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)**

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

Monthly Progress Report

Of

Project Engineer

NOVEMBER-2019



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 14-0 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 Gol approved the flagship Namami Gange programme for cleaning, rejuvenation, and protection of the river Ganga. In January 2016, the Gol 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 Gol 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 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.

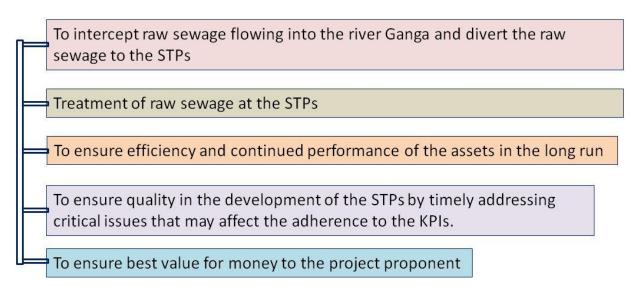


Figure 1: Objectives of NMCG and UP JAL NIGAM



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'
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 No.	:	14/GM/2018-19
Cost of Project (CAPEX+OPEX)	:	₹ 816.24 Cr
Effective Date	:	11.10.2019
Completion	:	24 Months from effective date
date (as per contract)		(21 months construction + 3 months running)
O&M period	:	15 years after last Commercial Operation Date (COD)
Description of Work	:	 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, Renovation and 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 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.	No. of
	Date of Start- Effective Date (11.10.2019)	/size	units/length
	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-ф	6.91km
1.10	Rising main (Sundar Nagar IPS to collection chamber)	800mm-ф	0.651km
1.11	Gravity main (Thermal Nala B Tapping to common collection chamber)		
1.12	Common Gravity main (collection chamber to MPS)	2000mm- ф	1.948Km
1.13	Sewage network	350mm-ф	2.771km
		400 mm-ф	1.359km
		450 mm-ф	1.272km
		500 mm-ф	1.243km
		600 mm-ф	1.778km
		700 mm-ф	1.487km
		800 mm-ф	1.012km



			900 mm-ф	2.170km
			1200 mm-ф	3.634km
			1600 mm-ф	1.596km
			2000 mm-ф	1.948km
			Total	20.74km
1.14	Milestones	Date		
	1 st Milestone	11-Oct-2019 to 25-Apr-20	20	
	2 nd Milestone	26-Apr-2020 to 10-Jul-202	20	
	3 rd Milestone	11-Jul-2020 to 24-Sep-202	20	
	4 th Milestone	25-Sep-2020 to 09-Dec-20)20	
	5 th Milestone	10-Dec-2020 to 13-Feb-20)21	
	6 th Milestone	14-Feb-2021 to 21-Apr-20	21	
	7 th Milestone	22-Apr-2021 to 22-Jun-20	21	
	8 th Milestone	23-Jun-2021 to 25-Aug-20	21	

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			
	Date of Start- Effective Date (11.10.2019)	Capacity/	No. of units/length	
	Scope of Work- New Construction and O&M	dia. /size		
1.1	STP	15 MLD	1	
1.2	Sump cum Pump house (MPS)	40 MLD	1	
1.3	Trunk Sewer	1200mm ф	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			
	1 st Milestone 12-Oct-2019 to 24-Feb-	2020		



2 nd Milestone	25-Feb-2020 to 15-May-2020
3 rd Milestone	16-May-2020 to 30-Jul-2020
4 th Milestone	30-Jul-2020 to 14-Oct-2020
5 th Milestone	15-Oct-2020 to 24-Dec-2020
6 th Milestone	10-Dec-2020 to 01-Mar-2021
7 th Milestone	02-Mar-2021 to 05-May-2021
8 th 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.	No. of
	Date of Start- Effective Date (11.10.2019)	/size	units/length
	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 x 1m	100m
1.10	Milestones	Land not finalized	

^{*}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		
Α	Phase-I	Capacity/dia.	No. of
	Date of Start- Effective Date (11.10.2019)	/size	units/length
	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	ССТ	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 CSPS	-	1
В	Phase-II		
	Schedule Handing Over Date- 01.10.2019	Capacity/dia.	No. of
	Scope of Work- O&M	/size	units/length
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	No. of
	Schedule Handing Over Date- 01.04.2019	/dia. /size	units/length
	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.	No.	of
	Schedule Handing Over Date- 11.10.2019	/size	units/length	
	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 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. 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 CONDITIONS PRECEDENT TO BE SATISFIED BY THE CONCESSIONAIRE

SN	Facilities that need to be constructed or renovated	Name of the Site	Status/Remarks			
			Pankha STP BEP excluding structural and electrical incorporating STC comments approved by IITR. Stamped approval expected to be done in near future.			
		Pankha	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			
	Submit the Phase I Designs and		Process design including GAs on Pankh Facilities approved by UPJN by 31.08.19.			
	Drawings to the Jal Nigam for its approval in accordance with Article 7;		BEP drawings excluding structural and electrical duly approved by IITR (16.08.19). To be approved by UPJN.			
		Unnao	BEP Unnao structure design-vetted on 03.10.19			
			Unnao Structure design- vetted by STC on 15.10.19			
			Boundary wall drgs approved by UPJN by 31.08.19.			
			Rest in progress.			
		Shuklaganj	BEP drawings excluding structural and			



			electrical duly approved by IITR (08.08.19). To be approved by UPJN.				
			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				
			Consensus compliance duly signed with hard copies of drawings submitted to UPJN on 23.07.19 for forwarding to IITR.				
		Jajmau STP 1	IITR has indicated in writing that they would not be able to review any drawing and design beyond STPs at Shuklaganj, Unnact and Pankha till they receive advance of NMCG writes to Director of IITR. This constitutes only approx. 25% of the total estimated construction value wise.				
			Under process				
	Prepare the Construction / renovation	Pankha					
i.	Plan for these Facilities within 30 days from the Appointed Date and submit	Unnao	Approved by UPJN for Pankha and Jajmau STP 1 on 30.08.19. Recommended by STP				
	the Construction Plan to the Jal Nigam for its approval in accordance with	Shuklaganj	for approval on 30.08.19 for Unnao ar Shuklaganj, under approval at UPJ Lucknow.				
	Article 7.3;	Jajmau STP 1	Lucknow.				
		Pankha					
	Submit the ESHS Documents 45 days	Unnao	Approved for all Facilities by UPJN on				
ii.	before the Effective Date to the Jal Nigam for its approval in accordance with Article 7.4;	Shuklaganj	30.08.19. Recommended by STP on 30.08.19 for Shuklaganj and Unnao, under approval at UPJN Lucknow.				
		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		Contractors workers at Jajmau plant are not allowing concessionaire personnel to visit the plant for inspection and survey since				



	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.		29.07.19 KRMPL informed that it Shall be provided by 4.09.19
В	For Jajmau Phase 1 Facilities and Sajari Facilities, before Effective Date	Submission	Status/Remarks
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;		
а	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
С	Bingawan	Submitted on 31.05.19 by the Concessionair e. Comments by STC on 07.06.19. Reminders on 2nd July, 10th July and 14th Aug. Concessionair e committed to resubmit on 06.09.19	TSS at outlet was within limits other than 2 days since KRMPL took over independent operation of the Plant from 16.07.19. Those 2 days value was 60mg/l But COD not controlled. KRMPL is required to study the impact if any on the outlet COD and report improvement required, if any, by 15 th September, 2019
	Submit the ESHS Documents 45 days before the Effective Date to the Jal Nigam for its approval in accordance with Article 7.4;		



а	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;		
а	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
С	(Bingawan)*	Critical work including closing of boundary wall, construction of corridor for Mazar which is inside the plant and repair of DGF is pending. Trial run done on 18th and 19th June. TSS was not met within guaranteed level during	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.



	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.	-	

С	Additionally, for the overall infrastructure in Kanpur	Status/Remarks
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.	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; • Temporary power supply • Consent for storage of hazardous material	 Application to EB submitted. In the meantime, construction work is being planned to be



	Consent Fire fighting system	undertaken using DG sets. Not applicable Not applicable
V.	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;	Sanction letter from lender with T&C submitted on 18.04.19. Signed Agreement soft copy submitted on 30.08.19
vi.	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	Submitted on 05.08.19
vii.	Execute the Escrow Agreement with the Jal Nigam, NMCG, and the Escrow Bank in the agreed form set out at Schedule 4;	Signed by Concessionaire on 04.07.19
viii.	Submit to the Jal Nigam certified true copies of the constitutional documents of the Concessionaire;	Submitted on 18.04.19
ix.	Submit to the Jal Nigam a legal opinion stating that: 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 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.	Shall be submitted by 09.09.19 (after signing of Substitution Agreement)
x.	Submit to the Jal Nigam a certificate, duly attested by a director, certifying the shareholding pattern of the Concessionaire.	Submitted on 18.04.19



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.	BEPs (except structure design &	Shuklaganj BEP-Vetted & appraised on 08.08.19				
	drawings)	BEP Unnao Boundary wall-Vetted 0n 12.08.19				
	• Process	BEP Unnao-Vetted & sent for approval on 22.08.19				
	Mechanical	Boundary wall, ESHS & Construction plan submissions-				
	Electrical & instrumentation	vetted & sent for approval to UPJN on 28.08.19				
2.	BEP Structure Design & Drawings	Pankha structure boundary wall-Vetted & sent to UPJN				
	Compound wall, MPS, PTU, C-Tech basin, CCT, Sludge Thickener, Supernatant sump, Centrifuge building, admin building, Staff quarters, Guard room)	for further action on 29.08.19 BEP Unnao structure design-vetted on 03.10.19 BEP Pankha Str. Design-vetted on 07.10.19 Pankha Structure design & drawing- approved on 08.11.19				
3.	Construction Plan	Revised project schedule for Pankha, Shuklaganj				
4.	Sewer Network/Line Design	Jajmau & Unnao-Submission vetted & sent to UPJN for				
5.	Topo, Geo tech & survey reports	approval on 10.07.19 ESHS approval-Already vetted by STC. Approved by UPJN on				
6.	ESHS Plan	26.09.19				
7.	Scope of Work- O&M	O&M manual Jajmau- appraised on 13.05.19				
		Sajari STP-Handed over to KRMPL on 29.05.19				
		O&M manual Sajari- vetted on 01.06.19				

7 PROGRESS OF WORK IN NOVEMBER 2019



In the month of October 2019, only Unnao STP facility work execution was scheduled as per Construction Plan. In which site clearance activity was to be completed by 12th Oct. 19. Milestones and progress of work are given in following table 7.1:

Table 7.1: Milestones and Progress of Work - Pankha STP facility

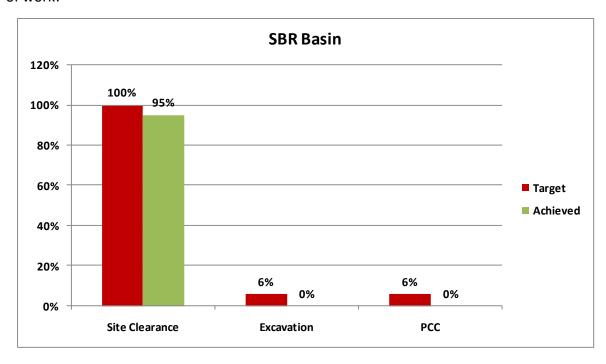


SN	Description	Duration (days)	Start Date	Finish Date	1 st Milestone (due on 25.04.2020)	Proportionate Targets (as on 30.11.2019)	Achieved	Backlog	Remarks
Α	STP								
1	SBR Basin Area								
i	Site Clearance	1	26-Nov-19	26-Nov-19	100.00%	100%	95%	5%	Electric pole is to be removed
ii	Excavation & PCC	70	27-Nov-19	04-Feb-20	100.00%	6 %	0% Excavation & 0% PCC	6% Excavation & 6% PCC	Excavation work started
19	Compound Wall								
i	Excavation & PCC	538	26-Nov-19	18-May-21	28.00%	1%	3% Excavation & 0% PCC	0% & 1% PCC	only 35 m out of 1010 m Excavation work done



7.1.1 SBR BASIN - PANKHA FACILITY

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 and PCC has not been done. Following graph shows the progress of work:



7.1.2 BOUNDARY WALL- PANKHA FACILITY

Following graph shows the progress of work compound wall at Pankha facility:

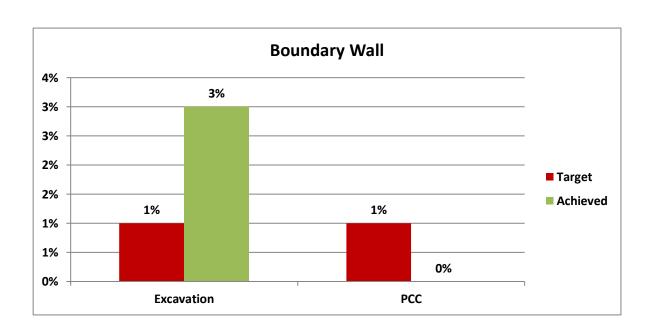




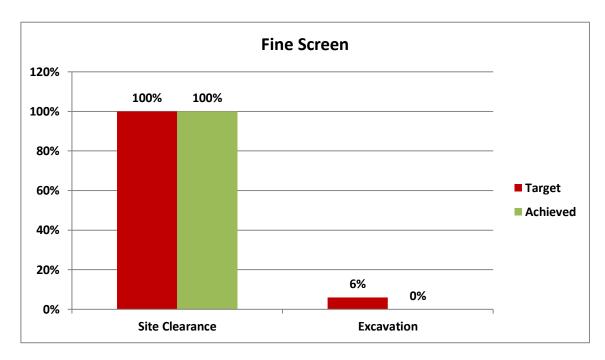
Table: 7.2 - UNNAO FACILITIES

SN	Description	Duration (days)	Start Date	Finish Date	First Milestone (due on 24.02.2020)	Proportionate Targets (as on 30.11.2019)	Achieved	Backlog	Remarks			
1	STP											
Α	Inlet chamber Area											
	Site Clearance	1	12-Oct-19	12-Oct-19	100.00%	100.00%	100.00%	0%	Completed			
	Excavation	70	26-Oct-19	04-Jan-20	100.00%	6%	0%	6%	Geo-Tech report under review			
В	Fine Screen Area											
	Site Clearance	1	01-Nov-19	01-Nov-19	100.00%	100.00%	100.00%	0%	Completed			
	Excavation	70	02-Nov-19	10-Jan-20	100.00%	6%	0%	6%	Geo-Tech report under review			
С	Grit Chamber Area											
	Site Clearance	1	11-Nov-19	11-Nov-19	100.00%	100.00%	100.00%	0%	Completed			
	Civil work	104	12-Nov-19	24.Feb.20	100.00%	17%	0%	17%	Geo-Tech report under review			
D	Parshall Flume Chan	nel Area										
	Site Clearance	1	28-Nov-19	28-Nov-19	100.00%	100.00%	100.00%	0%	Completed			
	PCC & Raft Work	104	29 Nov-19	12-Mar-20	84%	1%	0%	1%	Geo-Tech report under review			
J	External Developme	nt										
	Boundary Wall	434	12-Oct-19	19-Dec-20	31.00%	11%	5.00%	6.00%	Stopped on 10.12.19 as increased water table was detected.			



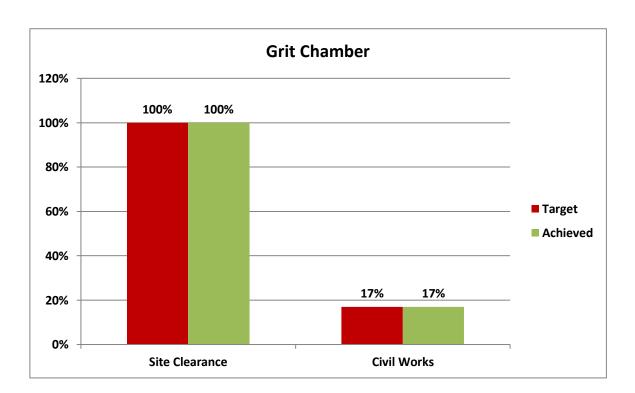
7.1.3 FINE SCREEN - UNNAO FACILITIES

The proportionate target of for fine screen of Unnao facility in the month of November 2019 was site clearance (100%) and excavation (6%). Excavation work has not been started. Following graph shows the backlog of work:



7.1.4 GRIT CHAMBER - UNNAO FACILITIES

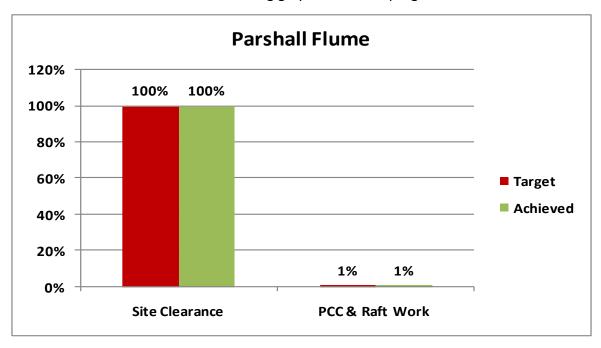
The proportionate target of for grit chamber of Unnao facility in the month of November 2019 was civil works 17%. Following graph shows the progress of work:





7.1.5 PARSHALL FLUME - UNNAO FACILITIES

The proportionate target of for Parshall flume of Unnao facility in the month of November 2019 was PCC & Raft work 1%. Following graph shows the progress of work:



7.1.6 BOUNDARY WALL - UNNAO FACILITIES

The proportionate target of for Parshall flume of Unnao facility in the month of November 2019 was boundary wall 30%. Following graph shows the backlog of work:

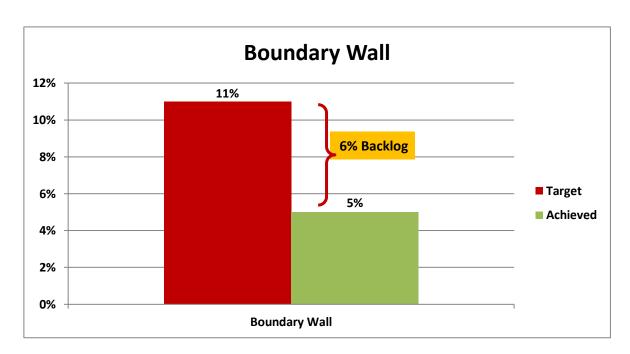




			Table 7	.2: Pro	gress of	Work – H	IAM Ka	npur Projec	ct (on NN	1CG Perfo	orma)		
Date	Name of Activity#	Date of Receipt	Date of Approval (Vet / Commen t)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man- days of each Key Personne	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)
	Construction plan for Unnao	01.11.19 (K-220)	Already vetted by STC (S-150)	0	20	-	-	Mr. SP Tripathi		-	-	-	This is for information on this was comment by UPJN to be complied by KRMPL
01.11.19	Scope Trunk sewer, I&D & Rising main - Bingawan	05.11.19 (K-219)	Comment sent on 08.11.19 (S-212)	3	20	-	-	Mr. JP Tripathi	1+1+1				For taking over -Action is to be taken by KRMPL
	Meeting / Appraisal by CE UPJN Kanpur	04.11.19	-	0	20	-	-	Mr. CM Dimri & Mr. JP Tripathi		-	-	-	GM directed to take legal advice about sub contract.
02.11.19	Construction plan / milestone of Unnao STP	02.11.19 (J-M- 47/31)	Comment sent on 04.11.19 (S-209)	2	20	-		Mr. SP Tripathi	1	-	-	-	Asked to address KRMPL instead of Shapoorji Pallonji.
03.11.19								SUNDAY	•			•	
04.11.19	Monthly performance report of Sajari facility	04.11.19 (K-214)	Comment sent on 05.11.19 (S-210)	1	20	-	-	Mr. JP Tripathi	1	-	-	-	Asked to comply the comments for consideration of COD.



	BEP of Unnao sewerage network	05.11.19 (K-222)	NA	0	20	-	-	Mr. SP Tripathi	1	-	-	-	For this STC already asked KRMPL for compliance.
05.11.19	BEP Pankha sewerage network with I&D work	05.11.19 (K-221)	NA	0	20	-	-	Mr. SP Tripathi		-	-	-	For this STC already asked KRMPL for compliance.
	BEP of Unnao for I&D work	06.11.19 (K-224)	NA	0	20	-	-	Mr. SP Tripathi	1+1+1	-	-	-	For this STC already asked KRMPL for compliance.
06.11.19	Online monitoring (RTOLMS) Bingawan STP	06.11.19 (K-223)	Comment sent on 08.11.19 (S-213)	2	20	-	-	Mr. CM Dimri/Mr. Prasoon Bhardwaj		-	-	-	Requested GM to draw attention towards Clauses & contractual stipulations relevant to RTOLMS
07.11.19	Inspection Report of 200 MLD Bingawan facilities	05.12.19 (J-M- 7/49)	Comment sent on 09.12.19 (S-244)	4	20	-	-	Mr. JP Tripathi	1	-	-	-	Requested GM (UPJN) to take action on 100% non availability of Bingawan facility
08.11.19	Regarding vetting and recommend ation for approval of design &	13.11.19 (J-w- 20/443)	Approved on 07.11.19 by UPJN	0	20	-	-	Mr. CM Dimri	1+ 1+1	-	-	-	Approved and closed.



	drawings of various components for Pankha Proposal for improvemen t in performance of treated water quality for 42 MLD Sajari STP	13.11.19 (K-224)	Comment sent on 20.11.19 (S-227)	7	20	-	-	Mr. JP Tripathi Mr.Kamraju		-	-	-	Requested GM to Instruct the concessionair e to submit all the required design calculations/d ata
09.11.19	Signed soil test report	11.11.19 (K-226)	NA	0	20	-	-		1+1	-	-	-	Action already taken
10.11.19								SUNDAY					
	Proposed STP at Dakari Unnao	11.11.19	Comment sent 15.11.19	4	20	-	-	Mr. Priyash Shukla	1 +1	-	-	-	New site for STP Unnao under investigation
11.11.19	Scope of work of RTOLMS Bingawan facilities	11.11.19 (K-227)	Comment sent on 11.11.19 (S-215)	0	20	-	-	Mr. JP Tripathi		-	-	-	Asked concessionair e to resubmit the O&M manual of 210MLD Bingawan facilities at the earliest
12.11.19	Attended office	-	-	0	20	-	-	Mr. JP Tripathi Mr. Priyash Shukla	1+1	-	-	-	Review the BEPs and discussion
13.11.19	Commercial operation date for	13.11.19 (K-228)	NA	0	20	-	-	Mr. JP Tripathi	1	-	-	-	Action to be taken by Jal nigam



	Sajari facilities												
14.11.19	Scope Trunk sewer, I&D & Rising main	18.11.19 (J-W-20- 445)	NA	0	20	N/A	-	Mr. JP Tripathi	1	-	-	-	UPJN write to KRMPL
15.11.19	For deployment of 2 engineer at STP	16.11.19 (w-s- 97/316)	NA	0	20	-	-		1	-	-	-	Request by EE, Unnao
16.11.19	Structural drawing for Unnao facilities	16.11.19 (K-229)	Comment sent on 19.11.19 (S-221)	3	20	-	-	Mr. CM Dimri Mr. P.walunjkar	1	-	-	-	Requested SE to direct KRMPL to make necessary arrangement at earliest for Geo tech investigation on more points.
17.11.19		1	L			L	S	UNDAY		I		•	-
18.11.19	Re- demarcation & confirmation of level & HFL for Pankha STP	19.11.19 (K-230)	23.11.19 (S-231)	4	20	-	-	Mr. CM Dimri	1	-	-	-	Comments sent to KRMPL over concerning bench mark for Pankha STP.
19.11.19	Renovation at 130MLD STP at Jajmau	20.11.19 (J-w- 30/26)	25.11.19 (S-233)	5	20	-	-		1	-	-	-	Summarizing our comments as sent on our earlier letter
20.11.19	Issue of COD letter for Sajari	20.11.19 (K-232)	NA	0	20	-	-	Mr. JP Tripathi	1	-	-	-	For information only



21.11.19	Sajari data analysis	-	NA	0	20	-	-	-	1	-	-	-	Data study and discussion
	Sajari O&M manpower – revised list	25.11.19 (K-234)		0	20	-	-	Mr. JP Tripathi	1	-	-	-	Man power received.
22.11.19	Insurance for Bingawan facilities	25.11.19 (K-237)	Comment sent 26.11.19 (S-235)	1	20	-	-	Mr. JP Tripathi		-	-	-	Requested GM to inform concessionair e about the present replacement value of Bingawan facility.
23.11.19	Land hand over for 30MLD at Pankha	25.11.19 (K-239)	NA	0	20	-	-		1	-	-	-	For information only
24.11.19							S	UNDAY					
25 44 40	Revised BEP Unnao sewerage network with I&D	25.11.19 (K-242)	Comment sent 03.12.19 (S-237)	9	20	-	-	Mr.CM Dimri Mr. S.Patil	1	-	-	-	Comments sent to KRMPL on I&D works as per our experts observation
25.11.19	Improvemen t proposed for Sajari COD level in treated effluent	25.11.19 (K-240)	Comment s sent on 11.12.19 (S-251)	16	20	-	-	Mr. JP Tripathi	1	-	-	-	Concessionair e was directed to submit all the required design calculation.
26.11.19	O&M manual for 210 MLD Bingawan facilities	02.12.19 (J-w- 49/74)	NA	1	20	-	-	Mr. JP Tripathi	1	-	-	-	Concessionair e was directed to resubmit the O&M manual for Bingawan



													facilities
27.11.19	Insurance policy Sajari	28.11.19 (K-245)	Comment s sent on 29.11.19 (S-239)	1	20	-	-	Mr. JP Tripathi	1	-	-	-	Concessionair e was instructed to incorporate over the comments sent by STC.
	Cross checking of Geo tech result at Shuklaganj original site	28.11.19 (K-247)	NA	0	20	-	-	Mr.CM Dimri/ Mr. Prasoon Bhardwaj	1+1	1	-	-	No action needed. Original Site has been changed. New site to be decided.
28.11.19	Renovation of Bingawan: RTOLMS	28.11.19 (K-248)	06.12.19 (S-243)	8	10 days	-	-			-	-	-	Concessionair e was directed to provide a distinct document no. On each of their submission.
29.11.19	NMCG Meeting in New Delhi	-	-	0	20	-	-	Mr.CM Dimri	1	-	-	-	Meeting at NMCG New Delhi
30.11.19	General work	-	-	0	20	-	-	Mr.CM Dimri	1	-	-	-	General work / corresponden ce
Total									30+4+20 +27+24+ 30				

Abbreviation used: J-Jal Nigam letter no. /K-KRMPL letter no. /N- NMCG letter no. / S-STC letter no.





8 LIST OF LETTER

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

Table: Inward Letter

1. 01.11.19 k/220 construction plan for Unnao 2. 01.11.19 k/213 clarification on discrepancies regarding MPR of Sajari facility 4. 17.10.19 k/214 COD Sajari 5. 05.11.19 k/222 submission of BEP of Unnao sewerage network for approval 6. 05.11.19 k/221 submission of BEP of Pankha sewerage network for approval 7. 01.11.19 k/219 trunk sewer, I&D & rising main Pankha 8. 06.11.19 k/224 submission of BEP of Unnao I&D work for approval 9. 06.11.19 k/223 O&M manual Bingawan facility 10. 02.11.19 w-20/442 land use change order 11. 08.11.19 k/224 proposal for improvement in performance of treated water quality 12. 09.11.19 k/226 signed soil test report submission Unnao 13. 11.11.19 k/227 O&M manual Bingawan facility 14. 13.11.19 w-20/443 development of STP on HAM Kanpur 15. 13.11.19 k/228 COD for Sajari 16. 15.11.16 w-s-97/316 for deployment of 2 engineer at STP 17. 16.11.19 k/229 structural drawing for Unnao facility 18. 14.11.19 w-20/445 trunk sewer, I&D & rising main Pankha 19. 18.11.19 k/230 requesting for re-demarcation & confirming level & HFL for Pankha 20. 19.11.19 k/232 issue for COD letter Sajari 21. 20.11.19 k/233 submission of electro mechanical items manufacturer list Unnao 23. 22.11.19 k/237 insurance for Bingawan facilities 25. 22.11.19 k/234 Sajari manpower revised list	01.11.19 02.11.19 04.11.19 05.11.19 05.11.19 05.11.19 05.11.19 06.11.19 06.11.19 06.11.19 11.11.19 11.11.19 13.11.19 16.11.19 16.11.19 18.11.19
2. 01.11.19 M-2A/168 Meeting 3. 04.11.19 k/213 clarification on discrepancies regarding MPR of Sajari facility 4. 17.10.19 k/214 COD Sajari 5. 05.11.19 k/222 submission of BEP of Unnao sewerage network for approval 6. 05.11.19 k/221 submission of BEP of Pankha sewerage network for approval 7. 01.11.19 k/219 trunk sewer, I&D & rising main Pankha 8. 06.11.19 k/224 submission of BEP of Unnao I&D work for approval 9. 06.11.19 k/223 O&M manual Bingawan facility 10. 02.11.19 w-20/442 land use change order 11. 08.11.19 k/224 proposal for improvement in performance of treated water quality 12. 09.11.19 k/226 signed soil test report submission Unnao 13. 11.11.19 k/227 O&M manual Bingawan facility 14. 13.11.19 k/228 COD for Sajari 16. 15.11.16 w-s-97/316 for deployment of 2 engineer at STP 17.	02.11.19 04.11.19 05.11.19 05.11.19 05.11.19 05.11.19 06.11.19 06.11.19 06.11.19 11.11.19 11.11.19 13.11.19 16.11.19 16.11.19
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6. 05.11.19 k/221 submission of BEP of Pankha sewerage network for approval 7. 01.11.19 k/219 trunk sewer, I&D & rising main Pankha 8. 06.11.19 k/224 submission of BEP of Unnao I&D work for approval 9. 06.11.19 k/223 O&M manual Bingawan facility 10. 02.11.19 w-20/442 land use change order 11. 08.11.19 k/224 proposal for improvement in performance of treated water quality 12. 09.11.19 k/226 signed soil test report submission Unnao 13. 11.11.19 k/227 O&M manual Bingawan facility 14. 13.11.19 w-20/443 development of STP on HAM Kanpur 15. 13.11.19 k/228 COD for Sajari 16. 15.11.16 w-s-97/316 for deployment of 2 engineer at STP 17. 16.11.19 k/229 structural drawing for Unnao facility 18. 14.11.19 w-20/445 trunk sewer, I&D & rising main Pankha 19. 18.11.19 k/230 requesting for re-demarcation & confirming level & HFL for Pankha 20. 19.11.19 w-30/26 renovation at Jajmau STP 21. 20.11.19 k/232 issue for COD letter Sajari 22. 20.11.19 k/233 submission of electro mechanical items manufacturer list Unnao 23. 22.11.19 w-20/459 geo tech report for construction Pankha 24. 22.11.19 k/237 insurance for Bingawan facilities	05.11.19 05.11.19 06.11.19 06.11.19 06.11.19 08.11.19 11.11.19 11.11.19 13.11.19 16.11.19
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24. 22.11.19 k/237 insurance for Bingawan facilities	20.11.19
	22.11.19
25. 22.11.19 k/234 Sajari manpower revised list	25.11.19
	25.11.19
26. 22.11.19 k/235 UPJN representative	25.11.19
27. 22.11.19 k/236 renovation of Bingawan & Jajmau facility	25.11.19
28. 22.11.19 k/238 structure design for Unnao & Pankha	25.11.19
29. 25.11.19 k/243 submission of revised electro mechanical item manufacturer, vendo list	or 25.11.19
30. 23.11.19 k/239 land handed over of site Pankha	25.11.19
31. 22.11.19 w-20/460 land handed over of site Pankha	27.11.19
32. 25.11.19 k/241 COD for Sajari	25.11.19
33. 25.11.19 k/240 improvement proposed for Sajari COD level treated effluent	25.11.19
34. 25.11.19 k/242 Revised BEP drawing for Unnao I&D work	25.11.19
35. 26.11.19 k/244 CP status as on 26.11.19 of UPJN	28.11.19
36. 27.11.19 k/246 CP status as on 26.11.19 of UPJN	28.11.19
37. 27.11.19 k/245 insurance policy Sajari	
38. 28.11.19 k/247 cross checking of geo tech result at Shuklaganj	28.11.19
39. 28.11.19 k/248 renovation of Bingawan facility	28.11.19



Table: Outward Letter

SN	Date	To Whom Sent	Place	Subject				
1.	04.11.19	PM IV, UPJN	Lucknow	Construction plan milestone of Unnao STP				
2.	05.11.19	G.M, UPJN	Kanpur	COD for Sajari facility				
3.	05.11.19	Rajat Gupta, NMCG	New Delhi	Status Issue				
4.	08.11.19	G.M, UPJN	Kanpur	trunk sewer , I&D and Rising main Bingawan				
5.	08.11.19	G.M, UPJN	Kanpur	online monitoring system Bingawan				
6.	08.11.19	G.M, UPJN	Kanpur	instrumentation & control part Bingawan				
7.	11.11.19	G.M, UPJN	Kanpur	O&M manual for 210 MLD Bingawan				
8.	12.11.19	SE 3rd circle	Lucknow	str. Design Geo tech report Unnao				
9.	13.11.19	SE 3rd circle	Lucknow	revised line design drawing of Unnao				
10.	14.11.19	Madhava Kr. NMCG	New Delhi	submission of invoice & MPR				
11.	15.11.19	G.M, UPJN	Kanpur	instrument & control part renovation Bingawan				
12.	15.11.19	G.M, UPJN	Kanpur	comment over geo tech report of all site				
13.	19.11.19	G.M, UPJN	Kanpur	str. Design Geo tech report Unnao				
14.	20.11.19	EE CD	Unnao	project estimate				
15.	20.11.19	PM I, UPJN	Kanpur	project estimate				
16.	20.11.19	PM II, UPJN	Kanpur	project estimate				
17.	20.11.19	PM III, UPJN	Kanpur	project estimate				
18.	20.11.19	SE 3rd circle	Lucknow	revised line design & drawing of Unnao				
19.	20.11.19	G.M, UPJN	Kanpur	improvement proposed in the performance of treated effluent in Sajari STP				
20.	20.11.19	EE CD	Unnao	pendency in Unnao facilities				
21.	21.11.19	G.M, UPJN	Kanpur	compliance report on str. Design BEP Shuklaganj, Pankha & Unnao				
22.	21.11.19	SE 3rd circle	Lucknow	revised line design drawing of Pankha				
23.	23.11.19	G.M, UPJN	Kanpur	concerning bench mark for Pankha STP				
24.	23.11.19	G.M, UPJN	Kanpur	BEP for rehabilitation of Jajmau facility (IPS)				
25.	25.11.19	G.M, UPJN	Kanpur	BEP Jajmau STP				
26.	26.11.19	G.M, UPJN	Kanpur	status of CPs/ issues				
27.	26.11.19	G.M, UPJN	Kanpur	insurance for Bingawan facility				

9 MINUTES OF MEETING

N/A

10 MOBILIZATION PLAN

Mobilization plan for Oct 2019 is given below:

Present

Name	Designation	Joining Date
NA	NA	NA



Next Month

Name	Designation	Joining Date
NA	NA	NA



ANNEXURES



Annexure 1: Site Visit Photographs

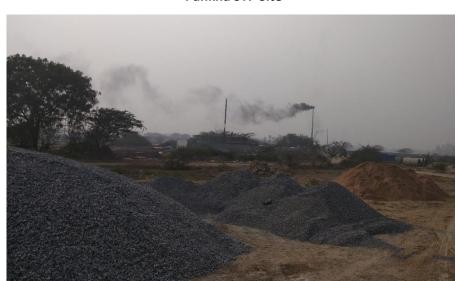




Pankha STP Site



Pankha STP Site



Unnao STP Site

Unnao STP Site



Site Visit Photographs



Bingawan STP



Sajari STP



Bingawan STP



Sajari STP



STP facilities Site Photographs: Pankha





STP facilities Site Photographs: Unnao

Unnao Boundary Wall





