

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

OCTOBER-2019



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



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ABBREVIATIONS

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

MONTHLY PROGRESS REPORT – HAM KANPUR

1 INTRODUCTION

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

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

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

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

- three new STP facilities (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.

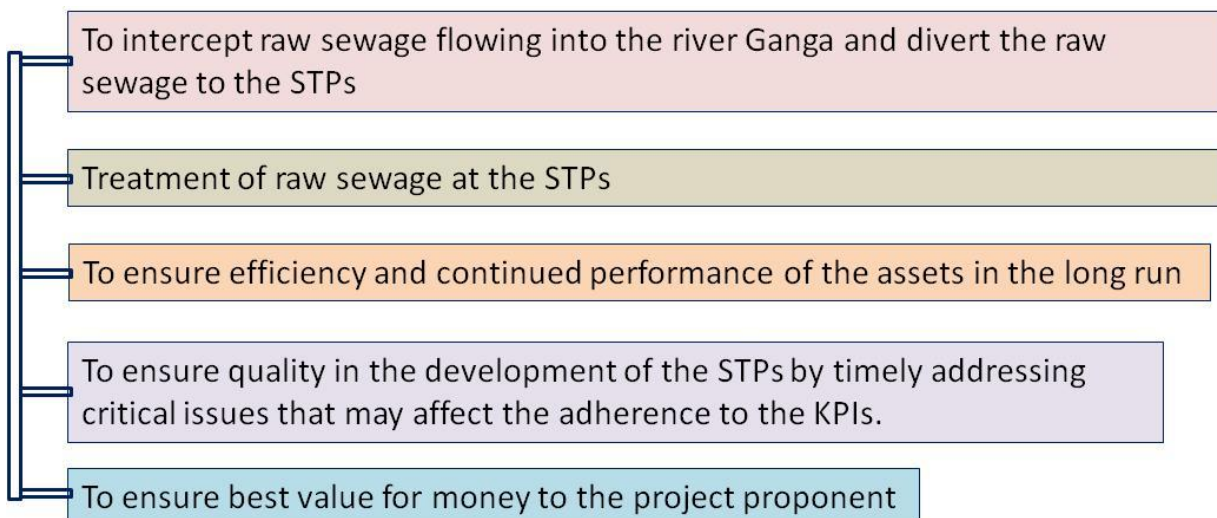


Figure 1: Objectives of NMCG and UP JAL NIGAM

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 date (as per contract)	: 24 Months from effective date (21 months construction + 3 months running)
O&M period	: 15 years after last Commercial Operation Date (COD)
Description of Work	: <ul style="list-style-type: none"> ➤ Construction of three new STPs (SBR) at different locations (30 MLD at Pankha, 15 MLD at Unnao and 5 MLD STP at Shuklaganj) and related infrastructure with 15 years of O&M; ➤ Rehabilitation of 130 MLD (Phase-I) STP at Jajmau with construction of 200 MLD TEPS and 173 MLD CCT at Jajmau with O&M for 15 years; ➤ O&M of 43 MLD (Phase-II) Jajmau facilities, 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. /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
		Total	20.74km
1.14	Milestones	Date	
	1 st Milestone	11-Oct-2019 to 25-Apr-2020	
	2 nd Milestone	26-Apr-2020 to 10-Jul-2020	
	3 rd Milestone	11-Jul-2020 to 24-Sep-2020	
	4 th Milestone	25-Sep-2020 to 09-Dec-2020	
	5 th Milestone	10-Dec-2020 to 13-Feb-2021	
	6 th Milestone	14-Feb-2021 to 21-Apr-2021	
	7 th Milestone	22-Apr-2021 to 22-Jun-2021	
	8 th 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		
1.1	STP		15 MLD	1
1.2	Sump cum Pump house (MPS)		40 MLD	1
1.3	Trunk Sewer		1200mm φ	3.2Km
1.4	I&D works (Nala tapping)		40 MLD	1
1.5	Trash screen		7m-1.7m x 0.8m	1
1.6	Grit chamber		12m-4m x 1m	2
1.7	Collection chamber		3.4m-6.2m x 3m	1
1.8	Rising main (MPS to STP)		750mm φ	100m
1.9	Rising main (bypass)		750mm φ	100m
1.10	Effluent distribution chamber		-	1
1.11	Effluent gravity channel (STP to discharge point)		1.5m x 1.0m	300m
1.12	Effluent disposal drains		-	500m
1.13	Milestones	Date		
	1 st Milestone	11-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. /size	No. of units/length
	Date of Start- Effective Date (11.10.2019)		
	Scope of Work- New Construction and O&M		
1.1	STP	5 MLD*	1
1.2	Sump cum Pump house (MPS)	20 MLD	1
1.3	Connecting sewer	-	1
1.4	I&D works (Nala tapping)	-	1
1.5	Collection chamber	-	1
1.6	Rising main (MPS to STP)	500mm ϕ	50m
1.7	Rising main (bypass)	500mm ϕ	50m
1.8	Retaining wall		1
1.9	Effluent channel (STP to discharge point)	1.5m 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	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	Phase-II		
	Schedule Handing Over Date- 01.10.2019	Capacity/dia. /size	No. of units/length
	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 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
	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.
			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.
			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.
			BEP drawings excluding structural and electrical duly approved by IITR (08.08.19). To be approved by UPJN.
		Shuklaganj	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
		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;	<p>Pankha</p> <p>Unnao</p> <p>Shuklaganj</p> <p>Jajmau STP 1</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.
ii.	Submit the ESHS Documents 45 days before the Effective Date to the Jal Nigam for its approval in accordance with Article 7.4;	<p>Pankha</p> <p>Unnao</p> <p>Shuklaganj</p> <p>Jajmau STP 1</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.
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.		<p>Contractors workers at Jajmau plant are not allowing concessionaire personnel to visit the plant for inspection and survey since 29.07.19</p> <p>KRMPL informed that it Shall be provided by 4.09.19</p>

B	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;		
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 Aug. Concessionaire 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;		
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 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.	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.

		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.	-	
C	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.	<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"> • Temporary power supply • Consent for storage of hazardous material • Consent Fire fighting system 	<ul style="list-style-type: none"> • Application to EB submitted. In the meantime, construction work is being planned to be 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.	<p>Submit to the Jal Nigam a legal opinion stating that:</p> <p>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</p> <p>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.</p>	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 & drawings)	Revised project schedule for Pankha, Shuklaganj, Jajmau & Unnao-Submission vetted & sent to UPJN for approval on 10.07.19 Shuklaganj BEP-Vetted & appraised on 08.08.19 but it is needed to be revised as land proposal has been changed
	• Process	
	• Mechanical	
	• Electrical & instrumentation	
2.	BEP Structure Design & Drawings	BEP Unnao Boundary wall-Vetted On 12.08.19 BEP Unnao-Vetted & sent for approval on 22.08.19 Boundary wall, ESHS & Construction plan submissions-vetted & sent for approval to UPJN on 28.08.19
	Compound wall, MPS, PTU, C-Tech basin, CCT, Sludge Thickener, Supernatant sump, Centrifuge building, admin building, Staff quarters, Guard room)	

		Pankha structure boundary wall-Vetted & sent to UPJN 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 BEP (structure) - appraisal and discussion with KRMPL on 12/10/2019 Unnao Structure design- vetted by STC on 15.10.19 Pankha structure design - vetted by STC on 16.10.19
3.	Construction Plan	ESHS approval-Already vetted by STC. Approved by UPJN on 26.09.19
4.	Sewer Network/Line Design	
5.	Topo, Geo tech & survey reports	
6.	ESHS Plan	
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 & approved by UPJN

7 PROGRESS OF WORK FROM 11TH OCT TO 31ST OCT 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 7.2:

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

S N	Description	Duration (days)	Start Date	Finish Date	1 st Milestone (due on 24.02.20)	Proportionate Target (as on 31.10.2019)	Achieved	Backlog	Remarks
1	STP								
A	Inlet chamber Area								
i	Site Clearance	1	11-Oct-19	11-Oct-19	100.00%	100.00%	100 %	Nil	Completed
ii	Excavation	70	26-Oct-19	04-Jan-20	100.00%	7%	0%	7%	Geo-Tech report under review
J	External Development								
	Boundary Wall								
i	Excavation	435	11-Oct-19	19-Dec-20	30.00%	4%	4%	0 %	Geo-Tech Report under Review

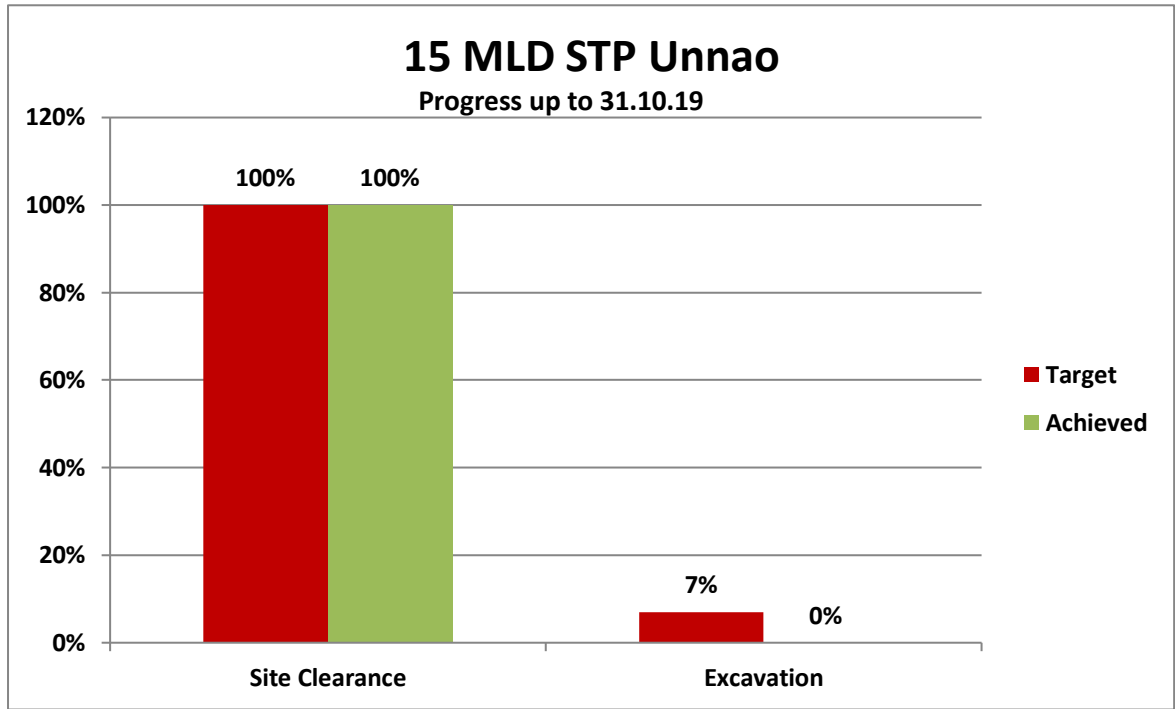


Table 7.2: Progress of Work – HAM Kanpur Project (on NMCG Performa)

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)
11.10.19	Revised O&M Bingawan	11.10.19 J-w- 20/373	11.10.19 S-199	0	20	-	-	Mr. JP Tripathi	1	-	-	-	Asked to resubmit O&M manual
	Effective date declaration	-	-	0	20	-	-	Mr. CM Dimri	1	-	-	-	GM declared ED of HAM Kanpur
12.10.19	BEP Pankha structure	-	-	0	20	-	-	Mr. P. Walunjkar	1	-	-	-	Appraisal & discussion with KRMP
13.10.19	SUNDAY												
14.10.19	Online monitoring facilities for Bingawan	14.10.19 J-w- 49/49	NA	1	20	-	-	Mr. CM Dimri	1	-	-	-	Action to be taken by UPJN
	Electrical & Instrumentation - Jajmau	07.10.1(21.09.19 K-173)	14.10.19 S-202	0	20	-	-	Mr. CM Dimri		-	-	-	-
15.10.19	Structure design Unnao	-	15.10.19 S-204	0	20	-	-	Mr. P.walunjkar	1	-	-	-	Submission vetted by STC & sent to UPJN Lucknow for approval (expect admin building & blower room)
16.10.19	Structure	-	15.10.19	0	20	-	-	Mr.	1	-	-	-	Submission

	design Pankha		S-203					P.walunjar					vetted by STC & sent to UPJN for approval
17.10.19	Unnao structure - Geo Tech report	17.10.19 K-201	17.10.19 S-205	0	20			Mr. Dimri CM	1				Asked to submit duly signed copies of Geo Tech by lab official
18.10.19	Attended office	-	-	0	20	-	-	Mr. Dimri CM	1	-	-	-	Discussion on project activities
19.10.19	Clarification on discrepancies in Sajari monthly reports	25.10.19 J-w-20/413	NA	1	20	-	-	Mr. Tripathi JP	1	-	-	-	Concess. Letter's copy not available in our office. Asked to send it.
20.10.19	SUNDAY												
21.10.19	ELECTION DAY HOLIDAY												
22.10.19	HAM Kanpur-STP	05.11.19 J-w-20/419	05.11.19 S-210	0	20	-	-	Mr. Dimri CM	1	-	-	-	Asked to comply specific comment sent vide our letter no. S-189/192 & Art.8.11 (b)
23.10.19	Meeting Lucknow	-	-	0	20	-	-	Mr. Dimri CM	1	-	-	-	Discussion with SE 3 rd circle about CP
24.10.19	Attended office	-	-	0	20	-	-	Mr. Dimri CM	1	-	-	-	Discussion on project activities
25.10.19	Attended	-	-	0	20	-	-	Mr. CM	1	-	-	-	Discussion on

	office							Dimri					project activities
26.10.19	DIPAWALI HOLIDAYS												
27.10.19													
28.10.19													
29.10.19													
30.10.19	General arrangement drawing Pankha & Unnao	-	-	0	20	-	-	Mr. Dimri CM	1	-	-	-	Comments by SEI
31.10.19	Sajari O&M	-	-	0	20	-	-	Mr. Tripathi JP	1	-	-	-	Study about COD
Total									21+19+19+18				

8 LIST OF LETTER

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

Table 7.1: Inward Letter

DATE	LETTER NUMBER	SUBJECT	RECEIVED DATE
1.10.19	W-10/76	renovation of Bingawan plant :Online Monitoring system	2.10.19
3.10.19	K/194	Response to Various latter	3.10.19
4.10.19	K/197	Renovation of Bingawan facilities	4.10.19
4.10.19	Rakhi/01	Renovation of Bingawan Plant under hybrid annuity PPP mode	5.10.19
4.10.19	K/195	Renovation of Bingawan facilities online monitoring	5.10.19
23.9.19	W-s/97/272	Proposed work	5.10.19
4.10.19	W-S-97/285	Submission of structural drawing for 15 MLD STP Unnao	12.10.19
5.10.19	K/198	Online monitoring for Bingawan	6.10.19
9.10.19	W-20/376	Status of CPs for declaring effective date	10.10.19
10.10.19	W-20/380	Qualification of experts	10.10.19
11.10.19	K/201	Layout drawing of Shuklaganj at new location	12.10.19
12.10.19	K/202	Submission of structural design drawing for CCT & TEPH	12.10.19
12.10.19	K/203	Submission of structural design & drawing for Pankha	12.10.19
12.10.19	K/200	BEP Jajmau phase-1	12.10.19
26.9.19		vetting and approval of design and drawing for various component of sewerage	12.10.19
15.10.19	K/205	Construction and O&M of the facilities	16.10.19
16.10.19	K/204	Labor license policy for Kanpur	16.10.19
16.10.19	K/209	ESHS	16.10.19
16.10.19	K/208	Vendor panel approval for online monitoring Bingawan facilities	16.10.19
17.10.19	K/211	Reference list of phoenix contact for RTU	17.10.19
10.10.19	K/199	Online monitoring of Bingawan	16.10.19
14.10.19	W-49/49	Online monitoring of Bingawan	16.10.19
15.10.19	W-20/407	Comment over compliance	18.10.19
15.10.19	W-20/408	Revised O&M manual for Bingawan	18.10.19
15.10.19	W-20/409	Online monitoring of Bingawan	18.10.19
9.9.19	W-S-97/264	Submission of revised construction plan & procurement tracker for Unnao	14.10.19
16.10.19	K/210	Renovation plan for Jajmau facilities	18.10.19
15.10.19	K/206	Reminder for submission of soft copy for Jajmau	18.10.19
17.10.19	K/215	Technology license agreement	22.10.19
21.10.19	K/216	Construction O&M of the facilities :approval for sub-contractor	22.10.19
11.10.19	K/88	regarding approval of continuous effluent monitoring system	22.10.19
19.10.19	W-20/413	Clarification on discrepancies monthly performance report of Sajari facilities	30.10.19
22.10.19	W-20/420	Corrigendum for declaration of effective date of start for HAM Kanpur	30.10.19
11.10.19	W-10/88	regarding approval of continuous effluent monitoring system	30.10.19
24.10.19	K/217	Submission of GA technical DATA Sheet & QAP for centrifuge of Pankha, Unnao & Shuklaganj	26.10.19
22.10.19	w-20/419	Development of STP on HAM	26.10.19

Table 7.2: Outward Letter

Date	To Whom Sent	Place	Subject
10-01-19	G.M, UPJN	Kanpur	Bingawan RTOLMS
10-08-19	Madhav Kumar, NMCG	Delhi	Submission of invoice for period Feb-Apr 2019
10-09-19	G.M, UPJN	Kanpur	Labor license and work man *
10-09-19	G.M, UPJN	Kanpur	Bingawan RTOLMS
10-09-19	G.M, UPJN	Kanpur	ESHS- qualification of expert
10-09-19	G.M, UPJN	Kanpur	O&M personal Sajari & Bingawan
10-09-19	SE 3rd Circle	Lucknow	Structural design & Drawing Unnao
10-10-19	G.M, UPJN	Kanpur	Online monitoring Bingawan
10-10-19	G.M, UPJN	Kanpur	MPR Bingawan facilities
10-10-19	G.M, UPJN	Kanpur	MPR Sajari facilities
10-10-19	G.M, UPJN	Kanpur	reminder for submission for soft copy of BEP for Jajmau
10-11-19	SE 3rd Circle	Lucknow	Structural design & Drawing Unnao
10-11-19	G.M, UPJN	Kanpur	revised O&M manual Bingawan facility
14/10/2019	G.M, UPJN	Kanpur	comments over compliance report of Pankha line design
14/10/2019	SE 3rd Circle	Lucknow	layout drawing Shuklaganj
14/10/2019	G.M, UPJN	Kanpur	BEP for rehabilitation for Jajmau facility
15/10/2019	SE 3rd Circle	Lucknow	Structural design & Drawing Pankha vetted
15/10/2019	G.M, UPJN	Kanpur	Structural design & Drawing Unnao vetted
17/10/2019	SE 3rd Circle	Lucknow	Unnao effective date declaration
18/10/2019	G.M, UPJN	Kanpur	response to various letter from STC
18/10/2019	G.M, UPJN	Kanpur	letter for effective date
18/10/2020	G.M, UPJN	Kanpur	Sub contracting of construction and O&M facilities to SPCPL

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



Bingawan 200 MLD MPS



Return Sludge, Sajari



Pankha Site



Sajari STP

Annexure 2: Pictures of STP facilities under HAM Kanpur

Unnao STP facility Site

Unnao Boundary Wall



130 MLD Jajmau STP facility

Renovation with O&M for 15 years for:

- 130 MLD Jajmau STP facilities (Phase-I)



Jajmau STP Satellite Image



130 MLD Jajmau STP (ASP)

- Not Handed Over due to labour problems
- CTO : Applied but not received

210 MLD Bingawan STP facility

3. O&M for 15 years for:

- ❖ 42 MLD ASP based Sajari STP O&M; and
- ❖ Jajmau 43 MLD STP Phase-II.



- Handed Over on 29.05.2019 but schedule handing over date is 11.10.2019
- CTO : Applied but not received

43 MLD Sajari STP facility

3. O&M for 15 years for:

- ❖ 42 MLD ASP based Sajari STP O&M; and
- ❖ Jajmau 43 MLD STP Phase-II.



- Handed Over on 29.05.2019 but schedule handing over date is 11.10.2019
- CTO : Applied but not received

Annexure 3: List of Letters

Inward Letters

257	11/10/19	6-10/196	Bingawan	Renovation of Bingawan Plant: online Monitoring system			✓
258	ok 21/10/19	6-10/194	U.T	Response to various letters.			
259	4/10/19	KNP/157	Bingawan	Renovation of Bingawan facilities.			
260	4/10/19	Rakht/01	Bingawan	Renovation of Bingawan Plant under Hybrid Annuity PPP Mode			
261	4/10/19	KNP/158	Bingawan	Renovation of Bingawan facilities. online Monitoring.			
262	23/10/19	6-10/193	Shukla	Proposal work	Letter Received date 5/10/19		
263	4/10/19	6-10/195	Unnao	Submission of Structural drawing for ISMLB SIP Unnao			
264	5/10/19	KNP/159	Bingawan	online monitoring for Bingawan			
265	9/10/19	6-20/176	U.T. Sagari	Qualification of experts. Status of C.P for declaring corrective date.		Received - 10/10/19	
266	ok 10/10/19	6-10/180	Sagari	Qualification of experts		Recd - 10/10/19	
266A	11/10/19	KNP/185				Recd - 11/10/19	

आंतरिक पत्र व्यवहार पंजिका
RECEIVED LETTER REGISTER

क्रम संख्या Serial No.	मास तथा दिनांक Month & Date	पत्र Letter		प्रेषक का नाम और पता From Whom Received	विषय Subject	फाइल व शीर्षक संख्या File & Head No.	प्रतिक्रिया की संख्या व दिनांक No. & Date of the reply	Remarks टिप्पणियाँ
		संख्या No.	मास तथा दिनांक Month & Date					
267	11/10/19	KMP/201	Shukla	- Shukla	- Layout drawing of Shukla at new location		Recd- 12/10/19	
268	12/10/19	KMP/202	Jayman	- Jayman	- Submission of structural design drawing for CCT & TEPH.		Recd- 12/10/19	
269	12/10/19	KMP/203	Parkha	- Parkha	- Submission of structural design drawing for Parkha		Recd- 12/10/19	
270	12/10/19	KMP/200	Jayman	- Jayman	- BEP Jayman PHASE-1		Recd- 12/10/19	
271	26/9/19				Netting and approval of design and drawings for various components of sewerage.		Recd- 12/10/19	
272	12/10/19	20-59/204	Kanoo	- Kanoo	Submission of Revised Construction Plan & Procurement Tracker for Kanoo		Recd- 12/10/19	
273	15/10/19	KMP/205	C/A	- C/A	Construction and O&M of the facilities.		Recd- 16/10/19	
274	16/10/19	KMP/204	Sagari	- Sagari	Labour License under Policy for Kanpur		Recd- 16/10/19	
275	16/10/19	KMP/207	Sagari	- Sagari	FMS papers			
276	16/10/19	KMP/206	Bingawan	- Bingawan	Vendor Panel approval for online monitoring Bingawan facilities.		Recd- 16/10/19 Recd- 16/10/19	
277	17/10/19	KMP/208	C.T	- C.T	Request list of Phases conduct for RTI		Recd- 17/10/19	
278	16/10/19	KMP/203	Bingawan	- Bingawan	Online monitoring of Bingawan.		Recd- 16/10/19	
279	19/10/19	20-59/204	Bingawan	- Bingawan	online Monitoring " "		Recd- 16/10/19	
280	15/10/19	20-59/207	Parkha	- Parkha	Comments over compliance		Recd- 18/10/19	
281	15/10/19	20-59/208	Bingawan	- Bingawan	Revised O&M Manual for Bingawan		Recd- 18/10/19	
282	15/10/19	20-59/209	Bingawan	- Bingawan	online monitoring system for Bingawan		Recd- 18/10/19	
283	29/10/19	20-59/204	Kanoo	- Kanoo	Submission of Revised Construction Plan & Procurement Tracker for Kanoo		Recd- 11/11/19	

आंतरिक पत्र व्यवहार पंजीक
 RECEIVED LETTER REGISTER

क्रम संख्या Serial No.	मास तथा दिनांक Month & Date	पत्र Letter		प्रेषक का नाम और पता From Whom Received	विषय Subject	फाइल नं. और पत्र संख्या File & Head No.	पत्रोत्तर को संख्या व दिनांक No. & Date of the reply	Remarks टिप्पण
		संख्या No.	मास तथा दिनांक Month & Date					
284	16/11/19	KNP/210	16/11/19	Renovation Plan for Jyrau facilities			Row-12/19	
285	11/11/19	KNP/206	11/11/19	Reminder for submission of soft copy for Jyrau			Row-12/19	
286	17/11/19	KNP/15	17/11/19	Technology License Agreement			Row-22/19	
287	21/11/19	KNP/76	21/11/19	Construction on all of the facilities Approval for sub-contractor			Row-22/19	
288	11/10/19	KNP/88	11/10/19	Regarding Approval of continuous Effluent Monitoring System Kanp			Row-22/19	
289	15/10/19	10-20/413	15/10/19	Classification and discrepancies monthly Performance Report of Sagari Joridite			Row-30/19	
290	22/10/19	10-20/420	22/10/19	Corrigendum for declaration of effective date of start for Kanpur HAM Project			Row-30/19	
291	22/11/19	10-10/88	22/11/19	Regarding approval of continuous Effluent Monitoring System Kanpur STP Project				
292	24/10/19	KNP/212	24/10/19	Submission of IA Technical Data Sheet & OAP for cartridge for Panthe, Unnas & Shukleganj STP			Row-26/19	
293	22/10/19	10-20/419	22/10/19	Development plant of sewage treatment plant on hybrid Annunity				

Outward Letters

187	01-10-19	G.M. Modhav, REK, PM-II/5/19 Dir/ PM KRMPL	Knp	Bingawan - DLMS	
188	8/10/19	Modhav Kumar Director STC, vice President Jairuz, RS Bharia.	Delhi	Submission of Invoice for period Feb-19 to APRIL-19 for NMEG Project.	
189	05/10/19	G.M. Modhav, Shigali, Chief, Pm-1, 2, 3, E&M, Manabendra	KNP	Labour Welfare & Workmen Compensation Policy.	
190	05/10/19	G.M. Modhav, Chief, Pm-III PC, Manabendra.	KNP	RTOLMS, Bingawan STP	
191	9/10/19	G.M. Modhav, Shigali, Chief, Pm-1, II, III, E&M Manabendra.	KNP	ESHS - Qualification of Experts.	→

DESPATCH REGISTER

पत्र प्रेषक रजिस्टर

Serial No क्रम संख्या	Month & Date माह तथा दिनांक	To Whom Sent किसको प्रेषित किया	Place स्थान	Subject विषय	File No. फाइल नं०	Received Stamp प्राप्त टिकट		Postage डाक खर्च		Total & Daily Balance योग तथा प्रतिदिन का योग		Remarks विशेष विवरण
						Rs. ₹	P. ₹	Rs. ₹	P. ₹	Rs. ₹	P. ₹	
201	14/10/19	Supritendent Cr. Madhav, Chief, G.M, EE Pr-IV, P.C Shukla, Manohendra	Lucknow	Layout drawing of Shukla New location.								
202	14/10/19	G.M Madhav, Chief, S III/23 rd Pr-I, II, III, EE, Pr-IV P.C Shukla, Manohendra		BEP for rehabilitation of Jagmav facilities.								
203	15/10/19 17/10/19	Supritendent Cr. Madhav, Chief G.M EE, P.C Shukla, manohendra.	Lucknow	Structural design Unno; Vetted.								
204	19/10/19 17/10/19	G.M Madhav, Chief, Pr-III rd E.M, P.C, Manohendra.	Kanpur.	Structural design Palkho; Vetted								
205	17/10/19	Supritendent Madhav, Chief, G.M EE, P.C Shukla, Manohendra.	Lucknow	Unno/ Effective date declaration; Unno structure drawing.								
206	19/10/19	G.M Madhav, Chief, S III/23 rd 23 rd , Pr-I, II, III, EE Pr-IV, P.C, Manohendra.	KNP	Response to various letter from etc								
207	18/10/19	G.M	KNP	Letter of effective date.								
208	18/10/19	G.M Madhav, Shefali, Chief, Pr-I, II, III, E.M Manohendra.	KNP	Sub-Contracting of construction of facilities. to Spcl								