

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



सत्यमेव जयते

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)**

**(LOA File Number: Pr-12012/41/2018-PPP/NMCG dated 04.02.2019)**

**Monthly Progress Report**

**Of**

**Project Engineer**

**JANUARY - 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.  
7/426 14-O block,  
Geeta Nagar  
Kanpur  
Uttar Pradesh - 208025



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

## Table of Contents

MONTHLY PROGRESS REPORT – HAM Kanpur .....	6
1 Introduction .....	6
2 Hybrid Annuity Model (HAM) .....	7
3 Objectives .....	7
4 HAM Kanpur Project at a Glance .....	8
5 Project wise details of components under HAM Kanpur project.....	9
5.1 Pankha Facilities (District-III) .....	9
5.2 Unnao Facilities.....	10
5.3 Shuklaganj Facilities .....	11
5.4 Jajmau Facilities .....	11
5.5 Bingawan Facilities.....	12
5.6 Sajari Facilities .....	12
6 Pre construction activities /Condition Precedents .....	13
6.1 6.1 Conditions Precedent to be satisfied by the Concessionaire .....	13
6.2 Basic Engineering Package (BEPs) and Other Details .....	19
7 Progress of work in January 2019 .....	19
7.1 Milestone wise activities and their progress.....	20
Milestone wise activities and their progress of work are given in following table 7.1(a) & (b): .....	20
Table: 7.1(A) - Pankha Facilities (District III).....	21
7.1.1 SBR Basin .....	22
7.1.2 Compound Wall .....	22
7.1.3 MPS .....	23
7.1.4 RCC Column Footing .....	23
7.1.5 Inlet Chamber- UNNAO FACILITIES .....	26
7.1.6 Fine Screen .....	26
7.1.7 Grit Chamber .....	27
7.1.8 Parshall Flume .....	27
7.2 SBR Basin .....	28
7.3 Chlorination Tank.....	28
7.4 Sludge Thickener - UNNAO FACILITIES.....	29
7.5 Supernatant Sump .....	29
7.6 Sludge Sump .....	30
8 list of letter .....	38
9 Minutes of Meeting .....	40
10 Mobilization Plan.....	40

**LIST OF TABLES**

Table 2.1	:	HAM Kanpur Project at a Glance
Table 5.1	:	Pankha Facilities (District-III)
Table 5.2	:	Unnao Facilities
Table 5.3	:	Shuklaganj Facilities
Table 5.4	:	Jajmau Facilities
Table 5.5	:	Bingawan Facilities
Table 5.6	:	Sajari Facilities
Table 6.1	:	BEPS and other details

**LIST OF FIGURES**

Figure 1	:	Objectives of NMCG and UP JAL NIGAM
----------	---	-------------------------------------

**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 (Pankha, Unnao & 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 (Jajmau Phase-II, Bingawan & 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)

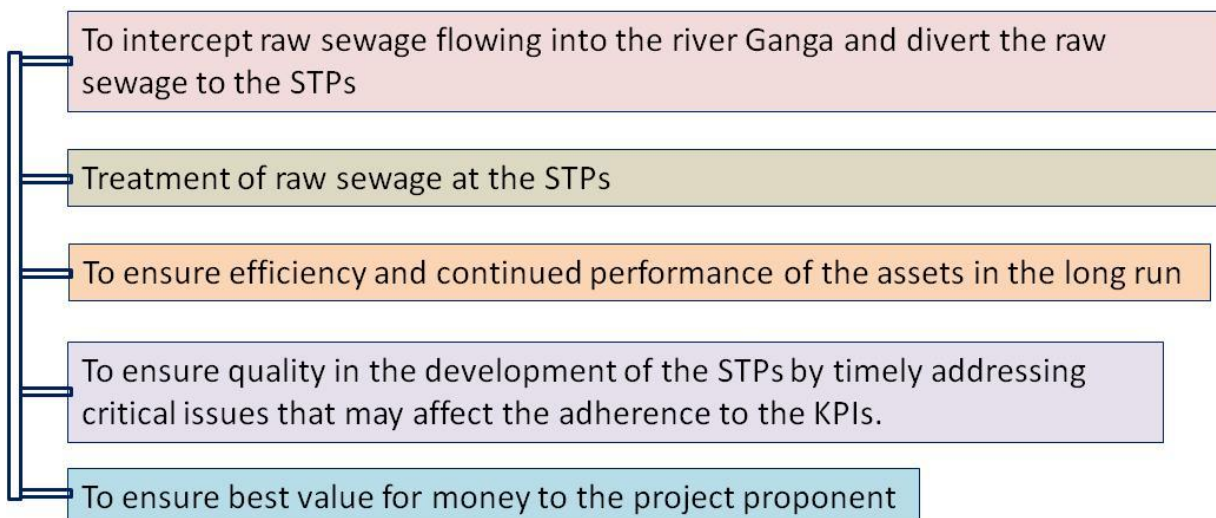
Government of India has approved the Namami Gange program as an integrated approach for effective abatement of pollution in river Ganga and Yamuna. As part of this and to ensure that no untreated domestic sewage flow into the river Ganga and Yamuna, various interventions are planned such as Interception & 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 4<sup>th</sup> February 2019 and agreement signed between the parties on 12<sup>th</sup> 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
<b>Name of Project</b>	: 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)
<b>Client</b>	: National Mission for Clean Ganga (NMCG), New Delhi and UP Jal Nigam
<b>Execution Agency</b>	: Uttar Pradesh Jal Nigam (UPJN)
<b>Consultant</b>	: Shah Technical Consultants (P) Ltd. as ‘Project Engineer’
<b>LOA</b>	: Pr-12012/41/2018-PPP/NMCG dated 04.02.2019
<b>Concessionaire</b>	: Kanpur River Management Private Limited (KRMPL) an SPV of Shapoorji Pallonji & Company Private Limited, Mumbai
<b>Concessionaire’s Agreement No.</b>	: 14/GM/2018-19
<b>Cost of Project (CAPEX+OPEX)</b>	: ₹ 816.24 Cr
<b>Effective Date</b>	: 11.10.2019
<b>Completion date (as per contract)</b>	: 24 Months from effective date (21 months construction + 3 months running)
<b>O&amp;M period</b>	: 15 years after last Commercial Operation Date (COD)
<b>Description of Work</b>	: <ul style="list-style-type: none"> <li>➤ 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&amp;M;</li> <li>➤ Rehabilitation of 130 MLD (Phase-I) STP at Jajmau with construction of 200 MLD TEPS and 173 MLD CCT at Jajmau with O&amp;M for 15 years;</li> <li>➤ O&amp;M of 43 MLD (Phase-II) Jajmau facilities, Renovation and O&amp;M of 210 MLD Bingawan facilities and O&amp;M of 42 MLD Sajari facilities for 15 years;</li> </ul>



## 5 PROJECT WISE DETAILS OF COMPONENTS UNDER HAM KANPUR PROJECT

HAM Kanpur project is divided into 5 districts of the Kanpur city – Pankha (District –III), Unnao & Shuklaganj – (District Unnao), Jajmau – (District I), Bingawan – (District II) and Sajari – (District IV). Under this project, development and O&M for 15 years of three new STP facilities based on SBR technology with associated infrastructure have been proposed for two districts – Pankha and Unnao & Shuklaganj.

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

### 5.1 PANKHA FACILITIES (DISTRICT-III)

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

**Table 5.1: Pankha Facilities (District-III)**

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
		<b>Total</b>	<b>20.74km</b>
<b>1.14</b>	<b>Milestones</b>	<b>Date</b>	
	1 <sup>st</sup> Milestone	11-Oct-2019 to 25-Apr-2020	
	2 <sup>nd</sup> Milestone	26-Apr-2020 to 10-Jul-2020	
	3 <sup>rd</sup> Milestone	11-Jul-2020 to 24-Sep-2020	
	4 <sup>th</sup> Milestone	25-Sep-2020 to 09-Dec-2020	
	5 <sup>th</sup> Milestone	10-Dec-2020 to 13-Feb-2021	
	6 <sup>th</sup> Milestone	14-Feb-2021 to 21-Apr-2021	
	7 <sup>th</sup> Milestone	22-Apr-2021 to 22-Jun-2021	
	8 <sup>th</sup> Milestone	23-Jun-2021 to 25-Aug-2021	

## 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		
<b>1.1</b>	STP		15 MLD	1
<b>1.2</b>	Sump cum Pump house (MPS)		40 MLD	1
<b>1.3</b>	Trunk Sewer		1200mm φ	3.2Km
<b>1.4</b>	I&D works (Nala tapping)		40 MLD	1
<b>1.5</b>	Trash screen		7m-1.7m x 0.8m	1
<b>1.6</b>	Grit chamber		12m-4m x 1m	2
<b>1.7</b>	Collection chamber		3.4m-6.2m x 3m	1
<b>1.8</b>	Rising main (MPS to STP)		750mm φ	100m
<b>1.9</b>	Rising main (bypass)		750mm φ	100m
<b>1.10</b>	Effluent distribution chamber		-	1
<b>1.11</b>	Effluent gravity channel (STP to discharge point )		1.5m x 1.0m	300m
<b>1.12</b>	Effluent disposal drains		-	500m
<b>1.13</b>	<b>Milestones</b>	<b>Date</b>		
	1 <sup>st</sup> Milestone	12-Oct-2019 to 24-Feb-2020		
	2 <sup>nd</sup> Milestone	25-Feb-2020 to 15-May-2020		
	3 <sup>rd</sup> Milestone	16-May-2020 to 30-Jul-2020		

4 <sup>th</sup> Milestone	30-Jul-2020 to 14-Oct-2020
5 <sup>th</sup> Milestone	15-Oct-2020 to 24-Dec-2020
6 <sup>th</sup> Milestone	10-Dec-2020 to 01-Mar-2021
7 <sup>th</sup> Milestone	02-Mar-2021 to 05-May-2021
8 <sup>th</sup> Milestone	06-May-2021 to 10-Jul-2021

### 5.3 SHUKLAGANJ FACILITIES

Project wise components details of Shuklaganj 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 $\phi$	50m
1.7	Rising main (bypass)	500mm $\phi$	50m
1.8	Retaining wall		1
1.9	Effluent channel (STP to discharge point )	1.5m x 1m	100m
1.10	<b>Milestones</b>	<b>Land not finalized</b>	

\*ABOVE PROPOSALS ARE UNDER REVISION

### 5.4 JAJMAU 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 (TEPS)	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	Guptar Ghat IPS	-	1
1.8	Jajmau CPCS	-	1
<b>B</b>	<b>Phase-II</b>		
	Schedule Handing Over Date- 01.10.2019	<b>Capacity/dia. /size</b>	<b>No. of units/length</b>
	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

### 5.5 BINGAWAN FACILITIES

Project wise components details of Bingawan are 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	Shisamau Nala (tapping)	8MLD	1

### 5.6 SAJARI FACILITIES

Project wise components details 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 PRE CONSTRUCTION ACTIVITIES /CONDITION PRECEDENTS

As per the provision of Concessionaire Agreement, effective date of the project was to be declared before 19<sup>th</sup> April 2019. Effective date for work execution under HAM Kanpur project was declared on 11<sup>th</sup> 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. 130 MLD Jajmau & O&M of existing facilities i.e. 210 MLD Bingawan, 42 MLD Sajari and 43 MLD Jajmau (Phase II) started after effective date.

### 6.1 6.1 CONDITIONS PRECEDENT TO BE SATISFIED BY THE CONCESSIONAIRE

SN	Facilities that need to be constructed or renovated	Name of the Site	Status/Remarks
	Submit the Phase I Designs and Drawings to the Jal Nigam for its approval in accordance with Article 7;	Pankha	Pankha STP BEP excluding structural and electrical incorporating STC comments approved by IITR. Stamped approval expected to be done in near future.
			Revised construction plan <b>Pankha-recommended for approval</b> on 04.01.20 GA, Data Sheet & QAP of submersible pump <b>Pankha- vetted</b> . Sent for approval on 10.12.19 GA, Data Sheet & QAP of centrifuge pump <b>Pankha - Vetted</b> . Asked to submit stamped copies on 31.12.19 Pankha Structure design & drawing- approved on 08.11.19 BEP Pankha Str. Design-vetted on 07.10.19 Pankha BEP (structure) - appraisal and discussion with KRMPL on 12/10/2019 Boundary wall drgs approved by UPJN by 31.08.19 Process design including GAs on Pankha Facilities approved by UPJN by 31.08.19.
		Unnao	BEP drawings excluding structural and electrical duly approved by IITR (16.08.19). To be approved by UPJN.
			GA, Data Sheet & QAP of submersible pump <b>Unnao - vetted</b> . Sent for approval on 10.12.19 GA, Data Sheet & QAP of centrifuge pump <b>Unnao - Vetted</b> . Asked to submit stamped copies on 31.12.19

			<p>BEP Unnao structure design-vetted on 03.10.19</p> <p>Unnao Structure design- vetted by STC on 15.10.19</p> <p>Boundary wall drgs approved by UPJN by 31.08.19.</p> <p>Rest in progress.</p>
		Shuklaganj	<p>BEP drawings excluding structural and electrical duly approved by IITR (08.08.19). To be approved by UPJN.</p>
			<p>Shuklaganj site has been changed by UPJN on 19.08.19 in view of objection from UPPCB on the selected location by UPJN for its proximity to river Ganga</p>
		Jajmau STP 1	<p>Consensus compliance duly signed with hard copies of drawings submitted to UPJN on 23.07.19 for forwarding to IITR.</p> <p>IITR has indicated in writing that they would not be able to review any drawing and design beyond STPs at Shuklaganj, Unnao and Pankha till they receive advance or NMCG writes to Director of IITR. This constitutes only approx. 25% of the total estimated construction value wise.</p>
		Under process	
i.	Prepare the Construction / renovation Plan for these Facilities within 30 days from the Appointed Date and submit the Construction Plan to the Jal Nigam for its approval in accordance with Article 7.3;	Pankha	<p>Approved by UPJN for Pankha and Jajmau STP 1 on 30.08.19. Recommended by STP for approval on 30.08.19 for Unnao and Shuklaganj, under approval at UPJN, Lucknow.</p>
		Unnao	
		Shuklaganj	
		Jajmau STP 1	
ii.	Submit the ESHS Documents 45 days before the Effective Date to the Jal Nigam for its approval in accordance with Article 7.4;	Pankha	<p>Approved for all Facilities by UPJN on 30.08.19. Recommended by STP on 30.08.19 for Shuklaganj and Unnao, under approval at UPJN Lucknow.</p>
		Unnao	
		Shuklaganj	
		Jajmau STP 1	

iii.	Execute and provide copy(ies) to the Jal Nigam of the technology license agreement(s) executed with the Selected Bidder or the third party technology supplier(s) for setting up the Pankha, Unnao and Shuklaganj Facilities;		Agreement executed.
iv.	Submit to the Jal Nigam a certificate, duly attested by a Director, certifying due and satisfactory inspection/verification Of Jajmau STP 1 to be renovated and expressing its unconditional undertaking to renovate/repair the same without any defects/defaults under this Agreement.		Contractors workers at Jajmau plant are not allowing concessionaire personnel to visit the plant for inspection and survey since 29.07.19  KRMPL informed that it Shall be provided by 4.09.19

<b>For Jajmau Phase 1 Facilities and Sajari Facilities, before Effective Date</b>			
---	--	--	--

<b>B</b>	<b>Submission</b>	<b>Status/Remarks</b>
i.	Submit O&M Manual 30 days before the Effective Date for these facilities for obtaining Jal Nigam's written approval in accordance with Article 8.2;	
a	Jajmau Not needed before effective date. Needed before COD	
b	Sajari O&M Manual sent for approval to UPJN by STC on dated 28.05.19	Manual on Sajari approved on 10.06.19
c	Bingawan Submitted on 31.05.19 by the Concessionaire. Comments by STC on 07.06.19.  Reminders on 2nd July, 10th July and 14th	Bingawan RTOLMS - Reviewed & found in order. Recommended for approval on 03.12.19 RTU Bingawan - Reviewed & found in order. Recommended for approval on 19.12.19 Level transmitter & flow metre - vetted & approved on 27.12.19

		Aug. Concessionaire committed to resubmit on 06.09.19	
	Submit the ESHS Documents 45 days before the Effective Date to the Jal Nigam for its approval in accordance with Article 7.4;		
a	Jajmau	Submitted and principally found OK by STC with some comments.	Sent to UPJN
b	Sajari	Submitted and principally found OK by STC with some comments.	Sent to UPJN
	Submit to the Jal Nigam a certificate, duly attested by a Director, certifying due receipt of the above mentioned Facilities in a satisfactory condition latest by Effective Date;		
a	Jajmau	Awaited (Taken over for O&M wef 30.05.19 conditionally as per jointly signed mom)	
b	Sajari		Taken over for O&M wef 30.05.19 conditionally as per mom signed jointly
c	(Bingawan)*	Critical work including closing of boundary wall, construction of corridor for Mazar which is inside the	Submitted on 31.05.19 by the Concessionaire. Bingawan manual may be approved subject to incorporation of few points which has been complied and letter sent to UPJN on 17.08.19. Concessionaire committed to resubmit on 06.09.19.



		plant and repair of DGF is pending. Trial run done on 18th and 19th June. TSS was not met within guaranteed level during trial run. Plant conditionally taken over from 8.8.19 Certificate to be issued after completion of balance work. Currently the plant is under renovation.	
	Any other condition or obligation mutually agreed to be treated as Concessionaire's Condition Precedent;	-	
	Prepare the Construction/renovation Plan, if any, for these Facilities within 30 days from the Appointed Date and submit the Construction Plan to the Jal Nigam for its approval in accordance with Article 7.3.	-	
<b>C</b>	<b>Additionally, for the overall infrastructure in Kanpur</b>		<b>Status/Remarks</b>
i.	Execute the Substitution Agreement with the Jal Nigam, NMCG and the Lenders the agreed form set out at Schedule 3;		Submitted to NMCG on 02.09.19 for signature of NMCG and UPJN
ii.	Submit to the Jal Nigam certified true copies of all resolutions adopted by the board of directors of the Concessionaire, authorizing execution, delivery and performance of this Agreement, Substitution Agreement and the Escrow Agreement by the Concessionaire;		Submitted on 08.05.19
iii.	Any other condition or obligation mutually agreed to be treated as Concessionaire's Condition Precedent;		-do-

iv.	<p>Obtain all Concessionaire Applicable Permits that are required for achieving Financial Close and for commencement of construction/renovation of the Facilities at its own cost and expense and if such Concessionaire Applicable Permits are subject to any conditions, then, to the extent relevant, comply with all such conditions, such that the Concessionaire Applicable Permits are and shall be kept in full force and effect for the entire Construction Period, or such longer period as may be required under Applicable Laws;</p> <ul style="list-style-type: none"> <li>• Temporary power supply</li> <li>• Consent for storage of hazardous material</li> <li>• Consent Fire fighting system</li> </ul>	<ul style="list-style-type: none"> <li>• Application to EB submitted. In the meantime, construction work is being planned to be undertaken using DG sets.</li> <li>• Not applicable</li> <li>• Not applicable</li> </ul>
v.	<p>Achieve Financial Close and submit a copy of the Financing Documents and the Financial Package to the Jal Nigam, duly certified by a director of the Concessionaire within 120 days of the Appointed Date;</p>	<p>Sanction letter from lender with T&amp;C submitted on 18.04.19. Signed Agreement soft copy submitted on 30.08.19</p>
vi.	<p>Execute a Shareholders' Agreement amongst the shareholders of the Concessionaire, and deliver to the Jal Nigam a certified true copy of the Shareholders' Agreement (attested by a director of the Concessionaire);] 2</p>	<p>Submitted on 05.08.19</p>
vii.	<p>Execute the Escrow Agreement with the Jal Nigam, NMCG, and the Escrow Bank in the agreed form set out at Schedule 4;</p>	<p>Signed by Concessionaire on 04.07.19</p>
viii.	<p>Submit to the Jal Nigam certified true copies of the constitutional documents of the Concessionaire;</p>	<p>Submitted on 18.04.19</p>
ix.	<p>Submit to the Jal Nigam a legal opinion stating that:</p> <ol style="list-style-type: none"> <li>i. this Agreement, the Substitution Agreement and the Escrow Agreement have been duly executed and are legally valid, binding and enforceable in accordance with their terms against the Concessionaire; and</li> <li>ii. all actions, conditions and things required by Applicable Laws to be taken, fulfilled and done (including the obtaining of any necessary Concessionaire Applicable Permits and resolutions of the board of directors) in order for the Concessionaire to enter into and comply with its obligations under this Agreement, the Substitution Agreement and the Escrow Agreement have been taken, fulfilled or done.</li> </ol>	<p>Shall be submitted by 09.09.19 (after signing of Substitution Agreement)</p>
x.	<p>Submit to the Jal Nigam a certificate, duly attested by a director, certifying the shareholding pattern of the Concessionaire.</p>	<p>Submitted on 18.04.19</p>

## 6.2 BASIC ENGINEERING PACKAGE (BEPs) AND OTHER DETAILS

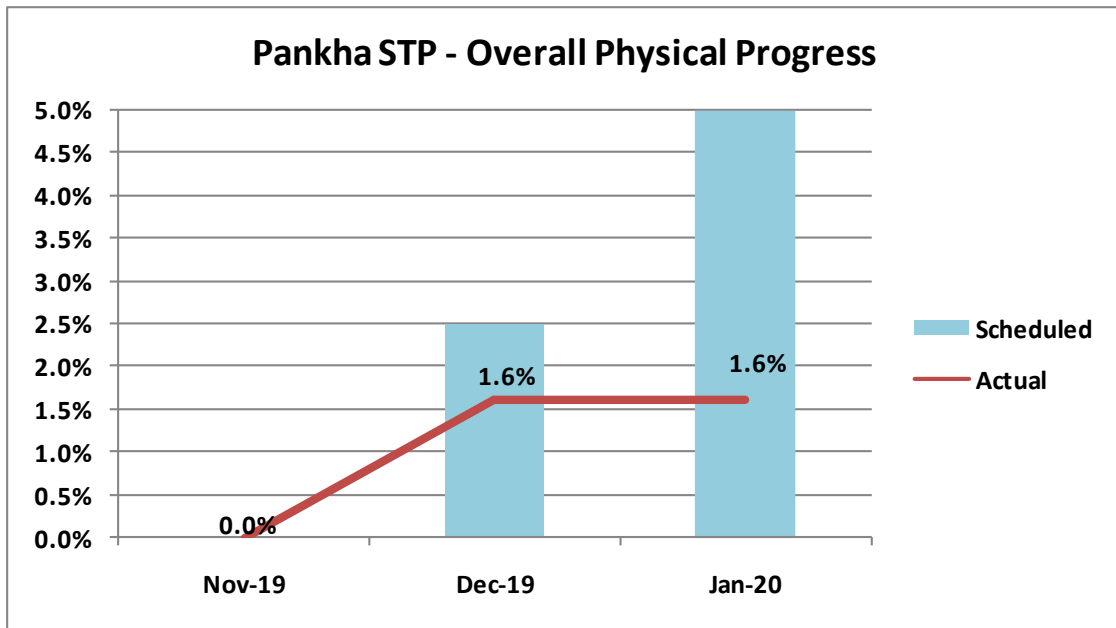
Detail Status of BEPs & other are given in following table 6.2:

**Table 6.2: BEPs and other details**

SN	Particulars	Status
1.	<b>BEPs (except structure design &amp; drawings)</b>	GA, Data Sheet & QAP of submersible pump <b>Pankha &amp; Unnao - vetted</b> . Sent for approval on 10.12.19 GA, Data Sheet & QAP of centrifuge pump <b>Pankha &amp; Unnao - Vetted</b> . Asked to submit stamped copies on 31.12.19
	<ul style="list-style-type: none"> <li>• Process</li> </ul>	
	<ul style="list-style-type: none"> <li>• Mechanical</li> </ul>	
	<ul style="list-style-type: none"> <li>• Electrical &amp; instrumentation</li> </ul>	
2.	<b>BEP Structure Design &amp; Drawings</b>	Revised construction plan Pankha-recommended for approval On 04.01.20
	Compound wall, MPS, PTU, C-Tech basin, CCT, Sludge Thickener, Supernatant sump, Centrifuge building, admin building, Staff quarters, Guard room)	
3.	<b>Construction Plan</b>	ESHS approval-Already vetted by STC. Approved by UPJN on 26.09.19
4.	<b>Sewer Network/Line Design</b>	
5.	<b>Topo, Geo tech &amp; survey reports</b>	
6.	<b>ESHS Plan</b>	Bingawan RTOLMS - Reviewed & found in order. Recommended for approval on 03.12.19 RTU Bingawan - Reviewed & found in order. Recommended for approval on 19.12.19 Level transmitter & flow metre - vetted & approved on 27.12.19
7.	<b>Scope of Work- O&amp;M</b>	

## 7 PROGRESS OF WORK IN JANUARY 2019

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 has been divided in eight milestones each having progress of 12.5%. Therefore month wise schedule of progress is divided equally in the tenure of the milestones. For example; first milestones tenure is 5 months i.e. from 26<sup>th</sup> November 2019 to 25<sup>th</sup> April 2020 and per month progress works out to 2.5% per month (12.5% ÷ 5 months). In the same way overall progress has been derived by assigning equal weight to each activity as shown in the following graphs:



#### 7.1 MILESTONE WISE ACTIVITIES AND THEIR PROGRESS

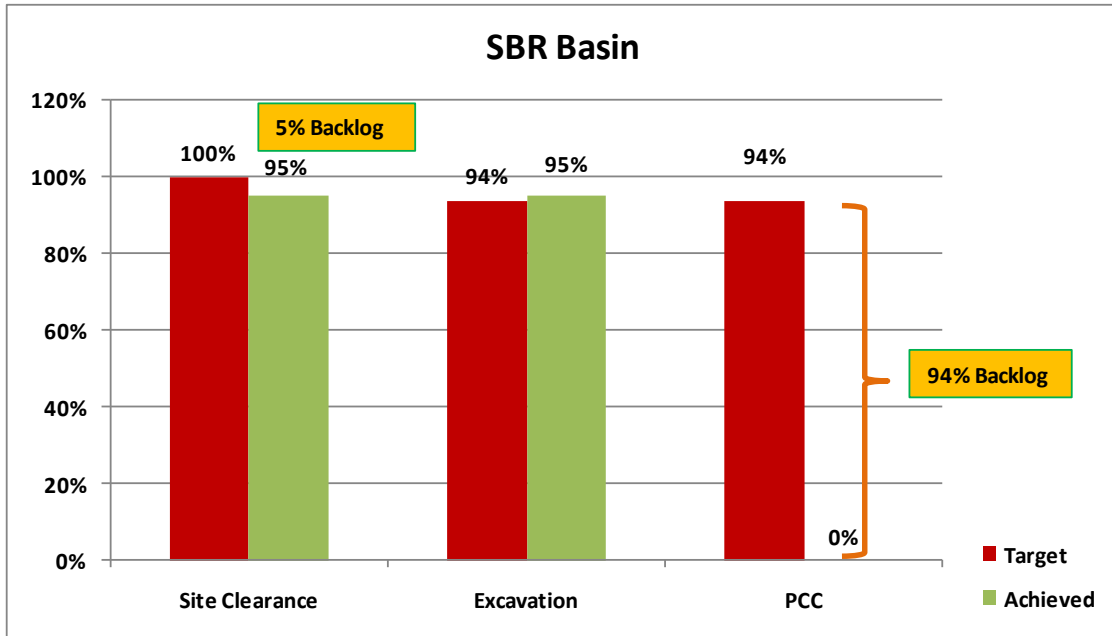
Milestone wise activities and their progress of work are given in following table 7.1(a) & (b):

**TABLE: 7.1(A) - PANKHA FACILITIES (DISTRICT III)**

SN	Description	Duration (days)	Start Date	Finish Date	1 <sup>st</sup> Milestone (due on 25.04.2020)	Proportionate Targets (as on 31.01.2020)	Achieved	Backlog	Remarks
<b>A</b>	<b>STP</b>								
<b>1</b>	<b>SBR Basin Area</b>								
i	Site Clearance	1	26-Nov-19	26-Nov-19	100.00%	100%	95%	5%	Electric pole should be removed
ii	Excavation & PCC	70	27-Nov-19	04-Feb-20	100.00%	<b>94%</b>	<b>95% Excavation &amp; 0% PCC</b>	<b>0% Excavation &amp; 100% PCC</b>	<b>Pole shifting is pending at UPPCL &amp; KRMPL to pursue</b>
<b>19</b>	<b>Compound Wall</b>								
i	Excavation & PCC	537	26-Nov-19	18-May-21	28.00%	<b>12%</b>	<b>20% Excavation &amp; 4% PCC</b>	<b>0% Excavation &amp; 8% PCC</b>	<b>Excavation 450m out of 1000m &amp; 76 pillar out of 352 PCC is done</b>
ii	RCC Column Footing (352No.)	541	15-Jan-20	09-Jul-21	19.00%	3%	0%	3%	Only reinforcement of 17 No. Footing done
iii	RCC Column (352No.)	541	15-Jan-20	09-Jul-21	19.00%	3%	0%	3%	
<b>B</b>	<b>MPS</b>								
<b>20</b>	<b>Raw Sewage Sump</b>								
i	Site Clearance	1	15-Jan-20	15-Jan-20	100.00%	100%	100.00%	0%	Completed
ii	Excavation & PCC	70	16-Jan-20	25-Mar-20	100.00%	21%	10% Excavation & 0% PCC	11% Excavation & 100% PCC	Labor deployment is too low, Delay at KRMPL Side

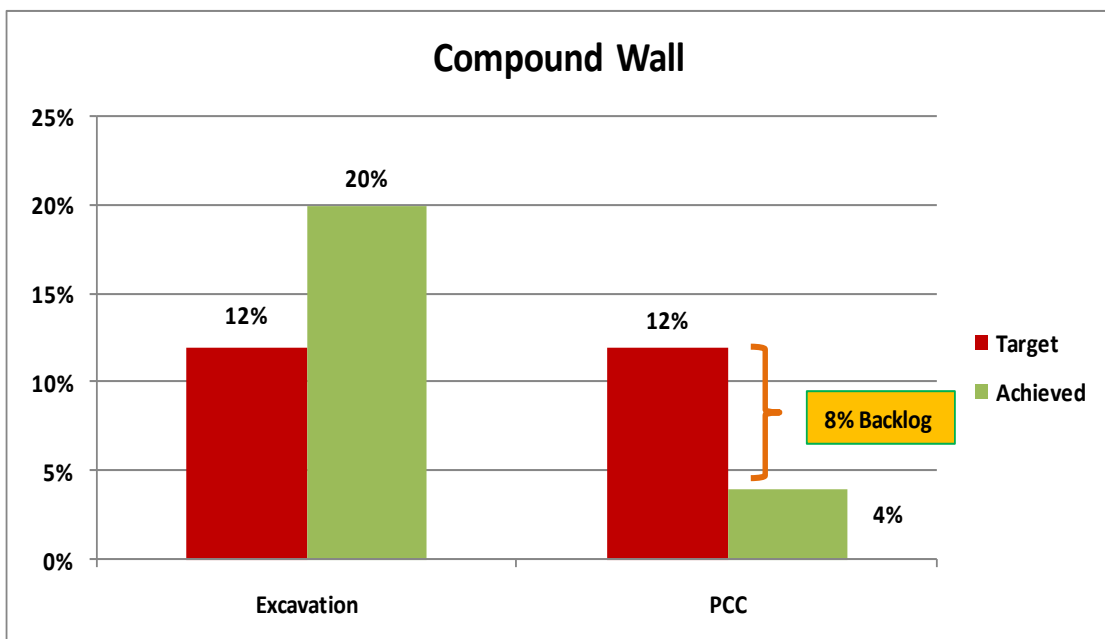
### 7.1.1 SBR BASIN

For SBR basin of Pankha facility, site clearance activity was to be completed in November 2019. This activity is almost completed except few electric poles need to be removed / shifted. Excavation work is completed but PCC has not been done. Following graph shows the progress of work:



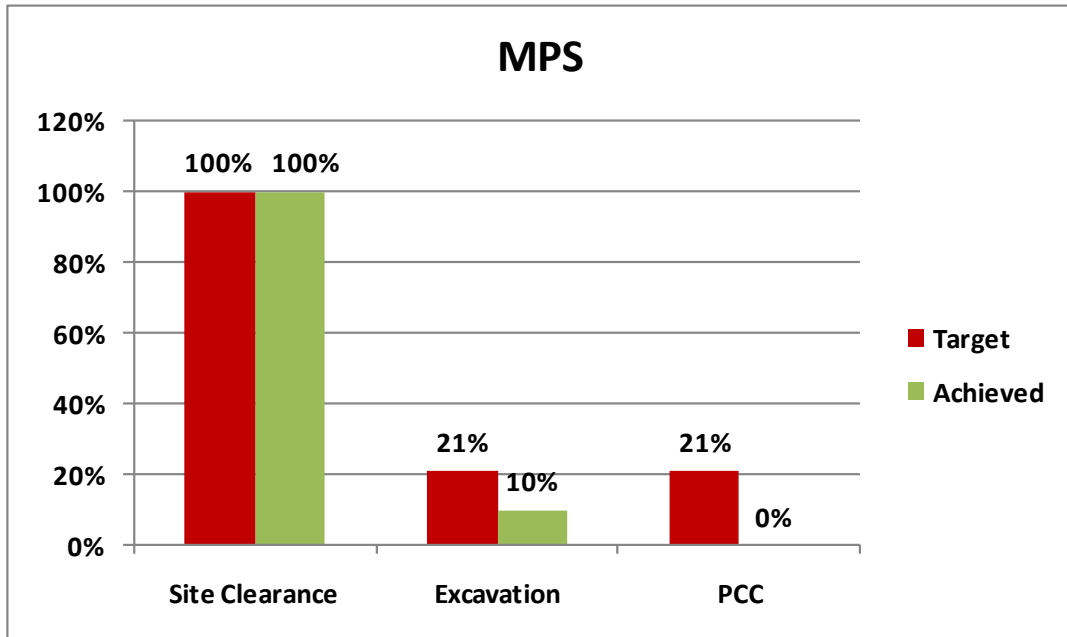
### 7.1.2 COMPOUND WALL

For compound wall, excavation work is completed but PCC; out of 12% only 4% has been done. Following graph shows the progress of work:



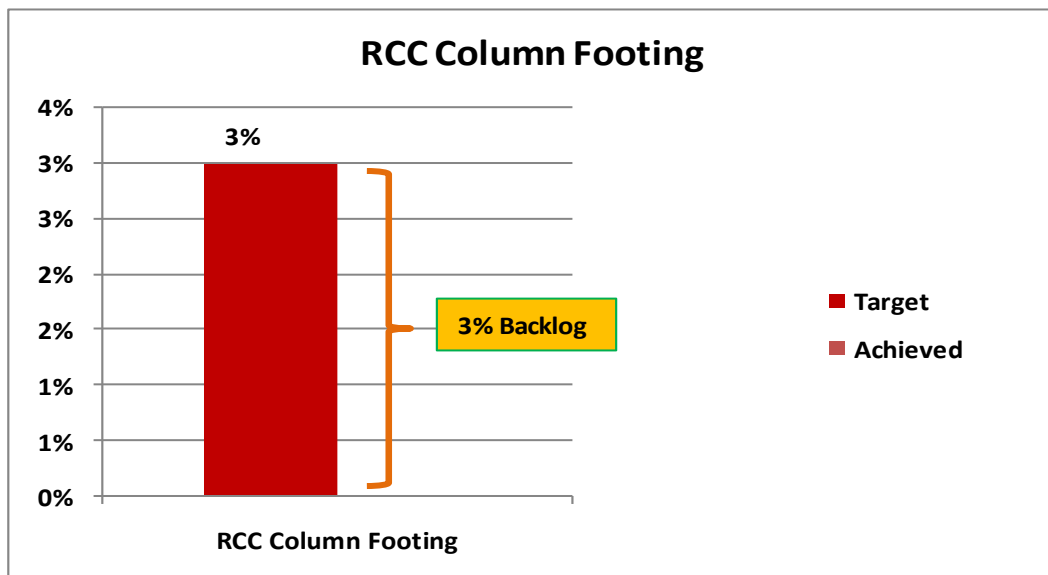
### 7.1.3 MPS

For MPS, site clearance activity was to be completed in November 2019. This activity is completed. Excavation work is lagging by 11% and PCC has not been started. Following graph shows the progress of work:



### 7.1.4 RCC COLUMN FOOTING

The proportionate target of RCC column footing for the month of January 2020 was 3%. It has not been done. Following graph shows the progress of work:



**Table: 7.1(B) - UNNAO FACILITIES**

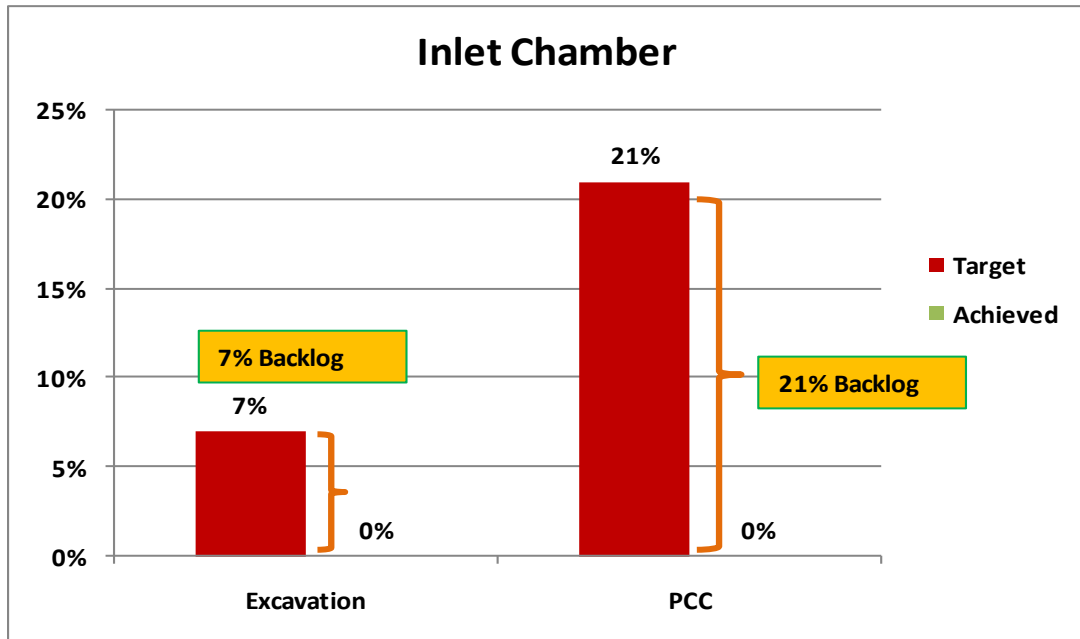
SN	Description	Duration (days)	Start Date	Finish Date	First Milestone (due on 24.02.2020)	Proportionate Targets (as on 31.01.2020 )	Achieved	Backlog	Remarks
<b>1</b>	<b>STP</b>								
<b>A</b>	<b>Inlet chamber Area</b>								
	Site Clearance	1	12-Oct-19	12-Oct-19	100.00%	100.00%	100.00%	Nil	<b>Completed</b>
	Excavation	70	26-Oct-19	04-Jan-20	<b>100.00%</b>	<b>7%</b>	<b>Nil</b>	<b>7%</b>	<b>Geo-Tech report under review</b>
	PCC	121	06-Jan-20	06-May-20	40.00%	21%	Nil	21%	
<b>B</b>	<b>Fine Screen Area</b>								
	Site Clearance	1	01-Nov-19	01-Nov-19	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>Nil</b>	<b>Completed</b>
	Excavation	70	02-Nov-19	10-Jan-20	<b>100.00%</b>	<b>100.00%</b>	<b>Nil</b>	<b>100.00%</b>	<b>Geo-Tech report under review</b>
	PCC	121	11-Jan-20	12-May-20	40.00%	17%	Nil	40.00%	
<b>C</b>	<b>Grit Chamber Area</b>								
	Site Clearance	1	11-Nov-19	11-Nov-19	100.00%	<b>100.00%</b>	100.00%	Nil	<b>Completed</b>
	Civil work	104	12-Nov-19	24-Feb-20	<b>100.00%</b>	<b>77%</b>	<b>Nil</b>	<b>77%</b>	<b>Geo-Tech report under review</b>
<b>D</b>	<b>Parshall Flume Channel Area</b>								
	Site Clearance	1	28-Nov-19	28-Nov-19	100.00%	<b>100.00%</b>	100.00%	Nil	<b>Completed</b>
	PCC & Raft Work	104	29 Nov-19	12-Mar-20	84.00%	<b>61%</b>	<b>Nil</b>	<b>61%</b>	<b>Geo-Tech report under review</b>
<b>E</b>	<b>SBR Basin Area</b>								
	Site Clearance	1	16-Dec-19	16-Dec-19	100.00%	<b>100.00%</b>	<b>100.00%</b>	<b>Nil</b>	<b>Completed</b>
	PCC & Raft Work	104	17-Dec-19	30-Mar-20	84.00%	<b>61%</b>	<b>Nil</b>	<b>61%</b>	<b>Geo-Tech report under review</b>



										review
<b>F</b>	<b>Chlorination Tank Area</b>									
	Site Clearance	1	25-Dec-19	25-Dec-19	100.00%	<b>100.00%</b>	<b>100.00%</b>	Nil		<b>Completed</b>
	PCC & Raft Work	86	26-Dec-19	21-Mar-20	70.00%	<b>42%</b>	<b>Nil</b>	<b>42%</b>		<b>Geo-Tech report under review</b>
<b>G</b>	<b>Sludge Thickener Area</b>									
	Site Clearance	1	25-Dec-19	25-Dec-19	100.00%	<b>100.00%</b>	<b>100.00%</b>	Nil		<b>Completed</b>
	PCC & Raft Work	86	26-Dec-19	21-Mar-20	70.00%	<b>42%</b>	<b>Nil</b>	<b>42%</b>		<b>Geo-Tech report under review</b>
<b>H</b>	<b>Supernatant Sump Area</b>									
	Site Clearance	1	03-Jan-20	03-Jan-20	100.00%	<b>100.00%</b>	100.00%	Nil		Completed
	PCC & Raft Work	70	04-Jan-20	13-Mar-20	73.00%	38%	Nil	38%		Geo-Tech report under review
<b>I</b>	<b>Sludge Sump Area</b>									
	Site Clearance	1	13-Jan-20	13-Jan-20	100.00%	<b>100.00%</b>	100.00%	Nil		Completed
	Civil work	121	14-Jan-20	14-May-20	34.00%	14%	Nil	14%		Geo-Tech report under review
<b>J</b>	<b>External Development</b>									
	Boundary Wall	434	12-Oct-19	19-Dec-20	31.00%	<b>25%</b>	<b>5.00%</b>	<b>20.00%</b>		<b>Stopped on 10.12.19 as increased water table was detected.</b>

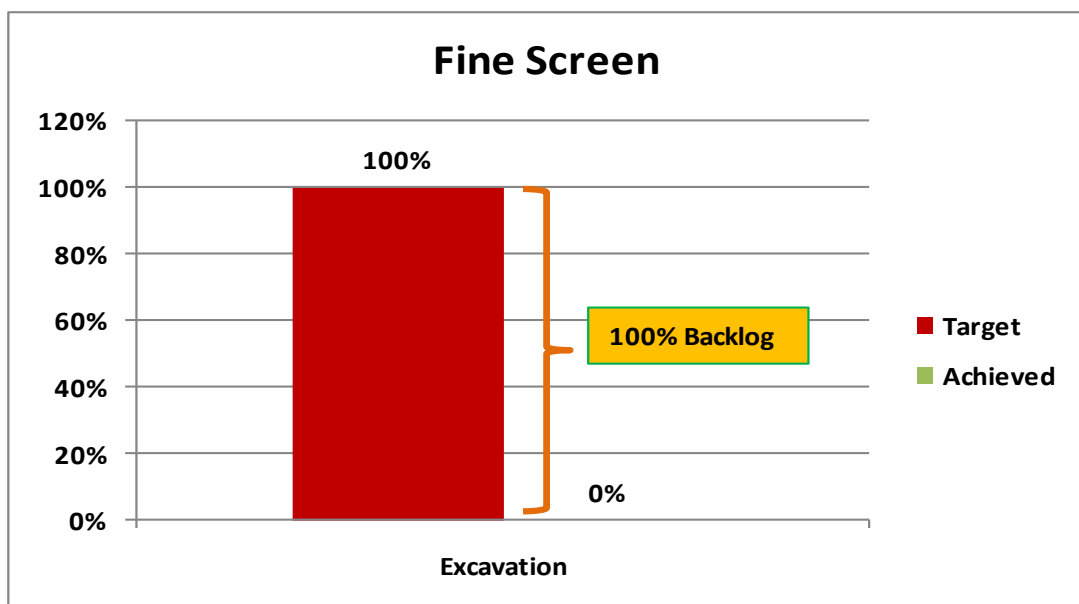
### 7.1.5 INLET CHAMBER- UNNAO FACILITIES

The proportionate target of for Inlet chamber of Unnao facility in the month of January 2020 was excavation 7% and PCC 21%. Excavation work and PCC has not been done. Following graph shows the progress of work:



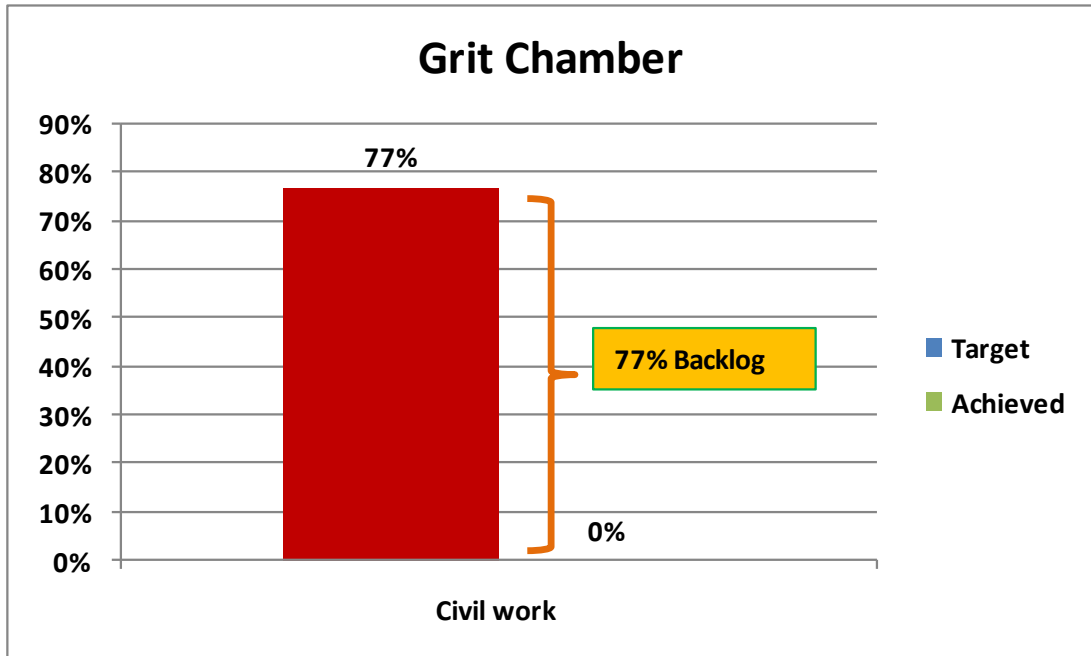
### 7.1.6 FINE SCREEN

The proportionate target of for fine screen of Unnao facility in the month of January 2020 was excavation 100%. Excavation work has not been started. Following graph shows the backlog of work:



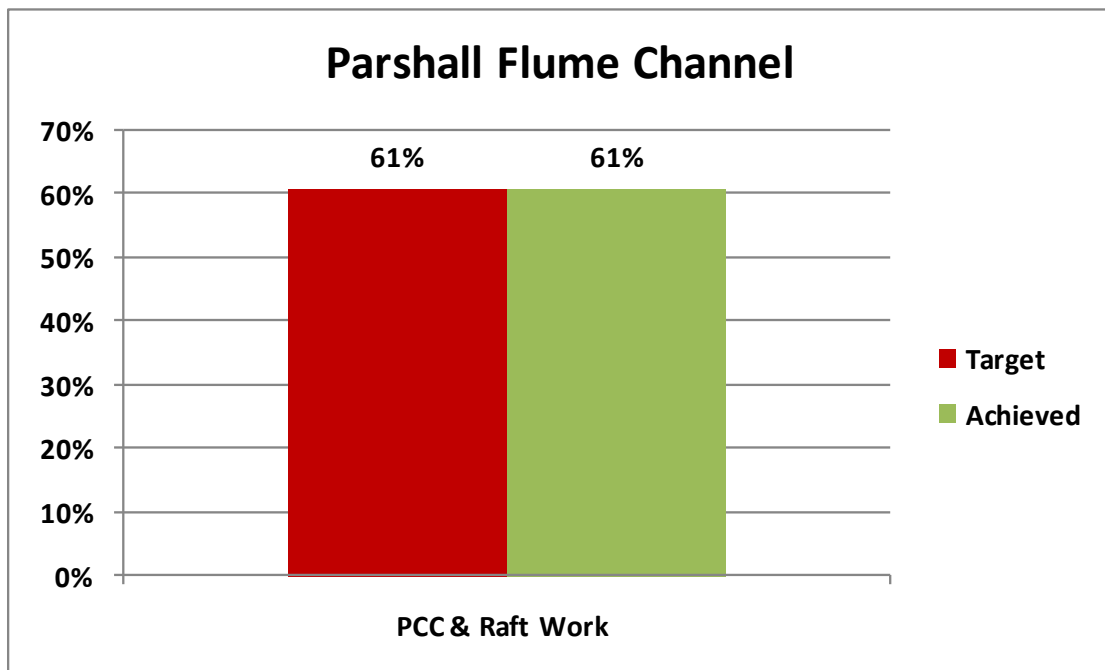
### 7.1.7 GRIT CHAMBER

The proportionate target of for grit chamber of Unnao facility in the month of January 2020 was civil works 77%. Civil works work has not been started. Following graph shows the backlog of work:



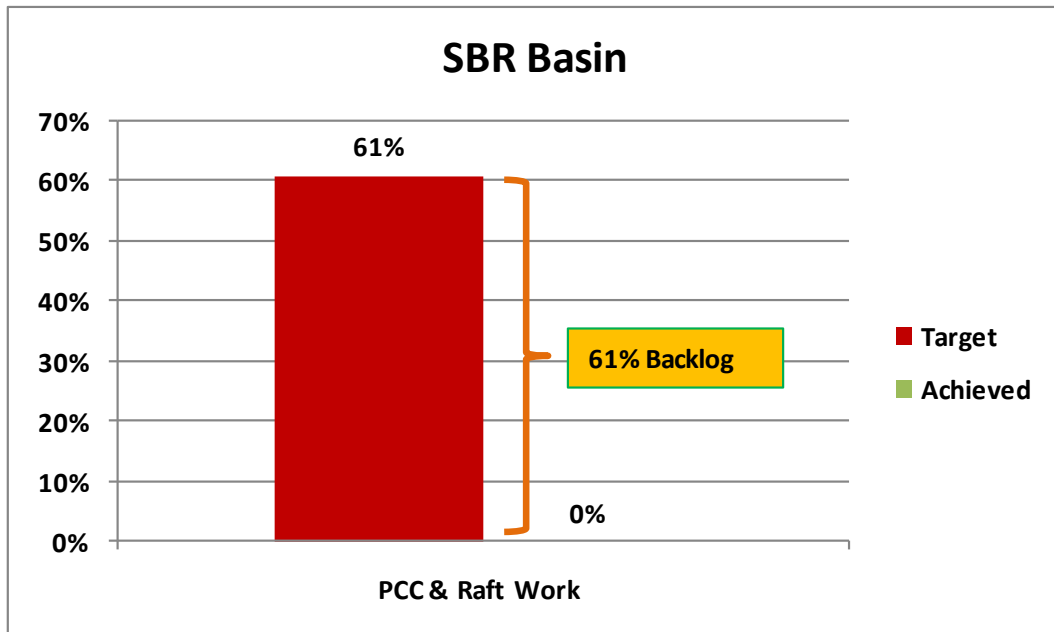
### 7.1.8 PARSHALL FLUME

The proportionate target of for Parshall flume of Unnao facility in the month of January 2020 was PCC & Raft work 61%. Following graph shows the backlog of work:



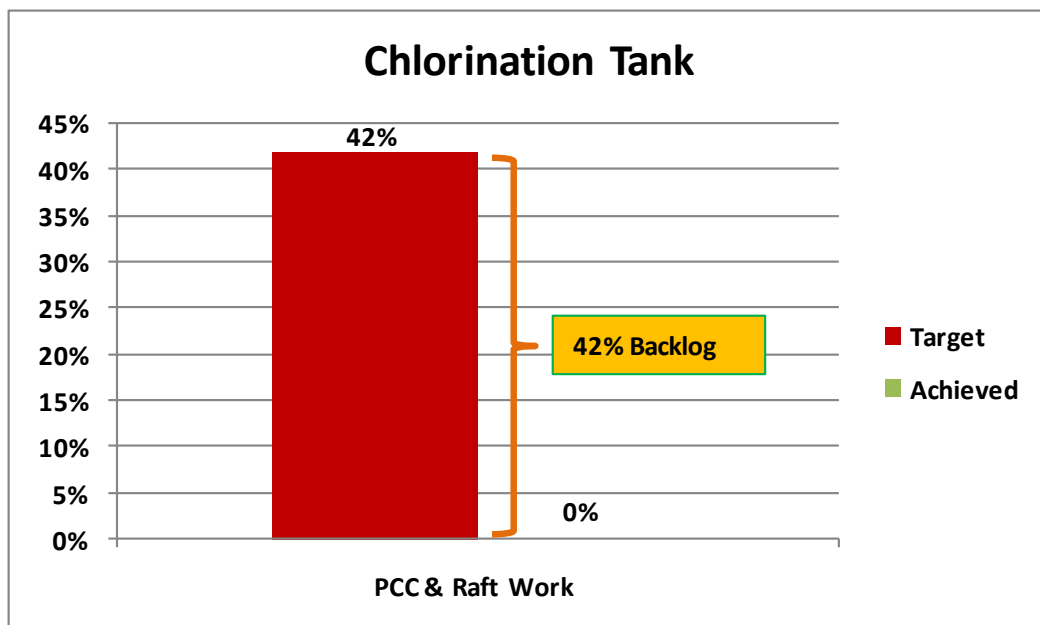
### 7.2 SBR BASIN

The proportionate target of for SBR basin of Unnao facility in the month of January 2020 was PCC & Raft work 61%. It has not been completed. Following graph shows the backlog of work:



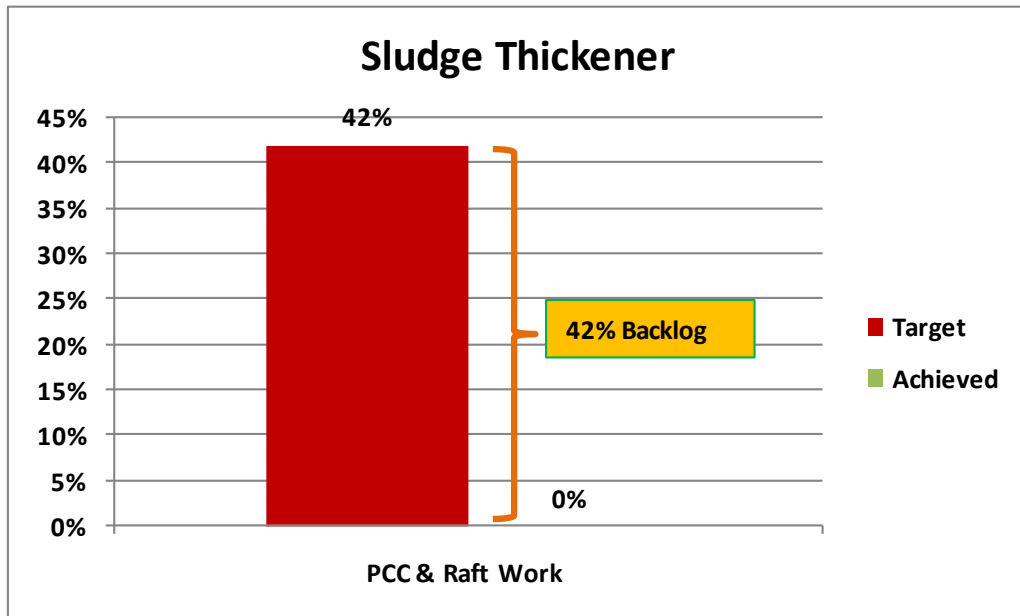
### 7.3 CHLORINATION TANK

The proportionate target of for chlorination tank of Unnao facility in the month of January 2020 was PCC & Raft work 61%. It has not been completed. Following graph shows the backlog of work:



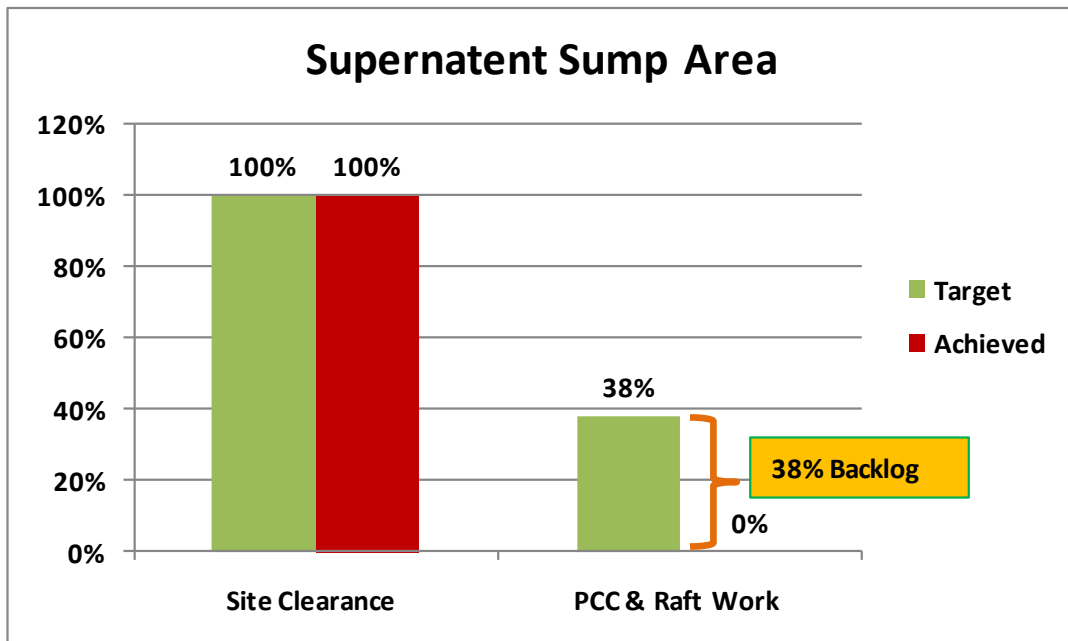
### 7.4 SLUDGE THICKENER - UNNAO FACILITIES

The proportionate target for sludge thickener of Unnao facility in the month of January 2020 was PCC & Raft work 61%. It has not been completed. Following graph shows the backlog of work:



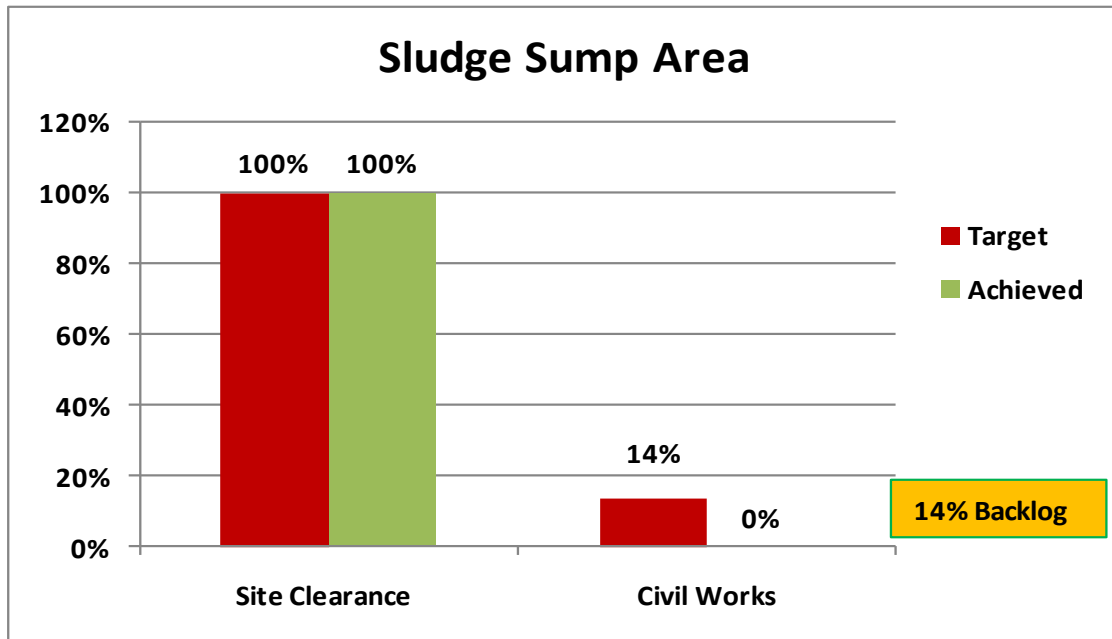
### 7.5 SUPERNATANT SUMP

The proportionate target for sludge thickener of Unnao facility in the month of January 2020 was PCC & Raft work 61%. It has not been completed. Following graph shows the backlog of work:



### 7.6 SLUDGE SUMP

The proportionate target for sludge sump of Unnao facility in the month of January 2020 was site clearance – 100% and civil works 14%. Site clearance completed but has not been completed. Following graph shows the progress/ backlog of work:



**Table 7.2: Progress of Work – HAM Kanpur Project (on NMCG Performa)**

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 Concessi onaire	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)
01.01.20	Technical documents for analyzer	25.12.19 K-274	01.01.20 S-275	5	20	-	-	Mr. JP Tripathi	1	-	-	-	comments sent for compliance
02.01.20	Aeration system for COD removal		02.01.20 S-276	0	20	-	-	Mr. CM Dimri	1	-	-	-	sent specific comments for improvement to UPJN
03.01.20	improvement proposal for Sajari		03.01.20 S-277	0	20	-	-	Mr. CM Dimri	1	-	-	-	Informed UPJN for visit of our Sr. Electrical Engg.
04.01.20	Revised construction plan Pankha	07.01.20 K-280	08.01.20 S-282	1	20	-	-	Mr. CM Dimri	1 +1+1	-	-	-	recommended for approval
	Inspection Visit for Sajari STP			0	20	-	-	Mr. JP Tripathi Mr. Anil Seth		-	-	-	-
05.01.20	<b>SUNDAY</b>												
06.01.20	Monthly report of Bingawan STP for Dec.19	07.01.20 K-284	07.01.20 S-281	1	20	-	-	Mr. JP Tripathi	1 +1+1	-	-	-	asked to comply the specific comments regarding COD

	Inspection report of Sajari STP				20	-	-	Mr. JP Tripathi Mr. Anil Seth		-	-	-	sent inspection report for UPJN for their perusal
07.01.20	SBC report Unnao	K-mail dated 06.01.20	07.01.20 S-280	1	20	-	-	Mr. CM Dimri	1	-	-	-	asked for resubmission as per latest SBC report
08.01.20	Monthly report of Sajari STP for Dec.19	09.01.20 K-288	seen & filed	0	20	-	-	Mr. JP Tripathi	1 +1	-	-	-	for office record
	Monthly report of Bingawan STP for Dec.19	09.01.20 K-287	09.01.20 S-283	0	20	-	-	Mr. JP Tripathi		-	-	-	asked to comply the specific comments regarding COD
	submission of GA,QAP for mechanical grid Pankha/Unnao/Shuklaganj	09.01.20 K-289	16.01.20 S-287	7	20	-	-	Mr. JP Tripathi		-	-	-	reviewed & recommended for approval
09.01.20	Attended office	-	-	0	20	-	-	Mr. JP Tripathi	1	-	-	-	Discussion on various issues in project
10.01.20	pipe bedding manhole and I&D Unnao	10.01.20 J-366	10.01.20 S-284	0	20	-	-	Mr. CM Dimri	1	-	-	-	asked to submit details of manhole with subsoil & without subsoil
11.01.20	DFG Bingawan	11.01.20 K-292	NA	2	20	-	-	Mr. JP Tripathi	1+1	-	-	-	action to be taken by UPJN



	SBC report & manhole detail Unnao	11.01.20 K-294	14.01.20 S-286	3	20	-	-	Mr. JP Tripathi	1	-	-	-	Sr. Str. Engg. Comments sent
	high COD in incoming sewer	11.01.20 K-293	13.01.20 Seen	2	20	-	-	Mr. JP Tripathi		-	-	-	action to be taken by UPJN
12.01.20	<b>SUNDAY</b>												
13.01.20	Bingawan facility renovation	13.01.20 K-300	16.01.20 Seen	3	20	-	-	Mr. JP Tripathi	1 +1	-	-	-	action to be taken by UPJN
	I&D works Unnao	13.01.20 K-299	23.01.20 S-292	10	20	-	-	Mr. JP Tripathi		-	-	-	comments sent
	shifting of electric pole Pankha	15.01.20 K-301	16.01.20 Seen	1	20	-	-	Mr. JP Tripathi		-	-	-	action to be taken by UPJN
	manhole details for Unnao	K-mail dated 13.01.20	13.01.20 S-285	0	20	-	-	Mr. JP Tripathi		-	-	-	asked to provide RCC manhole for sub soil conditions.
14.01.20	Unnao MPS	17.01.20 K-305	17.01.20 S-284 S-289	0	20	-	-	Mr. JP Tripathi	1	-	-	-	comments sent for compliance
15.01.20	Attended office	-	-	0	20	-	-	Mr. JP Tripathi	1	-	-	-	Discussion on various issues in project
16.01.20	BEP rehabilitation Jajmau	18.01.20 K-307	23.01.20 S-291	5	20	-	-	Mr. JP Tripathi	1	-	-	-	Asked to comply our comments.
17.01.20	electricity problem-Sajari STP	20.01.20 J-14	NA	-	20	-	-	Mr. JP Tripathi	1	-	-	-	for office record
	O&M Sajari STP	21.01.20 J-04	NA	-	20	-	-	Mr. JP Tripathi		-	-	-	for office record
	O&M Sajari STP	22.01.20 J-05	NA	-	20	-	-	Mr. JP Tripathi		-	-	-	for office record

18.01.20	Attended office	-	-	0	20	-	-	Mr. JP Tripathi	1	-	-	-	Discussion on various issues in project
19.01.20	<b>SUNDAY</b>												
20.01.20	Attended office	-	-	0	20	-	-	Mr. JP Tripathi	1	-	-	-	Discussion on various issues in project
21.01.20	Attended office	-	-	0	20	-	-	Mr. JP Tripathi	1	-	-	-	Discussion on various issues in project
22.01.20	inspection of analyzer COD/BOD/TSS	24.01.20 K-311	24.01.20 S-297	0	20	-	-	Mr. JP Tripathi	1 +1	-	-	-	asked to submit approved data sheet & QAP
	Change of MoC SS-304	K-mail dated 22.01.20	24.01.20 S-295	2	20	-	-	Mr. JP Tripathi		-	-	-	asked to submit revised data sheet with SS 316
	Submission of industrial all risk policy for Bingawan & Sajari	24.01.20 K-310	24.01.20 S-294	0	20	-	-	Mr. JP Tripathi		-	-	-	replied
23.01.20	Attended office	-	-	0	20	-	-	Mr. JP Tripathi	1	-	-	-	Discussion on various issues in project
24.01.20	inspection & testing at manufacturer works	25.01.20 K-314	25.01.20 S-298 S-300	0	20	-	-	Mr. JP Tripathi	1 +1 +1	-	-	-	asked to comply the comments
	change of MoC SS-304	mail dated 22.01.20	24.01.20 S-295	2	20	-	-	Mr. JP Tripathi		-	-	-	asked to submit revised data sheet

	performance of Bingawan STP	29.01.20 J-19	seen & filed	-	20	-	-	Mr. JP Tripathi		-	-	-	for office record
	corrective measures to provide safe environment Jajmau	25.01.20 k-317	01.02.20 S-310	6	20	-	-	Mr. Priyesh Shukla		-	-	-	asked to comply the comments
	BEP rehabilitation Jajmau	27.01.20 K-316	27.01.20 S-304	0	20	-	-	Mr. JP Tripathi		-	-	-	asked to comply the comments –S-291/23.01.20
25.01.20	Attended office	-	-	0	20	-	-	Mr. JP Tripathi	1	-	-	-	Discussion on various issues in project
26.01.20	<b>SUNDAY</b>												
27.01.20	inspection & testing at manufacturer works	27.01.20 K-318 K-321	27.01.20 S-305	0	20	-	-	Mr. JP Tripathi	1	-	-	-	asked concessionaire to act as per CA
	QAP RTU Bingawan	27.01.20 K-320	31.01.20 S-309	0	20	-	-	Mr. JP Tripathi		-	-	-	asked to comply the comments
28.01.20	BEP rehabilitation Jajmau	30.01.20 K-327	11.02.20 S-316	12	20	-	-	Mr. JP Tripathi	1 +1	-	-	-	Experts comments sent

	COD improvement of Sajari	29.01.20 K-324	29.01.20 S-306	0	20	-	-	Mr. JP Tripathi		-	-	-	Conveyed that there is no need for implementation on COD improvement of Sajari. Concessionaire is required to comply with instruction given in our letters- S-267/30.12.19 & S-279/06.01.20
	MPR construction - Pankha/Unnao	29.01.20 K-321	29.01.20 s-305	0	20	-	-			-	-	-	asked to submit revised construction plan for both location
	bench mark & HFL Pankha	29.01.20 J-13	seen & filed	-	20	-	-	Mr. JP Tripathi		-	-	-	for office record
29.01.20	MPR for construction Unnao	29.01.20 K-321	29.01.20 S-305	0	20	-	-	Mr. JP Tripathi	1	-	-	-	asked to submit revised construction plan
30.01.20	Attended office	-	-	0	20	-	-	Mr. JP Tripathi	1	-	-	-	Discussion on various issues in project
31.01.20	SBC Unnao	31.01.20 K-323	31.01.20 S-307	0	20	-	-	Mr. P.walunjkar	1	-	-	-	asked to follow pile foundation

Total									5+2+31+ 10+28+2 5+29				
-------	--	--	--	--	--	--	--	--	----------------------------	--	--	--	--

## 8 LIST OF LETTER

Details of letters during December 2019 are given in below table:

**Table: Inward Letter**

SN	DATE	LETTER NO	SUBJECT	RECEIVED
1.	04-01-20	k/280	Submission of construction plan for Pankha	03-01-20
2.	06-01-20	k/284	Monthly report on 210 MLD Bingawan facilities for Dec 2019	07-01-20
3.	04-01-20	w-5-97/02	Regarding proposed work of trunk sewer from I&D point of 15 MLD at Dakari Unnao	07-01-20
4.	08-01-20	k/285	Structural design Unnao Geo-tech report	08-01-20
5.	08-01-20	k/286	Work at Unnao site	08-01-20
6.	09-01-20	k/287	Monthly report for Dec 2019 Bingawan	09-01-20
7.	09-01-20	k/288	Monthly report on 42 MLD Sajari facilities for Dec 2019	09-01-20
8.	09-01-20	k/289	Submission of data sheet, GA drawing & QAP of mechanical grid for Pankha, Unnao, Shuklaganj STP	09-01-20
9.	09-01-20	k/290	Design & drawing for Unnao	09-01-20
10.	11-01-20	k/292	Repair to DFG Bingawan	13-01-20
11.	11-01-20	k/293	High COD incoming sewage at Bingawan	13-01-20
12.	11-01-20	k/294	Manhole for Unnao sewer line	13-01-20
13.	13-01-20	k/299	Comment over I & D works Unnao	15-01-20
14.	13-01-20	k/300	Renovation of Bingawan facilities	15-01-20
15.	13-01-20	k/301	Shifting of electric pole Pankha site	15-01-20
16.	14-01-20	k/303	Sewage design Unnao	15-01-20
17.	14-01-20	k/304	Submission of bank guarantee against advance	15-01-20
18.	14-01-20	k/305	submission of revised structural drawings Unnao	15-01-20
19.	15-01-20	k/306	Supply of RTO and related supplies	16-01-20
20.	16-01-20	k/307	Comment on BEP Jajmau facilities	18-01-20
21.	16-01-20	w-5-97	Regarding general construction drawing of manhole	17-01-20
22.	22-01-20	k/310	Submission of industrial all rise policy Bingawan	24-01-20
23.	22-01-20	k/311	Inspection of analysis COD/BOD/TSS to be supplied by M/S DNP Bingawan	24-01-20
24.	24-01-20	k/314	Inspection of RTO Bingawan	25-01-20
25.	24-01-20	k/316	Reply to comments on BEP of Jajmau facilities	25-01-20
26.	27-01-20	k/318	Inspection and testing manufacture works	27-01-20
27.	27-01-20	k/319	Renovation of Jajmau facilities	27-01-20
28.	27-01-20	k/320	QAP RTU Bingawan	27-01-20
29.	28-01-20	k/321	MPR for construction Pankha/ Unnao	28-01-20
30.	28-01-20	k/322	Concessionaire representation	28-01-20
31.	28-01-20	k/323	Submission of compliance report on comments given on Unnao site w.r.t. soil investigation Unnao	29-01-20
32.	28-01-20	k/324	COD improvement at Sajari	29-01-20

**Table: Outward Letter**

SN	Date	To Whom Sent	Place	Subject
1.	01.01.20	G.M, UPJN	Kanpur	RTOLMS-PDS for RTU Bingawan
2.	01.01.20	G.M, UPJN	Kanpur	RTOLMS-technical documents for analyser Bingawan
3.	02.01.20	PM II, UPJN	Kanpur	aeration system for COD removal Sajari
4.	03.01.20	G.M, UPJN	Kanpur	proposal for improvement Sajari
5.	04.01.20	Madhava Kr, NMCG	New Delhi	submission of invoices with MPR
6.	06.01.20	G.M, UPJN	Kanpur	inspection report of Sajari STP
7.	07.01.20	SE-3rd circle	Lucknow	revised str. Design & drawing Unnao
8.	07.01.20	G.M, UPJN	Kanpur	MPR of Bingawan facility
9.	08.01.20	G.M, UPJN	Kanpur	revised construction plan Pankha
10.	09.01.20	G.M, UPJN	Kanpur	MPR of Bingawan facility
11.	10.01.20	SE-3rd circle	Lucknow	man hole str. Detail Unnao
12.	13.01.20	SE-3rd circle	Lucknow	man hole str. Detail Unnao
13.	13.01.20	SE-3rd circle	Lucknow	comments over soil test report and man hole str. Detail Unnao
14.	16.01.20	SE-3rd circle	Lucknow	submission of data sheet, GA & QAP of mechanical Grid collection system Unnao
15.	16.01.20	G.M, UPJN	Kanpur	submission of data sheet, GA & QAP of mechanical Grid collection system Unnao
16.	17.01.20	SE-3rd circle	Lucknow	str. Drawing for Unnao MPS
17.	20.01.20	PM E&M, UPJN	Kanpur	inspection report of Rakhimandi IPS
18.	23.01.20	G.M, UPJN	Kanpur	reply to comments of Jajmau facility
19.	23.01.20	SE-3rd circle	Lucknow	comments over I&D works Unnao
20.	23.01.20	Madhava Kr, NMCG	New Delhi	submission of invoices with MPR
21.	24.01.20	G.M, UPJN	Kanpur	submission of industrial all risk policy for Bingawan & Sajari
22.	24.01.20	G.M, UPJN	Kanpur	change of MOC SS-316 in line of 304 for grit system
23.	24.01.20	G.M, UPJN	Kanpur	inspection report Pankha
24.	24.01.20	G.M, UPJN	Kanpur	inspection of analyser COD/BOD/TSS to be supplied by M/S DNP international Bingawan
25.	25.01.20	G.M, UPJN	Kanpur	inspection & testing at manufacture work Bingawan
26.	25.01.20	G.M, UPJN	Kanpur	safety inspection report Sajari
27.	25.01.20	G.M, UPJN	Kanpur	inspection of RTU Bingawan
28.	27.01.20	G.M, UPJN	Kanpur	ESIA progress report
29.	27.01.20	G.M, UPJN	Kanpur	appointment of concessionaire representative during construction period
30.	27.01.20	G.M, UPJN	Kanpur	MPR for Pankha & Unnao
31.	27.01.20	G.M, UPJN	Kanpur	reply to comments on BEP Jajmau
32.	29.01.20	G.M, UPJN	Kanpur	MPR for construction Pankha & Unnao
33.	29.01.20	G.M, UPJN	Kanpur	COD improvement at Sajari
34.	31.01.20	SE-3rd circle	Lucknow	submission of compliance report Unnao
35.	31.01.20	G.M, UPJN	Kanpur	Reminder on safety related inspection & compliance
36.	31.01.20	G.M, UPJN	Kanpur	QAP RTU Bingawan

**9 MINUTES OF MEETING**

N/A

**10 MOBILIZATION PLAN**

Mobilization plan for Oct 2019 is given below:

**Present**

<b>Name</b>	<b>Designation</b>	<b>Joining Date</b>
NA	NA	NA

**Next Month**

<b>Name</b>	<b>Designation</b>	<b>Joining Date</b>
Mr. Satyendra Kr. Sharma	Support Engineer	20.02.20



## **ANNEXURES**

**Annexure 1: Site Visit Photographs**



**Pankha STP Site**



**Pankha STP Site**



**Unnao STP Site**



**Unnao STP Site**

### Site Visit Photographs



**Bingawan STP**



**Bingawan STP**



**Sajari STP**



**Sajari STP**

**ANNEXURE 2: STP facilities Site Photographs - Pankha**

**Pankha Boundary Wall**



**Excavation work of SBR**

### STP facilities Site Photographs: Unnao

**Unnao Boundary Wall**



