY DOSING PUMPS | | | | - | | | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | | | - | | | | - | | - | | |
| | (ii) On completion of erection works | | | | - | | | | - | | - | | |
| | (iii) On completion of Testing of equipment | | | | - | | | | - | | - | | |
| 1 4 | Supernatant Recirculation Sump Area | | | | - | | | | - | | - | | |
| | Site Clearance | | - | | - | | - | | - | 10 0 % | 50,000.00 | | - |
| | Excavation | | - | | - | | - | | - | 10 0 % | 7,37,880.00 | | - |
| | PCC | | - | | - | | - | | - | 10 0 % | 11,06,820.00 | | - |
| | RCC Foundation wall/base slab | | - | | - | | - | | - | | - | 10 0 % | 27,67,050.00 |
| | Wall 50% of total lift work | | - | | - | | - | | - | | - | 15 % | 4,15,057.50 |
| | Walls (balance 50% of Total Lift work) | | - | | - | | - | | - | | - | | |
| | Final finishing including Staircases,Railing,Shade,Painting etc. | | - | | - | | - | | - | | - | | |
| | MECHANICAL WORK | | | | - | | | | - | | - | | |
| | PUMPING SYSTEM | | | | - | | | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | | | - | | | | - | | - | | |
| | (ii) On completion of erection works | | | | - | | | | - | | - | | |
| | (iii) On completion of Testing of equipment | | | | - | | | | - | | - | | |
| | | | | | - | | | | - | | - | | |
| 1 5 | Transformer Yard Area | | | | - | | | | - | | - | | |

| S N | Description of Items | Milestone-1 (From 26th Nov.'19 to 25th Sep'20) | | Achieved against 2nd Milestone | | Milestone-3 (From 26th Nov.'20 to 25th Jan'21) | | Achieved against 3rd Milestone | | Achieved against 4th Milestone | | Achieved against 5th Milestone | |
|--------|--|--|-------------|-----------------------------------|--------|---|-------------|-----------------------------------|--------|-----------------------------------|--------|-----------------------------------|--------|
| | | % | Amount(Rs.) | % | Amount | % | Amount(Rs.) | % | Amount | % | Amount | % | Amount |
| | Site Clearance | | - | | - | | - | | - | | - | | |
| | Excavation & PCC | | - | | - | | - | | - | | - | | |
| | Foundation Work | | - | | - | | - | | - | | - | | |
| | Finishing Work | | - | | - | | - | | - | | - | | |
| | ELECTRICAL WORK | | - | | - | | - | | - | | - | | |
| | TRANSFORMER | | - | | - | | - | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | - | | - | | - | | - | | - | | |
| | (ii) On completion of erection works | | - | | - | | - | | - | | - | | |
| | (iii) On completion of Testing of equipment | | - | | - | | - | | - | | - | | |
| | CABLE & CABLE TRAY | | - | | - | | - | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | - | | - | | - | | - | | - | | |
| | (ii) On completion of erection works | | - | | - | | - | | - | | - | | |
| | (iii) On completion of Testing of equipment | | - | | - | | - | | - | | - | | |
| 1 6 | DG Area | | - | | - | | - | | - | | - | | |
| | Site Clearance | | - | | - | | - | | - | | - | | |
| | Excavation & PCC | | - | | - | | - | | - | | - | | |
| | Foundation Work | | - | | - | | - | | - | | - | | |
| | Finishing Work | | - | | - | | - | | - | | - | | |
| | ELECTRICAL WORK | | - | | - | | - | | - | | - | | |
| | DG SET | | - | | - | | - | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | - | | - | | - | | - | | - | | |
| | (ii) On completion of erection works | | - | | - | | - | | - | | - | | |
| | (iii) On completion of Testing of equipment | | - | | - | | - | | - | | - | | |
| | CABLE & CABLE TRAY | | - | | - | | - | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | - | | - | | - | | - | | - | | |
| | (ii) On completion of erection works | | - | | - | | - | | - | | - | | |

| S N | Description of Items | Milestone-1 (From 26th Nov.'19 to 25th Sep'20) | | Achieved against 2nd Milestone | | Milestone-3 (From 26th Nov.'20 to 25th Jan'21) | | Achieved against 3rd Milestone | | Achieved against 4th Milestone | | Achieved against 5th Milestone | |
|--------|---|--|--------------|-----------------------------------|--------------|---|--------------|-----------------------------------|--------------|-----------------------------------|--------|-----------------------------------|-------------|
| | | % | Amount(Rs.) | % | Amount | % | Amount(Rs.) | % | Amount | % | Amount | % | Amount |
| | (iii) On completion of Testing of equipment | | | | - | | | | - | | - | | |
| 1 7 | Sludge Storage Platform | | | | - | | | | - | | - | | |
| | Site Clearance | | - | | - | | - | | - | | - | | |
| | Excavation & PCC | | - | | - | | - | | - | | - | | |
| | Foundation Work | | - | | - | | - | | - | | - | | |
| | Finishing work | | - | | - | | - | | - | | - | | |
| 1 8 | EXTERNAL DEVELOPMENT | | | | - | | | | - | | - | | |
| A | Roads, Storm Water Drain & Miscellaneous work | | - | | - | | - | | - | | - | | |
| B | Compound Wall with Gate | | - | | - | | - | | - | | - | | |
| | Excavation & PCC | 40% | 24,59,600.00 | 20% | 12,29,800.00 | 20% | 12,29,800.00 | 20% | 12,29,800.00 | | - | | |
| | RCC Column footing | 40% | 24,59,600.00 | 20% | 12,29,800.00 | 20% | 12,29,800.00 | 20% | 12,29,800.00 | | - | 5% | 3,07,450.00 |
| | RCC Column & Beam | 40% | 24,59,600.00 | 20% | 12,29,800.00 | 20% | 12,29,800.00 | 20% | 12,29,800.00 | | - | | |
| | Brickwork & Plaster | | - | 20% | 12,29,800.00 | 20% | 12,29,800.00 | 19% | 11,68,310.00 | | - | | |
| | Finishing Work | | - | | - | | - | | - | | - | | |
| 1 9 | MPS-2 (115MLD) | | | | - | | | | - | | - | | |
| | CIVIL | | - | | - | | - | | - | | - | | |
| A | Construction of Raw Sewage Sump | | - | | - | | - | | - | | - | | |
| | Site Clearance | 100% | 1,50,000.00 | | - | | - | | - | | - | | |
| | Excavation | 15% | 5,17,760.10 | 85% | 29,33,973.90 | | - | | - | | - | | |
| | PCC | | - | 100% | 23,01,156.00 | | - | | - | | - | | |
| | RCC Foundation/Raft | | - | 50% | 28,76,445.00 | 50% | 28,76,445.00 | 50% | 28,76,445.00 | | - | | |

| S N | Description of Items | Milestone-1 (From 26th Nov.'19 to 25th Sep'20) | | Achieved against 2nd Milestone | | Milestone-3 (From 26th Nov.'20 to 25th Jan'21) | | Achieved against 3rd Milestone | | Achieved against 4th Milestone | | Achieved against 5th Milestone | |
|--------|---|--|-------------|-----------------------------------|--------|---|--------------|-----------------------------------|--------------|-----------------------------------|--------|-----------------------------------|--------|
| | | % | Amount(Rs.) | % | Amount | % | Amount(Rs.) | % | Amount | % | Amount | % | Amount |
| | Wall 50% of total lift work | | - | | - | 100% | 38,35,260.00 | 50% | 19,17,630.00 | | - | | |
| | Column & Beam | | - | | - | | - | | - | | - | | |
| | Walls (balance 50% of Total Lift work) | | - | | - | | - | | - | | - | | |
| | Ground Floor Slab | | - | | - | | - | | - | | - | | |
| | Finishing Work | | - | | - | | - | | - | | - | | |
| B | Construction of Inlet Chamber & Screen Channel | | - | | - | | - | | - | | - | | |
| | Site Clearance | 100% | 50,000.00 | | - | | - | | - | | - | | |
| | Excavation | | - | | - | 100% | 6,81,824.00 | 50% | 3,40,912.00 | | - | | |
| | PCC | | - | | - | 100% | 10,22,736.00 | | - | | - | | |
| | RCC Foundation/Raft | | - | | - | | - | | - | | - | | |
| | Wall 50% of total lift work | | - | | - | | - | | - | | - | | |
| | Walls (balance 50% of Total Lift work) | | - | | - | | - | | - | | - | | |
| | Walkway/Platform | | - | | - | | - | | - | | - | | |
| C | Construction of Raw Sewage Pump House | | - | | - | | - | | - | | - | | |
| | Column & Beam | | - | | - | | - | | - | | - | | |
| | Roof Slab | | - | | - | | - | | - | | - | | |
| | Brickwork & Plaster | | - | | - | | - | | - | | - | | |
| | Finishing Work | | - | | - | | - | | - | | - | | |
| D | MECHANICAL WORK | | - | | - | | - | | - | | - | | |
| | Coarese Screen mechanical & manual | | - | | - | | - | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | - | | - | | - | | - | | - | | |
| | (ii) On completion of erection works | | - | | - | | - | | - | | - | | |
| | (iii) On completion of Testing of equipment | | - | | - | | - | | - | | - | | |
| | Piping & Support work | | - | | - | | - | | - | | - | | |

| S N | Description of Items | Milestone-1 (From 26th Nov.'19 to 25th Sep'20) | | Achieved against 2nd Milestone | | Milestone-3 (From 26th Nov.'20 to 25th Jan'21) | | Achieved against 3rd Milestone | | Achieved against 4th Milestone | | Achieved against 5th Milestone | |
|--------|---|--|-------------|-----------------------------------|--------------|---|--------------|-----------------------------------|--------------|-----------------------------------|--------|-----------------------------------|--------|
| | | % | Amount(Rs.) | % | Amount | % | Amount(Rs.) | % | Amount | % | Amount | % | Amount |
| | (i) On supply of machinery/equipment at site | | | | - | | | | - | | - | | |
| | (ii) On completion of erection works | | | | - | | | | - | | - | | |
| | (iii) On completion of Testing of equipment | | | | - | | | | - | | - | | |
| | Gate Work | | - | | - | | - | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | | | - | | | | - | | - | | |
| | (ii) On completion of erection works | | | | - | | | | - | | - | | |
| | (iii) On completion of Testing of equipment | | | | - | | | | - | | - | | |
| | Pumps | | - | | - | | - | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | | | - | | | | - | | - | | |
| | (ii) On completion of erection works | | | | - | | | | - | | - | | |
| | (iii) On completion of Testing of equipment | | | | - | | | | - | | - | | |
| 2 0 | ICI Nala IPS | | | | - | | | | - | | - | | |
| | CIVIL | | - | | - | | - | | - | | - | | |
| A | Construction of Raw Sewage Sump | | - | | - | | - | | - | | - | | |
| | Site Clearance | 100% | 1,50,000.00 | | - | | - | | - | | - | | |
| | Excavation | | - | 100 % | 15,33,600.00 | | - | | - | | - | | |
| | PCC | | - | 100 % | 10,22,400.00 | | - | | - | | - | | |
| | RCC Foundation/Raft | | - | 50% | 12,78,000.00 | 50% | 12,78,000.00 | 50 % | 12,78,000.00 | | - | | |
| | Wall 50% of total lift work | | - | | - | 100% | 25,56,000.00 | 10 % | 2,55,600.00 | | - | | |
| | Column & Beam | | - | | - | | - | | - | | - | | |
| | Walls (balance 50% of Total Lift work) | | - | | - | | - | | - | | - | | |
| | Ground Floor Slab | | - | | - | | - | | - | | - | | |
| | Finishing Work | | - | | - | | - | | - | | - | | |
| B | Construction of Inlet Chamber & Screen | | - | | - | | - | | - | | - | | |

| S N | Description of Items | Milestone-1 (From 26th Nov.'19 to 25th Sep'20) | | Achieved against 2nd Milestone | | Milestone-3 (From 26th Nov.'20 to 25th Jan'21) | | Achieved against 3rd Milestone | | Achieved against 4th Milestone | | Achieved against 5th Milestone | |
|----------|--|---|-------------|-----------------------------------|--------|---|-------------|-----------------------------------|-----------|-----------------------------------|--------|-----------------------------------|--------|
| | | % | Amount(Rs.) | % | Amount | % | Amount(Rs.) | % | Amount | % | Amount | % | Amount |
| | Channel | | | | | | | | | | | | |
| | Site Clearance | | - | | - | 100% | 50,000.00 | 100% | 50,000.00 | | - | | |
| | Excavation | | - | | - | 100% | 3,40,800.00 | | - | | - | | |
| | PCC | | - | | - | 100% | 5,11,200.00 | | - | | - | | |
| | RCC Foundation/Raft | | - | | - | | - | | - | | - | | |
| | Wall 50% of total lift work | | - | | - | | - | | - | | - | | |
| | Walls (balance 50% of Total Lift work) | | - | | - | | - | | - | | - | | |
| | Walkway/Platform | | - | | - | | - | | - | | - | | |
| | Finishing work | | - | | - | | - | | - | | - | | |
| C | Construction of Raw Sewage Pump House | | - | | - | | - | | - | | - | | |
| | Column & Beam | | - | | - | | - | | - | | - | | |
| | Roof Slab | | - | | - | | - | | - | | - | | |
| | Brickwork & Plaster | | - | | - | | - | | - | | - | | |
| | Finishing Work | | - | | - | | - | | - | | - | | |
| D | Construction of Office Room | | - | | - | | - | | - | | - | | |
| | Site Clearance | | - | | - | | - | | - | | - | | |
| | Excavation & PCC | | - | | - | | - | | - | | - | | |
| | RCC Foundation/column footing | | - | | - | | - | | - | | - | | |
| | Column & Beam | | - | | - | | - | | - | | - | | |
| | RCC Ground floor Slab | | - | | - | | - | | - | | - | | |
| | RCC Roof Slab | | - | | - | | - | | - | | - | | |
| | Brick work & Plaster | | - | | - | | - | | - | | - | | |
| | Electrification, plumbing, fixtures | | - | | - | | - | | - | | - | | |
| | Finishing work | | - | | - | | - | | - | | - | | |

| S N | Description of Items | Milestone-1 (From 26th Nov.'19 to 25th Sep'20) | | Achieved against 2nd Milestone | | Milestone-3 (From 26th Nov.'20 to 25th Jan'21) | | Achieved against 3rd Milestone | | Achieved against 4th Milestone | | Achieved against 5th Milestone | |
|--------|--|--|-------------|-----------------------------------|--------|---|-------------|-----------------------------------|--------|-----------------------------------|--------|-----------------------------------|--------|
| | | % | Amount(Rs.) | % | Amount | % | Amount(Rs.) | % | Amount | % | Amount | % | Amount |
| E | Construction of Guard Room | | - | | - | | - | | - | | - | | |
| | Site Clearance | | - | | - | | - | | - | | - | | |
| | Excavation & PCC | | - | | - | | - | | - | | - | | |
| | RCC Foundation/column footing | | - | | - | | - | | - | | - | | |
| | Column & Beam | | - | | - | | - | | - | | - | | |
| | RCC Ground floor Slab | | - | | - | | - | | - | | - | | |
| | RCC Roof Slab | | - | | - | | - | | - | | - | | |
| | Brick work & Plaster | | - | | - | | - | | - | | - | | |
| | Electrification, plumbing, fixtures | | - | | - | | - | | - | | - | | |
| | Finishing work | | - | | - | | - | | - | | - | | |
| F | Transformer Yard,DG Yard | | - | | - | | - | | - | | - | | |
| | Site Clearance | | - | | - | | - | | - | | - | | |
| | Excavation & PCC | | - | | - | | - | | - | | - | | |
| | Foundation Work | | - | | - | | - | | - | | - | | |
| | Finishing Work | | - | | - | | - | | - | | - | | |
| G | MECHANICAL WORK | | - | | - | | - | | - | | - | | |
| | Piping & Support work | | - | | - | | - | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | - | | - | | - | | - | | - | | |
| | (ii) On completion of erection works | | - | | - | | - | | - | | - | | |
| | (iii) On completion of Testing of equipment | | - | | - | | - | | - | | - | | |
| | Screen Channel | | - | | - | | - | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | - | | - | | - | | - | | - | | |
| | (ii) On completion of erection works | | - | | - | | - | | - | | - | | |
| | (iii) On completion of Testing of equipment | | - | | - | | - | | - | | - | | |
| | Pumps | | - | | - | | - | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | - | | - | | - | | - | | - | | |

| S N | Description of Items | Milestone-1 (From 26th Nov.'19 to 25th Sep'20) | | Achieved against 2nd Milestone | | Milestone-3 (From 26th Nov.'20 to 25th Jan'21) | | Achieved against 3rd Milestone | | Achieved against 4th Milestone | | Achieved against 5th Milestone | |
|--------|--|--|-------------|-----------------------------------|--------|---|-------------|-----------------------------------|--------|-----------------------------------|--------|-----------------------------------|--------|
| | | % | Amount(Rs.) | % | Amount | % | Amount(Rs.) | % | Amount | % | Amount | % | Amount |
| | (ii) On completion of erection works | | | | - | | | | - | | - | | |
| | (iii) On completion of Testing of equipment | | | | - | | | | - | | - | | |
| H | ELECTRICAL WORK | | | | - | | | | - | | - | | |
| | Cable Tray & Earthing Work | | - | | - | | - | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | | | - | | | | - | | - | | |
| | (ii) On completion of erection works | | | | - | | | | - | | - | | |
| | (iii) On completion of Testing of equipment | | | | - | | | | - | | - | | |
| | Transformer | | - | | - | | - | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | | | - | | | | - | | - | | |
| | (ii) On completion of erection works | | | | - | | | | - | | - | | |
| | (iii) On completion of Testing of equipment | | | | - | | | | - | | - | | |
| | DG | | - | | - | | - | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | | | - | | | | - | | - | | |
| | (ii) On completion of erection works | | | | - | | | | - | | - | | |
| | (iii) On completion of Testing of equipment | | | | - | | | | - | | - | | |
| I | Construction of Boundary wall & Internal Road | | - | | - | | - | | - | | - | | |
| | Site Clearance | | - | | - | 100% | - | | - | | - | | |
| | Excavation & PCC | | - | | - | 100% | 3,19,605.00 | | - | | - | | |
| | RCC Column footing | | - | | - | 100% | 4,26,140.00 | | - | | - | | |
| | RCC Column & Beam | | - | | - | | - | | - | | - | | |
| | Brickwork & Plaster | | - | | - | | - | | - | | - | | |
| | Finishing | | - | | - | | - | | - | | - | | |
| | Construction of Internal road | | - | | - | | - | | - | | - | | |
| 2 1 | IPS-6 (Sundar Nagar- 20 MLD)-Pankha Area | | | | - | | | | - | | - | | |

| S N | Description of Items | Milestone-1 (From 26th Nov.'19 to 25th Sep'20) | | Achieved against 2nd Milestone | | Milestone-3 (From 26th Nov.'20 to 25th Jan'21) | | Achieved against 3rd Milestone | | Achieved against 4th Milestone | | Achieved against 5th Milestone | |
|--------|---|--|-------------|-----------------------------------|--------------|---|--------------|-----------------------------------|--------------|-----------------------------------|--------|-----------------------------------|--------|
| | | % | Amount(Rs.) | % | Amount | % | Amount(Rs.) | % | Amount | % | Amount | % | Amount |
| | CIVIL | | - | | - | | - | | - | | - | | - |
| A | Construction of Raw Sewage Sump | | - | | - | | - | | - | | - | | - |
| | Site Clearance | 100% | 1,50,000.00 | | - | | - | | - | | - | | - |
| | Excavation | 11% | 1,68,696.00 | 89% | 13,64,904.00 | | - | | - | | - | | - |
| | PCC | | - | 100% | 10,22,400.00 | | - | | - | | - | | - |
| | RCC Foundation/Raft | | - | | - | 100% | 25,56,000.00 | 100% | 25,56,000.00 | | - | | - |
| | Wall 50% of total lift work | | - | | - | 100% | 25,56,000.00 | 17% | 4,34,520.00 | | - | | - |
| | Column & Beam | | - | | - | | - | | - | | - | | - |
| | Walls (balance 50% of Total Lift work) | | - | | - | | - | | - | | - | | - |
| | Ground Floor Slab | | - | | - | | - | | - | | - | | - |
| | Finishing Work | | - | | - | | - | | - | | - | | - |
| B | Construction of Inlet Chamber & Screen Channel | | - | | - | | - | | - | | - | | - |
| | Site Clearance | | - | | - | 100% | - | | - | | - | | - |
| | Excavation & PCC | | - | | - | 100% | 4,26,000.00 | | - | | - | | - |
| | RCC Foundation/Raft | | - | | - | 100% | 4,26,000.00 | | - | | - | | - |
| | Wall 50% of total lift work | | - | | - | | - | | - | | - | | - |
| | Walls (balance 50% of Total Lift work) | | - | | - | | - | | - | | - | | - |
| | Walkway/Platform | | - | | - | | - | | - | | - | | - |
| | Finishing work | | - | | - | | - | | - | | - | | - |
| C | Construction of Raw Sewage Pump House | | - | | - | | - | | - | | - | | - |
| | Column & Beam | | - | | - | | - | | - | | - | | - |
| | Roof Slab | | - | | - | | - | | - | | - | | - |
| | Brickwork & Plaster | | - | | - | | - | | - | | - | | - |

| S N | Description of Items | Milestone-1 (From 26th Nov.'19 to 25th Sep'20) | | Achieved against 2nd Milestone | | Milestone-3 (From 26th Nov.'20 to 25th Jan'21) | | Achieved against 3rd Milestone | | Achieved against 4th Milestone | | Achieved against 5th Milestone | |
|--------|-------------------------------------|--|-------------|-----------------------------------|--------|---|-----------------|-----------------------------------|--------|-----------------------------------|--------|-----------------------------------|--------|
| | | % | Amount(Rs.) | % | Amount | % | Amount(Rs.) | % | Amount | % | Amount | % | Amount |
| | Finishing Work | | - | | - | | - | | - | | - | | |
| D | Construction of Office Room | | - | | - | | - | | - | | - | | |
| | Site Clearance | | - | | - | 100% | - | | - | | - | | |
| | Excavation & PCC | | - | | - | 100% | 2,13,000. 00 | | - | | - | | |
| | RCC Foundation/column footing | | - | | - | 100% | 6,39,000. 00 | | - | | - | | |
| | Column & Beam | | - | | - | 100% | 2,13,000. 00 | | - | | - | | |
| | RCC Ground floor Slab | | - | | - | | - | | - | | - | | |
| | RCC Roof Slab | | - | | - | | - | | - | | - | | |
| | Brick work & Plaster | | - | | - | | - | | - | | - | | |
| | Electrification, plumbing, fixtures | | - | | - | | - | | - | | - | | |
| | Finishing work | | - | | - | | - | | - | | - | | |
| E | Construction of Guard Room | | - | | - | | - | | - | | - | | |
| | Site Clearance | | - | | - | 100% | - | | - | | - | | |
| | Excavation & PCC | | - | | - | 100% | 2,13,000. 00 | | - | | - | | |
| | RCC Foundation/column footing | | - | | - | 100% | 6,39,000. 00 | | - | | - | | |
| | Column & Beam | | - | | - | 100% | 2,13,000. 00 | | - | | - | | |
| | RCC Ground floor Slab | | - | | - | | - | | - | | - | | |
| | RCC Roof Slab | | - | | - | | - | | - | | - | | |
| | Brick work & Plaster | | - | | - | | - | | - | | - | | |
| | Electrification, plumbing, fixtures | | - | | - | | - | | - | | - | | |
| | Finishing work | | - | | - | | - | | - | | - | | |
| F | Transformer Yard,DG Yard | | - | | - | | - | | - | | - | | |
| | Site Clearance | | - | | - | 100% | - | | - | | - | | |

| S N | Description of Items | Milestone-1 (From 26th Nov.'19 to 25th Sep'20) | | Achieved against 2nd Milestone | | Milestone-3 (From 26th Nov.'20 to 25th Jan'21) | | Achieved against 3rd Milestone | | Achieved against 4th Milestone | | Achieved against 5th Milestone | |
|--------|--|--|-------------|-----------------------------------|--------|---|-------------|-----------------------------------|--------|-----------------------------------|--------|-----------------------------------|--------|
| | | % | Amount(Rs.) | % | Amount | % | Amount(Rs.) | % | Amount | % | Amount | % | Amount |
| | Excavation & PCC | | - | | - | 100% | 6,39,210.00 | | - | | - | | |
| | Foundation Work | | - | | - | | - | | - | | - | | |
| | Finishing Work | | - | | - | | - | | - | | - | | |
| G | MECHANICAL WORK | | - | | - | | - | | - | | - | | |
| | Piping & Support work | | - | | - | | - | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | - | | - | | - | | - | | - | | |
| | (ii) On completion of erection works | | - | | - | | - | | - | | - | | |
| | (iii) On completion of Testing of equipment | | - | | - | | - | | - | | - | | |
| | Screen Channel | | - | | - | | - | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | - | | - | | - | | - | | - | | |
| | (ii) On completion of erection works | | - | | - | | - | | - | | - | | |
| | (iii) On completion of Testing of equipment | | - | | - | | - | | - | | - | | |
| | Pumps | | - | | - | | - | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | - | | - | | - | | - | | - | | |
| | (ii) On completion of erection works | | - | | - | | - | | - | | - | | |
| | (iii) On completion of Testing of equipment | | - | | - | | - | | - | | - | | |
| H | ELECTRICAL WORK | | - | | - | | - | | - | | - | | |
| | Cable Tray & Earthing Work | | - | | - | | - | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | - | | - | | - | | - | | - | | |
| | (ii) On completion of erection works | | - | | - | | - | | - | | - | | |
| | (iii) On completion of Testing of equipment | | - | | - | | - | | - | | - | | |
| | Transformer | | - | | - | | - | | - | | - | | |
| | (i) On supply of machinery/equipment at site | | - | | - | | - | | - | | - | | |
| | (ii) On completion of erection works | | - | | - | | - | | - | | - | | |
| | (iii) On completion of Testing of equipment | | - | | - | | - | | - | | - | | |
| | DG | | - | | - | | - | | - | | - | | |

| S N | Description of Items | Milestone-1 (From 26th Nov.'19 to 25th Sep'20) | | Achieved against 2nd Milestone | | Milestone-3 (From 26th Nov.'20 to 25th Jan'21) | | Achieved against 3rd Milestone | | Achieved against 4th Milestone | | Achieved against 5th Milestone | |
|--------|--|--|-------------|-----------------------------------|-------------|---|--------------|-----------------------------------|-------------|-----------------------------------|--------|-----------------------------------|--------|
| | | % | Amount(Rs.) | % | Amount | % | Amount(Rs.) | % | Amount | % | Amount | % | Amount |
| | (i) On supply of machinery/equipment at site | | | | - | | | | - | | - | | |
| | (ii) On completion of erection works | | | | - | | | | - | | - | | |
| | (iii) On completion of Testing of equipment | | | | - | | | | - | | - | | |
| 1 | Construction of Boundary wall & Internal Road | | - | | - | | - | | - | | - | | |
| | Site Clearance | | - | | - | | - | | - | | - | | |
| | Excavation & PCC | | - | | - | | - | | - | | - | | |
| | RCC Column footing | | - | | - | | - | | - | | - | | |
| | RCC Column & Beam | | - | | - | | - | | - | | - | | |
| | Brickwork & Plaster | | - | | - | | - | | - | | - | | |
| | Construction of Internal road | | - | | - | | - | | - | | - | | |
| | Finishing | | - | | - | | - | | - | | - | | |
| 2 2 | I&D Works | | | | - | | | | - | | - | | |
| A | ICI Nala | | - | | - | | - | | - | | - | | |
| | Construction Work | | - | 13% | 2,89,120.00 | 67% | 14,90,080.00 | 42% | 9,34,080.00 | | - | | |
| | Tapping of Nallahs | | - | | - | | - | | - | | - | | |
| | Electro-Mechanical work | | - | | - | | - | | - | | - | | |
| | Testing | | - | | - | | - | | - | | - | | |
| B | Thermal Nala -A | | - | | - | | - | | - | | - | | |
| | Construction Work | | - | 13% | 2,89,120.00 | 67% | 14,90,080.00 | 5% | 1,11,200.00 | | - | | |
| | Tapping of Nallahs | | - | | - | | - | | - | | - | | |
| | Electro-Mechanical work | | - | | - | | - | | - | | - | | |
| | Testing | | - | | - | | - | | - | | - | | |
| C | Thermal Nala -B | | - | | - | | - | | - | | - | | |
| | Construction Work | | - | 14% | 3,11,360.00 | 63% | 14,01,120.00 | | - | | - | | |

| S N | Description of Items | Milestone-1 (From 26th Nov.'19 to 25th Sep'20) | | Achieved against 2nd Milestone | | Milestone-3 (From 26th Nov.'20 to 25th Jan'21) | | Achieved against 3rd Milestone | | Achieved against 4th Milestone | | Achieved against 5th Milestone | |
|--------|--|--|---------------|-----------------------------------|---------------|---|-------------------|-----------------------------------|--------------|-----------------------------------|-----------|-----------------------------------|--------|
| | | % | Amount(Rs.) | % | Amount | % | Amount(Rs.) | % | Amount | % | Amount | % | Amount |
| | Tapping of Nallahs | | - | | - | | - | | - | | - | | |
| | Electro-Mechanical work | | - | | - | | - | | - | | - | | |
| | Testing | | - | | - | | - | | - | | - | | |
| 2 3 | Rising Main Works | | - | | - | | - | | - | | - | | |
| A | ICI Nala Area | | - | | - | | - | | - | | - | | |
| | Site Cleance from Client | | - | | - | 50% | - | | - | | - | | |
| | Supply of Pipes | | - | | - | | - | | - | 1. 3 % | 66,300.00 | 1. 3 % | |
| | Excavation,Laying & backfilling of Pipes | | - | | - | | - | | - | | - | | |
| | Testing | | - | | - | | - | | - | | - | | |
| B | Sundar Nagar IPS Area | | - | | - | | - | | - | | - | | |
| | Site Cleance from Client | | - | | - | 50% | - | | - | | - | | |
| | Supply of Pipes | | - | | - | | - | | - | | - | | |
| | Excavation,Laying & backfilling of Pipes | | - | | - | | - | | - | | - | | |
| | Testing | | - | | - | | - | | - | | - | | |
| 2 4 | Sewer System Area (RCC Pipes-NP3 Types) | | - | | - | | - | | - | | - | | |
| | Site Clearance | | - | | - | 20% | - | | - | | - | | |
| | Supply of pipes | 16% | 256,70,093.90 | 25% | 401,13,568.00 | 29% | 465,31,73 8.88 | 2 % | 32,09,085.44 | | - | | |
| | Excavation and Laying of pipes including bed preperation & backfilling | | - | 15.7 % | 15,74,457.54 | 35% | 35,09,937 .20 | | - | | - | | |
| | Manholes | | - | 12.0 % | 12,03,407.04 | 35% | 35,09,937 .20 | | - | | - | | |
| | Testing | | - | | - | | - | | - | | - | | |
| | Road Restoration work | | - | | - | | - | | - | | - | | |
| 2 5 | Design ,Supply,Testing & Commissioning of Sewer line (crossing National Highway-2 & | | - | | - | | - | | - | | - | | |

| S N | Description of Items | Milestone-1 (From 26th Nov.'19 to 25th Sep'20) | | Achieved against 2nd Milestone | | Milestone-3 (From 26th Nov.'20 to 25th Jan'21) | | Achieved against 3rd Milestone | | Achieved against 4th Milestone | | Achieved against 5th Milestone | |
|--------|--|--|-----------------------|-----------------------------------|-----------------------|---|--------------|-----------------------------------|----------------------|-----------------------------------|---------------------|-----------------------------------|---------------------|
| | | % | Amount(Rs.) | % | Amount | % | Amount(Rs.) | % | Amount | % | Amount | % | Amount |
| | Railway Track) | | | | | | | | | | | | |
| | Statutory approvals from Railway & Road dept | | - | | - | 50% | - | | - | | - | | |
| | Supply of Carrier & Casing Pipes | | - | | - | 50% | 56,24,167.50 | | - | | - | | |
| | Construction of Pit | | - | | - | 55% | 5,15,548.69 | | - | | - | | |
| | Excavation & Laying of Pipes thru Jack push method | | - | | - | 45% | 25,59,915.54 | | - | | - | | |
| | Testing | | - | | - | | - | | - | | - | | |
| 2 6 | Design ,Supply,Testing & Commissioning of Treated Effluent line from STP to River Pandu | | | | - | | | | - | | - | | |
| | Site Clearance | | - | | - | | - | | - | | - | | |
| | Construction of Effluent line from STP to River Pandu | | - | | - | | - | | - | | - | | |
| | Testing | | - | | - | | - | | - | | - | | |
| | TRIAL RUN & COMMISSIONING | | | | | | | | | | - | | |
| | Trial Run & Commissioning | | | | | | | | | | | | |
| | Total Amount | | 1248,39,750.00 | | 1231,89,586.48 | | | | 291,77,063.94 | | 55,65,930.00 | | 34,89,557.50 |
| | Net work done after milestone -1 | | 1614,22,137.92 | | 99% | | | | 23% | | 4% | | 3% |
| | Cumulative Progress till 31.12.2020 | | | | 28.11% | | | | | | | | |

PHOTOGRAPHS OF PANKHA STP SITE



ICI Nalla IPS Raft casting



Boundary Wall work



I&D work at ICI nalla



Sundar Nagar IPS wall casting

6.2 MILESTONE WISE ACTIVITIES AND PROGRESS: UNNAO STP

Milestone wise activities and their progress of work for Unnao STP are given in table 6.2.

TABLE 6.2: UNNAO FACILITIES (DISTRICT UNNAO)

| Sr. No. | Description of Items | Milestone-1 Achieved (From 11th Oct.'19 to 25th Sept'20) | | Milestone-2 (From 26th Sep'20 to 25th Nov.'20) | | Milestone-2 achieved | | 3rd Milestone works compensated against remaining works of 2nd milestone | | Milestone-3 Achieved till 31.12.2020 | | |
|-----------|--|---|---------------|---|---------------|----------------------|---------------|--|--------------|--------------------------------------|----------|--------------|
| | | % | Amount | % | Amount | % | Amount | % | Amount | Target | Achieved | Amount |
| I | Design & Drawing & STP & Sewer Laying works | | | | | | | | | | | |
| 1 | On approval of BEP | 100% | 191,34,500.00 | | | | | | | | | |
| 2 | On approval of design & drawings for Civil & Sewerage works | 25% | 47,83,625.00 | 75% | 143,50,875.00 | 75% | 143,50,875.00 | | | | | |
| | | | | | | | | | | | | |
| II | CONSTRUCTION | | | | | | | | | | | |
| A | UNNAO STP (15 MLD) | | | | | | | | | | | |
| i) | SBR Basin Area | | | | | | | | | | | |
| 1 | Site Clearance | 100% | 5,00,000.00 | | | | | | | | | |
| 2 | Excavation wall footing | 100% | 22,46,137.60 | | | | | | | | | |
| 3 | PCC wall footing | 100% | 27,46,137.60 | | | | | | | | | |
| 4 | RCC Foundation/Raft of wall | | - | 100% | 54,92,275.20 | 100% | 54,92,275.20 | | | | | |
| 5 | Wall 50% of total upto base slab | | - | | - | | | 20% | 10,98,455.04 | 100% | 60% | 32,95,365.12 |
| 6 | Walls (balance 50% of upto base slab) | | - | | - | | | | - | 100% | | |
| 7 | PCC Base Slab | | - | | - | | | | - | | | |
| 8 | RCC Foundation base slab | | - | | - | | | | - | | | |
| 9 | Wall 50% of total lift work | | - | | - | | | | - | | | |
| 10 | Walls (balance 50% of Total Lift work) | | - | | - | | | | - | | | |
| 11 | Walkway/Platform | | - | | - | | | | - | | | |
| 12 | Piping & fitting works | | - | | - | | | | - | | | |

| Sr. No. | Description of Items | Milestone-1 Achieved (From 11th Oct.'19 to 25th Sept'20) | | Milestone-2 (From 26th Sep'20 to 25th Nov.'20) | | Milestone-2 achieved | | 3rd Milestone works compensated against remaining works of 2nd milestone | | Milestone-3 Achieved till 31.12.2020 | | |
|---------|--|---|-------------|---|-------------|----------------------|-------------|--|-------------|--------------------------------------|----------|--------|
| | | % | Amount | % | Amount | % | Amount | % | Amount | Target | Achieved | Amount |
| 13 | Testing /Finishing works | | - | | - | | | | - | | | |
| ii | Sludge Thickener Area | | | | | | | | | | | |
| 1 | Site Clearance | 100% | 1,50,000.00 | | | | | | | | | |
| 2 | Excavation | 100% | 3,64,900.80 | | | | | | | | | |
| 3 | PCC | 50% | 2,57,450.40 | 50% | 2,57,450.40 | 50% | 2,57,450.40 | | | | | |
| 4 | RCC Foundation Wall/base slab | | - | 100% | 6,86,534.40 | 50% | 3,43,267.20 | | | | | |
| 5 | Wall 50% of total lift work | | - | | - | | | 100% | 6,86,534.40 | 100% | | |
| 6 | Walls (balance 50% of Total Lift work) | | | | | | | | - | | | - |
| 7 | Testing /Finishing works | | | | | | | | - | | | - |
| iii | Supernatant Sump Area | | | | | | | | | | | |
| 1 | Site Clearance | 100% | 1,00,000.00 | | | | | | | | | |
| 2 | Excavation | 100% | 1,14,422.40 | | | | | | | | | |
| 3 | PCC | 100% | 1,14,422.40 | | | | | | | | | |
| 4 | RCC Foundation wall/base slab | 100% | 1,28,844.80 | | - | | | | | | | |
| 5 | Wall 50% of total lift work | | - | 100% | 1,43,044.80 | 100% | 1,43,044.80 | | | | | |
| 6 | Walls (balance 50% of Total Lift work) | | - | 100% | 1,71,633.60 | 0% | | | - | | | |
| 7 | Testing /Finishing works | | - | | - | | | | - | 100% | | |
| iv | Chlorination Tank Area | | | | | | | | | | | |
| 1 | Site Clearance | 100% | 1,50,000.00 | | | | | | | | | |
| 2 | Excavation | 100% | 4,22,112.00 | | | | | | | | | |
| 3 | PCC | 100% | 5,72,112.00 | | - | | | | | | | |
| 4 | RCC Foundation/Raft | 100% | 9,15,000.00 | | - | | | | | | | |
| 5 | Wall 50% of total lift work | | - | 100% | 8,58,168.00 | 100% | 8,58,168.00 | | - | | | |
| 6 | Walls (balance 50% of Total Lift work) | | - | | - | | | | - | 100% | | - |
| 7 | Baffle Walls work | | - | | - | | | | - | 100% | | - |

| Sr. No. | Description of Items | Milestone-1 Achieved (From 11th Oct.'19 to 25th Sept'20) | | Milestone-2 (From 26th Sep'20 to 25th Nov.'20) | | Milestone-2 achieved | | 3rd Milestone works compensated against remaining works of 2nd milestone | | Milestone-3 Achieved till 31.12.2020 | | |
|---------|--|---|-------------|---|-------------|----------------------|-------------|--|--------|--------------------------------------|----------|-----------|
| | | % | Amount | % | Amount | % | Amount | % | Amount | Target | Achieved | Amount |
| 8 | Testing /Finishing works | | - | | - | | | | - | | | - |
| v | Air Blower Room Area | | | | | | | | | | | |
| 1 | Site Clearance | 100% | 2,50,000.00 | | | | | | | | | |
| 2 | Excavation | 100% | 3,43,267.20 | | | | | | | | | |
| 3 | PCC | 100% | 3,43,267.20 | | - | | | | | | | |
| 4 | RCC Foundation/column footing | | - | 100% | 6,86,534.40 | 100% | 6,86,534.40 | | | 100% | | |
| 5 | Column & Beam | | - | 100% | 6,29,801.60 | 100% | 6,29,801.60 | | - | 100% | | |
| 6 | RCC Roof Slab | | - | | - | | | | - | | | |
| 7 | Cable Trench Work | | - | | - | | | | - | | | |
| 8 | RCC Ground floor Grade Slab | | - | | - | | | | - | | | |
| 9 | Brick work | | - | | - | | | | - | | | |
| 10 | Plaster | | - | | - | | | | - | | | |
| 11 | Testing/Finishing work | | - | | - | | | | - | | | |
| vi | Staff Quarter Area (G+1) | | | | | | | | | | | |
| 1 | Site Clearance | 100% | 50,000.00 | | | | | | | | | |
| 2 | Excavation | 100% | 71,000.00 | | | | | | | | | |
| 3 | PCC | 100% | 71,000.00 | | - | | | | | | | |
| 4 | RCC Foundation/column footing | 100% | 92,000.00 | | - | | | | | | | |
| 5 | Column & Beam | | - | 100% | 92,000.00 | 100% | 92,000.00 | | - | 100% | | |
| 6 | RCC Ground floor Slab | | - | 100% | 92,000.00 | 100% | 92,000.00 | | - | 100% | | |
| 7 | RCC 1st floor Slab | | - | | - | | | | - | | 50% | 46,000.00 |
| 8 | RCC Roof Slab | | - | | - | | | | - | | | |
| 9 | Brick work | | - | | - | | | | - | | | |
| 10 | Plaster | | - | | - | | | | - | | | |
| 11 | Plumbing, fixtures , sanitary works, AC work | | - | | - | | | | - | | | |

| Sr. No. | Description of Items | Milestone-1 Achieved (From 11th Oct. '19 to 25th Sept'20) | | Milestone-2 (From 26th Sep'20 to 25th Nov. '20) | | Milestone-2 achieved | | 3rd Milestone works compensated against remaining works of 2nd milestone | | Milestone-3 Achieved till 31.12.2020 | | |
|---------|-------------------------------|--|-------------|--|-------------|----------------------|-------------|--|--------|--------------------------------------|----------|--------|
| | | % | Amount | % | Amount | % | Amount | % | Amount | Target | Achieved | Amount |
| 12 | Electrification work | | - | | - | | | | - | | | |
| 13 | Finishing works | | - | | - | | | | - | | | |
| vii | Guard Room Area | | | | | | | | | | | |
| 1 | Site Clearance | 100% | 50,000.00 | | | | | | | | | |
| 2 | Excavation | 100% | 82,211.20 | | | | | | | | | |
| 3 | PCC | 100% | 82,211.20 | | - | | | | | | | |
| 4 | RCC Foundation/column footing | 100% | 1,14,422.40 | | - | | | | | | | |
| 5 | Column & Beam | 100% | 1,14,422.40 | | - | | | | - | | | |
| 6 | RCC Ground floor Slab | 100% | 1,14,422.40 | | - | | | | - | | | |
| 7 | RCC Roof Slab | | - | 100% | 1,14,422.40 | 100% | 1,14,422.40 | | - | | | |
| 8 | Brick work | | - | 100% | 1,14,422.40 | 100% | 1,14,422.40 | | - | | | |
| 9 | Plaster | | - | 100% | 1,14,422.40 | 0% | | | - | 100% | | |
| viii | Chlorination Room Area | | | | | | | | | | | |
| 1 | Site Clearance | 100% | 1,50,000.00 | | - | | | | | | | |
| 2 | Excavation | 100% | 4,57,689.60 | | - | | | | | | | |
| 3 | PCC | 50% | 2,28,844.80 | 50% | 2,28,844.80 | 50% | 2,28,844.80 | | | | | |
| 4 | RCC Foundation/Column footing | | - | 100% | 4,57,689.60 | 100% | 4,57,689.60 | | - | | | |
| 5 | Column & Beam | | - | 100% | 4,57,689.60 | 100% | 4,57,689.60 | | - | | | |
| 6 | Ground floor Slab | | - | 70% | 4,80,574.08 | 35% | 1,68,200.93 | | - | 30% | | |
| 7 | Roof Slab | | - | | - | | | | - | 100% | | - |
| 8 | Brickwork | | - | | - | | | | - | | | - |
| 9 | Plaster | | - | | - | | | | - | | | - |
| 10 | Testing/Finishing works | | - | | - | | | | - | | | - |
| ix | Admin Bldg Area (G+1) | | | | | | | | | | | |
| 1 | Site Clearance | | - | | - | | | 100% | - | 100% | 100% | - |

| Sr. No. | Description of Items | Milestone-1 Achieved (From 11th Oct.'19 to 25th Sept'20) | | Milestone-2 (From 26th Sep'20 to 25th Nov.'20) | | Milestone-2 achieved | | 3rd Milestone works compensated against remaining works of 2nd milestone | | Milestone-3 Achieved till 31.12.2020 | | |
|---------|--|---|--------|---|--------|----------------------|--------|--|-------------|--------------------------------------|----------|-------------|
| | | % | Amount | % | Amount | % | Amount | % | Amount | Target | Achieved | Amount |
| 2 | Excavation | | - | | - | | | | - | 100% | | - |
| 3 | PCC | | - | | - | | | | - | 100% | | - |
| 4 | Column footings/Foundation | | - | | - | | | | - | | | - |
| 5 | Column & Beam up to First Floor | | - | | - | | | | - | | | - |
| 6 | 1st Floor Slab | | - | | - | | | | - | | | - |
| 7 | Column & Beam First Floor to Roof Slab | | - | | - | | | | - | | | - |
| 8 | Roof Slab | | | | | | | | | | | |
| 9 | Ground Floor Slab | | | | | | | | | | | |
| 10 | Brickwork | | | | | | | | | | | |
| 11 | Plaster | | | | | | | | | | | |
| 12 | Electrification, plumbing, fixtures , sanitary works, AC work | | | | | | | | | | | |
| 13 | Finishing works | | | | | | | | | | | |
| x | Sludge Dewatering System Area (Centrifuge Pump House, Sludge sump & Poly dosing tank) | | | | | | | | | | | |
| 1 | Site Clearance | | | | - | | | 100% | 1,50,000.00 | 100% | | |
| 2 | Excavation | | | | - | | | | - | 100% | 90% | 1,66,309.20 |
| 3 | PCC | | | | - | | | | - | 100% | 90% | 1,66,309.20 |
| 4 | RCC Foundation | | | | - | | | | - | 100% | 90% | 3,32,618.40 |
| 5 | Column & Beam Upto First Floor | | | | - | | | | - | 100% | | - |
| 6 | First Floor Slab | | | | - | | | | - | | | - |
| 7 | Column & Beam First Floor to Roof Slab | | | | - | | | | - | | | - |
| 8 | Roof Slab | | | | - | | | | - | | | - |
| 9 | Ground floor Slab | | | | - | | | | - | | | - |
| 10 | Brickwork | | | | - | | | | - | | | - |
| 11 | Plaster | | | | - | | | | - | | | - |

| Sr. No. | Description of Items | Milestone-1 Achieved (From 11th Oct. '19 to 25th Sept'20) | | Milestone-2 (From 26th Sep'20 to 25th Nov. '20) | | Milestone-2 achieved | | 3rd Milestone works compensated against remaining works of 2nd milestone | | Milestone-3 Achieved till 31.12.2020 | | |
|-------------|--|--|--------|--|-------------|----------------------|-------------|--|--------|--------------------------------------|----------|--------|
| | | % | Amount | % | Amount | % | Amount | % | Amount | Target | Achieved | Amount |
| 12 | Piping & fiittings Work | | | | - | | | | - | | | - |
| 13 | Testing/Finishing works | | | | - | | | | - | | | - |
| xi | Inlet Chamber Area | | | | | | | | | | | |
| 1 | Site Clearance | | - | 100% | 1,50,000.00 | | 1,50,000.00 | | | | | |
| 2 | Excavation & PCC | | - | | | | | | - | 100% | | - |
| 3 | RCC Foundation/Column footing | | - | | | | | | - | 100% | | - |
| 4 | Column & Beam | | - | | - | | | | - | | | - |
| 5 | RCC Slab | | - | | - | | | | - | | | - |
| 6 | RCC Wall | | - | | - | | | | | | | |
| 7 | Testing/Finishing works | | - | | - | | | | - | | | - |
| xii | Manual & Mechanica Fine Bar Screen Chamber AreaArea | | | | | | | | | | | |
| 1 | Site Clearance | | | 100% | 1,50,000.00 | | 1,50,000.00 | | | | | |
| 2 | Excavation | | | | | | | | - | 100% | | - |
| 3 | PCC | | | | | | | | - | 100% | | - |
| 4 | RCC Foundation | | | | | | | | | | | |
| 5 | Column & Beam | | | | | | | | | | | |
| 6 | RCC Slab | | | | | | | | | | | |
| 7 | RCC Wall | | | | | | | | - | | | - |
| 8 | Walkway/Platform | | | | | | | | | | | |
| 9 | Testing/Finishing works | | | | | | | | | | | |
| xiii | Grit Chamber Area | | | | | | | | | | | |
| 1 | Site Clearance | | | 100% | 1,50,000.00 | | 1,50,000.00 | | | | | |
| 2 | Excavation | | | | | | | | - | 100% | | - |
| 3 | PCC | | | | | | | | - | 100% | | - |
| 4 | RCC Foundation | | | | | | | | | | | |

| Sr. No. | Description of Items | Milestone-1 Achieved (From 11th Oct.'19 to 25th Sept'20) | | Milestone-2 (From 26th Sep'20 to 25th Nov.'20) | | Milestone-2 achieved | | 3rd Milestone works compensated against remaining works of 2nd milestone | | Milestone-3 Achieved till 31.12.2020 | | |
|---------|------------------------------------|---|-------------|---|-------------|----------------------|-------------|--|-------------|--------------------------------------|----------|-----------|
| | | % | Amount | % | Amount | % | Amount | % | Amount | Target | Achieved | Amount |
| 5 | Column & Beam | | | | | | | | | | | |
| 6 | RCC Slab | | | | | | | | | | | |
| 7 | RCC Wall | | | | | | | | - | | | - |
| 8 | Walkway/Platform | | | | | | | | | | | |
| 9 | Testing/Finishing works | | | | | | | | | | | |
| xiv | Parshall Flume Channel Area | | | | | | | | | | | |
| 1 | Site Clearance | | | 100% | 1,50,000.00 | | 1,50,000.00 | | | | | |
| 2 | Excavation | | | | | | | | - | 100% | | - |
| 3 | PCC | | | | | | | | - | 100% | | - |
| 4 | RCC Foundation | | | | | | | | | | | |
| 5 | Column & Beam | | | | | | | | | | | |
| 6 | RCC Slab | | | | | | | | | | | |
| 7 | RCC Wall | | | | | | | | - | | | - |
| 8 | Walkway/Platform | | | | | | | | | | | |
| 9 | Piping & fitting Work | | | | | | | | | | | |
| 10 | Testing | | | | | | | | | | | |
| xviii | EXTERNAL DEVELOPMENT | | | | | | | | | | | |
| | Boundary Wall with Gate | | | | | | | | | | | |
| 1 | Site Clearance | 100% | - | | | | | | | | | |
| 2 | Excavation | 40% | 1,33,900.00 | 30% | 1,00,425.00 | 30% | 1,00,425.00 | 20% | 66,950.00 | 20% | | |
| 3 | PCC | 40% | 2,00,850.00 | 25% | 1,25,531.25 | 25% | 1,25,531.25 | 20% | 1,00,425.00 | 20% | | |
| 4 | RCC Column footing | 40% | 2,00,850.00 | 25% | 1,25,531.25 | 25% | 1,25,531.25 | 20% | 1,00,425.00 | 20% | | |
| 5 | RCC Column & Beam | 40% | 2,00,850.00 | 25% | 1,25,531.25 | 25% | 1,25,531.25 | | - | 20% | 10% | 50,212.50 |
| 6 | Brickwork | 15% | 75,318.75 | 25% | 1,25,531.25 | 25% | 1,25,531.25 | 10% | 50,212.50 | 20% | | |
| 7 | Plaster | | - | | - | | | | - | 15% | | |

| Sr. No. | Description of Items | Milestone-1 Achieved (From 11th Oct.'19 to 25th Sept'20) | | Milestone-2 (From 26th Sep'20 to 25th Nov.'20) | | Milestone-2 achieved | | 3rd Milestone works compensated against remaining works of 2nd milestone | | Milestone-3 Achieved till 31.12.2020 | | |
|----------|--|---|---------------|---|---------------|----------------------|---------------|--|-------------|--------------------------------------|----------|-------------|
| | | % | Amount | % | Amount | % | Amount | % | Amount | Target | Achieved | Amount |
| 8 | Retaining wall | | - | | - | | | | - | 50% | | |
| 9 | Finishing Work | | | | | | | | | | | |
| | Earthfilling, Internal Roads, Landscaping | | | | | | | | | | | |
| 1 | Earthfilling, Internal Roads, Landscaping | | | | | | | | | | | |
| C | MPS-40 MLD | | | | | | | | | | | |
| | Civil Work | | | | | | | | | | | |
| i | Construction of Raw Sewage Sump | | | | | | | | | | | |
| 1 | Site Clearance | 100% | 5,00,000.00 | | | | | | | | | |
| 2 | Excavation | | - | | - | | | 30% | 4,77,444.00 | 50% | 10% | 1,59,148.00 |
| 3 | PCC | | - | | - | | | | | | | |
| 4 | RCC Foundation/Raft | | - | | - | | | | - | | | - |
| 5 | Wall 50% of total lift work | | - | | - | | | | - | | | - |
| 6 | Walls (balance 50% of Total Lift work) | | - | | - | | | | - | | | - |
| 7 | Column & Beam | | - | | - | | | | - | | | - |
| 8 | Ground Floor Slab | | | | | | | | | | | |
| 9 | Testing/Finishing work | | | | | | | | | | | |
| D | SEWER SYSTEM AREA (3.2 Km) | | | | | | | | | | | |
| 1 | Site Clearance | 100% | - | | | | | | | | | |
| 2 | Supply of pipes | 20% | 110,60,057.85 | 35% | 193,59,095.70 | 35% | 193,59,095.70 | | - | 37% | | |
| 3 | Excavation and Laying of pipes including bed preparation & backfilling | | - | 20% | 11,08,732.26 | | | | - | 40% | | |
| 4 | Manholes | | - | 20% | 7,37,489.36 | | | | - | 40% | | |
| 5 | Flow/Hydraulic Testing | | | | - | | | | - | 38% | | |

| Sr. No. | Description of Items | Milestone-1 Achieved (From 11th Oct.'19 to 25th Sept'20) | | Milestone-2 (From 26th Sep'20 to 25th Nov.'20) | | Milestone-2 achieved | | 3rd Milestone works compensated against remaining works of 2nd milestone | | Milestone-3 Achieved till 31.12.2020 | | |
|------------|--------------------------------------|---|-----------------------|---|-----------------------|----------------------|--|--|---------------------|--------------------------------------|-------------|---------------------|
| | | % | Amount | % | Amount | % | Amount | % | Amount | Target | Achieved | Amount |
| 6 | Road restoration work | | - | | - | | | | - | 38% | | |
| III | TRIAL RUN & COMMISSIONING | | | | | | | | | | | |
| 1 | Trial Run & Commissioning | | | | | | | | | | | |
| | Total Amount | | 478,36,250.00 | | 478,36,250.00 | | 450,48,332.03 | | 28,30,445.94 | | | 42,15,962.42 |
| | Total progress in % | | 1st milestone= | 12.50 % | 2nd milestone= | 11.77 | compensate work of 3rd milestone= | 0.79 | | | 1.10 | |

PHOTOGRAPHS OF UNNAO STP SITE



Supernatant Sump work



Cube test Inspection by AE, UPJN



Curing at Centrifuge Building



Excavation for 1200mm sewer laying work



Ongoing work of Sludge Thickener



SBR Concrete work

7 PRESENT STATUS AND ISSUES OF HAM PROJECT KANPUR

7.1 PANKHA 30 MLD STP FACILITIES

- Raft concreting of I/D work at ICI Nalla has been completed and wall concreting is in progress;
- Raft casting of IPS at ICI Nalla is also completed. Wall Concreting is in progress;
- Sunder Nagar IPS raft concreting has been completed, Wall concreting in progress;
- IPS Sunder Nagar and IPS ICI Nalla area steel hard barricading to be provided. IPS Excavation area slope cutting to be done or shoring as per norms should be provided and soil heaps to be kept away from the excavated pit.
- Wall casting up to 3.0 mtr. of MPS at Pankha STP is completed and works is in progress.
- SBR baffle wall casting is under progress.
- CCT wall concreting work is in progress.
- Sludge Thickener raft casting has been done, wall concreting is under progress.
- 1.9 Km sewer line has been laid.
- Overall work progress is slow and need to be expedited.
- Workman insurance policies to be taken by KRMPPL (only insurance in the name of M/S Shapoorji has been taken, which is not effective enough).
- The Concessionaire shall ensure availability of test reports for construction material and approved drawings along with construction material test lab facility on the site.
- The Concessionaire also needs to - “Develop the site, landscaping, arboriculture, and horticulture etc. at the STP Site.” (CA schedule 1, part B, point (d)).
- Access to CCTVs facility established by concessionaire, should also be given to STC.
- Overall work progress is slow. Till 31st Dec. 2020, total 28.11% progress against 37.5% (up to 3rd milestone which is due on 25.01.2020) achieved.

7.2 UNNAO 15 MLD STP FACILITIES

- Works related to I&D have not been yet started due to acquisition of land for proposed I&D structure is pending at ADM level. The matter of land acquisition is under process with ADM, Unnao.
- Sewer pipeline laying has also not been started.
- MPS excavation approx 60% completed.
- Staff quarter ground floor slab and first floor column completed.
- Compound wall - 112 nos of PCC Footing, RCC Footing and RCC Column works have been completed. RCC column 81 nos (up to plinth beam to top), Plinth beam – 275 mtr and Brick work 224 mt have been completed.
- In SBR – foundation completed. Wall 50% up to base slab 70% completed.
- For Guard room, Floor slab casting and Plaster work on 2 outer side walls completed.
- CCT – 100% Foundation and 50% wall up to base slab completed.
- Staff quarter - RCC 1st floor Slab 70% completed.
- Supernatant sump – 4 Wall 100% completed, walkway work is in progress.

- Sludge thickener - Outer wall raft PCC and RCC, 2nd lift Wall 2.3 mtr height RCC and Sludge sump RCC completed. Sludge thickener base slab PCC and Sludge thickener RCC have been done.
- Centrifuge building – Foundation PCC and RCC completed. Column & Beam Upto First Floor 100% completed.
- Inlet chamber area - Excavation & PCC 100% completed.
- Grit chamber area- excavation 100%completed.
- Entrance gates (1 main gate + 1 alternate), Internal roads, staff quarter and labour huts with all basic facilities need to be established by the Concessionaire on urgent basis.
- Number of CCTVs units need to be increased from at present 2 nos. to minimum 4 nos. access to these CCTVs should also be provided to STC.
- Concessionaire needs to - “Develop the site, landscaping, arboriculture, and horticulture etc. at the STP Site.”(CA schedule 1, part B, point (d))
- The Concessionaire should submit a plan in accordance to the above clause and provide the necessary arrangement for greenery and plantation in the STP area.
- Overall work progress is slow. Till 31st December 2020 total 26.1% progress against 37.5% (up to 3rd milestone which is due on 25.01.2020) achieved.

7.3 SHUKLAGANJ 5 MLD STP FACILITIES

- CTE from the UPPCB has been received on 10.07.2020 (Ref No. - 97724/UPPCB/Unnao (UPPCBRO)/CTE/UNNAO/2020 Dated 07/07/2020).
- However, the site clearance cannot be done as there is dispute / problem of local inhabitants as two houses are in the area of STP land. The locals created agitation and do not let the work begin. After intervention of DM, Unnao, the excavation works related to the boundary wall of proposed STP was started in the presence of police administration. But the work was again stopped as the two house owners have compliant to DM, Unnao that their land is legal. The matter is under investigation with DM, Unnao.
- RCC design and drawing of boundary wall, sludge thickener and guard room submitted by KRMPPL and RCC design of guard room found ok and for other comments sent and compliance awaited from KRMPPL.

7.4 JAJMAU (PHASE – 1) 130 MLD STP AND IPS REHABILITATION

- CTO received on 10.06.2020.
- Handing over is planned by UPJN by 19.07.2020 as agreed by concessionaire but could not materialised due to labour issue.
- In meeting with **APD, SMCG, Lucknow** held on 28.12.2020, it was instructed to Project Manager, Jal Nigam to resolve the labour issue with the help of District Administration.
- **Proposal for Advance Sludge Handling System:** Concessionaire has submitted the proposal of Advance Sludge Handling system for 130 MLD Jajmau, in compliance observation of IITR regarding STP performance vide KRMPPL letter no.783 dated 05.12.2020.

- **GA, Datasheet, Wiring Diagram and QAP for 11 KVA VCB Panel for 130 MLD STP:**
Concessionaire has been submitted the GA, Datasheet, Wiring Diagram and QAP for 11 KVA VCB Panel for 130 MLD STP vide their letter no. 798 dated 12.12.2020. PE has submitted their comments/observation vide STC letter no. 636 dated 17.12.2020. PE has reviewed the submittals after resubmission by concessionaire and found in order and recommended for approval vide STC letter no.647 dated 26.12.2020.

7.5 43 MLD JAJMAU PHASE II

- CTO received on 10.08.2020.
- **Handover of 43 MLD STP Jajmau Ph-II:** A joint Inspection held on 02.12.2020 at Jajmau 43 MLD STP Ph-II and Joint inspection of concerning IPSs and CSPS was also in progress during the month of December 2020. Inspection report regarding the same is yet to be submitted by the concessionaire.
- In meeting with **APD, SMCG, Lucknow** held on 28.12.2020, it was instructed to concessionaire to prepare the inspection report ASAP so that the handover of the STP can be done before 15.01.2021.

7.6 210 MLD BINGAWAN FACILITIES

The schedule date of handover of 210 MLD Bingawan Facilities as per CA was 01/04/2019 but actually could be handed over on 08/07/2019. From handover date itself it was observed and informed from time to time to Concessionaire that the operation and maintenance of the plant was not up to the mark. **Commercial Operation Date of Bingawan facility declared by UPJN as 10.08.2020 vide their letter no 2324/w-37/100 dated 10.09.2020.** O&M bill for Bingawan for first quarter that is from 10.08.2020 to Oct. 2020 has been submitted by KRMPL and it is under process for payment.

Renovation (installation of RTLOMS and rectification of pumps) completion certificate has been issued by UPJN as 10.08.2020 vide UPJN letter no. 2033/w-37/67 dated 18.08.2020 but calibration certificate with witness certificate is yet to be submitted by KRMPL.

Out of 2 nos. electro-magnetic flow meters in inlet, 01 no. has been installed at site and it has been synchronised with RTLOMS. It is not calibrated and need to be provided calibration report. Another 2nd no. electro -magnetic flow meters has not been installed yet.

Electromagnetic flow meter has also to be installed at the outlet channel and to be synchronised with RTOLMS.

Following points need to be addressed:

i. Compliance of Inspection Reports

PE inspected 210 MLD Bingawan STP on 26.11.2020 & IPS on 08.12.2020 and issued inspection reports on 5th December 2020 and 9th December 2020 respectively. Compliance reports on Inspection note at Bingawan facilities on 05.12.2020 and 09.12.2020 has not been submitted by the Concessionaire and the Compliance report of inspection done on 12.11.2020 (previous month) and inspection report issued on 21.11.2020 has also not been submitted by KRMPL. Since 28th January 2020 rectification of defects indicated in different inspection reports has not

been done by the KRMPPL and they are extending dates continuously every month. Copy of Inspection reports of Bingawan site is enclosed.

ii. O&M Manual

Revised O&M manual of Bingawan approved by UPJN vide UPJN letter no. 2088/w-37/71 on 24.08.2020.

iii. Insurance Policies

Renewed Insurance policies had been submitted by KRMPPL vide letter no. 786 dated 08.12.2020 but those are not as per article 11.2 of CA except All Risk Industrial Insurance policy. KRMPPL is required to submit all 5 insurance policies as per article 11.2.

iv. Performance of Plant

a. Cleaning and reactivation of UASB Reactors:

All the KPIs are not being met during the month of December 2020. Out of 16 no's reactors, UASB reactor no. 1, 4 & 8 has been filled for reactivation after cleaning. Reactor no. 2 & 3 has been taken up for cleaning from 04.08.2020 & 20.08.2020 but not completed by the end of Dec. 2020. The Concessionaire has not submitted the action plan for cleaning and reactivation of UASB reactors but taking randomly for cleaning and reactivation. Performance report of Bingawan for the month of December 2020 enclosed.

b. **BFP:** Out of 3, only 2 no. Bed filter press are in working condition but concessionaire is using only 1 BFP because of only 01 no. of trolley is available at site. The Concessionaire has promised that one more BFP will be made operational by 15.10.2020 again extending the date from 15.10.2020 to 31.12.2020.

It was always required to run 2 nos. filter press at a time. So, 2 nos. tractors and 3 nos. trollies always needed at site for disposal of the dewatered sludge.

All 3 nos. of poly dosing pumps installed, 2 nos. are in not working condition due to diaphragm portion is fully damaged.

v. Joint Sampling and Testing by IIT Kanpur

It was decided in the meeting of GM GPCU UPJN on 16-12-2019 (MOM issued vide letter no. 3847/M-2A/116 dated 18-12-2019) that at least once in a month joint sampling of raw sewage and treated effluent will be done by UPJN and KRMPPL and testing to be done by IIT Kanpur. KRMPPL has taken the sample jointly on 18.12.2020 for testing. Only testing report from Spectra research Lab ventures (P) Ltd. of the Joint sample taken on 10.11.2020 has been submitted by concessionaire vide their letter no. 796 dated 12.12.2020 (Report enclosed). Testing report from Spectra research Lab ventures (P) Ltd. of the Joint sample taken on 29.09.2020, 16.10.2020 and 18.12.2020 has not been submitted by concessionaire.

vi. Gas Holder

Out of 2 no's only 1 no. Gas Holder is in working condition. Concessionaire has promised to repair the gas holder no. 2 by 10.11.2020 but not rectified till the end of month of December 2020.

vii. Schedule Maintenance Works for the year 2020-21

Schedule maintenance works as per approved O&M manual were to be started from 01/08/2020, but not started yet.

viii. KPIs Adherence Report

KPIs Adherence report for the month of November 2020 has been submitted by STC vide their letter no.635A dated 17.12.2020. Online Monitoring Analyser report up to December month has not been submitted by concessionaire.

ix. Power Charges Reimbursement

KRMPL has raised the reimbursement of the Power charges of Bingawan facility for the month of August- October 2020 (Ist Quarter) vide their letter no.791 dated 09.12.2020.

7.7 42 MLD SAJARI STP

As per CA, Schedule Handing over date for Sajari is effective date (11.10.2019) but plant was handed over to the KRMPL on 29.05.2019. O&M expenditure from 29.05.2019 until effective date 11.10.2019 has been paid to KRMPL separately which is not covered under CA. Till Dec. 2019 KPIs (especially COD) of treated effluent was not under control and KRMPL was asked by NMCG to suggest improvements for COD to be within prescribed limit. KRMPL proposed to add one additional Aeration Tank on 07.12.2019.

Mr. Madhav Kumar NMCG requested Mr. S. Kamaraju Process Expert STC to visit the Sajari Plant to give his recommendations. Mr. S. Kamaraju Process Expert visited the Sajari Plant on 27-28 Dec 2019 and concluded that the Sajari Plant is designed for all 12 aerators to run without any standby but the plant was being run with 8 aerators only keeping 4 aerators as stand by. All the aerators got functional on 04.02.2020 in the presence of O&M engineer PE. After that it has been observed that since 04/01/2020 all the parameters of treated effluent are within prescribed limits except for the days when parameters of raw sewage are above the prescribed limits for which concessionaire is not responsible. Therefore there is no need for any improvement as suggested by KRMPL.

Commercial Operation Date was declared as 20.06.2020 vide UPJN letter no. 1545/w-20/127 dated 17.06.2020 and **Revised Commercial Operation Date i.e. 11.10.2019 of Sajari facility was declared by UPJN vide their letter no. 2574/w-20/267 dated 26.09.2020.**

Following Points needs to be addressed:

i. Compliance of Inspection Reports

PE inspected 42 MLD STP Sajari on 30.12.2020 and issued inspection note on 05.01.2021. Compliance report of Inspection held at 42 MLD STP on 25.11.2020 and inspection report issued on 27.11.2020 has not been submitted by the concessionaire. Rectification of defects indicated in different inspection reports from the start of the project has not been done by the KRMPL and they are extending dates continuously every month. Copy of Inspection reports of Sajari site is enclosed.

ii. O&M Manual

O&M Manual already approved by UP Jal Nigam.

iii. Insurance Policies

Renewed Insurance policies had been submitted by KRMPL vide letter no. 786 dated 08.12.2020 but those are not as per article 11.2 of CA except All Risk Industrial

Insurance policy. KRMPL is required to submit all 5 insurance policies as per article 11.2.

iv. Performance of Plant:

All KPIs are within prescribed limit for the month of December 2020 except the dates when the parameters of raw sewage are beyond prescribed limit for which concessionaire is not responsible. Performance Report of December 2020 enclosed.

a) Mechanical Screens (Coarse & Fine Screens)

Auto System of Both Mechanical Screens still not repaired.

b) Gas Generators

All 3 no's of Gas Generators installed are not operational since handover date and also there was no Gas unit operator from KRMPL. KRMPL had promised previously to get all the 3 gas generators operational by 30.06.2020 vide KRMPL letter no. 453 dated 11.06.2020 and then extended the date to 30.09.2020 but no action has been taken by concessionaire till the end of Dec. 2020.

v. Joint Sampling and Testing by IIT Kanpur

It was decided in the meeting of GM GPCU UPJN on 16-12-2019 (MOM issued vide letter no 3847/M-2A/116 dated 18-12-2019) that atleast once in a month joint sampling of raw sewage and treated effluent will be done by UPJN and KRMPL and testing to be done by IIT Kanpur. KRMPL has taken the sample jointly on 20.12.2020 for testing. Only testing report from Spectra research Lab ventures (P) Ltd. of the Joint sample taken on 09.11.2020 has been submitted by concessionaire vide their letter no. 804 dated 15.12.2020 (Report enclosed). Testing reports from NABL accredited Laboratory Spectro Research Lab Ventures (P) Ltd of joint samples taken on 18.08.2020, 15.09.2020, 19.10.2020 and 20.12.2020 has not been submitted by the concessionaire.

vi. Power backup and Online Monitoring System

DG set for power backup has been made operational by UPJN on 14.07.2020. Online monitoring system (RTOLMS) has been installed and synchronised but to be calibrated. Outlet Analyser Panel with censor installed at site and synchronised with RTOLMS. Inlet flow meter is under maintenance and outlet flow meter installed at site and to be synchronised with RTOLMS and to be calibrated.

vii. Work plan For Sludge Disposal

Work plan for sludge disposal on UPJN identified land has been submitted by the concessionaire but not following the work plan as submitted. Concessionaire has not submitted the monthly sludge disposal record yet.

viii. Submission of Schedule Maintenance Programme

Concessionaire has not done the scheduled maintenance works for the current year as per approved O&M manual and submission of schedule maintenance programmes for the next year are still pending from the concessionaire side.

ix. Power Charges Reimbursement

KRMPL has raised the reimbursement of the Power charges of Sajari facility for the month of July-Sept. 2020 vide their letter no.752 dated 06.11.2020 but concessionaire has not paid the power charges for the month of July-Sept. 2020 to the power

department (KESCO) and the power connection has been disconnected by the power department.

x. KPIs Adherence Report

Revised KPIs adherence report has been submitted by PE for the month of Oct. & Nov. 2020 vide STC letter no.647 dated 31.12.2020.

GENERAL ISSUES

- 1) Power Back- up to be provided at all locations as per Article 8.7 (b) which is not being accepted by KRMPL.
- 2) As per Article 8.8 (a): At each STP/Pumping Station (new or existing) of all locations, the Concessionaire shall install and maintain an online monitoring system, in accordance with the Technical Specifications and Applicable Laws (including specifically, the EPA) to monitor the volume, specifications and characteristics of the incoming Sewage and the Treated Effluent, as applicable.
- 3) As per Article 11.2: During the O&M Period of the Facilities, the Concessionaire shall obtain and maintain insurance policies including but not limited to the following:
 - (i) loss, damage or destruction of the Facilities, at replacement value;
 - (ii) comprehensive third party liability insurance including injury to or death of personnel of the Jal Nigam or NMCG or others caused by the Project;
 - (iii) the Concessionaire's general liability arising out of the Project;
 - (iv) liability to third parties for goods or property damage;
 - (v) workmen's compensation insurance; and
 - (vi) any other insurance that may be necessary to protect the Facilities, the Concessionaire and its employees, including for all Force Majeure Events that are insurable at commercially reasonable premiums and not otherwise covered in items (i) to (v) above.

8 STATUS OF BEP & OTHER DETAILS

Status of BEPs & other detail are given in following table 6.2:

Table 6.2: BEPs and other details

| SN | Particulars | Status | |
|----|--|---|---|
| | | Approved | Pending |
| 1. | BEPS (Process, Mechanical & Electrical) | GA, Data Sheet and QAP of centrifuge, submersible pump and mechanical grid collection system, Unnao- reviewed & recommended for approval on 25.02.20 GA, Data Sheet and QAP of centrifuge, submersible pump and mechanical grid collection system, Pankha- reviewed & recommended for approval on 28.02.20; BEP process for 130 MLD Jajamu recommended for approval vide STC letter no. 570 dated 24.10.2020 and same has been approved by UPJN vide letter 2930/w-30/39 dated 27.10.2020 | Revised GA & RCC design and drawing for CCT and TEPH for 130 MLD STP Jajmau is pending as there was a level mismatch in between existing HFD and RCC or GA. |

| | | | |
|----|--|--|--|
| | | Electrical load list & SLD recommended it for approval vide their letter no.567 dated 22.10.2020 | |
| 2. | BEP Structure Design & Drawings | <p>SBR Rev Structural design drawing, Unnao- recommended for approval on 30.06.20</p> <p>Guard Room design, Unnao- recommended for approval on 01.04.20</p> <p>SBR REV-RCC design drawing, Unnao- recommended for approval on 11.04.20</p> <p>PTU Rev Structural design drawing, Unnao- recommended for approval on 11.04.20</p> <p>Staff Quarters Revised RCC design of Unnao STP- recommended for approval on 15.04.20</p> <p>Rev Structure design of Blower Room of Unnao STP- recommended for approval on 16.04.20</p> <p>ADMIN build drawing, Unnao- recommended for approval on 10.04.20</p> <p>Sludge thickener & Sludge re-circulation Sump Rev. Structural drawing, Unnao- recommended for approval on 11.04.20</p> <p>CCT Rev Structure design drawing, Unnao- recommended for approval on 10.04.20</p> <p>Blower Room Structure drawing and design of Pankha STP- recommended for approval on 30.04.20</p> <p>Structure drawing of CCT & TEPH, Jajmau- recommendations for approval on 06.03.20</p> <p>Electrical drawing, Pankha- recommendations for approval on 17.03.20</p> <p>Structure drawing, Unnao MPS- recommended for approval on 29.02.20</p> <p>Revised drawing of boundary wall, Unnao- recommended for approval on 29.02.20</p> <p>CTE for Shuklaganj STP received from UPPCB dated 10.07.2020</p> <p>GA, data sheet & QAP - Fine screen, coarse screen and belt conveyor for Unnao vetted by letter no. 455 dated 13.08.2020</p> <p>GA, data sheet & QAP - Centrifuge feed pump Unnao vetted by STC letter no. 463 dated 18.08.2020</p> <p>GA, data sheet & QAP for Dosing Pump –Unnao Vetted by STC letter no. 482 dated 03.09.2020</p> <p>BEP (R5) for Shuklaganj STP recommended for approval on 24.10.20</p> <p>Civil GAD for 5 MLD Shuklaganj STP recommended for approval on 27.11.20</p> | <p>Acquisition of land for I&D works Unnao is under progress;</p> <p>Compliance of comments for Boundary wall is due at KRMPL. Height of Boundary wall of Shuklaganj STP shall be as per CTE received from UPPCB</p> |

| | | | |
|----|----------------------------------|--|---|
| 3. | Construction Plan | <p>Revised construction plan Pankha-recommended for approval on 18.06.20 & 29.07.20 without extending completion date.</p> <p>Revised construction plan Unnao-recommended for approval by STC letter vide on 441 dated 31.07.2020 without extending completion date</p> | |
| 4. | Sewer Network/Line Design | <p>Design and drawings of sewer work Pankha-recommended for approval On 10.02.20</p> <p>Design and drawings of sewer work Unnao-recommended for approval On 20.02.20</p> | |
| 5. | ESHS Plan | <p>ESHS approval-Already vetted by STC. Approved by UPJN on 26.09.19</p> | |
| 6. | O&M | <p>Bingawan RTOLMS - Reviewed & found in order. Recommended for approval on 03.12.19/ 19.12.19 with some conditions</p> <p>Level transmitter & flow metre - vetted & approved on 27.12.19</p> <p>Bingawan O&M manual - approved</p> <p>Sajari O&M manual – Approved</p> <p>43 MLD Jajmau STP is ready to be handed over to the Concessionaire.</p> | <p>Only All Risk Industrial Insurance Policy has been submitted and remaining policies are not submitted after so many reminders. Comprehensive General Liability Policies submitted by concessionaire is not acceptable.</p> <p>43 MLD Jajmau STP - UPJN has written to the Concessionaire to deploy adequate staff for operation of the plant immediately</p> |

9 MEETINGS HELD / MINUTES OF MEETING

- i. A meeting was held by APD, SMCG Lucknow on dated 28.12.2020 to discuss progress of HAM Project Kanpur. MOM attached in annexure 5.

ANNEXURE

ANNEXURE 1: Progress of Work – HAM Project Kanpur

| Date | Name of Activity# | Date of Receipt | Date of Approval (Vet/ Comment) | No. of day taken | Time as per contract (days) | Delay if any (No. of days) [7=6-5] | Reason for delay * | Key Personnel deployed | Man-days of each Key Personnel | Delay by Concessionaire | Reason for delay | Step taken by PE to avoid such delays | Remarks |
|------------|--|-------------------------|--|------------------|------------------------------------|------------------------------------|--------------------|--|--------------------------------|-------------------------|------------------|---------------------------------------|--------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 01.12.2020 | Reminder for submission of relevant support files for smooth & early vetting of document bedding calculation and manhole design and drawing for Unnao. | 28.11.2020 K-777 | 01.12.2020 S-612 | 3 | 20 | | | C.M.Dimri J.P.Tripathi O.P.Asati Satendra Priyesh lokesh Vikas Ajay Rahul Kapil Mahendra | 1+1+1+1+1+1+1+1+1+1+1 | | | | |
| 02.12.2020 | Compliance for | 30.11.2020 | 02.12.2020 | 2 | 20 | | | C.M.Dimri | 1+1+1+1+1+1+1+1+1+1+1 | | | | Vetted & Recommend |

| Date | Name of Activity# | Date of Receipt | Date of Approval (Vet/ Comment) | No. of day taken | Time as per contract (days) | Delay if any (No. of days) [7=6-5] | Reason for delay * | Key Personnel deployed | Man-days of each Key Personnel | Delay by Concessionaire | Reason for delay | Step taken by PE to avoid such delays | Remarks |
|------------|--|--------------------------------------|--|------------------|------------------------------------|---------------------------------------|--------------------|--|--------------------------------|-------------------------|------------------|---------------------------------------|-----------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | gravity sewer line for Unnao. | K-778 | S-613 | | | | | J.P.Tripathi O.P.Asati Linga Satendra Priyesh lokesh Vikas Ajay Rahul Kapil Mahendra | | | | | ed for approval |
| 03.12.2020 | Regarding drawing /datasheet for approval. | 26.11.2020 UPJN-2389/M-47/101 | 03.12.2020 S-614 | 6 | 20 | | | C.M.Dimri J.P.Tripathi O.P.Asati Linga Sunil Anil seth | 1+1+1+1+1+1+1+1+1+1+1+1+1+1+1 | | | | Vetted & Recommended for approval |

| Date | Name of Activity# | Date of Receipt | Date of Approval (Vet/Comment) | No. of day taken | Time as per contract (days) | Delay if any (No. of days) [7=6-5] | Reason for delay * | Key Personnel deployed | Man-days of each Key Personnel | Delay by Concessionaire | Reason for delay | Step taken by PE to avoid such delays | Remarks |
|------------|--|-------------------------------------|---------------------------------------|------------------|------------------------------------|---------------------------------------|--------------------|--|-----------------------------------|-------------------------|------------------|---------------------------------------|-----------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | | | | | | | | Satendra Priyesh lokesh Vikas Ajay Kapil Rahul Mahendra | | | | | |
| 03.12.2020 | Regarding drawing /datasheet for approval. | 23.11.2020 UPJN-2371/M-47/99 | 03.12.2020 S-615 | 10 | 20 | | | C.M.Dimri J.P.Tripathi O.P.Asati Sunil Satendra Priyesh lokesh Vikas Ajay Kapil | 1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1 | | | | Vetted & Recommended for approval |

| Date | Name of Activity# | Date of Receipt | Date of Approval (Vet/ Comment) | No. of day taken | Time as per contract (days) | Delay if any (No. of days) [7=6-5] | Reason for delay * | Key Personnel deployed | Man-days of each Key Personnel | Delay by Concessionaire | Reason for delay | Step taken by PE to avoid such delays | Remarks |
|------------|--|--------------------------------------|---|------------------|------------------------------------|--|--------------------|---|---|-------------------------|------------------|---------------------------------------|-----------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | | | | | | | | Rahul Mahendra | | | | | |
| 03.12.2020 | Regarding drawing /datasheet for approval. | 23.11.2020 UPJN-2372/M-47/100 | 03.12.2020 S-616 | 10 | 20 | - | - | C.M.Dimri J.P.Tripathi O.P.Asati Sunil Satendra Priyesh lokesh Vikas Ajay Kapil Rahul Mahendra | 1+1 | - | - | - | Vetted & Recommended for approval |
| 04.12.2020 | Point 7 of MOM of review meeting held, on | 25.11.2020 K-771 | 04.12.2020 S-617 | 9 | 20 | | | C.M.Dimri J.P.Tripathi O.P.Asati | 1+1 | | | | |

| Date | Name of Activity# | Date of Receipt | Date of Approval (Vet/ Comment) | No. of day taken | Time as per contract (days) | Delay if any (No. of days) [7=6-5] | Reason for delay * | Key Personnel deployed | Man-days of each Key Personnel | Delay by Concessionaire | Reason for delay | Step taken by PE to avoid such delays | Remarks |
|------------|---|-----------------|--|------------------|------------------------------------|------------------------------------|--------------------|--|--------------------------------|-------------------------|------------------|---------------------------------------|---------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | 12.10.2020 by NMCG. | | | | | | | Linga Anil seth Satendra Priyesh lokesh Vikas Ajay Kapil Rahul Mahendra | | | | | |
| 05.12.2020 | Inspection report of 210 MLD Bingawan facilities, inspection done on 26.11.2020 | | 05.12.2020 S-618 | | 20 | | | C.M.Dimri J.P.Tripathi O.P.Asati Linga Anil seth Satendra Priyesh lokesh Vikas | 1+1+1+1+1+1+1+1+1+1+1+1+1 | | | | |

| Date | Name of Activity# | Date of Receipt | Date of Approval | No. of day taken | Time as per contract (days) | Delay if any (No. of days) [7=6-5] | Reason for delay * | Key Personnel deployed | Man-days of each Key Personnel | Delay by Concessionaire | Reason for delay | Step taken by PE to avoid such delays | Remarks |
|------------|--|---------------------|---------------------|------------------|-----------------------------|------------------------------------|--------------------|--|-----------------------------------|-------------------------|------------------|---------------------------------------|---------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | | | | | | | | Ajay Kapil Rahul Mahendra | | | | | |
| 06.12.2020 | Sunday | | | | | | | | | | | | |
| 07.12.2020 | Cost implication due to change FOS of bedding for sewerage network for 30 MLD STP Pankha facilities. | 25.11.2020 K-768 | 07.12.2020 S-621 | 0 | 20 | - | - | C.M.Dimri J.P.Tripathi P. walunjkar O.P.Asati Linga Anil seth Satendra Priyesh lokesh Vikas Ajay Kapil | 1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1 | - | - | - | |

| Date | Name of Activity# | Date of Receipt | Date of Approval (Vet/ Comment) | No. of day taken | Time as per contract (days) | Delay if any (No. of days) [7=6-5] | Reason for delay * | Key Personnel deployed | Man-days of each Key Personnel | Delay by Concessionaire | Reason for delay | Step taken by PE to avoid such delays | Remarks |
|------------|---|----------------------------------|--|------------------|------------------------------------|------------------------------------|--------------------|--|---------------------------------|-------------------------|------------------|---------------------------------------|---------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | | | | | | | | Rahul Mahendra | | | | | |
| 08.12.2020 | Inspection note of Pankha STP facilities (Pipe line work ,IPS sunder nagar and ICI nala) and 7 th Dec 2020 | | 08.12.2020 S-624 | | 20 | | | C.M.Dimri J.P.Tripathi O.P.Asati Linga Anil seth Satendra Priyesh lokesh Vikas Ajay Kapil Rahul Mahendra | 1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1 | | | | |
| 09.12.2020 | Manhole design and drawing for | 08.12.2020 UPJN/2434/M-47/109 | 09.12.2020 S-628 | 1 | 20 | | | C.M.Dimri J.P.Tripathi | 1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1 | | | | |

| Date | Name of Activity# | Date of Receipt | Date of Approval (Vet/ Comment) | No. of day taken | Time as per contract (days) | Delay if any (No. of days) [7=6-5] | Reason for delay * | Key Personnel deployed | Man-days of each Key Personnel | Delay by Concessionaire | Reason for delay | Step taken by PE to avoid such delays | Remarks |
|------------|--------------------------------------|-------------------------|--|------------------|------------------------------------|------------------------------------|--------------------|---|--------------------------------|-------------------------|------------------|---------------------------------------|---------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | Unnao. | | | | | | | O.P.Asati Anil seth Satendra Priyesh lokesh Vikas Ajay Kapil Rahul Mahendra | | | | | |
| 09.12.2020 | Manhole design and drawing for Unnao | 28.11.2020 K-777 | 09.12.2020 S-627 | | 20 | | | C.M.Dimri J.P.Tripathi P. Walunjkar O.P.Asati Linga Satendra Priyesh lokesh Vikas | 1+1+1+1+1+1+1+1+1+1+1+1+1+1 | | | | |

| Date | Name of Activity# | Date of Receipt | Date of Approval (Vet/ Comment) | No. of day taken | Time as per contract (days) | Delay if any (No. of days) [7=6-5] | Reason for delay * | Key Personnel deployed | Man-days of each Key Personnel | Delay by Concessionaire | Reason for delay | Step taken by PE to avoid such delays | Remarks |
|----------------|---|-----------------|--|------------------|------------------------------------|------------------------------------|--------------------|--|---------------------------------|-------------------------|------------------|---------------------------------------|---------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | | | | | | | | Ajay Kapil Rahul Mahendra | | | | | |
| 10.12.20 20 | Insurance policy for Bingawan and Sajari. | | 10.12.20 20 S-629 | | 20 | | | C.M.Dimri J.P.Tripathi P. Walunjkar O.P.Asati Linga Anil seth Satendra Priyesh lokesh Vikas Ajay Kapil Rahul Mahendra | 1+1+1+1+1+1+1+1+ 1+1+1+1+1+1 | | | | |

| Date | Name of Activity# | Date of Receipt | Date of Approval (Vet/ Comment) | No. of day taken | Time as per contract (days) | Delay if any (No. of days) [7=6-5] | Reason for delay * | Key Personnel deployed | Man-days of each Key Personnel | Delay by Concessionaire | Reason for delay | Step taken by PE to avoid such delays | Remarks |
|------------|--|-------------------------|--|------------------|------------------------------------|---------------------------------------|--------------------|---|--------------------------------|-------------------------|------------------|---------------------------------------|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 11.12.2020 | Rcc design & drawing for CCT inlet raft & outlet channel for 15 MLD Unnao STP. | 04.11.2020 K-742 | 11.12.2020 S-631 & Mail 27.11.2020 | | 20 | | | C.M.Dimri J.P.Tripathi P. Walunjar O.P.Asati Linga Anil seth Satendra Priyesh lokesh Vikas Ajay Kapil Rahul Mahendra | 1+1+1+1+1+1+1+1+1+1+1+1+1 | | | | Pankha STP Site Visit with UPJN and KRML. |
| 12.12.2020 | Second Saturday | | | | | - | - | | | - | - | - | |
| 13.12.2020 | Sunday | | | | | | | | | - | - | - | |

| Date | Name of Activity# | Date of Receipt | Date of Approval (Vet/ Comment) | No. of day taken | Time as per contract (days) | Delay if any (No. of days) [7=6-5] | Reason for delay * | Key Personnel deployed | Man-days of each Key Personnel | Delay by Concessionaire | Reason for delay | Step taken by PE to avoid such delays | Remarks |
|------------|--|---------------------|--|------------------|------------------------------------|---------------------------------------|--------------------|--|---|-------------------------|------------------|---------------------------------------|--------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 14.12.2020 | Rcc design & drawing for CCT inlet raft & outlet channel for 15 MLD Unnao STP. | 04.11.2020 K-742 | 11.12.2020 S-631 & Mail 27.11.2020 | 7 | 20 | | | C.M.Dimri J.P.Tripathi O.P.Asati Linga Anil seth Satendra Priyesh lokesh Vikas Ajay Kapil Rahul Mahendra | 1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1 | | | | Under Review |
| 15.12.2020 | Approval of Equipment specificati | 07.12.2020 K-785 | 15.12.2020 S-634 | 8 | 20 | | | C.M.Dimri J.P.Tripathi O.P.Asati | 1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1 | | | | |

| Date | Name of Activity# | Date of Receipt | Date of Approval | No. of day taken | Time as per contract (days) | Delay if any (No. of days) [7=6-5] | Reason for delay * | Key Personnel deployed | Man-days of each Key Personnel | Delay by Concessionaire | Reason for delay | Step taken by PE to avoid such delays | Remarks |
|------------|---|---------------------|---------------------|------------------|-----------------------------|------------------------------------|--------------------|--|--------------------------------|-------------------------|------------------|---------------------------------------|--------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | on for Unnao facilities. | | | | | | | Linga Anil seth Satendra Priyesh lokesh Vikas Ajay Kapil Rahul Mahendra | | | | | |
| 16.12.2020 | Approval of Equipment specification for Unnao facilities. | 07.12.2020 K-785 | 15.12.2020 S-634 | 8 | 20 | | | C.M.Dimri J.P.Tripathi O.P.Asati Linga Anil seth Satendra Priyesh lokesh Vikas | 1+1+1+1+1+1+1+1+1+1+1+1+1+1 | - | - | - | Under Review |

| Date | Name of Activity# | Date of Receipt | Date of Approval (Vet/ Comment) | No. of day taken | Time as per contract (days) | Delay if any (No. of days) [7=6-5] | Reason for delay * | Key Personnel deployed | Man-days of each Key Personnel | Delay by Concessionaire | Reason for delay | Step taken by PE to avoid such delays | Remarks |
|------------|--|---------------------|--|------------------|------------------------------------|------------------------------------|--------------------|--|--------------------------------|-------------------------|------------------|---------------------------------------|---------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | | | | | | | | Ajay Kapil Rahul Mahendra | | | | | |
| 17.12.2020 | Kpis adherence report of Bingawan for the month of Nov-20. | 12.12.2020 K-796 | 17.12.2020 S-635 | 5 | 20 | | | C.M.Dimri J.P.Tripathi O.P.Asati Linga Anil seth Satendra Priyesh lokesh Vikas Ajay Kapil Rahul Mahendra | 1+1+1+1+1+1+1+1+1+1+1+1+1 | - | - | - | |
| 17.12.2020 | Submission of GA, | 12.12.2020 | 17.12.2020 | 5 | 20 | | | C.M.Dimri | 1+1+1+1+1+1+1+1+1+1+1+1+1 | - | - | - | |

| Date | Name of Activity# | Date of Receipt | Date of Approval (Vet/Comment) | No. of day taken | Time as per contract (days) | Delay if any (No. of days) [7=6-5] | Reason for delay * | Key Personnel deployed | Man-days of each Key Personnel | Delay by Concessionaire | Reason for delay | Step taken by PE to avoid such delays | Remarks |
|------------|---|-------------------------|---------------------------------------|------------------|------------------------------------|---------------------------------------|--------------------|---|--------------------------------|-------------------------|------------------|---------------------------------------|--------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | datasheet, wiring Diagram & QAP, for 11KA VCB panel for 130 MLD Jajmau. | K-798 | S-636 | | | | | J.P.Tripathi O.P.Asati Linga Anil seth Satendra Priyesh lokesh Vikas Ajay Kapil Rahul Mahendra | | | | | |
| 18.12.2020 | Submission of GA, datasheet, wiring Diagram & QAP, for 11KA VCB panel for 130 MLD | 12.12.2020 K-798 | 17.12.2020 S-636 | 5 | 20 | - | - | C.M.Dimri J.P.Tripathi O.P.Asati Linga Anil seth Satendra Priyesh | 1+1+1+1+1+1+1+1+1+1+1+1 | - | - | - | Under Review |

| Date | Name of Activity# | Date of Receipt | Date of Approval | No. of day taken | Time as per contract (days) | Delay if any (No. of days) [7=6-5] | Reason for delay * | Key Personnel deployed | Man-days of each Key Personnel | Delay by Concessionaire | Reason for delay | Step taken by PE to avoid such delays | Remarks |
|------------|---|---------------------|---------------------|------------------|-----------------------------|------------------------------------|--------------------|--|--------------------------------|-------------------------|------------------|---------------------------------------|---------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | Jajmau. | | | | | | | lokesh Vikas Ajay Kapil Rahul Mahendra | | | | | |
| 19.12.2020 | Jajmau 130 MLD STP proposal for sludge handling system. | 05.12.2020 K-783 | 19.12.2020 S-637 | 14 | 20 | | | C.M.Dimri J.P.Tripathi O.P.Asati Linga Anil seth Satendra Priyesh lokesh Vikas Ajay Kapil Rahul Mahendra | 1+1+1+1+1+1+1+1+1+1+1+1 | | | | |

| Date | Name of Activity# | Date of Receipt | Date of Approval (Vet/ Comment) | No. of day taken | Time as per contract (days) | Delay if any (No. of days) [7=6-5] | Reason for delay * | Key Personnel deployed | Man-days of each Key Personnel | Delay by Concessionaire | Reason for delay | Step taken by PE to avoid such delays | Remarks |
|------------|--|---------------------|--|------------------|------------------------------------|------------------------------------|--------------------|--|--------------------------------|-------------------------|------------------|---------------------------------------|--------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 20.12.2020 | Sunday | | | | | | | | | | | | |
| 21.12.2020 | Submission of RCC design and drawing of Guard room for 5 MLD Shuklaganj STP. | 12.12.2020 K-803 | 21.12.2020 | 9 | 20 | | | C.M.Dimri J.P.Tripathi O.P.Asati Linga Anil seth Satendra Priyesh lokesh Vikas Ajay Kapil Rahul Mahendra | 1+1+1+1+1+1+1+1+1+1+1+1+1 | | | | Under Review |
| 22.12.2020 | Submission of RCC design and drawing | 12.12.2020 K-803 | 22.12.2020 S-639 | 10 | 20 | | | C.M.Dimri J.P.Tripathi O.P.Asati | 1+1+1+1+1+1+1+1+1+1+1+1+1 | | | | |

| Date | Name of Activity# | Date of Receipt | Date of Approval (Vet/ Comment) | No. of day taken | Time as per contract (days) | Delay if any (No. of days) [7=6-5] | Reason for delay * | Key Personnel deployed | Man-days of each Key Personnel | Delay by Concessionaire | Reason for delay | Step taken by PE to avoid such delays | Remarks |
|------------|---|-------------------------|--|------------------|------------------------------------|---------------------------------------|--------------------|--|--------------------------------|-------------------------|------------------|---------------------------------------|---------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | of Guard room for 5 MLD Shuklaganj STP. | | | | | | | Linga Anil seth Satendra Priyesh lokesh Vikas Ajay Kapil Rahul Mahendra | | | | | |
| 23.12.2020 | Submission of RCC design and drawing of sludge thickener for 5MLD Shuklaganj. | 12.12.2020 K-803 | 23.12.2020 S-643 | | 20 | | | C.M.Dimri J.P.Tripathi O.P.Asati Linga Anil seth Satendra Priyesh lokesh Vikas | 1+1+1+1+1+1+1+1+1+1+1+1+1 | | | | |

| Date | Name of Activity# | Date of Receipt | Date of Approval (Vet/ Comment) | No. of day taken | Time as per contract (days) | Delay if any (No. of days) [7=6-5] | Reason for delay * | Key Personnel deployed | Man-days of each Key Personnel | Delay by Concessionaire | Reason for delay | Step taken by PE to avoid such delays | Remarks |
|------------|--|---------------------|------------------------------------|------------------|--------------------------------|---------------------------------------|--------------------|--|--------------------------------|-------------------------|------------------|---------------------------------------|--------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | | | | | | | | Ajay Kapil Rahul Mahendra | | | | | |
| 24.12.2020 | Request for issuance of variation order as trenchless work envisaged at sewage network of 30 MLD STP,Pankha. | 18.12.2020 K-809 | 24.12.2020 S-646 | 6 | 20 | | | C.M.Dimri J.P.Tripathi O.P.Asati Linga Anil seth Satendra Priyesh lokesh Vikas Ajay Kapil Rahul Mahendra | 1+1+1+1+1+1+1+1+1+1+1+1+1 | | | | |
| 25.12.2020 | Request for | 18.12.2020 | 24.12.2020 | | 20 | | | C.M.Dimri | 1+1+1+1+1+1+1+1+1+1+1+1+1 | | | | Under review |

| Date | Name of Activity# | Date of Receipt | Date of Approval (Vet/ Comment) | No. of day taken | Time as per contract (days) | Delay if any (No. of days) [7=6-5] | Reason for delay * | Key Personnel deployed | Man-days of each Key Personnel | Delay by Concessionaire | Reason for delay | Step taken by PE to avoid such delays | Remarks |
|------------|--|-------------------------|--|------------------|------------------------------------|---------------------------------------|--------------------|--|--------------------------------|-------------------------|------------------|---------------------------------------|--------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | issuance of variation order as trenchless work envisaged at sewage network of 30 MLD STP,Pankha. | K-809 | S-646 | | | | | J.P.Tripathi O.P.Asati Linga Satendra Priyesh lokesh Vikas Ajay Kapil Rahul Mahendra | | | | | |
| 26.12.2020 | Request for issuance of variation order as trenchless work envisaged at sewage network of 30 MLD | 18.12.2020 K-809 | 24.12.2020 S-646 | | 20 | | | C.M.Dimri J.P.Tripathi O.P.Asati Satendra Priyesh lokesh Vikas Ajay | 1+1+1+1+1+1+1+1+1+1+1+1 | | | | Under review |

| Date | Name of Activity# | Date of Receipt | Date of Approval (Vet/ Comment) | No. of day taken | Time as per contract (days) | Delay if any (No. of days) [7=6-5] | Reason for delay * | Key Personnel deployed | Man-days of each Key Personnel | Delay by Concessioneer | Reason for delay | Step taken by PE to avoid such delays | Remarks |
|------------|-----------------------|-----------------|---|------------------|------------------------------------|------------------------------------|--------------------|--|--------------------------------|------------------------|------------------|---------------------------------------|---------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | STP,Pankha. | | | | | | | Kapil Rahul Mahendra | | | | | |
| 27.12.2020 | Sunday | | | | | | | | | | | | |
| 28.12.2020 | Pankaha Site Visit | | | | 20 | | | C.M.Dimri J.P.Tripathi O.P.Asati Satendra Priyesh Iokesh Vikas Ajay Kapil Rahul Mahendra | 1+1+1+1+1+1+1+1+1+1+1+1+1+1+1 | | | | |
| 29.12.2020 | Shuklaganj Site Visit | | | | | | | C.M.Dimri J.P.Tripathi O.P.Asati Satendra | 1+1+1+1+1+1+1+1+1+1+1+1+1+1+1 | | | | |


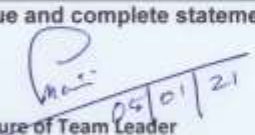
| Date | Name of Activity# | Date of Receipt | Date of Approval (Vet/Comment) | No. of day taken | Time as per contract (days) | Delay if any (No. of days) [7=6-5] | Reason for delay * | Key Personnel deployed | Man-days of each Key Personnel | Delay by Concessionsaire | Reason for delay | Step taken by PE to avoid such delays | Remarks |
|------------|-------------------|-----------------|---------------------------------------|------------------|------------------------------------|------------------------------------|--------------------|--|---------------------------------|--------------------------|------------------|---------------------------------------|--------------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | | | | | | | | Priyesh lokesh Vikas Ajay Kapil Rahul Mahendra | | | | | |
| 30.12.2020 | Unnao Site Visit | | | | | | | C.M.Dimri J.P.Tripathi O.P.Asati Satendra Priyesh lokesh Vikas Ajay Kapil Rahul Mahendra | 1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1 | | | | We had prepared mom for Pankha site. |
| 31.12.2020 | Revised KPIs | 15.12.2020 | 31.12.2020 | 16 | 20 | | | C.M.Dimri | 1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1 | | | | We had prepared |

Note: Man-days and respective inputs of experts for the month of November 20 are:

| SN | Name | Designation | Total Man-days | Input |
|----|------------------------------|----------------------------|----------------|--------------------|
| 1. | Mr. Chandra Mauleshwar Dimri | Senior Civil Engineer | 31 | Timesheet attached |
| 2. | Mr. Jai Prakash Tripathi | O&M Engineer | 31 | Timesheet attached |
| 3. | Mr. Anil Kumar Seth | Senior Electrical Engineer | 23 | Timesheet attached |
| 4. | Mr. Sunil Basutkar | Senior Mechanical Engineer | 03 | Timesheet attached |
| 5. | Mr. OP Asati | O&M Engineer | 21 | Timesheet attached |
| 6. | Mr. Preetam Walunjkar | Structural Engineer | 04 | Timesheet attached |
| 7. | Mr. Linga Krishna Rao | Safety expert | 24 | Timesheet attached |

Annexure 2: Timesheets of Experts

Mr. C.M. Dimri (Senior Civil Engineer)

| | | |
|--|--|--------------------|
| Project Engineer | Shah Technical Consultants Pvt Limited | |
| NMCG-STP Projects at Kanpur under Hybrid Annuity based PPP Mode | | |
| Daily Report | | |
| Name : | Er. C.M.Dimri | Month/Year: |
| Position: | Senior Engineer Civil cum T.L. | Dec-20 |
| Date | Description | Location |
| 1 | Office work / Unnao submittals with Staadprofile instruction to upjn | Kanpur |
| 2 | Unnao sewerline vetting and discussion with EE UPJN Unnao | Kanpur |
| 3 | Off. W./ Jajmau STP Phase I &II, visit by ED TechNMCG Delhi | Kanpur |
| 4 | Visit of Pankha facilities regarding visit of ED NMCG | Kanpur |
| 5 | Meeting with PM E&M Kanpur regarding Bingwan O&M | Kanpur |
| 6 | SUNDAY | Kanpur |
| 7 | Office work/ Discussion about 6 m boundary wall withEE/KRMPL | Kanpur |
| 8 | Discussion with KRMPL about progress of mile stones | Kanpur |
| 9 | Office work/ Vetting of MH Chamber precast design | Kanpur |
| 10 | Discussion with KRMPL about progress of mile stonesM and O& | Kanpur |
| 11 | Unnao CCT outlet and inlet design vetting. | Kanpur |
| 12 | SECOND SATURDAY | Kanpur |
| 13 | SUNDAY | Kanpur |
| 14 | Unnao Sludge thickner B Wall and guard R Design appraise | Kanpur |
| 15 | Unnao desisigns as above appraised | Kanpur |
| 16 | Meeting with CE Kanpur about HAM progress | Kanpur |
| 17 | Data sheet of Jajmau 130 MLD STP appraised | Kanpur |
| 18 | KPI Adherence report appraised | Kanpur |
| 19 | Jajmau STP sludge handling system discussed with KRMPL | Kanpur |
| 20 | SUNDAY | Kanpur |
| 21 | Detail explanation about KRMPL Complain explained to GM UPJN | Kanpur |
| 22 | Appraisal of daily reportof sajari & Bingwan | Kanpur |
| 23 | Meeting with new joined CE Kanpur about HAM progress | Kanpur |
| 24 | discussion with UPJN about progress and Bedding calculations | Kanpur |
| 25 | Appraisal of daily reportof sajari & Bingwan STPs | Kanpur |
| 26 | Appraisal of KRMPLE compliance report of inspection by STC | Kanpur |
| 27 | SUNDAY | Kanpur |
| 28 | MEETING with APD SMCG Lucknow on HAM Progress | Kanpur |
| 29 | MPR Of July appraised | Kanpur |
| 30 | Office Work and discussion on Pankha progress | Kanpur |
| 31 | Office work and review of MPR | Kanpur |
| I hereby certify that the time report above is a true and complete statement of my working time | | |
|  Signature of Employee |  Signature of Team Leader | |

Mr. J. P. Tripathi (O&M Engineer)

| Project Engineer | | Shah Technical Consultants Pvt Limited | |
|---|---|--|--------|
| NMCG-STP Projects at Kanpur under Hybrid Annuity based PPP Mode | | | |
| Daily Report | | | |
| Name : | JAI PRAKASH TRIPATHI | Month/Year: | Dec-20 |
| Position: | O & M ENGINEER | Location | Kanpur |
| Date | Description | | |
| 1 | Prepared Time sheet and Invoice of Nov. 2020 | Kanpur | |
| 2 | Discussed with PM (E & M) GPCU UPJN Kanpur regarding Gauranteed Energy consumption for O & M of Sajari and Bingawan Facilities | Kanpur | |
| 3 | Discussed wit PM III GPCU UPJN Kanpur regarding O & M Payment bill of Bingagawan submitted by KRMPPL | Kanpur | |
| 4 | Wrote letter to GM GPCU UPJN regarding point 7 of MOM of NMCG Review Meeting held on 12/11/2020 | Kanpur | |
| 5 | Corrected and forwarded the inspection report of Bingawan facilities done on | Kanpur | |
| 6 | Sunday | | |
| 7 | Reviewed insurance policies for Bingawan and Sajari submitted by KRMPPL | Kanpur | |
| 8 | Discussed with PM II & PM (E & M) GPCU UPJN Kanpur regarding O & M Payment bill for power consumption of Sajari submitted by KRMPPL | Kanpur | |
| 9 | Corrected and forwarded the inspection report of Associated Works of Bingawan facilities done on 08/12/2020 | Kanpur | |
| 10 | Wrote letter to GM GPCU UPJN regarding Insurance Policies for Bingawan and Sajari | Kanpur | |
| 11 | Wrote letter to GM GPCU UPJN regarding O & M payments for Bingawan due to COVID-19 lockdown | Kanpur | |
| 12 | Second Saturday | | |
| 13 | Sunday | | |
| 14 | Prepared MPR of Bingawan and Sajari for the month of Oct. 2020 | Kanpur | |
| 15 | Wrote letter to GM GPCU UPJN regarding completion of balance works at Bingawan | Kanpur | |
| 16 | Attended meeting with GM GPCU UPJN Kanpur | Kanpur | |
| 17 | Prepared reply to KRMPPL letter No. 770 dated 25/11/2020 | Kanpur | |
| 18 | Wrote letter to GM GPCU UPJN regarding KPIs Adherence Report of Bingawan for the month of Nov. 2020 (Letter No. 635) | Kanpur | |
| 19 | Prepared reply to KRMPPL letter No. 770 dated 25/11/2020 | Kanpur | |
| 20 | Sunday | | |
| 21 | Wrote letter to GM GPCU UPJN regarding KPIs Adherence Report of Bingawan for the month of Nov. 2020 (Letter No. 639) | Kanpur | |
| 22 | Wrote letter to GM GPCU UPJN regarding KPIs Adherence Report of Sajari for the month of Oct & Nov. 2020 | Kanpur | |
| 23 | Attended meeting with CE UPJN Kanpur regarding HAM Project Kanpur | Kanpur | |
| 24 | Reviewed inspection report of Ham Project Kanpur done by SMCG team from 14/09/2020 to 16/09/2020 | Kanpur | |
| 25 | Helped in preparation of present status of HAM project Kanpur for the meeting of SMCG on 28/12/2020 | Kanpur | |
| 26 | Corrected and finalized present status of HAM project Kanpur for the meeting of SMCG on 28/12/2020 | Kanpur | |
| 27 | Sunday | | |
| 28 | Attended meeting called by APD SMCG in SMCG office Lucknow | Kanpur | |
| 29 | Reviewed compliance report of inspection report of Ham Project Kanpur done by SMCG team from 14/09/2020 to 16/09/2020 submitted by KRMPPL | Kanpur | |
| 30 | Corrected and updated MPR of Nov. 2020 | Kanpur | |
| 31 | Wrote letter to GM GPCU UPJN regarding revised KPIs Adherence Report of Sajari for the month of Oct & Nov. 2020 | Kanpur | |

I hereby certify that the time report above is a true and complete statement of my working time for the payroll period.

Signature of Employee

Signature of Team Leader

Mr. A. K. Seth (Senior Electrical Engineer)

| Project Engineer | | Shah Technical Consultants Pvt Limited | |
|---|---|--|-------------|
| NMCG-STP Projects at Kanpur under Hybrid Annuity based PPP Mode | | | |
| Daily Report | | | |
| Name : | ANIL KUMAR SETH | | Month/Year: |
| Position: | Senior Electrical Eng. | | Dec-19 |
| Date | Description | Location | |
| 1 | | | |
| 2 | | | |
| 3 | Electrical points incorporated in inspection report of Sajwan STP | | KNP |
| 4 | Electrical points incorporated in inspection report of Bijnawan P.S | | KNP |
| 5 | Electrical points incorporated in inspection report of Sajwan P.S | | KNP |
| 6 | SUNDAY | | |
| 7 | Electrical points incorporated in the inspection report of Bijnawan STP | | KNP |
| 8 | Discussion regarding thickness of HT Panels & IP protection | | KNP |
| 9 | Helped in preparing reply of Jal Nigam unnao regarding approval of equipment specification | | KNP |
| 10 | Annexure of Sep & Aug 2020 for MPR - progress of work | | KNP |
| 11 | Helped in preparing MPR Sep 2020 by providing inputs of Electrical part | | KNP |
| 12 | Second Saturday | | |
| 13 | SUNDAY | | |
| 14 | Checking of load list of ShuklaGanj 500 LB STP. Helped in preparing map for the month of Oct 2020 | | KNP |
| 15 | Checking of Calculators of Transform Capacity of 500 LB ShuklaGanj | | KNP |
| 16 | Helped in wiring of IE-2 & IE-3 motor protection. | | KNP |
| 17 | Checking of S&D of ShuklaGanj 500 LB ShuklaGanj | | KNP |
| 18 | Helped in preparing reply of letter from concessionaire regarding delay at STP level. | | KNP |
| 19 | Helped in preparing reply of letter from concessionaire regarding delay at STP level | | KNP |
| 20 | SUNDAY | | |
| 21 | Review the status of work connected with all STP(S) | | KNP |
| 22 | Review of Annexure MPR Oct 2020. | | KNP |
| 23 | Review of the drawing connected with Jajman HT Panel | | KNP |
| 24 | Regarding penalty on Electric Consumption for Bijnawan & discussion with PM, UP Jal Nigam | | KNP |
| 25 | Discussion regarding penalty on Bijnawan O/M & HT panel for Jajman. | | KNP |
| 26 | | | |
| 27 | | | |
| 28 | | | |
| 29 | | | |
| 30 | | | |
| 31 | | | |

I hereby certify that the time report above is a true and complete statement of my working time for the payroll period.

Signature of Employee

Signature of Team Leader

Mr. P Walunjkar (Structure Engineer)

wwRAJASTHAN RURAL WATER SUPPLY & FLUOROSIS MITIGATION PROJECT (NAGOUR)
PMSC: STC-NKI-AECOM JV
MONTHLY ACTIVITY RECORD

Name: / Preetam Walunjkar (Structural Specialist)

Month / Year: DEC 2020

| Date | Package | Location | Details of Work |
|------------|---------|------------|--|
| 01-12-2020 | Nagaur | Site Visit | Site Visit to Check Layout Plan of CWR with DTL & CE |
| 02-12-2020 | Nagaur | Office | RCC Estimate preparation for Deshnok CWR with DTL |
| 03-12-2020 | Nagaur | Office | Meeting with CE for Deshnok Issue Layout Plan |
| 04-12-2020 | Nagaur | Office | Meeting with SE,DTL & CE for Deshnok Issue Layout Plan |
| 05-12-2020 | | | Saturday Holiday |
| 06-12-2020 | | | Sunday Holiday |
| 07-12-2020 | Kanpur | Office | Check Boundary wall Shuklaganj STP |
| 08-12-2020 | Nagaur | Office | Check Transformer foundation drg replied as rejected |
| 09-12-2020 | Kanpur | Office | Check Manhole chambers Dia 1800 in Unnao STP & replied OK |
| 10-12-2020 | Kanpur | Office | Check Treated Effluent disposal channel Unnao Staad file & SBC Re prt |
| 11-12-2020 | Kanpur | Office | Check Treated Effluent disposal RCC Drg channel Unnao |
| 12-12-2020 | | | Saturday Holiday |
| 13-12-2020 | | | Sunday Holiday |
| 14-12-2020 | Nagaur | Site Visit | Borawad ESR Site visit to check Bottom Dome, Conical wall & Balcony beam |
| 15-12-2020 | Nagaur | Office | Preparation of Site Visit Report Borawad ESR |
| 16-12-2020 | Nagaur | Office | Check the site correction on mobile for Borawad ESR |
| 17-12-2020 | Nagaur | Office | Review the balanced work in as build drawing in Kuchaman site |
| 18-12-2020 | Nagaur | Office | Meeting with CE for Deshnok Issue Layout Plan & Hydraulic calculation |
| 19-12-2020 | | | Saturday Holiday |
| 20-12-2020 | | | Sunday Holiday |
| 21-12-2020 | Nagaur | Office | Co-ordination with L&T Structural Engg for Deshnok CWR issue |
| 22-12-2020 | Nagaur | Office | Meeting with CE for Deshnok Issue Layout Plan & Hydraulic calculation |
| 23-12-2020 | Nagaur | Office | Co-ordination with L&T Structural Engg for Deshnok CWR issue |
| 24-12-2020 | Nagaur | Office | Meeting with CE for Deshnok CWR & Half day no power so no work |
| 25-12-2020 | | | Holiday Christmas |
| 26-12-2020 | | | Saturday Holiday |
| 27-12-2020 | | | Sunday Holiday |
| 28-12-2020 | Nagaur | Office | Review RCC As build Pump House RCC Drawings Kuchaman Package |
| 29-12-2020 | Nagaur | Office | Whole day no power so no work |
| 30-12-2020 | Nagaur | Office | Meeting with CE for Deshnok Issue Layout Plan & Hydraulic calculation |
| 31-12-2020 | Nagaur | Site | Site Visit Kuchaman Package CDS 06 to check rectification suggested |

SIGNATURE

TL/ DTL
PMSC for RRWS&FMP (Nagaur)

Mr. O.P. Asati (O&M Engineer)

| Project Engineer | | Shah Technical Consultants Pvt Limited | |
|---|--|--|--------|
| NMCG-STP Projects at Kanpur under Hybrid Annuity based PPP Mode | | | |
| Daily Report | | | |
| Name : | O.P Asati | Month/Year: | Dec-20 |
| Position: | O&M Incharge | | |
| Date | Description | Location | |
| 1 | Site visit and Inspection of 68 MLD STP, Jagjeetpur, Haridwar, | Haridwar | |
| 2 | Collection of O&M data of 68 MLD STP for the review and MPR purpose. | Haridwar | |
| 3 | Site visit and Inspection of 14 MLD STP, Sarai, Haridwar. | Haridwar | |
| 4 | Collection of O&M data of 14 MLD STP for the review and MPR purpose. | Haridwar | |
| 5 | Review of comparison sheet of bedding calculation design with FOS1.1 & 1.5 for the Pankha project. | Kanpur | |
| 6 | SUNDAY | | Kanpur |
| 7 | Review & Approval of Bedding calculation design of Unnao project and drafted letter regarding variation of bedding design calculation of Pankha Project. | Kanpur | |
| 8 | Review of Sludge handling system for 130 MLD Jajmau facility. | Kanpur | |
| 9 | Drafted 2nd milestone certificate for Pankha & Unnao and Follow up Jajmau Sludge Handling system. | Kanpur | |
| 10 | Input some observations in Bingawan & Sajari letter regarding All risk Policy of Bingawan & Sajari and review jajmau 130 MLD STP BEP and design. | Kanpur | |
| 11 | Inputs in preparing MPR for the month of Oct. 2020 of HAM Kanpur Project. | Kanpur | |
| 12 | SECOND SATURDAY | | Kanpur |
| 13 | SUNDAY | | Kanpur |
| 14 | Leave | | Kanpur |
| 15 | Leave | | Kanpur |
| 16 | Leave | | Kanpur |
| 17 | Leave | | Kanpur |
| 18 | Leave | | Kanpur |
| 19 | Leave | | Kanpur |
| 20 | SUNDAY | | Kanpur |
| 21 | Review of 130 MLD STP Jajmau pending issues regarding design and drawing. | Kanpur | |
| 22 | Inputs in preparing the status of Jajmau for the meeting of SMCG. | Kanpur | |
| 23 | Final review of HAM kanpur status for the meeting with SMCG at Lucknow. | Kanpur | |
| 24 | Inputs in Preparing the MPR of the Jajmau 130 & 43 MLD Facility. | Kanpur | |
| 25 | Inputs in Preparing the MPR for the month of Oct. 2020 & review of Jajmau documents. | Kanpur | |
| 26 | Inputs in drafting a letter regarding GA, datasheet, wiring diagram and QAP of 11KV VCB Panel for 130 MLD Jajmau. | Kanpur | |
| 27 | SUNDAY | | Kanpur |
| 28 | Review of 130 MLD STP Jajmau pending issues regarding design and drawing. | Kanpur | |
| 29 | Final Review in the MPR for the month of Oct. 2020 of HAM Kanpur Project. | Kanpur | |
| 30 | Input in the MPR for the month of Nov. 2020 of HAM Kanpur Project & other office works. | Kanpur | |
| 31 | Inputs in the MPR for the month of Nov. 2020 of HAM Kanpur Project & other office works. | Kanpur | |

I hereby certify that the time report above is a true and complete statement of my working time for the payroll period.


Signature of Employee


Signature of Team Leader

Mr. L.K. Rao (Safety Expert)

| Project Engineer | Shah Technical Consultants Pvt Limited | |
|---|--|-------------|
| NMCG-STP Projects at Kanpur under Hybrid Annuity based PPP Mode | | |
| Daily Report | | |
| Name : | Linga Krishna Rao | Month/Year: |
| Position: | Safety Expert | Dec-20 |
| Date | Description | Location |
| 2 | Office work attended, Unnao 15 MLD Project inspection done along with STC & KRMPL Representatives | Kanpur |
| 3 | Office work attended, Unnao 15 MLD Project inspection report prepared. Attended the meeting of NMCG Executive Director Mr. DP Muturia along GM UPJN & their staff at Jajnao 20 MLD CETP. | Kanpur |
| 4 | Office work attended, Attended the meeting of NMCG Executive Director Mr. DP Muturia along GM UPJN & their staff at Panka 30 MLD Construction site. Panka 30 MLD Project site inspection along with NMCG EG, UPJN GM & their Representatives, STC Representatives and KRMPL Representatives. | Kanpur |
| 5 | Office work attended, Unnao 15 MLD construction site inspection report prepared and shown to TL Sir for further needful | Kanpur |
| 6 | SUNDAY | Kanpur |
| 7 | Office work attended, STP 30 MLD Panka, IPS 20 MLD Sunder Nagar, IPS 25 MLD ICI Nala, 800 mm Dia Aghorchowck, 450 mm Dia Nahar to Bhngumumi chowck. Panka 30 MLD Construction Project inspection done along with Support Engineers Mr. Satendra Sharma and Mr. Mahendra Nath Dubey. | Kanpur |
| 8 | Office work attended, IPS Rakhimandi, IPS Munisipurva, IPS Halwakanda Plants Inspection done along with three Support Engineers/Supervisors | Kanpur |
| 9 | Office work attended, IPS Rakhimandi, IPS Munisipurva, IPS Halwakanda Plants Inspection report prepared along with Support Engineers and sent to the concerned personnel. | Kanpur |
| 10 | Office work attended, IPS 20 MLD Sunder Nagar pit PCC work inspected along with Mr. Mahendra Nath Dubey, Support Supervisor STC and advised the KRMPL to adhere the safety precautions like using life lines, safety harness, sheet piling, removal of edge top bricks & soil and proper supervision till the completion of the work safely. | Kanpur |
| 11 | Office work attended, Panka 30 MLD Construction Project facilities -IPS 20 MLD Sunder Nagar pit PCC work inspection report prepared and submitted to TL Sir. | Kanpur |
| 12 | Second Saturday | Kanpur |
| 13 | SUNDAY | Kanpur |
| 14 | Office work attended, Review of Project ESHS (Environmental, Safety and Health System) Plan of BINGAWAN 230 MLD (O&M) | Kanpur |
| 15 | Office work attended, Panka 30 MLD Project site inspection along with civil support engineer. | Kanpur |
| 16 | Office work attended, ESIA Report compliance reminder prepared and sent to the concerned. Review of Project ESHS (Environmental, Safety and Health System) Plan of SAJARI 42 MLD (O&M) | Kanpur |
| 17 | Office work attended, Earlier inspection letters (5 Nos.) changes done as advised by TL and sent to the concerned through office manager. | Kanpur |
| 18 | Office work attended, Review of Project ESHS (Environmental, Safety and Health System) Plan of JAJNAO 43 MLD (O&M) | Kanpur |
| 19 | Office work attended, Panka 30 MLD Construction Project facilities -IPS 20 MLD Sunder Nagar and IPS ICI Nala work inspection done along with Civil Support Engineer. | Kanpur |
| 20 | SUNDAY | Kanpur |
| 21 | Office work attended, Panka 30 MLD Project Associate sites (IPS Sundernagar & IPS ICI Nala) inspection report prepared and shown to TL for sending to the concerned | Kanpur |
| 22 | Office work attended, Letter prepared and shown to TL Sir for sending to UPJN "about develop the site, landscaping, arboriculture, horticulture at STPs and giving earth filling, greenery, plantation and water drains net work etc., and maintain condition of landscape establishments | Kanpur |
| 23 | Office work attended, Review of Project ESHS (Environmental, Safety and Health System) Plan of PANKA 30 MLD Construction project. | Kanpur |
| 24 | Office work attended, Reminder letter sent to KRMPL on all the inspection letters which was sent by STC till November, 2020. Review of UNNAO 15 MLD & PANKA 30 MLD Construction sites EHS Manuals | Kanpur |
| 25 | Office work attended, Review of Project ESHS (Environmental, Safety and Health System) Plan of UNNAO 15 MLD Construction project. All paper work and pending works related to inspections and correspondence done and time sheet for the month of December, 2020 prepared. | Kanpur |

Signature of Employee

Signature of Team Leader

Annexure 3: Monthly Performance Report of Bingawan

| 210 MLD SEWAGE TREATMENT PLANT, BINGAWAN, KANPUR | | | | | | | | | | | | | | | | | |
|--|-------------------|------------------|-------------|------------|------------|---------------|----------------|----------------|--------------|------------|------------|-----------------|----------------|----------------|----------------|-----|----------------------------|
| MONTHLY FLOW & LAB REPORT | | | | | | | | | | | | | | | | | |
| MONTH: DECEMBER-2020 | | | | | | | | | | | | | | | | | |
| Date | INLET FLOW in MLD | Plant Run in HRS | RAW SEWAGE | | | | | | FINAL OUTLET | | | | | | POWER SHUTDOWN | | REMARK |
| | | | Temp | TDS | PH (7-8) | COD (523mg/l) | BOD (322 mg/l) | TSS (418 mg/l) | Temp | TDS | PH (7-8) | COD (<100 mg/l) | BOD (<30 mg/l) | TSS (<50 mg/l) | HRS | MIN | |
| | | | °c | ppm | ppm | ppm | ppm | ppm | °c | ppm | ppm | ppm | ppm | ppm | | | |
| 1-Dec-20 | 128.08 | 24.0 | 20 | 1012 | 7.3 | 620 | 162 | 508 | 20 | 1038 | 7.3 | 128 | 29 | 52 | | | |
| 2-Dec-20 | 110.24 | 24.0 | 20 | 1016 | 7.2 | 612 | 166 | 518 | 20 | 1040 | 7.2 | 120 | 30 | 50 | 3 | 30 | 33KV Fault from KesCO Side |
| 3-Dec-20 | 128.97 | 24.0 | 20 | 970 | 7.1 | 628 | 168 | 532 | 20 | 1030 | 7.3 | 112 | 29 | 48 | | | |
| 4-Dec-20 | 124.28 | 24.0 | 20 | 1020 | 7.1 | 604 | 167 | 524 | 20 | 1060 | 7.2 | 128 | 30 | 50 | | | |
| 5-Dec-20 | 122.22 | 24.0 | 20 | 1030 | 7.2 | 628 | 172 | 528 | 20 | 1050 | 7.3 | 120 | 29 | 44 | | | |
| 6-Dec-20 | 127.56 | 24.0 | 20 | 1027 | 7.2 | 596 | 170 | 518 | 20 | 1055 | 7.2 | 112 | 30 | 46 | | | |
| 7-Dec-20 | 122.01 | 24.0 | 20 | 1030 | 7.2 | 620 | 167 | 524 | 20 | 1048 | 7.2 | 136 | 29 | 50 | | | |
| 8-Dec-20 | 123.92 | 24.0 | 20 | 1022 | 7.2 | 632 | 178 | 528 | 20 | 1040 | 7.1 | 128 | 30 | 48 | | | |
| 9-Dec-20 | 122.38 | 24.0 | 19 | 1040 | 7.1 | 640 | 173 | 496 | 19 | 1060 | 7.2 | 136 | 29 | 46 | | | |
| 10-Dec-20 | 129.64 | 24.0 | 20 | 1033 | 7.2 | 632 | 176 | 540 | 20 | 1048 | 7.2 | 128 | 29 | 48 | | | |
| 11-Dec-20 | 130.52 | 24.0 | 20 | 990 | 7.1 | 648 | 175 | 524 | 20 | 1090 | 7.2 | 104 | 30 | 50 | | | |
| 12-Dec-20 | 131.20 | 24.0 | 20 | 930 | 7.1 | 604 | 178 | 488 | 20 | 1050 | 7.2 | 104 | 29 | 50 | | | |
| 13-Dec-20 | 126.88 | 24.0 | 20 | 980 | 7.1 | 620 | 170 | 520 | 20 | 1040 | 7.1 | 112 | 30 | 48 | 30 | | 33KV Fault from KesCO Side |
| 14-Dec-20 | 131.08 | 24.0 | 20 | 988 | 7.1 | 656 | 177 | 588 | 20 | 1038 | 7.2 | 120 | 29 | 50 | | | |
| 15-Dec-20 | 129.83 | 24.0 | 20 | 998 | 7.1 | 632 | 178 | 536 | 20 | 1050 | 7.3 | 128 | 30 | 48 | | | |
| 16-Dec-20 | 124.80 | 24.0 | 20 | 990 | 7.1 | 620 | 170 | 526 | 20 | 1060 | 7.2 | 120 | 29 | 46 | | | |
| 17-Dec-20 | 123.59 | 24.0 | 20 | 1000 | 7.2 | 720 | 175 | 564 | 20 | 1050 | 7.2 | 128 | 28 | 48 | | | |
| 18-Dec-20 | 123.05 | 24.0 | 18 | 998 | 7.2 | 640 | 174 | 536 | 18 | 1060 | 7.2 | 136 | 29 | 50 | | | |
| 19-Dec-20 | 129.29 | 24.0 | 17 | 1000 | 7.1 | 648 | 176 | 528 | 17 | 1058 | 7.2 | 120 | 28 | 48 | | | |
| 20-Dec-20 | 130.00 | 24.0 | 16 | 1010 | 7.2 | 620 | 172 | 536 | 16 | 1060 | 7.3 | 128 | 29 | 50 | | | |
| 21-Dec-20 | 137.28 | 24.0 | 17 | 1000 | 7.1 | 632 | 175 | 540 | 17 | 1050 | 7.2 | 120 | 30 | 46 | | | |
| 22-Dec-20 | 135.39 | 24.0 | 18 | 1010 | 7.2 | 640 | 180 | 528 | 18 | 1054 | 7.3 | 112 | 29 | 48 | | | |
| 23-Dec-20 | 130.18 | 24.0 | 17 | 1000 | 7.2 | 656 | 175 | 540 | 17 | 1060 | 7.2 | 120 | 30 | 50 | | | |
| 24-Dec-20 | 135.91 | 24.0 | 18 | 1010 | 7.2 | 632 | 188 | 518 | 18 | 1058 | 7.3 | 128 | 29 | 52 | | | |
| 25-Dec-20 | 135.39 | 24.0 | 18 | 1012 | 7.2 | 656 | 183 | 536 | 17 | 1068 | 7.2 | 112 | 30 | 50 | | | |
| 26-Dec-20 | 80.54 | 24.0 | 17 | 1010 | 7.2 | 632 | 178 | 528 | 17 | 1060 | 7.2 | 128 | 28 | 48 | 11 | 45 | 33KV Fault from KesCO Side |
| 27-Dec-20 | 40.45 | 24.0 | 17 | 1000 | 7.2 | 656 | 175 | 532 | 17 | 1070 | 7.2 | 136 | 29 | 46 | 24 | 0 | 33KV Fault from KesCO Side |
| 28-Dec-20 | 93.73 | 24.0 | 17 | 1010 | 7.3 | 612 | 177 | 514 | 17 | 1050 | 7.3 | 128 | 30 | 48 | 13 | 25 | 33KV Fault from KesCO Side |
| 29-Dec-20 | 131.75 | 24.0 | 17 | 1008 | 7.2 | 656 | 180 | 534 | 16 | 1054 | 7.2 | 136 | 29 | 50 | | | |
| 30-Dec-20 | 141.99 | 24.0 | 17 | 1010 | 7.2 | 632 | 188 | 526 | 16 | 1070 | 7.2 | 128 | 28 | 58 | | | |
| 31-Dec-20 | 131.91 | 24.0 | 17 | 998 | 7.2 | 664 | 184 | 498 | 17 | 1064 | 7.2 | 120 | 29 | 50 | | | |
| TOTAL | 3814.06 | | | | | | | | | | | | | | | | |
| AVG | 123.03 | 24.00 | 18.7 | ### | 7.2 | 635.1 | 175.1 | 527.6 | 18.6 | ### | 7.2 | 123.1 | 29.2 | 48.9 | | | |

Annexure 4: Site Inspection Report for the Month of Dec. 2020 (Bingawan)**Inspection report of 210 MLD STP Bingawan**

Visit & Inspected on date 26-11-2020

Following STC & KRMPL Staff were present

- 1 Mr. Ajay Kumar Goyal, Support Engineer(Mech.)
- 2 Mr.Rahul ,Support Engineer (Elect.)
- 3 Mr. Ashwin, Mech. Engineer, KRMPL.
- 4 Mr.Laxman , Electrical Engineer, KRMPL

Observations:-**1. Collection Chamber**

- Out of 2 nos. of Manual screens both are in working condition.
- Out of 2 nos. of mechanical screens installed, 1no. Mechanical screen is out of order since 14.08.2020. No any improvement has been observed in the inspection done on dated 12.11.2020.

Electrical Defects:-**Bar Screen Panel**

- Voltmeter / Ammeter and light indication lamp of Bar Screen not working.
- Panel Earthing damaged.
- Panel indoor light not fixed.
- Some items are missing from panels.

2. Main Pumping Station

- All 12 nos. sewage transfer pumps found are in working condition.
 - KRMPL has promised his provide pump/coupling temperature & vibration end of November 2020.Krmppl not must ensure to provide the promised date. No any improvement has been observed in the inspection done on dated 12.11.2020.
- EOT crane 05 MT not in working condition due to remote damage.

Electrical Defects:-**In Main MCC Panel MEP-2**

- ACB Ammeter not working (Outgoing).
- ACB-7 & 11 Ammeter not working (Outgoing).
- ATS Panel no.3 not working .

3. Inlet chamber

- Out of 3nos of Mechanical fine screens all are in working condition.
- Auto systems of all mechanical screens are not rectified. This matter is pending since takeover date. No any improvement has been observed in the inspection done on dated 12.11.2020.
- Screen control panel was found in rusted condition. Need to be repaired & repainted.
- 1 no. sampling pump is in working condition. Cabin/cover for sampling pump is required. No any improvement has been observed in the inspection done on dated 12.11.2020

Electrical defects:-

- In Inlet Control Panel indicators not working.
- Classifier Drive –MCC Panel (Main drive -1) Ammeter not working

4. Grit removal assembly

- Out of 4 nos. of Mechanical grit removal systems all are in working condition.
- Coupling guards & Chain covers are to be providing as per specification. And all temporary chain covers need to be replaced.
- KRMPPI had promise to provide all coupling covers by 31.08.2020 .But not complied till date. No any improvement has been observed in the inspection done on dated 12.11.2020.

Electrical defects:-

- Out of 4 nos. of Mechanical grit removal systems installed, 2 nos. Mechanical grit earthing damaged.

5. UASB reactor

- Out of 16 nos reactors, only Reactors 3 nos. (Reactor no. 1, 4 & 8) had been cleaned and filled for reactivation from 19 .12.2019 till date. Reactor no. 2&3 are open for cleaning from 04.08.2020 and 20.08.2020 respectively. But no labour has been engaged for cleaning of these reactors. No any improvement has been observed in the inspection done on dated 12.11.2020.
- KRMPPL has not submitted schedule Programme for cleaning & reactivation of remaining 11nos. reactors yet. KRMPPL is required to take-up the work of cleaning of remaining reactors at war footing. . No any improvement has been observed in the inspection done on dated 12.11.2020.

6. Aeration pond.

- Out of 18no's aerators installed, 1 no. is found not in working condition. No any improvement has been observed in the inspection done on dated 12.11.2020.
- Painting of panels and hand railing is required to be taken up immediately.
- Most of the cable trays are in corroded condition. Need to be replaced.

Electrical defects:-

- **Aerator Panel Room**
- APFC meter showing alarm error.
- Capacitor bank no.9 Push button cover missing & Ammeter not working.
- Panel of Alarm Annunciators not working.
- Main Light Distribution box ammeter not working.
- Light DB not working
- Aerator area light not working 38 nos.

7. Chlorination Building

- Chlorination booster pump discharge line pressure gauge, 1no. need to be replaced with calibration report. But not complied till date.

- All 20 nos. chlorine tonners available in the chlorine room should be arrange properly,
- Only 2 nos chlorine tonners found connected with the system .
- 2 nos. tonner have been found in filled condition.
- 1 week stock is required to be available all the time.
- Heavy leakage has been found in Booster pump discharge line joint this is required To be repaired immediately.
- Painting of panels and hand railing is to be done.
- Most of the cable trays are in corroded condition. Need to be replaced.
- **Electrical defects:-**
- Halogen light lamp damage 2 no. In Chlorination room.
- RTU Power supply Panel earthing not done .

8. Gas holder

- Out of 2 nos gas holder installed, 01 no is in working condition. No. 2 still to be repaired .KRMPI had promised to repair gas holder no.2 by 10.11.2020 but not rectify yet. No any improvement has been observed in the inspection done on dated 12.11.2020.

Electrical defects:-

- Bio gas flair Panel damage.

9. DFG

- Out of 2 nos. DFG installed, 1 no. is not in working condition, under repairing by UPJN.

10. Thicken sludge transfer pump house

- Out of 3 nos. sludge transfer pump installed, 01no. is not in working condition.
- Sludge transfer pump discharge pipe line choked .

11. Belt filter press system

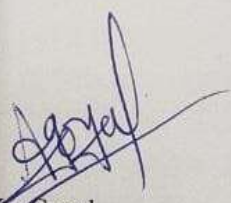
- Out of 3 nos. BFP installed in BFP building, 02 nos. are in working conditions. But KRMPL is using only one BFP because 01 no. trolley is available at site. BFP- 1no. is under repair. KRMPI had promised to repair 01 no. BFP by 15.10.2020 again extended the date from 15.10.2020 to 31.12.2020. No any improvement has been observed in the inspection done on dated 12.11.2020. *del*
- All 3 nos. poly dosing pump installed, leakage found from inbuilt diaphragm portion of all 3 dosing pumps. And need to be rectified immediately. No any improvement has been observed in the inspection done on dated 12.11.2020.
-
- **Electrical defects:-**
- Belt filters Press pane no.1 Voltmeter/ Ammeter not working.
- Belt filters Press pane no.2, 500VA control transformer damage.
- Belt filters Press pane no.3, Voltmeter & EM Push button damage.

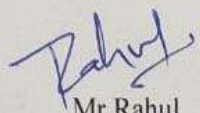
12. Online Monitoring System:-

- Calibration certificate with witness certificate till not submitted by KRMPL. on 12.11.2020 found there is too much difference in the reading of RTOLMS and laboratory results of (12.11.2020) produced below:-
Analyser Inlet Reading- COD=652.4 mg/l , TSS=523.9mg/l
Analyser outlet Reading-COD=128.5 mg/l , TSS=57.31mg/l
Laboratory Inlet Reading-COD=620 mg/l , TSS=508mg/l
Laboratory outlet reading-COD=120 mg/l , TSS=50mg/l
- Out of 2 no's Electro-Magnetic Flow meters in inlet, 1 no. has been installed at site and it has been synchronised with RTOLMS. It is not calibrated. Another 2nd no. Electro-Magnetic Flow meters has not been installed yet. Need to be providing calibration report.
- Online monitoring system, RTU, DNP & UPS installed at Inlet & Outlet, and it has been synchronised with RTOLMS and testing results (COD, BOD & TSS) are changing for every 15 minutes. Calibration certificates (Inlet & Outlet analyser) are not found yet.
- It is also necessary to update the proper power consumption and timing of both Power supply and Power backup (DG set) in RTOLMS.
- Electromagnetic flow meter for treated effluent has not been installed yet. Installation of Flow meter at the Treated effluent channel of the STP is necessary and should be synchronised with RTOLMS.

13. Miscellaneous:-

- Balance boundary wall work is to be completed by UPJN.
- MPS outlet valve chamber wall has been found collapsed due to earth pressure. Cracks have been also developing in the road leading to MPS this to be repaired urgently.
- In Main LT Panel capacitor bank 800KVAR Transformer 1, no. voltmeter not working
- Sodium Light lamp 9 no. & some street lighting not fixed.
- Street Light Junction boxes have loose mounting & are damage, some junction box are missing.
- All Rusted junction boxes & Panels are to be painted.
- According to the Operation & Maintenance Manual chapter xii 8.2.2 Panel, Circuit Breaker, Starter
- Daily, Monthly /Quarterly and Annual Maintenance record not maintain in register.
- Electrical check sheet annexure XI not maintain by Concessionaire.
- Transformer no.1 breather silica gel in pink colour to be replaced & Transformer no.2 Breather damage.
- HT power cable damage since last 2 months.(180 sq.mm)
- Transformer -1 incomer panel Voltmeter/Ammeter not working in MCC-1 Room


Ajay Kr. Goyal
Supt. Engineer (Mech.)


Mr. Rahul
Supt. Engineer (Elect.)

Inspection Report of Associated works of 210MLD Bingawan STP

Visit & Inspected on date 08.12.2020

Following STC & KRMPPL Staff were present.

1. Mr. Linga Rao , Safety Expert , STC Kanpur
2. Mr. Rahul, Support Engineer(Ele.), STC Kanpur
3. Mr. Ajay Kumar Goyal, Support Engineer(Mech.), STC Kanpur
4. Mr. Lokesh Khandelwal, Support Supervisor(Civil), STC Kanpur
5. Mr. Vireshber Sharma, Operator, KRMPPL

IPS Rakhimandi (100 MLD):-

Observations:-

1. Online Monitoring:

- 1 no. of Electro-Magnetic Flow meter is installed at site and has been synchronised with RTOLMS.
- It is also necessary to install RTOLMS system displaying proper power consumption and timing for both Power supply and Power backup (DG set).

2. Collection Chamber

- 1 no. of manual screen is in working condition.
- 1 no. of mechanical screen is in working condition.
- Belt Conveyer system has been removed from site KRMPPL pump operator could not tell when this has been removed and why?
- **Electrical defect:-**
- Screen Panel found in rusted condition.
- Screen collection chamber area light not working.

3. Pumping Station

- Out of 5 nos. of sewage transfer pumps installed, 02 nos sewage transfer pumps are out of order since 22.11.2020.
- We have seen no body checking pump/coupling temperature & vibration on daily basis, due to non availability of Infrared Thermometer & Vibration meter. It is required to provide these instruments as per approved O&M manual and maintain daily record.
- Lubrication not proper on all mechanical equipments and there is no any record found at IPS.
- Handrail found missing at some places .
- **Electrical defect:-**
- Light DB Panel MCB 2 nos. found damaged.
- Contactor of 430 HP Starter of Pump no.2 found defective.

4. DG Set

- 1 no. of DG set is found in working condition during our site visit.
- Provide inventory record as per approved O&M manual and maintain daily record.

5. Miscellaneous:-

1. CT /PT junction box rusted.
1. HT Panel Incomer Voltmeter & Ammeter is not in working condition.
2. All HT Panel Outgoing meters are not working.

IPS Munsipurwa (67 MLD):-**Observations:-****6. Online Monitoring**

- 1 no. of Electro-Magnetic Flow meter is installed at site and has been synchronised with RTOLMS.
- It is also necessary to install RTOLMS system displaying proper power consumption and timing for both Power supply and Power backup (DG set).

7. Collection Chamber

- 1 no. of manual screen is in working condition.
- 1 no. of mechanical screen is in working condition.
- Belt Conveyer system not found at site.
- MS structural's are in rusted condition. Painting has to be carried out.
- Inlet and outlet of the mechanical screen gates operating handle is not available and same as to be installed.
- Large size Crack found on Inlet sluice gate foundation.

8. Pumping Station

- Out of 6 nos. of sewage transfer pumps are installed, 02 nos. pumps are out of order since 25.08.2020.
- We have seen no body checking pump/coupling temperature & vibration on daily basis, due to non availability of Infrared Thermometer & Vibration meter. It is required to provide these instruments as per approval O&M manual and maintain daily record.
- Handrail found missing at some places .
- Lubrication not proper on all mechanical equipments. And no any record found at IPS.
- Electrical Defect:-
- Light DB panel B phase indicator not working.
- ATS Panel Pump no.6 Y phase indicator not working.
- ATS Panel Pump no.5 R phase & off indicator not.
- 250A TP MCCB panel Incoming B phase indicator and earthing not done.
- Contractor of ATS Panel pump no.4 found defective.

- ATS Panel 150 HP pump no.3 R phase ,OFF/ON indicator not working .
9. **DG Set**
- 1 no. of DG set is found is in working condition.
 - Provide inventory record as per approved O&M manual and maintain daily record..
- **Miscellaneous:-**
- CT junction box earthing not done .
 - HT Incomer /Outgoing panel Ammeter/ Voltmeter and indicator not working .
 - Transformer no.2 breather silica gel pink found to be replaced.
 - Main panel LT Voltmeter /Ammeter R& Y phase indicator not working

IPS Halwakhanda (20 MLD):-

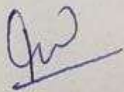
Observations:-

10. **Online Monitoring**
- 1 no. of Electro-Magnetic Flow meter is installed at site and has been synchronised with RTOLMS.
11. **Collection Chamber**
- 1 no. of manual screen is working condition.
 - MS structural's are in rusted condition. Painting has to be carried out.
12. **Pumping Station**
- Out of 5 of nos. sewage transfer pumps are installed ,02 nos sewage transfer pumps are out of order since 25.10.2020.
 - We have seen no body checking pump/coupling temperature & vibration on daily basis, due to non availability of Infrared Thermometer & Vibration meter. It is required to provide these instruments as per approval O&M manual and maintain daily record.
 - Lubrication not proper on all mechanical equipments. And no any record found at IPS.
 - Electrical Defect:-
 - All Soft starter panel earthing not done.
 - Main panel MCCB damage.
 - Changeover Handle damage.
13. **DG Set**
- 1 no. of DG set is found not in working condition. And DG Battery found missing.
 - Provide inventory record as per approved O&M manual and maintain daily record..
- **Miscellaneous:-**
- CT junction box earthing not done .
 - IPS campus area light not working.
 - Rubber mat not found in DG Panel room .
 - HT Incomer /Outgoing panel Ammeter/ Voltmeter and indicator not working .
 - Transformer no.1 breather silica gel pink found to be replaced.

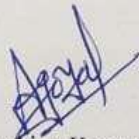
- DG panel earthing not done.

11.Safety

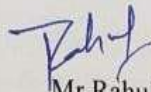
- Off site & On site emergency management to be implemented in this plant, so in case of any emergency preparedness, action plan, emergency phone numbers, govt.official numbers, hospital, fire, police etc., Controlling of leakage gas procedure, arresting chlorine leak from cylinder, how to attend the leak point by wearing SCBA etc., training to be given periodically.
- In plant all ladders hand railing supports to be arranged for avoiding the fall of persons while climbing and getting down from ladder.
- In plant entire platforms area toe boards with 100X6 mm plate to be arranged for avoiding fall of persons legs in down.
- DG area cautions boards, do's and don'ts to be written on the gate. In this area ear plugs or ear muffs to be used by workers during DG operation.
- In entire plant safety cautions boards, slogans, pictorial message, and flexes to be arranged for creating safety awareness to the workers, staff and visitors of the plant.
- Safety officer must be available in all plants. During our visit safety officer is not available any of the site.
- Electrical panels area between platform and panels gaps to be closed with MS sheet or grills in safety point of view and electrical shock proof rubber mats to be ensured in front of electrical panels. In IPS plants electrical points are very unsafe condition to be rectified immediately.
- Site house-keeping is poor to be made in good condition. Unwanted material to be removed from the site.
- Motor coupling guards to be on position.
- During our inspection it was observed that no workers having safety shoes and helmets while working.
- * At plant area safety caution boards like DANGER, DO NOT ENTER etc., to be arranged.
- * At Rakhimandi IPS some out siders playing cards in the plant premises. In process area small children below 7 years and other neighbours (elders also) using this site as walk way or path way. Unwanted persons should not be allowed in the site premises. Stress passers to be restricted.
- * All these three IPS Drinking water to be arranged, Rakhimandi IPS Toilets to be arranged.
- * Security guard provision to be done at all three IPS.



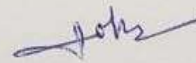
Mr.L Krishna Rao
Safety Expert



Mr.Ajay Kumar Goyal
Support
Engineer(Mech.)



Mr.Rahul
Support Engineer(Ele.)



Mr.Lokesh Khandelwal
Support
Supervisor(civil)

Annexure 5: Test Result of Joint Sampling Report of Treated Effluent (Bingawan)

SPECTRO[®]
Research Lab Ventures (P) Ltd.
CIN:U73200DL2006PTC355036

Format No:SRL/TRF/GEN
Issue No:01, Issue Date:01-04-2017
Page 1 of 2

TEST REPORT

Test Report Issued To:

KANPUR RIVER MANAGEMENT PVT. LTD.

SHAPOORJI PALLONJI AND CO. PVT. LTD., U.P. JAL
NIGAM, BENAJHABAR ROAD, KANPUR, UTTAR
PRADESH, INDIA, 208002.

Test Report No: K201117006/K201117006-11

Date of Issue: 26-Nov-2020

Sample Booking/Receipt Date: 17-Nov-2020
Date of Start of Testing: 17-Nov-2020
Date of Completion of Test: 23-Nov-2020

Customer Relationship Number: 56524

Sample Description:
BINGAWAN TREATED SEWAGE WATER

Customer Reference No:
KRMP/20-21/SPECTRO/NOV20-2 DATED - 17/11/2020

Kind Attention : MR. AMIT BHARAMBE

E-Mail: amit.bharambe@shapoorji.com

Contact No: 9833373179

Sample Condition : AS PER RECEIVED

Sample Quantity (Approx): 1 Sample Size (Approx): -

SAMPLE NOT DRAWN BY OUR LABORATORY. THE RESULTS RELATE ONLY TO THE ITEMS TESTED

ULR-TC784520000008271F

Authenticity of report can be verified by mail at verification@spectroindia.com

This is a Digitally Signed Report and hence doesn't require Physical Signature.

Spectro Research Lab Ventures (P) Ltd, G-3, Bajrang Ball Industrial Area, Near Panki Site-IV, Kanpur-208020(India)
 Phone: +91-9235503984/85 || Web: www.spectroresearchlabs.com || Email: krp@spectro.in
 ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Laboratory
 Please refer to our Website <http://www.spectro.in/spectro-policies.html> for Terms & Condition

ID- K20117006-1

Date of start of testing: 17.11.2020

Date of completion of testing: 23.11.2020

| Sl. No. | Test Parameter | Observed Value | Test Method |
|---------|------------------------------|----------------|---------------------------------|
| 1. | Total Suspended Solids, mg/l | 38 | IS:3025(P-15)-1984 (RA-2019) |
| 2. | C.O.D, mg/l | 162 | IS:3025(P-58)-2006 (RA-2017) |
| 3. | B.O.D (5 days) at 20°C, mg/l | 54 | APHA 5210-B (23rd Edition)-2017 |

*****End of report*****

[Handwritten Signature]
Signature



Testing(TC-7845)



-- End of Test Report --

ULR-TC784520000008271F



Authorised Signatory

Annexure 6: Monthly Inspection Report Sajari

| 42 MLD SEWAGE TREATMENT PLANT, SAJARI, KANPUR | | | | | | | | | | | | | | | | | | |
|---|----------------------|---------------------|------------|------------|-----------------|--------------------|--------------------|--------------------|--------------|------------|-----------------|--------------------|--------------------|--------------------|---------------|---------------------|------|--|
| MONTHLY FLOW & LAB REPORT | | | | | | | | | | | | | | | | | | |
| Month: Dec. 2020 | | | | | | | | | | | | | | | | | | |
| Date | INLET FLOW in MLD | Plant Run in HRS | RAW SEWAGE | | | | | | FINAL OUTLET | | | | | | Amalgam DO | PUMPER SHUT/DOWN | | REMARK |
| | | | Temp °C | TDS ppm | PH (7.0-8.5) | COO (1000 mg/l) | BOD (1700 mg/l) | TSS (1000 mg/l) | Temp °C | TDS ppm | PH (7.0-8.5) | COO (1000 mg/l) | BOD (1700 mg/l) | TSS (1000 mg/l) | | HRS | MONS | |
| 1-Dec | 23.76 | 24.00 | 25 | 1205 | 7.5 | 380 | 145 | 295 | 25 | 816 | 7.9 | 88 | 23 | 32 | 1.4 | | | 2 STREAM IS UNDER OPERATION |
| 2-Dec | 23.27 | 23.50 | 25 | 1200 | 7.5 | 512 | 158 | 305 | 25 | 810 | 7.9 | 104 | 23 | 32.0 | 1.3 | | | 2 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage |
| 3-Dec | 23.76 | 24.00 | 25 | 1276 | 7.5 | 540 | 175 | 330 | 25 | 824 | 7.9 | 112 | 24 | 35 | 1.4 | | | 2 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage |
| 4-Dec | 23.27 | 23.50 | 25 | 1380 | 7.5 | 512 | 180 | 315 | 25 | 880 | 7.9 | 104 | 26 | 32.0 | 1.5 | | | 2 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage |
| 5-Dec | 22.77 | 23.00 | 25 | 1410 | 7.5 | 528 | 176 | 287 | 25 | 805 | 7.9 | 113 | 24 | 34 | 1.4 | | | 2 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage |
| 6-Dec | 23.76 | 24.00 | 25 | 1390 | 7.5 | 460 | 155 | 280 | 25 | 894 | 7.9 | 104 | 22 | 31 | 1.5 | | | 2 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage |
| 7-Dec | 24.26 | 24.00 | 25 | 1218 | 7.5 | 496 | 160 | 291 | 25 | 810 | 7.9 | 104 | 21 | 28 | 1.8 | | | 2 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage |
| 8-Dec | 23.76 | 24.00 | 25 | 1290 | 7.5 | 410 | 158 | 285 | 25 | 805 | 7.9 | 96 | 23 | 27 | 1.8 | | | 2 STREAM IS UNDER OPERATION |
| 9-Dec | 22.77 | 23.00 | 25 | 1450 | 7.5 | 380 | 145 | 271 | 25 | 818 | 7.9 | 88 | 21 | 26 | 1.7 | | | 2 STREAM IS UNDER OPERATION |
| 10-Dec | 23.23 | 23.46 | 25 | 1410 | 7.5 | 540 | 170 | 330 | 25 | 855 | 7.9 | 104 | 24 | 32 | 1.8 | | | 2 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage |
| 11-Dec | 23.76 | 24.00 | 25 | 1360 | 7.5 | 468 | 162 | 291 | 25 | 890 | 7.9 | 96 | 22 | 30 | 1.5 | | | 2 STREAM IS UNDER OPERATION |
| 12-Dec | 23.27 | 23.50 | 25 | 1369 | 7.5 | 384 | 150 | 302 | 25 | 810 | 7.9 | 88 | 21 | 27 | 1.8 | | | 2 STREAM IS UNDER OPERATION |
| 13-Dec | 23.76 | 24.00 | 25 | 1305 | 7.5 | 428 | 154 | 315 | 25 | 826 | 7.9 | 82 | 23 | 32 | 1.4 | | | 2 STREAM IS UNDER OPERATION |
| 14-Dec | 21.78 | 22.00 | 25 | 1388 | 7.5 | 380 | 150 | 276 | 25 | 805 | 7.9 | 88 | 21 | 29 | 1.8 | | | 2 STREAM IS UNDER OPERATION |
| 15-Dec | 21.29 | 21.50 | 25 | 1410 | 7.5 | 528 | 172 | 315 | 25 | 818 | 7.9 | 104 | 24 | 32 | 1.5 | | | 2 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage |
| 16-Dec | 22.77 | 23.00 | 25 | 1392 | 7.5 | 440 | 160 | 286 | 25 | 841 | 7.9 | 96 | 22 | 29 | 1.6 | | | 2 STREAM IS UNDER OPERATION |
| 17-Dec | 23.27 | 23.50 | 25 | 1428 | 7.5 | 512 | 180 | 296 | 25 | 810 | 7.9 | 104 | 25 | 32 | 1.7 | | | 2 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage |
| 18-Dec | 23.76 | 24.00 | 25 | 1248 | 7.5 | 384 | 155 | 281 | 25 | 798 | 7.9 | 96 | 22 | 29 | 1.6 | | | 2 STREAM IS UNDER OPERATION |
| 19-Dec | 23.27 | 23.50 | 24 | 1255 | 7.5 | 380 | 152 | 276 | 24 | 794 | 7.9 | 88 | 21 | 27 | 1.9 | | | 2 STREAM IS UNDER OPERATION |
| 20-Dec | 23.76 | 24.00 | 24 | 1290 | 7.5 | 408 | 165 | 294 | 24 | 810 | 7.9 | 82 | 21 | 31 | 1.7 | | 15 | 2 STREAM IS UNDER OPERATION |
| 21-Dec | 23.18 | 23.33 | 24 | 1305 | 7.5 | 384 | 158 | 290 | 24 | 805 | 7.9 | 96 | 22 | 29 | 1.6 | | | 2 STREAM IS UNDER OPERATION |
| 22-Dec | 18.81 | 19.00 | 24 | 1490 | 7.5 | 512 | 175 | 318 | 24 | 818 | 7.9 | 104 | 24 | 32 | 1.3 | 12 | 40 | 2 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage |
| 23-Dec | 18.32 | 18.50 | 24 | 1460 | 7.5 | 528 | 180 | 324 | 24 | 822 | 7.9 | 112 | 26 | 33 | 1.2 | 24 | | 2 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage |
| 24-Dec | 18.81 | 19.00 | 24 | 1395 | 7.5 | 496 | 172 | 302 | 24 | 805 | 7.9 | 104 | 23 | 31 | 1.2 | 24 | | 2 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage |
| 25-Dec | 18.32 | 18.50 | 24 | 1390 | 7.5 | 512 | 180 | 319 | 24 | 802 | 7.9 | 118 | 25 | 34 | 1.2 | 24 | | 2 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage |
| 26-Dec | 18.81 | 19.00 | 24 | 1460 | 7.5 | 496 | 174 | 310 | 24 | 827 | 7.9 | 104 | 24 | 31 | 1.2 | 24 | | 2 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage |
| 27-Dec | 18.32 | 18.50 | 24 | 1490 | 7.5 | 528 | 185 | 332 | 24 | 852 | 7.9 | 112 | 25 | 35 | 1.1 | 24 | | 2 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage |
| 28-Dec | 18.81 | 19.00 | 24 | 1435 | 7.5 | 512 | 176 | 310 | 24 | 818 | 7.9 | 104 | 23 | 32 | 1.2 | 24 | | 2 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage |
| 29-Dec | 18.81 | 19.00 | 24 | 1413 | 7.5 | 608 | 182 | 339 | 24 | 840 | 7.9 | 110 | 25 | 34 | 1.1 | 24 | | 2 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage |
| 30-Dec | 18.32 | 18.50 | 24 | 1508 | 7.5 | 524 | 186 | 321 | 24 | 861 | 7.9 | 112 | 24 | 32 | 1.2 | 12 | 15 | 2 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage |
| 31-Dec | 25.74 | 24.00 | 24 | 1519 | 7.5 | 640 | 180 | 332 | 24 | 859 | 7.9 | 104 | 26 | 33 | 1.4 | | | 2 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage |
| TOTAL | 681.41 | | | | | | | | | | | | | | | 180 | 18 | |
| AVG | 21.98 | 22.12 | 24.58 | 1,372.42 | 7.50 | 479.68 | 166.77 | 302.48 | 24.58 | 878.42 | 7.90 | 100.97 | 23.19 | 31.13 | 1.5 | | | |

Note: There is ingress of Industrial Waste water (oil/water) at STP from Sangawan area, which was experienced on dates of 2, 3, 4, 5, 6, 7, 10, 15, 17, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31 Dec. 2020.

Annexure 7: Site Inspection Report for the Month of Dec. 2020 (Sajari)**Inspection report of 42 MLD STP, Sajari**

Inspected on date 30-12-2020 Following were present,

1. Mr.Lokesh Khandelwal, Site Supervisor(civil), STC
2. Mr. Rahul, Support Engineer(Ele.), STC
3. Mr. Ram Khilawan, lab Chemist, KRMPL

Observation

1. Compliance Reports of previous inspection done on 05/10/2020 & 25/11/2020 have not been submitted by KRMPL yet.
2. It was informed that separate Plant in -charge for Sajari facilities has been appointed and expected to join shortly. But still separate plant in-charge for Sajari facilities is not available at site after more than 6 months.
3. **Collection chamber**
 - 2 nos. of Manual screen are in working condition.
 - 2 nos. of Mechanical screens are in working condition. But Auto system of both mechanical screens is not rectified. This matter is pending since beginning, to be solved by UPJN.
 - **Electrical Defects:-**
 - Mechanical screen panel no.02 indicator is not in working. And voltmeter, Ammeter missing in the panel.
4. **Main Pumping Station**
 - All 5 sewage transfer pumps in working condition .
 - 1 no. of Electro-Magnetic Flow meter is installed at site. There is no calibration certificate of flow meter. This matter is pending since taking over date .
 - **Electrical Defects:-**
 - Junction Box for 70KW motor stop/start push button not working.
5. **Inlet Chamber**
 - 2 no's of Manual screen are found in working condition.
 - Out of 2 nos of Mechanical fine screens are installed ,01 no. mechanical screen in working condition and other one number out of order from 30.12.2020
 - Auto systems of both mechanical screens are not rectified.
 - Screen panel earthing not done.
6. **Grit Separator**
 - 2 no's of Mechanical grit removal system are in working condition.
 - Screen control panel was found in rusted condition.
7. **Primary clarifier**
 - 2 no's of Primary clarifier mechanism are in working condition.
8. **Aeration system**
 - Out of 12 nos. of aerators are installed, 11 nos. are in working condition. And 01 no aerator is not in working condition. And submergence of aerators is to be increased as per design. This matter still pending since 04.01.2020.
9. **Secondary clarifier**

- 2 nos of Secondary clarifier mechanism are in working condition.
- 10. Chlorination system**
- Out of 6 no's of tonners 3 nos has been installed, 3 nos tonners are not connecting with supply line of chlorine. And remaining 3 no's has been sent to refilling of chlorine gas.
 - Out of 4 nos. pressure gauge are installed in chlorination system, 03 nos are found in working condition and 01 no. is out of order from 16.10.2020 to till date.

11. Primary Sludge pump

- 2 nos of screw pump checked and found in running condition.

12. Thickener Sludge pump

- 2 no's screw pump checked and found in running condition.

13. Return Sludge pump

- Out 3 nos. of submersible pump installed in RSPH, 2nos are in working condition and 1 no. out of order from 03.10.2020 till date.
- 1no. pressure gauge is not working condition. Display glass of all pressure gauges to be changed with glasses for proper visibility. This matter is pending from the last inspection on 21.09.2020.
- Electrical Defects:-
 - Panel no. 2 main door damage.
 - Panel no.01 is found defective.

14. Digester

- Out of 2 nos. of Sludge digester mixers installed, 01 no is not in working condition. This matter is pending since June 2020.
- EFM at outlet of digester was installed, but not working due to calibration.

15. Gas Holder/Gas Scrubber/Gas flaring units

- All 3 nos of Gas engine installed have are not operational since handover date and also there was no gas unit operator from KRMPL.KRMPL had promised previously to get all the 3 nos gas generator operational by 30.06.2020 vide KRMPL letter no.453 dated 11.06.2020 and then extended the date to 30.09.2020 but no action has been taken by KRMPL till the end of Dec. 2020.

16. On-Line Monitor System (Done by UPJN)


- Inlet Analyser panel with censer installed at site. It has not been synchronised with RTOLMS. Analyser results are found at site (PH-7.39 COD-524 mg/l, BOD-152 mg/l, TSS- 284 mg/l).
- Out let Analyser panel with censer installed at site. It has been synchronised with RTOLMS. Analyser results are found at site (PH-7.78, COD-72.2 mg/l, BOD-18.2 mg/l, TSS- 25.4 mg/l).
- Inlet flow meter has not been found at site.Due to repairing & calibration work.

17. DG Set for Power Backup

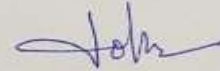
- DG set has been procured, installed and put to use under trial run by UPJN.

18. Miscellaneous

- Painting of the outer civil structural's and hand railing in walkways & ladders have to be carried out.
- Plant area housekeeping and grass cutting work are in progress.
- Referred letter in compliance to UPJN letter No.1545/W-20/127 by which it was informed that separate plant in charge for Sajari facilities has been appointed and is expected to join shortly. But still separate plant in charge for Sajari Facilities is not available at site even after more than 3 months.
- Monthly performance report of Sajari Facilities not being sent by KRMPPL by 7th date of every month regularly.
- The dried sludge removed at sludge drying bed no. 18 in month of September and disposed at located site near sanigawan with in 10 KM. from STP Plant. Each trolley weight is not mentioned in the record. In this month drying bed no.05 is used as sludge filling.
- Transformer Breather silica gel in pink colour to be replace.
- All locations cable tray found rusted.
- All street light pole junction box found rusted.
- Power cut from 22.12.2020 (time 11:20 am) to 30.12.2020 (12:41 pm) for Sajari facilities.



Mr. Rahul (Ele.)
Support Engineer



Mr. Lokesh (Civil)
Support Supervisor

Annexure 8: Test Result of Joint Sampling Report of Treated Effluent (Sajari)

SPECTRO
Research Lab Ventures (P) Ltd.
CIN:U73200DL2006PTC355036

Formal No: SPL/TRF/...
Issue No: 01, Issue Date: 11-2020
Page 1

TEST REPORT

Test Report Issued To:

KANPUR RIVER MANAGEMENT PVT. LTD.
SHAPOORJI PALLONJI AND CO. PVT. LTD., U.P. JAL
NIGAM, BENAJHABAR ROAD, KANPUR, UTTAR
PRADESH, INDIA, 208002.

Test Report No: 82011170014225117609
Date of Issue: 25/11/2020
Sample Booking/Receipt Date: 17/11/2020
Date of Start of Testing: 17/11/2020
Date of Completion of Test: 23/11/2020

Customer Relationship Number: 56524

Sample Description :
SAJARI TREATED SEWAGE (OUTLET)



Customer Reference No
KRMP/20-21/SPECTRO/NOV 20-1 DATED - 17/11/2020

Kind Attention : MR. AMIT BHARAMBE
E-Mail: amit.bharambe@shapoorji.com Contact No: 9833373179

Sample Condition : AS PER RECEIVED
Sample Quantity (Approx) : 1 Sample Size (Approx) : -
SAMPLE NOT DRAWN BY OUR LABORATORY. THE RESULTS RELATE ONLY TO THE ITEMS TESTED

ULR-TC78452000008270F
Authenticity of report can be verified by mail at verification@spectrolab.in
This is a Digitally Signed Report and hence doesn't require Physical Signature.

Spectro Research Lab Ventures (P) Ltd., G-3, Bajrang Ball Industrial Area, Near Panki, Site-IV, Kanpur-208020 (India)
Phone +91-9235503984/85 || Web: www.spectroresearchlabs.com || Email: knr@spectro.in
ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Laboratory
Please refer to our Website <http://www.spectro.in/spectro-policies.html> for Terms & Condition

ID- K20117005-1

Date of start of testing: 17.11.2020
Date of completion of testing: 23.11.2020

| Sl. No. | Test Parameter | Observed Value | Test Method |
|---------|------------------------------|----------------|----------------------------------|
| 1. | Total Suspended Solids, mg/l | 30 | IS:3025(P-15)-1984 (RA-2019) |
| 2. | C.O.D, mg/l | 91 | IS:3025(P-58)-2006 (RA-2017) |
| 3. | B.O.D (5 days) at 20°C, mg/l | 24 | APHA 5210-B (23rd Edition): 2017 |

*****End of report*****



Sanjeev
Analyst Signature



-- End of Test Report --

ULR-TC784520000008270F



Authorised Signatory

Annexure 9: MOM date 28.12.2020



Website-www.smcg-up.org
Phone No.0522-2235542

OFFICE OF PROJECT DIRECTOR
STATE MISSION FOR CLEAN GANGA
PLOT-18, SECTOR -7, GOMTI NAGAR EXTENSION,
DULB BUILDING, LUCKNOW-226010

Letter no. 03 / 0473 / SMCG / 01

Date- 01 / 01 / 2020

Subject:- Minutes of Meeting of review meeting held on 28th December 2020 under the chairmanship of Additional Project Director, SMCG, for Kanpur, Unnao & Shuklaganj STP projects under Hybrid Annuity Mode.

Please find attached the Minutes of meeting review of the Kanpur, Unnao & Shuklaganj STP projects under HAM held on 28th December 2020 at SMCG office, for your persual and necessary action.

Encl: as above

Shefali
01/01/2020
(Shefali Srivastava)
Environment Specialist

To,

1. Managing Director, UP Jal Nigam, Lucknow.

Copy to:

1. PS to Principal Secretary for record and observation.
2. Office of the Executive Director (Technical), NMCG, New Delhi.
3. Chief engineer (Kanpur Zone), UPJN, Lucknow.
4. General Manager, Ganga Pollution Control Unit, Kanpur.
5. Shah Technical Consultants Pvt. Ltd., 117/426 (14-O block, Geeta Nagar opp. Anurag hospital Sharda Nagar Kanpur-208025)
6. Kanpur River Management Pvt. Ltd., Flat No. 101, First Floor, 3/83, Vishnupuri.

Minutes of meeting for Review of progress of Kanpur, Unnao & Shuklaganj STP Projects under HAM on 28-12-2020

A review meeting for Kanpur, Unnao & Shuklaganj STP Projects under HAM on 28-12-2020 was held under the chairmanship of Additional Project Director, State Mission for Clean Ganga-UP, as the follow up for the compliances done after the inspection done on 3-4 Dec, 2020 by Mr. D.P. Mathuria, Executive Director (Technical), NMCG. The list of participants is attached as Annexure. The following decisions were made in the meeting:

1. The progress of construction of 30 MLD Pankha STP has achieved the 2nd milestone on time i.e. on 25.11.2020. The progress of 3rd milestone (25.01.2021) is behind schedule. Till date total 29.6% progress against 37.5% has been achieved. It was informed by the Project Manager that Kanpur Development Authority (KDA) has stopped the work due to non-availability of the required NOCs for road cutting and other works from KDA. The APD, discussed the matter with Chief Engineer, KDA on telephone who later on agreed to look for the solution. The Project Manager, UPJN was directed to meet the officials of Kanpur Development Authority to get the required NOC from KDA. By the mean time the concessionaire was directed to resume the work for other parts of the project sites so that the 3rd milestone may be achieved with in time.
2. The progress of construction of 15 MLD Unnao STP has achieved the 2nd milestone on 06.12.2020 which is behind the scheduled date i.e. 25.11.2020. The progress of 3rd milestone (25.01.2021) is behind schedule. Till date total 26.1% progress against 37.5% has been achieved. Project Manager, Unnao informed that Interception & Diversion works for drains has not been started yet due to the non-acquisition of the proposed land. The proposed land is a private land which has to be procured/purchased as per the government policies. The matter has been put in the knowledge of Additional District Magistrate, Unnao. The land will be procured after the rate fixation by District Administration, Unnao. APD instructed PM, Unnao to expedite the procurement process.
3. The works for 5 MLD Shuklaganj STP has still not started. It was informed that CTE from the UPPCB has been received on 10.07.2020. However, the work cannot be started as there is dispute/problem of encroachment by local inhabitants on the proposed land. Project Manager has informed that the District Administration has already looking into the matter to get the evacuation done at the earliest.

Shukla
21/12/20

4. For Operation and Maintenance works for 42 MLD Sajari STP, it was informed by Project Engineer, STC that the Commercial Operation Date has been given on 11.10.2019. As informed by UPJN and PE, the concessionaire is not complying with the standard operating procedures/manuals of the O&M. The concessionaire was directed to follow the instructions given by Jal Nigam and Project Engineer. The following issues were agreed to be complied by the concessionaire at the earliest:
- i. Flow meter at inlet and outlet to be installed/repaired/ calibrated within 10 days.
 - ii. All three Gas Generators to be made operational.
 - iii. Chlorination being the crucial step for STP, the availability of sufficient numbers of chlorine cylinders should be maintained all time.
 - iv. Sludge Disposal Plan to be followed as submitted by the concessionaire.
 - v. Sharing of daily and monthly reports with SMCG/NMCG to be ensured.
 - vi. Project Engineer informed that works proposed in scheduled maintenance program in the 1st year of O&M has not been done by the concessionaire and schedule maintenance program for the next year is to be submitted to the UPJN/PE/SMCG/NMCG within 10 days.

UPJN is instructed to ensure the implementation of all the above directions by the concessionaire in defined time frame. Strict action/penalties need to be imposed by UPJN on the concessionaire in case of non-compliance.

5. For Operation and Maintenance works for 210 MLD Bhingawan STP, it was informed by Project Engineer, STC that the Commercial Operation Date has been given on 10.08.2020. As informed by UPJN and PE, the concessionaire is not complying with the standard operating procedures/manuals of the O&M. The concessionaire was directed to follow the instructions given by Jal Nigam and Project Engineer. The following issues were agreed to be complied by the concessionaire at the earliest:
- i. Flow meter at inlet and outlet to be installed/repaired/ calibrated within 10 days.
 - ii. An action plan for cleaning and reactivation of all the remaining UASB reactors
 - iii. DFG sets to be repaired and made functional at the earliest.
 - iv. All the Belt Filter Press (BFP) is to be used so as the sludge may be collected efficiently and disposed off accordingly.
 - v. Chlorination being the crucial step for STP, the availability of sufficient numbers of chlorine cylinders should be maintained all time.

Sharma
01/11/20

- vi. Sludge Disposal Plan to be submitted (Quantum/collection/transportation/emptying etc. with schedule).
- vii. Sharing of daily and monthly reports with SMCG/NMCG to be ensured.
- viii. Project Engineer informed that scheduled maintenance works as per approved O&M manual was to be started from 01.08.2020 but has not started yet. APD instructed the concessionaire to strictly adhere to the schedule of maintenance and submit the compliance to the UPJN/PE/SMCG.

UPJN is instructed to ensure the implementation of all the above directions by the concessionaire in defined time frame. Strict action/penalties need to be imposed by UPJN on the concessionaire in case of non-compliance.

6. For Operation and Maintenance works for 43 MLD Jajmau STP, it was informed by Project Manager, Jal Nigam that a Joint inspection has been done on 02.12.2020 and one inspection is remained to be done. APD directed the Project Manager, Project Engineer and the concessionaire to complete the inspection and prepare the report so that the handover of the STP can be done before 15 Jan 2021.
7. For handover of 130 MLD Jajmau facility, APD has instructed Project Manager, Jal Nigam to resolve the labour issue with the help of District Administration.
8. The concessionaire was instructed to get the all insurance policies as per contract agreement clause 11.2 within the 15 days. APD directed the Project Manager, Jal Nigam to impose the penalty in case of non-compliance of the said clause.
9. APD instructed the concessionaire to submit the compliance with rectifications of defects/deficiencies indicated in the inspection reports Jal Nigam/STC & SMCG officials.

The meeting ended with vote of thanks to the chair.

Shubali
01/01/2021