

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)**

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

Monthly Progress Report

Of

Project Engineer

OCTOBER - 2020



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



Funding Agency
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ABBREVIATIONS

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

MONTHLY PROGRESS REPORT – HAM KANPUR

1 INTRODUCTION

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

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

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

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

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

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

2 HYBRID ANNUITY MODEL (HAM)

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

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

NMCG & UPJN appointed M/s. Shah Technical Consultant Pvt. Ltd., as third party engineering firm as Project Engineer for this project through tendering process. Letter of Award is issued dated 4th February 2019 and agreement signed between the parties on 12th April 2019.

3 OBJECTIVES

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

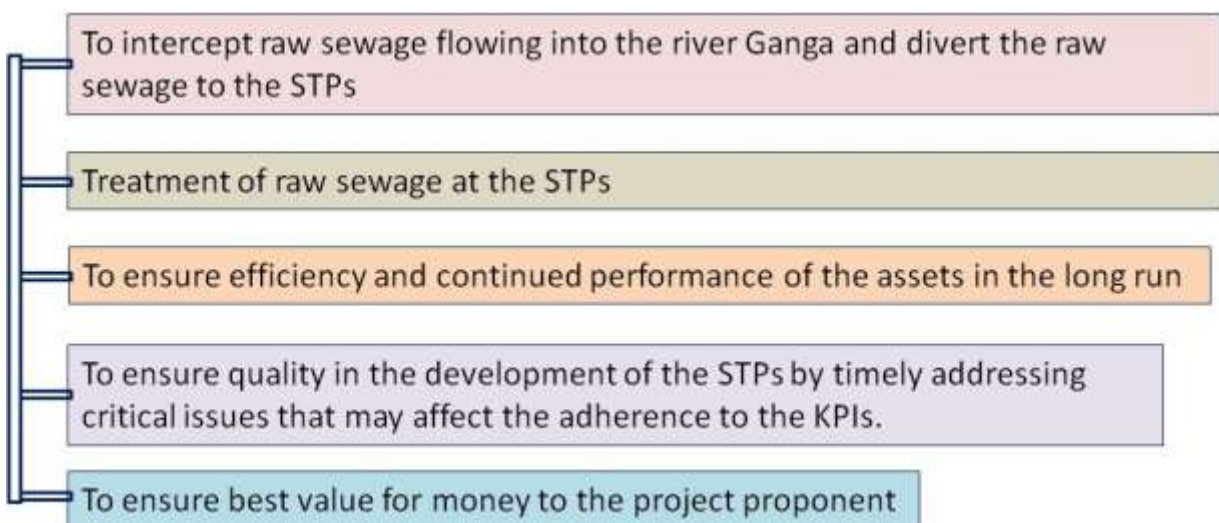


Figure 1: Objectives of NMCG and UP JAL NIGAM

4 HAM KANPUR PROJECT AT A GLANCE

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

Table 2.1: HAM Kanpur Project at a Glance

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

5 PROJECT WISE DETAILS OF COMPONENTS UNDER HAM KANPUR PROJECT

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

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

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

5.1 PANKHA FACILITIES

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

Table 5.1: Pankha Facilities

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

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

5.2 UNNAO FACILITIES

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

Table 5.2: Unnao Facilities

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

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

5.3 SHUKLAGANJ STP FACILITIES

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

Table 5.3: Shuklaganj Facilities*

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

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

5.4 JAJMAU (PHASE I) FACILITIES

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

Table 5.4: Jajmau Facilities

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

1.7	GuptarGhat IPS	-	1
1.8	Jajmau CPCS	-	1

5.5 JAJMAU PHASE II STP FACILITY

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

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

5.6 BINGAWAN FACILITIES

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

Table 5.5: Bingawan Facilities

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

5.7 SAJARI FACILITIES

Project wise component detail of Sajari is given in table 5.6

Table 5.6: Sajari Facilities

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

6 PHYSICAL PROGRESS OF WORK

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

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

6.1 MILESTONE WISE ACTIVITIES AND PROGRESS: PANKHA STP FACILITIES

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

Table 6.1: Pankha STP Facilities

SN	Description of Items	Milestone-1 (From 26th Nov.'19 to 25th Sep'20)		Milestone-2 (From 26th Sep.'20 to 25th Nov.'20)		Achieved against 2nd milestone 31.10.2020		Remaining	Remarks
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)		
A	Design & Drawing & STP & Sewer Laying works								
i	A. On approval of BEP	100%	249,67,950.00						
ii	B. On approval of design & drawings for Civil & Sewerage works	100%	249,67,950.00						
B	CONSTRUCTION								
	STP (30 MLD)								
1	SBR Basin Area								
	CIVIL WORK								
i	Site Clearance	100%	2,50,000.00						
ii	Excavation	100%	98,38,400.00						
iii	PCC	100%	147,57,600.00						
iv	RCC Foundation/Raft	40%	98,38,400.00	60%	147,57,600.00	27%	66,40,920.00	33%	Work in progress
v	Wall 50% of total lift work		-	100%	245,96,000.00	10%	24,59,600.00	90%	Work in progress
2	Chlorine Contact Tank Area								
i	Site Clearance	100%	1,50,000.00		-		-		
ii	Excavation	100%	7,37,880.00		-		-		
iii	PCC	100%	11,06,820.00		-		-		
iv	RCC Foundation/Raft		-	100%	46,11,750.00	100%	46,11,750.00	0%	completed
v	Wall 50% of total lift work		-	100%	27,67,050.00			100	Delay at KRMLP
3	Chlorination House Area								
	CIVIL WORK								
i	Site Clearance	100%	1,00,000.00		-		-		
ii	Excavation	100%	3,68,940.00		-		-		
iii	PCC	100%	5,53,410.00		-		-		
iv	RCC Foundation/Column footing		-	100%	27,67,050.00	100%	27,67,050.00	0%	completed

SN	Description of Items	Milestone-1 (From 26th Nov.'19 to 25th Sep'20)		Milestone-2 (From 26th Sep.'20 to 25th Nov.'20)		Achieved against 2nd milestone 31.10.2020		Remaining	Remarks
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)		
v	Column & Beam		-	50%	4,61,175.00	25%	2,30,587.50	25%	Work in progress
4	Sludge Thickener Area								
	CIVIL WORK								
i	Site Clearance	100%	1,00,000.00		-		-		
ii	Excavation	100%	7,37,880.00		-		-		
iii	PCC	100%	11,06,820.00		-		-		
iv	RCC Foundation wall/base slab		-	100%	36,89,400.00	45%	16,60,230.00	55%	Work in progress
v	Wall 50% of total lift work		-	100%	27,67,050.00	20%	5,53,410.00	80%	Work in progress
5	Inlet / Stilling Chamber Area								
i	Site Clearance		-	100%	50,000.00	100%	50,000.00	0%	completed
ii	Excavation		-	100%	2,45,960.00		-		
iii	PCC		-	100%	3,68,940.00		-		
iv	RCC Foundation/Column footing		-	100%	12,29,800.00		-		
9	Admin Bldg Area								
i	Site Clearance	100%	1,00,000.00		-		-		
ii	Excavation	100%	3,68,940.00		-		-		
iii	PCC	100%	5,53,410.00		-		-		
iv	Column footings/Foundation		-	100%	18,44,700.00	100%	18,44,700.00	0%	completed
18	EXTERNAL DEVELOPMENT								
B.	Compound Wall with Gate		-		-				
i	Excavation & PCC	40%	24,59,600.00	20%	12,29,800.00	20%	12,29,800.00	0%	completed
ii	RCC Column footing	40%	24,59,600.00	20%	12,29,800.00	16%	9,83,840.00	4%	Work in progress
iii	RCC Column & Beam	40%	24,59,600.00	20%	12,29,800.00	5%	3,07,450.00	15%	Work in progress
iv	Brickwork & Plaster		-	20%	12,29,800.00	19%	11,92,906.00	1%	Work in progress
19	MPS-2 (115MLD)								
	CIVIL		-		-				
A	Construction of Raw Sewage Sump		-		-				

SN	Description of Items	Milestone-1 (From 26th Nov.'19 to 25th Sep'20)		Milestone-2 (From 26th Sep.'20 to 25th Nov.'20)		Achieved against 2nd milestone 31.10.2020		Remaining	Remarks
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)		
i	Site Clearance	100%	1,50,000.00		-		-		
ii	Excavation	15%	5,17,760.10	85%	29,33,973.90	85%	29,33,973.90	0%	completed
iii	PCC		-	100%	23,01,156.00	100%	23,01,156.00	0%	completed
iv	RCC Foundation/Raft		-	50%	28,76,445.00		-		
B	Construction of Inlet Chamber & Screen Channel		-		-				
i	Site Clearance	100%	50,000.00		-		-		
20	ICI Nala IPS								
	CIVIL		-		-				
A	Construction of Raw Sewage Sump		-		-				
i	Site Clearance	100%	1,50,000.00		-		-		
ii	Excavation		-	100%	15,33,600.00		-		
iii	PCC		-	100%	10,22,400.00		-		
iv	RCC Foundation/Raft		-	50%	12,78,000.00		-		
21	IPS-6 (Sundar Nagar- 20 MLD)-Pankha Area								
	CIVIL		-		-				
A	Construction of Raw Sewage Sump		-		-				
i	Site Clearance	100%	1,50,000.00		-		-		
ii	Excavation	11%	1,68,696.00	89%	13,64,904.00		-		
iii	PCC		-	100%	10,22,400.00		-		
22	I&D Works								
A	ICI Nala		-		-				
i	Construction Work		-	13%	2,89,120.00		-		
B	Thermal Nala -A		-		-				
i	Construction Work		-	13%	2,89,120.00		-		
C	Thermal Nala -B		-		-				

SN	Description of Items	Milestone-1 (From 26th Nov.'19 to 25th Sep'20)		Milestone-2 (From 26th Sep.'20 to 25th Nov.'20)		Achieved against 2nd milestone 31.10.2020		Remaining	Remarks
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)		
i	Construction Work		-	14%	3,11,360.00		-		
24	Sewer System Area (RCC Pipes-NP3 Types)								
i	Site Clearance		-	20%	-				
ii	Supply of pipes	16%	256,70,093.90	25%	401,13,568.00	4%	60,17,035.20	21%	Work in progress
iii	Excavation and Laying of pipes including bed preparation & backfilling		-	20%	20,05,678.40	2.29%	2,29,650.18	18%	Work in progress
iv	Manholes		-	20%	20,05,678.40				
25	Design ,Supply,Testing & Commissioning of Sewer line (crossing National Highway-2 & Railway Track)								
i	Statutory approvals from Railway & Road dept		-						
ii	Construction of Pit		-	44%	4,16,671.30			44%	Delay at KRMPL
	Total Amount		124839750.00		124839750.00	3.60	36014058.78		Total Progress of 2nd milestone = 3.6%

PHOTOGRAPHS OF PANKHA STP SITE



CCT steel binding works



RCC Pipe Laying



Boundary Wall work



MPS Excavation work

6.2 MILESTONE WISE ACTIVITIES AND PROGRESS: UNNAO STP

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

TABLE 6.2: UNNAO FACILITIES (DISTRICT UNNAO)

Sr. No.	Description of Items	Milestone-1 Achieved (From 11th Oct.'19 to 25th Sept'20)		Milestone-2 (From 26th Sep'20 to 25th Nov.'20)		Milestone-2 achieved till 31.10.2020		Remaining works	Remarks
		Physical	Financial	Physical	Financial	Physical	Financial		
I	Design & Drawing & STP & Sewer Laying works								
1	On approval of BEP	100%	191,34,500.0						
2	On approval of design & drawings for Civil & Sewerage works	25%	47,83,625.0	75%	143,50,875.0	75%	143,50,875.0	0%	completed
II	CONSTRUCTION								
A	UNNAO STP (15 MLD)								
i)	SBR Basin Area								
1	Site Clearance	100%	5,00,000.0						
2	Excavation wall footing	100%	22,46,137.6						
3	PCC wall footing	100%	27,46,137.6						
4	RCC Foundation/Raft of wall		-	100%	54,92,275.2	0%		100%	delay at KRMPPL
ii)	Sludge Thickener Area								
1	Site Clearance	100%	1,50,000.0						
2	Excavation	100%	3,64,900.8						
3	PCC	50%	2,57,450.4	50%	2,57,450.4			50%	completed
4	RCC Foundation Wall/base slab		-	100%	6,86,534.4	50%	3,43,267.2	50%	work in progress
iii)	Supernatant Sump Area								
1	Site Clearance	100%	1,00,000.0						
2	Excavation	100%	1,14,422.4						
3	PCC	100%	1,14,422.4						
4	RCC Foundation wall/base slab	100%	1,28,844.8		-				
5	Wall 50% of total lift work		-	100%	1,43,044.8	50%	71,522.4	50%	completed
6	Walls (balance 50% of Total Lift work)		-	100%	1,71,633.6	0%		100%	delay at KRMPPL

Sr. No.	Description of Items	Milestone-1 Achieved (From 11th Oct.'19 to 25th Sept'20)		Milestone-2 (From 26th Sep'20 to 25th Nov.'20)		Milestone-2 achieved till 31.10.2020		Remaining works	Remarks
		Physical	Financial	Physical	Financial	Physical	Financial		
iv	Chlorination Tank Area								
1	Site Clearance	100%	1,50,000.0						
2	Excavation	100%	4,22,112.0						
3	PCC	100%	5,72,112.0		-				
4	RCC Foundation/Raft	100%	9,15,000.0		-				
5	Wall 50% of total lift work		-	100%	8,58,168.0	25%	2,14,542.0	75%	work in progress
v	Air Blower Room Area								
1	Site Clearance	100%	2,50,000.0						
2	Excavation	100%	3,43,267.2						
3	PCC	100%	3,43,267.2		-				
4	RCC Foundation/column footing		-	100%	6,86,534.4	100%	6,86,534.4	0%	completed
5	Column & Beam		-	100%	6,29,801.6	25%	1,57,450.4	75%	work in progress
vi	Staff Quarter Area (G+1)								
1	Site Clearance	100%	50,000.0						
2	Excavation	100%	71,000.0						
3	PCC	100%	71,000.0		-				
4	RCC Foundation/column footing	100%	92,000.0		-				
5	Column & Beam		-	100%	92,000.0	25%	23,000.0	75%	work in progress
6	RCC Ground floor Slab		-	100%	92,000.0	0%	-	100%	delay at KRMPPL
vii	Guard Room Area								
1	Site Clearance	100%	50,000.0						
2	Excavation	100%	82,211.2						
3	PCC	100%	82,211.2		-				
4	RCC Foundation/column footing	100%	1,14,422.4		-				
5	Column & Beam	100%	1,14,422.4		-				
6	RCC Ground floor Slab	100%	1,14,422.4		-				
7	RCC Roof Slab		-	100%	1,14,422.4	100%	1,14,422.4	0%	completed
8	Brick work		-	100%	1,14,422.4	25%	28,605.6	75%	work in progress

Sr. No.	Description of Items	Milestone-1 Achieved (From 11th Oct.'19 to 25th Sept'20)		Milestone-2 (From 26th Sep'20 to 25th Nov.'20)		Milestone-2 achieved till 31.10.2020		Remaining works	Remarks
		Physical	Financial	Physical	Financial	Physical	Financial		
9	Plaster		-	100%	1,14,422.4	0%		100%	delay at KRMPL
viii	Chlorination Room Area								
1	Site Clearance	100%	1,50,000.0		-				
2	Excavation	100%	4,57,689.6		-				
3	PCC	50%	2,28,844.8	50%	2,28,844.8	50%	2,28,844.8	0%	completed
4	RCC Foundation/Column footing		-	100%	4,57,689.6	100%	4,57,689.6	0%	completed
5	Column & Beam		-	100%	4,57,689.6	0%	-	0%	completed
6	Ground floor Slab		-	70%	4,80,574.1	0%	-	70%	delay at KRMPL
xi	Inlet Chamber Area								
1	Site Clearance		-	100%	1,50,000.0	0%	1,50,000.0	0%	completed
xii	Manual & Mechanical Fine Bar Screen Chamber Area								
1	Site Clearance			100%	1,50,000.0	0%	1,50,000.0	0%	completed
xiii	Grit Chamber Area								
1	Site Clearance			100%	1,50,000.0	0%	1,50,000.0	0%	completed
xiv	Parshall Flume Channel Area								
1	Site Clearance			100%	1,50,000.0	0%	1,50,000.0	0%	completed
xviii	EXTERNAL DEVELOPMENT								
	Boundary Wall with Gate								
1	Site Clearance	100%	-						
2	Excavation	40%	1,33,900.0	30%	1,00,425.0	11%	36,822.5	19%	work in progress
3	PCC	40%	2,00,850.0	25%	1,25,531.3	25%	1,25,531.3	0%	completed
4	RCC Column footing	40%	2,00,850.0	25%	1,25,531.3	25%	1,25,531.3	0%	completed
5	RCC Column & Beam	40%	2,00,850.0	25%	1,25,531.3	5%	25,106.3	20%	work in progress
6	Brickwork	15%	75,318.8	25%	1,25,531.3	25%	1,25,531.3	0%	completed
C	MPS-40 MLD								
	Civil Work								
i	Construction of Raw Sewage Sump								
1	Site Clearance	100%	5,00,000.0						

Sr. No.	Description of Items	Milestone-1 Achieved (From 11th Oct.'19 to 25th Sept'20)		Milestone-2 (From 26th Sep'20 to 25th Nov.'20)		Milestone-2 achieved till 31.10.2020		Remaining works	Remarks
		Physical	Financial	Physical	Financial	Physical	Financial		
iii	Construction of Inlet Chamber & Screen Channel								
1	Site Clearance	100%	1,50,000.0						
D	SEWER SYSTEM AREA (3.2 Km)								
1	Site Clearance	100%	-						
2	Supply of pipes	20%	110,60,057.9	35%	193,59,095.7	35%		0%	completed
3	Excavation and Laying of pipes including bed preparation & backfilling		-	20%	11,08,732.3	0%		20%	delay at KRMPPL
4	Manholes		-	20%	7,37,489.4	0%		20%	delay at KRMPPL
	Total Amount		478,36,250.0		478,36,250.0		177,15,276.3		
	Total progress in %		12.5%		2nd milestone=	4.6			

PHOTOGRAPHS OF UNNAO STP SITE



Supernatant Sump Works



Sludge Thickener Works



Site inspection by SMCG & SMEC on 01.10.2020



Inspection by PE on 15.10.2020



Concrete Cube Testing



SBR work check by Drawing



Cement Quality Inspection



Hard Barricade around excavation

7 PRESENT STATUS AND ISSUES OF HAM PROJECT KANPUR

7.1 PANKHA 30 MLD STP FACILITIES:

- Approval of design & drawings - completed;
- 1st milestone (12.5% of total work) completed on as per revised project schedule date i.e. 25.09.2020;
- 2nd milestone is to be completed by 25.11.2020 which will be cumulative 25% of the total work cost;
- Construction work for SBR, BW, CCT, MPS excavation, sludge thickener, admin building and laying of sewer are under progress;
- Manpower deployment by the Concessionaire has been done but is not sufficient. Total no. of workers deployed at site are 30-35 (as on 30.09.20) whereas 100-150 labours are required to speed up the works to attain targets.
- Construction work for SBR, BW, CCT, MPS and Sundar Nagar IPS works are under progress;

7.2 UNNAO 15 MLD STP FACILITIES:

- Approval of design & drawings completed;
- 1st milestone (12.5% of total work) has been completed as per revised project schedule date i.e. 25.09.2020;
- 2nd Milestone is to be completed by 25.11.2020 which will be cumulative 25% of the total work cost.
- Manpower deployment by the Concessionaire has been done but is not sufficient. Total no. of workers deployed at site are 30-35 (as on 30.09.20) whereas 100-150 labours are required to speed up the works to attain targets.
- New land for I&D works has been identified and acquisition is in process;
- Construction work for SBR, BW, CCT, sludge thickener, supernatant sump under progress;
- Electricity connection work in progress. Poles and electric line are being installed;

7.3 SHUKLAGANJ 5 MLD STP FACILITIES:

CTE was not granted by UPPCB on the previously allotted land. Now new site, about 400m away from previous site is selected. CTE has been obtained on 10.07.2020. At present, Layout plan has been finalized, Geotech survey completed and BEP approval in process

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

- Handing over is planned by UPJN by 19.07.2020 as agreed by concessionaire but could not materialised due to labour issue.
- CTO received on 10.06.2020.
- **Submission of BEP for 130 MLD STP:**

STC vide their letter no.520 dated 03.10.2020, requested UPJN to direct concessionaire to submit the excel sheet for process calculation sheet and some other documents for early vetting of the submittals. Concessionaire has submitted the excel sheet of process

calculation along with the other required documents vide their letter no.688 dated 09.10.2020. A meeting was held with PM-1 and GM, GPCU, UP Jal Nigam on 23.10.2020, it was informed that BEP has been vetted and approved by IIT Roorkee after closing all the points by all stakeholders and it was also informed that there will be no change in the process design of the facility as Jajmau facility is the existing facility and only rehabilitation work has to be done. PE has vetted the submitted BEP and recommended for approval vide STC letter no.570 dated 24.10.2020 and same has been approved by UPJN vide letter 2930/w-30/39 dated 27.10.2020.

➤ **Electrical Load list and SLD for 130 MLD Jajmau:**

PE requested UPJN to direct concessionaire to submit the enclosures with the submittals in both hard as well as in soft copy vide STC letter no.518 dated 01.10.2020. KRMPL has submitted the enclosures in both hard and soft copy on 05.10.2020. PE after vetting the submittals, submitted the observations vide STC letter no.527 and 538 dated 06.10.2020 and 09.10.2020 resp. KRMPL has submitted the compliance report vide their letter no.681 and 698 dated 07.10.2020 and 14.10.2020 resp. PE has vetted the submittals and recommended it for approval vide their letter no.567 dated 22.10.2020.

➤ **Revised GA & RCC design and drawing for CCT and TEPH:**

Concessionaire has submitted the revised GA & RCC design and drawing for CCT and TEPH as there was a level mismatch in between existing HFD and RCC or GA.

7.5 43 MLD JAJMAU PHASE II

- The plant is ready to be handed over to the Concessionaire. UPJN has written to the Concessionaire to deploy adequate staff for operation of the plant immediately;
- CTO received on 10.08.2020.

7.6 210 MLD BINGAWAN FACILITIES

The schedule date of handover of 210 MLD Bingawan Facilities as per CA was 01/04/2019 but actually could be handed over on 08/07/2019. From handover date itself it was observed and informed from time to time to Concessionaire that the operation and maintenance of the plant was not up to the mark. **Commercial Operation Date of Bingawan facility declared by UPJN as 10.08.2020 vide their letter no 2324/w-37/100 dated 10.09.2020.**

Following points need to be addressed:

i. Compliance of Inspection Reports

PE inspected 210 MLD Bingawan STP on 07.10.2020 & 21.10.2020 and issued inspection reports on 9th October 2020 & 23rd October 2020. Compliance report on Inspection note at Bingawan facilities on 09.10.2020 has been submitted by KRMPL on 22.10.2020 without any rectification of defects indicated in the inspection reports. Since 28th January 2020 rectification of defects indicated in different inspection reports has not been done by the KRMPL and they are extending dates continuously every month. Copies of Inspection reports of Bingawan site are enclosed.

ii. O&M Manual

Revised O&M manual of Bingawan incorporating the points decided in the meeting dated 16.12.2019 was submitted by the Concessionaire on 31.07.2020 which was recommended for approval by PE on 17.08.2020 and approved by UPJN on 24.08.2020.

iii. Insurance Policies

Only All Risk Industrial Insurance Policy has been submitted and remaining policies are not submitted after so many reminders. Comprehensive General Liability Policies submitted by concessionaire is not acceptable. Notarized Industrial all risk policy for Bingawan has been submitted by KRMPL on 26.08.2020 on which PE submitted the point-wise comments on 28.08.2020. The issue of insurance policies was discussed in the NMCG meeting dated 12.10.2020 and the concessionaire has been instructed to address the issue of insurance policies as per article 11.2 of CA.

iv. Performance of Plant**a. Cleaning and reactivation of UASB Reactors:**

All the KPIs are not being met during the month of October 2020. Out of 16 no's reactors, UASB reactor no. 1, 4 & 8 has been filled for reactivation after cleaning. Reactor no. 2 & 3 has been taken up for cleaning from 4.08.2020 & 20.08.2020 but not completed by the end of Oct. 2020. The Concessionaire has not submitted the action plan for cleaning and reactivation of UASB reactors but taking randomly for cleaning and reactivation. Performance report of October 2020 enclosed.

b. BFP: Out of 3, only 1 no. Bed filter press is operational during the month of October 2020. The Concessionaire has promised that one more BFP will be operational by 15th Oct. 2020 but only 1 no of BFP is operational till the end of Oct. 2020. Also, concessionaire has ensured to put BFP no. 2 & 3 in operation by 15.11.2020 and 15.12.2020 resp.

Only 1 no. tractor trolley has been found in working for disposal of dewatered sludge. It was always required to run 2 nos. filter press at a time. So, 2 nos. tractors and 3 nos. trolleys always needed at site for disposal of the dewatered sludge.

v. Joint Sampling and Testing by IIT Kanpur

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

vi. Renovation Completion Certificate

Renovation (Installation of RTOLMS and Rectification of Pumps) Completion Certificate has been issued by UPJN as 10.08.2020 vide UPJN letter no. 2033/w-37/67 dated 18.08.2020. Calibration certificate with witness certificate for RTOLMS is to be submitted by KRMPL. In the NMCG review meeting dated 12.10.2020, the concessionaire has been instructed to address the issue of RTOLMS.

vii. Gas Holder

Out of 2 no's both are not in working condition since handover date.

viii. Schedule Maintenance Works for the year 2020-21

Schedule maintenance works as per approved O&M manual WAS to be started from 1/08/2020, but not started yet.

7.7 42 MLD SAJARI STP

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

Mr. Madhav Kumar NMCG requested Mr. S. Kamaraju Process Expert STC to visit the Sajari Plant to give his recommendations. Mr. S. Kamaraju Process Expert visited the Sajari Plant on 27-28 Dec 2019 and concluded that the Sajari Plant is designed for all 12 aerators to run without any standby but the plant was being run with 8 aerators only keeping 4 aerators as stand by. He submitted calculations for available aeration on dated 28.12.2019 (in discussion with GM, UPJN Kanpur) and found that sufficient aeration is available to reduce COD from 250 to 100. Therefore there is no need for any improvement as suggested by KRMPL. **Revised Commercial Operation Date i.e. 11.10.2019 of Sajari facility was declared by UPJN vide their letter no. 2574/w-20/267 dated 26.09.2020.**

Following Points needs to be addressed:

i. Compliance of Inspection Reports

Compliance report of Inspection held at 42 MLD STP on 05.10.2020 and inspection report issued on 08.10.2020 has not been submitted by the concessionaire. Rectification of defects indicated in different inspection reports from the start of the project has not been done by the KRMPL and they are extending dates continuously every month. Copy of Inspection report of Sajari site is enclosed.

ii. O&M Manual

O&M Manual already approved by UP Jal Nigam.

iii. Insurance Policies

Only All Risk Industrial Insurance Policy has been submitted and remaining policies are not submitted after so many reminders. Comprehensive General Liability Policies submitted by concessionaire is not acceptable. Notarized Industrial all risk policy for Sajari has been submitted by KRMPL on 28.08.2020 on which PE submitted the point-wise comments on 31.08.2020. No action taken by concessionaire on STC's comments.

iv. Performance of Plant:

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

a) Mechanical Screens (Coarse & Fine Screens)

Auto System of Both Mechanical Screens still not repaired.

b) Gas Generators

All 3 no's of Gas Generators installed are not operational since handover date. KRMPL had promised previously to get all the 3 gas generators operational by 30.06.2020 vide KRMPL letter no. 453 dated 11.06.2020, KRMPL had promised to get the Gas generators operational by 30.09.2020 but no action has been taken by concessionaire till the end of Oct. 2020.

v. Joint Sampling and Testing by IIT Kanpur

It was decided in the meeting of GM GPCU UPJN on 16-12-2019 (MOM issued vide letter no 3847/M-2A/116 dated 18-12-2019) that at least once in a month joint sampling of raw sewage and treated effluent will be done by UPJN and KRMPL and testing to be done by IIT Kanpur. KRMPL has taken the sample jointly on 19.10.2020 and sent it for testing. Testing reports from NABL accredited Laboratory Spectro Research Lab Ventures (P) Ltd of joint samples taken on 19.10.2020, 15.09.2020 and 18.08.2020 has not been received yet.

vi. Power backup and Online Monitoring System

DG set for power backup has been made operational by UPJN on 14.07.2020. Online monitoring system has been installed and synchronised but to be calibrated.

vii. Work plan For Sludge Disposal

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

viii. Submission of Schedule Maintenance Programme

Submission of schedule maintenance programmes for the next year is still pending from the Concessionaire side.

ix. Revised Commercial Operation Date

Commercial Operation date has been revised as 11.10.2019 i.e. effective date of the CA by UPJN vide their letter no. 2574/w-20/267 dated 26.09.2020 against earlier declared COD as 20.06.2020 vide UPJN letter no. 1545/w-20/127 dated 17.06.2020.

x. Invoice for O&M charges for Sajari

Invoice has been raised for O&M charges of Sajari from 11.10.2019 to 30.09.2020 by the concessionaire vide their letter no. 699 dated 15.10.2020. KPIs adherence reports have been submitted by STC.

GENERAL ISSUES

- 1) Power Back- up to be provided at all locations as per Article 8.7 (b) which is not being accepted by KRMPL.
- 2) As per Article 8.8 (a): At each STP/Pumping Station (new or existing) of all locations, the Concessionaire shall install and maintain an online monitoring system, in accordance with the Technical Specifications and Applicable Laws (including specifically, the EPA) to monitor the volume, specifications and characteristics of the incoming Sewage and the Treated Effluent, as applicable.
- 3) As per Article 11.2: During the O&M Period of the Facilities, the Concessionaire shall obtain and maintain insurance policies including but not limited to the following:
 - (i) loss, damage or destruction of the Facilities, at replacement value;

- (ii) comprehensive third party liability insurance including injury to or death of personnel of the Jal Nigam or NMCG or others caused by the Project;
- (iii) the Concessionaire's general liability arising out of the Project;
- (iv) liability to third parties for goods or property damage;
- (v) workmen's compensation insurance; and
- (vi) any other insurance that may be necessary to protect the Facilities, the Concessionaire and its employees, including for all Force Majeure Events that are insurable at commercially reasonable premiums and not otherwise covered in items (i) to (v) above.

8 STATUS OF BEP& OTHER DETAILS

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

Table 6.2: BEPs and other details

SN	Particulars	Status	
		Approved	Pending
1.	BEPs (Process, Mechanical & Electrical)	GA, Data Sheet and QAP of centrifuge, submersible pump and mechanical grid collection system, Unnao- reviewed & recommended for approval on 25.02.20 GA, Data Sheet and QAP of centrifuge, submersible pump and mechanical grid collection system, Pankha- reviewed & recommended for approval on 28.02.20 BEP process for 130 MLD Jajmau recommended for approval vide STC letter no. 570 dated 24.10.2020 and same has been approved by UPJN vide letter 2930/w-30/39 dated 27.10.2020 Electrical load list & SLD recommended it for approval vide their letter no.567 dated 22.10.2020	Revised GA & RCC design and drawing for CCT and TEPH for 130 MLD STP Jajmau is pending as there was a level mismatch in between existing HFD and RCC or GA.
2.	BEP Structure & Design Drawings	SBR Rev Structural design drawing, Unnao- recommended for approval on 30.06.20 Guard Room design, Unnao- recommended for approval on 01.04.20 SBR REV-RCC design drawing, Unnao- recommended for approval on 11.04.20 PTU Rev Structural design drawing, Unnao- recommended for approval on 11.04.20 Staff Quarters Revised RCC design of Unnao STP- recommended for approval on 15.04.20 Rev Structure design of Blower Room of Unnao STP- recommended for approval on 16.04.20 ADMIN build drawing, Unnao- recommended for approval on 10.04.20 Sludge thickener & Sludge re-circulation Sump Rev.	Acquisition of land for I&D works Unnao is under progress; Shuklaganj - Compliance of comments for Boundary wall is due at KRMPL. Height of Boundary wall of Shuklaganj STP shall be as per CTE received from UPPCB

		<p>Structural drawing, Unnao- recommended for approval on 11.04.20</p> <p>CCT Rev Structure design drawing, Unnao-recommended for approval on 10.04.20</p> <p>Blower Room Structure drawing and design of Pankha STP- recommended for approval on 30.04.20</p> <p>Structure drawing of CCT & TEPH, Jajmau-recommendations for approval on 06.03.20</p> <p>Electrical drawing, Pankha- recommendations for approval on 17.03.20</p> <p>Structure drawing, Unnao MPS- recommended for approval on 29.02.20</p> <p>Revised drawing of boundary wall, Unnao-recommended for approval on 29.02.20</p> <p>CTE for Shuklaganj STP received from UPPCB dated 10.07.2020</p> <p>GA, data sheet & QAP - Fine screen, coarse screen and belt conveyor for Unnao vetted by letter no. 455 dated 13.08.2020</p> <p>GA, data sheet & QAP - Centrifuge feed pump Unnao vetted by STC letter no. 463 dated 18.08.2020</p> <p>GA, data sheet & QAP for Dosing Pump –Unnao Vetted by STC letter no. 482 dated 03.09.2020</p> <p>BEP (R5) for Shuklaganj STP recommended for approval on 24.10.20</p>	
3.	Construction Plan	<p>Revised construction plan Pankha-recommended for approval on 18.06.20 & 29.07.20 without extending completion date.</p> <p>Revised construction plan Unnao-recommended for approval by STC letter vide on 441 dated 31.07.2020 without extending completion date</p>	
4.	Sewer Network/Line Design	<p>Design and drawings of sewer work Pankha-recommended for approval On 10.02.20</p> <p>Design and drawings of sewer work Unnao-recommended for approval On 20.02.20</p>	
5.	ESHS Plan	<p>ESHS approval-Already vetted by STC. Approved by UPJN on 26.09.19</p>	
6.	O&M	<p>Bingawan RTOLMS - Reviewed & found in order. Recommended for approval on 03.12.19/ 19.12.19 with some conditions</p> <p>Level transmitter & flow metre - vetted & approved on 27.12.19</p> <p>Bingawan O&M manual - approved</p>	<p>Only All Risk Industrial Insurance Policy has been submitted and remaining policies are not submitted after so many reminders. Comprehensive General Liability Policies</p>

		<p>Sajari O&M manual – Approved</p> <p>43 MLD Jajmau STP is ready to be handed over to the Concessionaire. CTO received on 10.08.2020</p>	<p>submitted by concessionaire is not acceptable.</p> <p>UPJN has written to the Concessionaire to deploy adequate staff for operation of the plant immediately</p>
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9 MEETINGS HELD / MINUTES OF MEETING

- i. Video conference meeting was held by NMCG on dated 12.10.2020 to discuss progress of HAM Project Kanpur. MOM attached in annexure 6.
- ii. A meeting was held by CE, UPJN Kanpur on dated 27.10.2020 to discuss progress of HAM Project Kanpur. MOM attached in annexure 7.

ANNEXURE

ANNEXURE 1: Progress of Work – HAM Project Kanpur

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by 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
01.10.20	Submission of revised drawing of electrical load list & SLD of 130 MLD STP Jajmau	30.09.20	01.10.20 S-518	1	20	-	-	CM Dimri JP Tripathi OP Asati Vikas MN Dubey LingaRao	1+1+1+1+1+1	-	-	-	Advised UPJN to direct KRMPL to submit the hard copy and soft copy enclosure of Electrical load list & SLD of 130MLD stpJajmau

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1	2	3	4	5	6	7	8	9	10	11	12	13	14
01.10.20	Submission of Drawing document of HT VCB Panel for approval of 30MLD STP,Pankha	30.09.20 J-2091/w-8/151	01.10.20 S-519	1	20			OP Asati JP Tripathi Priyesh Vikas Lokesh	1+1+1+1+1				Advised UPJN to direct KRMPL to submit the hard copy and soft copy enclosure of HT VCB Panel of 30 MLD STP,pankha
02.10.20	Gandhi Jayanti												
03.10.20	Vetting and approval of BEP of 130MLD & IPSs ,Jajmau	28.09.20 email	3.10.20 S-520	5	20			OP Asati JP Tripathi Vikas Priyesh Kapil Ajay	1+1+1+1+1	-	-	-	Advised UPJN to direct KRMPL to submit the Excel sheet of process calculation

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 Concessions	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
03.10.20	I&D work for 15 MLD STP Unnao	-	03.10.20 S-520A					CM Dimri Priyesh Kapil MN Dubey Ajay Sunil Basutkar	1+1+1+1+1	-	-	-	Review and Comments
03.10.20	Appointment of separate plant in charge for sajari	24.09.20 K-650	03.10.20 S-521	9	20			OP Asati Ajay Goyal Kapil Lokesh Lingarao Ajay	1+1+1+1+1				Advised UPJN to direct KRMPL to appointed of separate plant in charge for Sajari
03.10.20	Submission of BEP document for 05MLD STP (R4) Shuklaganj	-	03.10.20 S-522					CM Dimri Priyesh Vikas Kapil MN Dubey LingaRao	1+1+1+1+1+1				Requested UPJN to direct KRMPL to submit the compliance report on previously submitted BEPs.

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
								Ajay					
04.10.20	Sunday												
05.10.20	Submission of BEP for 05 MLD STP (R4) Shuklaganj	01.10.20 K-671	05.10.20 S-523	4	20			CM Dimri Priyesh Vikas Kapil MN Dubey LingaRao S.Kamaraju	1+1+1+1+1+1+1	-	-	-	Requested UPJN to direct KRMPL to compliance on our Comments on BEP document of 05 MLD STP Shuklaganj
05.10.20	Submission of BEP (R4) for 5 MLD STP Shuklaganj	-	05.10.20 S-524					CM Dimri Priyesh Vikas Kapil MN Dubey LingaRao	1+1+1+1+1+1				Requested UPJN to direct KRMPL to submit the compliance report of BEP (R4)
05.10.20	Submission of BEP (R3) for	-	05.10.20 S-525					CM Dimri Priyesh	1+1+1+1+1+1	-	-	-	Requested UPJN to direct KRMPL

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 Concessions	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
	5MLD STP shuklaganj							Vikas Kapil MN Dubey LingaRao Ajay					to submit the compliance report
05.10.20	Submission of BEP (R4) for 5MLD STP shuklaganj	-	05.10.20 S-526					CM Dimri Priyesh Vikas Kapil MN Dubey LingaRao	1+1+1+1+1+1				Requested UPJN to direct KRMPL to submit the compliance report
05.10.20	Reminder of STP inspection and compliance by KRMPL (Safety)	-	05.10.20 S-528					JP Tripathi Priyesh Vikas Satendra Lokesh Lingarao Ajay	1+1+1+1+1+1+1				Requested UPJN to Instruct the KRMPL to submit the compliance report .

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
06.10.20	Submission of Electrical load list and SLD for 130MLD STP jajmau	29.09.20 K-664	06.10.20 S-527	6	20			JP Tripathi OP Asati Ak Seth Vikas	1+1+1+1+1				Requested UPJN to direct KRMPL to clarify the old transformer and cable.
06.10.20	Approval of Sewer bedding calculation R2.	01.10.20 J-2645/W-50/99	06.10.20 S-530	5	20			CM Dimri OP Asati Vikas Satendra	1+1+1	-	-	-	Requested UPJN to direct KRMPL to Resubmit the sewer bedding design as per IS Code ,CPHEEO manual.
07.10.20	Points to consider in Sewer Bedding calculations	07.10.20 E-mail	07.10.20 S-531	-	20			JP Tripathi OP Asati Vikas	1+1+1+1	-	-	-	Review and comment on Sewer bedding calculation

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 Concessio naire	Reason for delay	Step taken by PE to avoid such delays	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14
								Satendra					
08.10.20	Site Visit Pankha STP	-	08.10.20 S-532					CM Dimri Satendra Kapil Ajay AK.Seth	1+1+1+1	-	-	-	Inspection done by our engineers at Pankha STP
08.10.20	Site Visit Unnao STP		08.10.20 S-533					CM Dimri Priyesh Vikas Lokesh	1+1+1+1				Inspection done by our engineers at Unnao STP
08.10.20	Inspection report of 42MLD STP inspection done on 05.10.20	-	08.10.20 S-534					JP Tripathi OP Asati AK Seth LingaRao Vikas Kapil Lokesh Ajay	1+1+1+1+1+1 +1	-	-	-	Sent the Inspection Report of 42 MLD Sajari STP, inspected on 05.10.20

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
09.10.20	Submission of Drawing document of HT VCB Panel for Unnao	23.09.20 K-657	09.10.20 S-535	16	20			JP Tripathi OP Asati AK Seth Priyesh Rahul	1+1+1+1+1				Requested UPJN to direct KRMPL to Submit the compliance report of HT VCB Panel for Unnao.
09.10.20	Inspection report of 210MLD Bingawan STP inspection done on 07.10.20	-	09.10.20 S-536					JP Tripathi A.K Seth LingaRao Rahul Ajay Lokesh	1+1+1+1+1				Sent the Inspection Report of 210 MLD Bingawan STP, inspected on 10.10.20
09.10.20	Submission of Electrical load list and SLD for 130 MLD jajmau	29.09.20 k-664	09.10.20 S-538 & 05.10.20 S-527	8				JP Tripathi OP Asati Ak Seth Vikas Rahul	1+1+1+1+1+1 +1				Requested the UPJN to direct the KRMPL to check the load list & SLD diagram thoroughly and resubmit .

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
								Ajay Goyal Lingarao					
10.10.20	Saturday												
11.10.20	Sunday									-	-	-	
12.10.20	Inspection Report of Unnao 15 MLD STP dated 01.10.20	-	12.10.20 S-539					CM Dimri AK Seth Priyesh Ajay Kapil Rahul	1+1+1+1+1	-	-	-	Requested UPJN to direct KRMPL to submit the compliance report If Inspection report submitted on 08.10.20
12.10.20	Comments on the compliance submission of Sewer bedding calculation for pankha	11.10.20 K-692	12.10.20 S-541	1	20			JP Tripathi OP Asati P. Walunjkar	1+1+1+1+1+1+1	-	-	-	Requested UPJN to direct KRMPL to submit the revised design calculation for sewer bedding

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
								Vikas Satendra Dubey Kapil Rahul					
12.10.20	I &D works for 15 MLD Unnao STP	10.10.20 K-690	12.10.20 S-543	2	20			CM Dimri Priyesh Satendra Kapil MN Dubey Ajay Rahul P.walunjkar	1+1+1+1+1+1				Requested UPJN to direct KRMPL to submit the compliance report of I&D works
13.10.20	Submission of BEP (R4) for 5 MLD STP shuklaganj	-	13.10.20 S-542					CM Dimri P. Walunjkar Satendra Kapil Vikas	1+1+1+1+1+1 +1+1				Requested UPJN to direct KRMPL to submit the compliance report covering all the point of R0 TO R4 .

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
								Rahul MN Dubey P.walunjkar S.kamaraju					
14.10.20	Inspection Report of 5MLD Shuklaganj STP on 08.10.20	-	14.10.20 S-545					CM Dimri P. Walunjkar Satendra Kapil Vikas Rahul MN Dubey	1+1+1+1+1+1 +1	-	-	-	Sent the Inspection Report of 5 MLD Shuklaganj STP, inspected on 08.10.20
14.10.20	Inspection Report of Pankha STP on 12.10.20	-	14.10.20 S-546					CM Dimri Satendra Kapil Rahul MN Dubey	1+1+1+1+1	-	-	-	Inspection done by our engineers at Pankha STP
15.10.20	Vetting and Approval of BEP of 130 MLD STP &IPSS,Jajmau	-	15.10.20 S-547					JP Tripathi P. Bhardwaj OP Asati Ak Seth Vikas Rahul	1+1+1+1+1+1 +1	-	-	-	Requested UPJN to direct KRMPL to submit the compliance report

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionsaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14
								Ajay Goyal Lingarao S.Basutkar					
15.10.20	Reminder-Submission of BEP (R4) for 5 MLD shuklaganj STP		15.10.20 S-548					CM Dimri Priyesh Kapil Lokesh MN Dubey Rahul S.Kamaraju	1+1+1+1+1				Requested UPJN to direct KRMPL to submit the compliance report
15.10.20	Commercial operation date (COD) certificate for Bingawan.	12.10.20 J-2786/W-37/1113	15.10.20 S-549	3	20			JP Tripathi Ajay Goyal Rahul Kapil Lokesh	1+1+1+1+1				Review and comment
16.10.20	Compliance Submission of sewer bedding calculation for Pankha STP	15.10.20 K-706	16.10.20 S-550	1	20			CM Dimri OP Asati	1+1+1+1+1	-	-	-	Requested UPJN to direct KRMPL to submit the revised design calculation for sewer bedding

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 Concessio naire	Reason for delay	Step taken by PE to avoid such delays	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14
								Priyesh Satendra Vikas Rahul MN Dubey					
17.10.20	Vetting and Approval of BEP of 130 MLD STP &IPSS,Jajmau	-	17.10.20 S-552					JP Tripathi OP Asati AK Seth MN Dubey Rahul Vikas AK Seth S.Basutkar Ajay	1+1+1+1+1+1 +1+1				Requested UPJN to direct KRMPL to submitted hard copy of BEP & IPSS jajmau
18.10.20	Sunday												
19.10.20	Submission of drawing & data sheet for piping GA	08.10.20 J-2057/M-47/75	19.10.20 S-553	11				JP Tripathi Priyesh AK Seth Satendra	1+1+1+1+1+1 +1+1	-	-	-	Reminder sent to UPJN to direct KRMPL to submit the compliance

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1	2	3	4	5	6	7	8	9	10	11	12	13	14
								Vikas Ajay Goyal Rahul S.Basutkar					
19.10.20	Submission of data sheet & QAP of Decanter & Diffuser	09.10.20 K-687	19.10.20 S-554	10				CM Dimri OP Asati Priyesh Satendra Ajay Goyal Lokesh Rahul S.Basutkar S.Kamaraju	1+1+1+1+1+1 +1				Review and Recommendation for approval
20.10.20	Observation on Monthly Activity report of 42 MLD Sajari for September 20	10.10.20 K-694	20.10.20 S-203	10				JP Tripathi Ajay Goyal MN Dubey AK Seth Rahul Kapil Lokesh	1+1+1+1+1+1 +1	-	-	-	Asked UPJN to direct KRMPL to resubmit the monthly activity report for sept.-20

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1	2	3	4	5	6	7	8	9	10	11	12	13	14
20.10.20	Submission of compliance report of comment given on BEP(R4) for 5 MLD Shuklaganj	12.10.20 K-693	20.10.20 S-559	8				CM Dimri Priyesh Satendra Kapil MN Dubey Lokesh Rahul	1+1+1+1+1				Requested UPJN to direct KRMPL to submit the Compliance report
21.10.20	Gravity sewage network for 15 MLD Unnao STP	09.10.20 K-627	21.10.20 S-560 & 21.10.20 S-510	12				CM Dimri Priyesh Satendra Kapil Lokesh MN Dubey	1+1+1+1+1				Review and comment
21.10.20	Approval of revised Quality Control Plan & work method statement (R1)	07.10.20 K-680	21.10.20 S-562	14				JP Tripathi Priyesh Satendra Kapil Lokesh	1+1+1+1+1				Review and recommendation for approval

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1	2	3	4	5	6	7	8	9	10	11	12	13	14
21.10.20	Invoice for O&M charges for Sajari from 11/10/2019 to 30/10/2020	16.10.20 J-2859/AC-1/32	21.10.20 S-564	5				JP Tripathi Ajay O.P.Asati Satendra Kapil Lokesh	1+1+1+1+1+1				Review and imposed liquidated damages as per schedule-7
22.10.20	Approval of drawing documents of HT VCB Panel for Pankha	23.09.20 K-657	22.10.20 S-565 & 09.10.20 S-535	15				CM Dimri Priyesh Satendra Kapil Lokesh MN Dubey AK Seth		-	-	-	Review and recommendation for approval
22.10.20	Approval of GA ,datasheet ,SLD,BOM,Wiring diagram & QAP of electrical equipment –HT VCB panel	08.10.20 J-2057/m-47/75	20.10.20 S-566	12				CM Dimri Priyesh	1+1+1+1+1				Review and recommendation for approval

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessio naire	Reason for delay	Step taken by PE to avoid such delays	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14
	Unnao							Satendra Kapil MN Dubey Lokesh					
22.10.20	Submission of Electrical Load list & SLD for 130 MLD Jajmau	14.10.20 K-698	22.10.20 S-567	8				JP Tripathi OP Asati Priyesh Satendra Kapil Lokesh Rahul	1+1+1+1+1+1+1				Review and recommendation for approval
23.10.20	Observation on Monthly Activity Report of 210 MLD Bingawan for Sept-20	10.10.20 K-693A	23.10.20 S-568	13				JP Tripathi OP Asati Priyesh Satendra Kapil Lokesh Ajay	1+1+1+1+1+1+1				Asked UPJN to direct KRMP L to Rsubmit the monthly activity report for sept.-20
23.10.20	Inspection Report of 210 MLD	-	23.10.20 S-569					JP Tripathi OP Asati	1+1+1+1+1				Sent the Inspection Report of 210

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
	BingawanSTP on 21.10.20							Ajay Goyal Rahul Lokesh					MLD BingawanSTP on 21.10.20
24.10.20	Vetting and approval of BEP of 130 MLD STP & IPS ,Jajmau	23.10.20	24.10.20 S-570	1				JP Tripathi Vikas AK Seth Satendra OP Asati Rahul Ajay	1+1+1+1+1+1+1				Review and recommendation for approval
24.10.20	Submission of process description (R5) for 5MLD STP Shuklaganj	22.10.20 K-720	24.10.20 S-571 20.10.20 S-559	2				CM Dimri Satendra Vikas Kapil Lokesh MN Dubey	1+1+1+1+1+1				Requested UPJN to direct KRMP to complete submission of BEP in hard copy
24.10.20	Submission of BEP(R5) for 5 MLD STP Shuklaganj	22.10.20 K-720	24.10.20 S-572	2				CM Dimri Priyesh Kapil Lokesh	1+1+1+1+1+1				Review and recommendation for approval

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1	2	3	4	5	6	7	8	9	10	11	12	13	14
								MN Dubey Satendra					
25.10.20	Sunday												
26.10.20	Dussehra												
27.10.20	Unnao STP regarding drawing /datasheet for approval of Sludge sump	17.10.20 J-2133/M-47/83	27.10.20 S-573	10				JP Tripathi Priyesh Vikas Kapil MN Dubey Rahul S.Basutkar	1+1+1+1+1+1+1				Review and recommendation for approval
28.10.20	Revised RRC drawing for admin building of 15 MLD STP Unnao	08.10.20 K-683	28.10.20 S-578	20				CM Dimri OP Asati Priyesh Satendra Kapil MN Dubey	1+1+1+1+1+1				Review and recommendation for approval

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by 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
28.10.20	Acceptance of compliance report for drawing approval of valve for Pankha	23.10.20 K-729	28.10.20 S-579A	5				CM Dimri Priyesh Ajay Goyal Lokesh	1+1+1+1+1				Review and recommendation for approval
29.10.20	Compliance of COD condition for Bingawan facilities	27.10.20 J- 2933/W- 37/194	29.10.20 S-580	2				JP Tripathi P. Bhardwaj Vikas OP Asati Ajay Goyal Lokesh Rahul	1+1+1+1+1+1 +1				Requested UPJN to direct KRMPL to submit the Compliance report
29.10.20	Admin Building at 30MLD STP	24.10.20 K-730	29.10.20 S-581	5				CM Dimri Priyesh Satendra Kapil Lokesh	1+1+1+1+1				Requested UPJN to direct KRMPL to submit the hard copy of documents

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
30.10.20	Submission of compliance report on comments given on Unnao gravity sewer line	28.10.20 K-733	30.10.20 S-582	2				JP Tripathi OP Asati Priyesh Vikas MN Dubey Ajay	1+1+1+1+1+1				Review and comment on Compliance report
30.10.20	Compliance submission of sewer bedding calculation for pankha	28.10.20 K-737	30.10.20 S-583	2				CM Dimri OP Asati Vikas Satendra Lokesh MN Dubey	1+1+1+1+1+1				Requested UPJN to direct KRMPL to Resubmit the bedding calculation
31.10.20	Admin building at 15 MLD STP Unnao	08.10.20 K-683	31.10.20 S-584 29.10.20 S-581					CM Dimri OP Asati Priyesh Kapil Lokesh MN Dubey	1+1+1+1+1+1				Review and recommendation for approval

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by 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

Note: Man-days and respective inputs of experts for the month of October 2020 are:

SN	Name	Designation	Total Man-days	Input
1.	Mr. Chandra Mauleshwar Dimri	Senior Civil Engineer	31	Timesheet attached
2.	Mr. Jai Prakash Tripathi	O&M Engineer	31	Timesheet attached
3.	Mr. Anil Kumar Seth	Senior Electrical Engineer	15	Timesheet attached
4.	Mr. Sunil Basutkar	Senior Mechanical Engineer	06	Timesheet attached
5.	Mr. Satish Kamaraju	Process Expert	04	Timesheet attached
6.	Mr. Prasoon Bhardwaj	Instrumentation Engineer	02	Timesheet attached
7.	Mr. Preetam Walunjkar	Structural Expert	03	Timesheet attached
8.	Mr. Linga Krishna Rao	Safety expert	12	Timesheet attached
9.	Mr. OP Asati	O&M Engineer	31	Timesheet attached

Annexure 2: Timesheets of Experts

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

Project Engineer	Shah Technical Consultants Pvt Limited	
NMCG-STP Projects at Kanpur under Hybrid Annuity based PPP Mode		
Daily Report		
Name :	Mr. Chandra Mauleshwar Dimri	Month/Year:
Position:	Senioe Engineer Civil & Team leader /c	Oct-20
Date	Description	Location
1	Off work / Appraisal of Unao disposal line layout / GAD	Kanpur
2	Gandhi Jaganti - Half day -	Kanpur
3	Pankha bedding calculation in excel sheet discussed	Kanpur
4	- SUN DAY -	Kanpur
5	Discussion with EE Unnao about checking RMC plant Pankha	Kanpur
6	Meeting with GM and PA-3 GPCB, UPJN about design of bedding	Kanpur
7	Write comments on bedding calculations on 5 points	Kanpur
8	B.E.P. Shukla Gang - R4 - discussion with concessionaire	Kanpur
9	Discussion with PM-1 on PPT Narmada Gaupa	Kanpur
10	S. Saturday - Meeting at CEK UPJN Iko.	Kanpur
11	- SUN DAY -	Kanpur
12	Video Conferencing with NMCG & Meeting at CEK	Kanpur
13	I & D Unnao comments sent and discussion with KRMA	Kanpur
14	Inspection of Pankha STP facilities	Kanpur
15	Inspection of Unnao STP facilities	Kanpur
16	Jajman 130 MLD STP BEP Votted and forwarded	Kanpur
17	Pankha and Unnao - Piping, GAD, Tech, DS votted and forwarded	Kanpur
18	- SUN DAY -	Kanpur
19	Discussion with B.A. Seth - Pankha Transformer sizing etc	Kanpur
20	Meeting at STP Unnao with UPJN and Concessionaire	Kanpur
21	Revised work method & CP votted	Kanpur
22	Discussion with Mr. Madhav kr. about Sufari O&M etc.	Kanpur
23	Meeting with UPJN and KEMPL about Jajman 130 mld	Kanpur
24	Votting of Shukla Gang and Jajman 130 mld BEP	Kanpur
25	- SUN DAY -	Kanpur
26	- Vijaya Doshani HOLI DAY - Tel. Disc with Mr. Madhav kr	Kanpur
27	Meeting with Chief Engineer Kanpur about Pankha Progress	Kanpur
28	Revised drawing of RCC Adm. bldg appraised.	Kanpur
29	Checking of Sewer bedding Calculations	Kanpur
30	Meeting with Mr. Jha. KEMPL about bedding & gravity Sewer Un	Kanpur
31	Office work / searching of office building at new place	Kanpur
<p>I hereby certify that the time report above is a true and complete statement of my working time for the</p>		
Signature of Employee	Signature of Team Leader	
<p>Note: No Desk top / Lap Top available in the office</p>		

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

Project Engineer		Shah Technical Consultants Pvt Limited	
NMCG-STP Projects at Kanpur under Hybrid Annuity based PPP Mode			
Daily Report			
Name :	JAI PRAKASH TRIPATHI		Month/Year:
Position:	O & M ENGINEER		Oct-20
Date	Description	Location	
1	Prepared Time sheet and Invoice for the Month of September 2020	Kanpur	
2	Gandhi Jayanti		
3	Wrote letter to GM GPCU UPJN regarding appointment of separate Plant in charge for Sajari facilities.	Kanpur	
4	Sunday		
5	Briefed Mr. Ajay Goyal Support Engr (Mech) about Sajari and Bingawan Facilities and instructed to inspect Sajari and Bingawan Facilities.	Kanpur	
6	Received and corrected the Inspection Report prepared by Mr Ajay Goyal Support Engr (Mech) and Mr. Lokesh Khandelwal Support Supervisor (Civil) of inspection done on 05/10/2020	Kanpur	
7	Helped in preparation of PPT for Zoom Meeting of NMCG on 12/10/2020	Kanpur	
8	Wrote letter to GM GPCU UPJN forwarding inspection report of Sajari Facilities, inspection done on 05/10/2020	Kanpur	
9	Wrote letter to GM GPCU UPJN forwarding inspection report of Bingawan Facilities, inspection done on 07/10/2020	Kanpur	
10	Attended meeting with CE KNP zone UPJN, GM GPCU UPJN regarding Preparation of NMCG Zoom meeting on 12/10/2020	Kanpur	
11	Sunday		
12	Attended NMCG Zoom meeting	Kanpur	
13	Reviewed the representation of KRMPL regarding Commercial Operation Date for Bingawan facilities.	Kanpur	
14	Reviewed the status of Online Monitoring System (RTOLMS) of Bingawan Facilities	Kanpur	
15	Wrote letter to GM GPCU UPJN regarding Commercial Operation Date for Bingawan facilities.	Kanpur	
16	Wrote letter to GM GPCU UPJN regarding status of Online Monitoring System (RTOLMS) of Bingawan Facilities	Kanpur	
17	Helped in preparation of MOM of Zoom Meeting of NMCG on 12/10/2020	Kanpur	
18	Sunday		
19	Wrote letter to GM GPCU UPJN regarding comments on monthly activity report of Sep 2020 for 42 MLD Sajari facilities.	Kanpur	
20	Wrote letter to GM GPCU UPJN regarding comments on monthly activity report of Sep 2020 for 210 MLD Bingawan facilities.	Kanpur	
21	Wrote letter to GM GPCU UPJN regarding comments on monthly activity report of Sep 2020 for 210 MLD Bingawan facilities.	Kanpur	
22	Wrote draft letter on behalf of GM GPCU UPJN regarding notice under Article 8.12 for non availability of MPS and 210 MLD Bingawan STP due to disconnection of power connection on non payment by KRMPL.	Kanpur	
23	Wrote letter to GM GPCU UPJN forwarding inspection report Bingawan facilities done on 21/10/2020	Kanpur	
24	Wrote letter to GM GPCU UPJN enclosing revised adherence of KPIs certificate or the invoice of O & M bill for Sajari facilities.	Kanpur	
25	Sunday		
26	Vijay Dashmi	Kanpur	
27	Discussed with GM GPCU UPJN regarding invoice of O & M of Sajari Facilities	Kanpur	
28	Received representation by KRMPL regarding Compliance to COD conditions for Bingawan facilities.	Kanpur	
29	Wrote letter to GM GPCU UPJN regarding Compliance to COD conditions for Bingawan facilities.	Kanpur	
30	Helped in preparation of MPR for the month of Sep 2020	Kanpur	
31	Corrected and finalized MPR for the month of Sep 2020	Kanpur	

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

Signature of Employee
 Signature of Team Leader

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

Project Engineer		Shah Technical Consultants Pvt Limited	
NMCG-STP Projects at Kanpur under Hybrid Annuity based PPP Mode			
Daily Report			
Name :	Mr. Anil Kumar Seth	Month/Year:	
Position:	Senior Electrical Engineer	Oct-20	
Date	Description	Location	
1		Kanpur	
2		Kanpur	
3		Kanpur	
4	SUNDAY	Kanpur	
5	Calculation of load requirements for RESCO for power supply	Kanpur	
6	Study of HT Panel manufacturer, credential requirements	Kanpur	
7	Load list & SLD for 130 MLD Jainma - checking	Kanpur	
8	checking of load list & study of SLD for 130 MLD Jainma	Kanpur	
9	objection made on load list & SLD for 130 MLD Jainma	Kanpur	
10	second Saturday	Kanpur	
11	SUNDAY	Kanpur	
12	Detail checking of HT Panel Pankha Submitted by KRMP	Kanpur	
13	Detail checking of HT Panel Shuktaganj Submitted	Kanpur	
14	checking in detail for HT Panel Unnao Submission	Kanpur	
15	QA/QC of HT Panels for Pankha Shuktaganj & Unnao	Kanpur	
16	Checking of revised load list & SLD for 130 MLD Jainma	Kanpur	
17	objection raised in checking for load list & SLD	Kanpur	
18	SUNDAY	Kanpur	
19	Revised submission of Load list & SLD for 130 MLD Jainma	Kanpur	
20	Recommendation for HT Panels in anticipation of	Kanpur	
21	credentials studies the credentials of the Panel Supplier (HT Panel)	Kanpur	
22	letter of approval made of HT Panels Unnao & Pankha	Kanpur	
23	checking of load list & SLD revised by concessionaire for approval & approval letter prepared	Kanpur	
24	work connected with Unnao Ganga 5 MLD STP	Kanpur	
25	Sunday	Kanpur	
26	Dussehra Holiday	Kanpur	
27		Kanpur	
28		Kanpur	
29		Kanpur	
30		Kanpur	
31		Kanpur	
I hereby certify that the time report above is a true and complete statement of my working time for			
 Signature of Employee		 Signature of Team Leader	

Mr. P Walunjkar (Structure Engineer)

**RAJASTHAN RURAL WATER SUPPLY & FLUOROSIS MITIGATION PROJECT (NAGAUR)
PMSC: STC-NKI-AECOM JV
MONTHLY ACTIVITY RECORD**

Name: / Preetam Walunjkar (Structural Specialist)

Month / Year: OCT 2020

Date	Package	Location	Details of Work
01-10-2020			Guest House Shifting Help
02-10-2020			Holiday Gandhi Jayanti
03-10-2020			Saturday Holiday
04-10-2020			Sunday Holiday
05-10-2020	Nagaur	Office	Attend SE Deshnok meeting & draft Nokha Daiya RWR soil heap problem
06-09-2020	Nagaur	Office	Attend CE TM01 meeting & draft Nokha Daiya RWR Problem
07-10-2020	Nagaur	Office	Attend CE TM01 meeting & draft Nokha Daiya RWR soil heap problem
08-10-2020	Nagaur	Office	Meeting with DTL,SE &CE for Nokha Daiya RWR soil heap problem
09-10-2020	Nagaur	Office	Meeting with DTL,SE &CE for CWR Deshnok
10-10-2020			Saturday Holiday
11-10-2020			Sunday Holiday
12-10-2020	Kanpur	Office	Check sewer line bedding drawings
13-10-2020	Kanpur	Office	Check Admin Build Soil Test Report & Staad Pro file Unnao Structural Drg
14-10-2020	Kanpur	Office	Check Admin Build Pankha Structural Drg
15-10-2020	Nagaur	Office	Attend CE TM01 meeting with New SE for CWR Deshnok
16-10-2020	Nagaur	Office	Finalization of CWR Soil test & ERT Survey Report & Prepare letter
17-10-2020			Saturday Holiday
18-10-2020			Sunday Holiday
19-10-2020	Nagaur	Office	CWR Structural Design checking started with Staad file
20-10-2020	Nagaur	Office	CWR Structural Design checking is in progress
21-10-2020	Nagaur	Office	CWR Structural Design checking is in progress
22-10-2020	Nagaur	Office	CWR Structural Design checking is in progress
23-10-2020	Nagaur	Office	Attend meeting with CE & SE for CWR Soil Report
24-10-2020			Saturday Holiday
25-10-2020			Sunday Holiday
26-10-2020	Nagaur	Office	Check RCC Drg of Switchyard foundation CDS-03 Deedwana
27-10-2020	Nagaur	Office	Check RCC Drg of Transformer Foundation CDS-03 Deedwana
28-10-2020	Nagaur	Office	Check RCC Drg of Storm Water Drain & Rainwater Harvesting System CDS-03 Deedwana
29-10-2020	Nagaur	Office	Check RCC Drg of DG foundation CDS-03 Deedwana
30-10-2020			EID Holiday
31-10-2020			Saturday Holiday


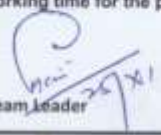
SIGNATURE

TL/ DTL
PMSC for RRWS&FMP (Nagaur)

Mr. S. Kamaraju (Senior Process Expert)

Project				
Shah Technical Consultants Pvt Limited				
NMCG- STP Projects at Kanpur under Hybrid Annuity based PPP Mode				
Daily Report for the Year 2020				
Name :	Satish Kamaraju, Process Engineer			
Position:	Office Manager			
Date	Description	Duration (Days)	STP/Nalas	Work Performed Location
20/01/2020	Review of Sludge Handling System of 130 MLD Jajmau Facility - Responding to the request received via email dated 20/1/20 from TL	0.25	Jajmau STP	Home
22/01/2020	Review of Sludge Handling System of 130 MLD Jajmau Facility - Responding to the request received via email dated 22/01/2020	0.25	Jajmau STP	Home
08/03/2020	Review Comments of ICI Nala & Sundernagar Nala - Responding to the request received via email dated 26/2/20 from TL	0.5	Nalas	Home
18/03/2020	Review Comments of ICI Nala & Sundernagar Nala - Responding to the request received via email dated 18/3/20 from TL	0.5	Nalas	Home
04/04/2020	Review of TEPs of Jajmau STP - Responding to the request received via email dated 04/04/20 from TL/Support Engineer (Mr. Priyesh Shukla)	1	Jajmau STP	Home
07/05/2020	Review of Process Calculations based on COD for Sajari STP - Responding to the request received via email dated 03/05/20 from TL	0.5	Sajari STP	Home
11/05/2020	Response drafted on KRMPL R3 Revision Jajmau STP 130 MLD Renovation	0.5	Jajmau STP	Home
21/05/2020	Response drafted on KRMPL Letter on Sajari Facilities - Responding to the request received via email dated 21/5/20 from TL	0.25	Sajari STP	Home
18/07/2020	Review Comments of I&D Work at Thermal Nala, IPS Sunder Nala & ICI Nala	1	Nalas	Home
20/07/2020	Review of IIT Comments on Jajmau STP 130 MLD and responding the comments by email	1	Jajmau STP	Home
26/07/2020	Review Comments given on new layout of Shuklaganj STP & Phone calls - Responding to the request received via email dated 25/7/20 from TL	1	Shuklaganj STP	Home
31/07/2020	Review of Pankha STP CCT Dwg - Responding to the request received via email dated 30/7/20 from TL	0.5	Pankha STP	Home
10/08/2020	Discussion over the phone with TL on Shuklaganj STP New Layout & Drafting an email response in this regard - Responding to the request received via email dated 10/08/20 from TL	0.5	Shuklaganj STP	Home
24/09/2020	Review of KRMPL/STC Letters on Shuklaganj BEP CIR Status - Responding to the request received via email dated 23/9/20 from TL	1	Shuklaganj STP	Home
28/09/2020	Review comments of process calculations for I&D Works at Unnao - Responding to the request received via email dated 26/09/20 from TL	1	Unnao	Home
29/09/2020	Review comments of process calculations for I&D Works at Unnao - Responding to the request received via email dated 26/09/20 from TL	1	Unnao	Home
04/10/2020	Detailed summary of the letters on Shuklaganj BEP regarding CRs - Responding to the request received via email dated 03/10/20 from TL	1	Shuklaganj STP	Home
12/10/2020	Client VC Meeting - NMCG, JN, STC & KRMPL	0.25	All Projects	Home
16/10/2020	Detailed summary of the letters on Jajmau BEP - Responding to the request received via email dated 14/10/20 from TL	1	Jajmau STP	Home
19/10/2020	Response given on CA Agreement clauses of CR Compliance for BEPs (Shuklaganj STP Review)	0.5	Shuklaganj STP	Home
05/11/2020	Review of Letters, drafting a detailed email on letters received on I&D Works for Unnao STP - Responding to the request received via email dated 04/11/20 from TL	1	Unnao I&D	Home

Mr. Praseon Bhardwaj (Instrumentation Engineer)

Engineer		Shah Technical Consultants Pvt Limited	
NMG-STOP Projects at Kanpur under Hybrid Annuity based PPP Mode			
Daily Report			
Name :	Praseon Bhardwaj	Month/Year:	
Position:	Instrumentation Engineer	Oct-20	
Date	Description	Location	
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14	Review and checking of P&IDs and instrumentation design documents for 130 MLD STP at Jajmau vetted from IIT Roorkee	Jaipur(W/H)	
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26	Review and checking of P&IDs, Control philosophy and Monthly report formats for CSPA & IPSs at Jajmau vetted from IIT Roorkee	Jaipur(W/H)	
27			
28			
29			
30			
31			
I hereby certify that the time report above is a true and complete statement of my working time for the payroll period.			
 Signature of Employee		 Signature of Team Leader	

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

Project Engineer		Shah Technical Consultants Pvt Limited	
NMCG-STP Projects at Kanpur under Hybrid Annuity based PPP Mode			
Daily Report			
Name :	O.P Asati	Month/Year:	Oct-20
Position:	O&M Incharge		
Date	Description	Location	
1	SMCG site visit, boundary wall column casing, brickwork, SBR raft barbinding, MPS excavation work in progress at Pankha STP site.	Kanpur	
2	Gandhi Jayanti		
3	Review of BEP of 130 MLD Jajmau and discussion with Support Engineer and Team Leader.	Kanpur	
4	Sunday		
5	Review of BEP of 130 MLD Jajmau and follow up of pending issues of the Jajmau STP.	Kanpur	
6	Visit GM office regarding design of bedding calculation.	Kanpur	
7	Review of Design and documents of Jajmau facilities.	Kanpur	
8	Review of BEP of 130 MLD Sewerage Treatment plant, Jajmau.	Kanpur	
9	Review of concessionaire agreement regarding scope of jajmau facilities.	Kanpur	
10	(Second Saturday)		
11	Sunday		
12	Video conference meet with NMCG at Chief engineer office	Kanpur	
13	Giving inputs in preparing MOM regarding the meeting held at chief engineer office dated 12/10/2020	Kanpur	
14	Process related comments and concessionaire's compliance & sent it to process expert along with the excel sheet of process calculation of BEP Jajmau.	Kanpur	
15	Go through the old letters regarding Jajmau BEP of 130 MLD STP, Jajmau.	Kanpur	
16	Review of all correspondence inbetween UPJN, STC, ITR & concessionaire regarding BEP Jajmau	Kanpur	
17	Review of Work Method Statement submitted by concessionaire for approval	Kanpur	
18	Sunday		
19	Review of Process calculation regardin the BEP of Jajmau 130 MLD STP.	Kanpur	
20	Review of Work Method Statement and Quality Assurance plan (R1) for approval / comments.	Kanpur	
21	Review of Electrical load list and Single Line Diagram of 130 MLD Jajmau.	Kanpur	
22	Review of Process calculation regardin the BEP of Jajmau 130 MLD STP.	Kanpur	
23	Meeting with PM-1 & GM, GPCU, UP Jal Nigam regarding the raised points on BEP Jajmau.	Kanpur	
24	Drafted a letter regarding the approval of BEP Jajmau 130 MLD STP and review of other documents.	Kanpur	
25	Sunday		
26	Dusherra		
27	Review of GA & RCC drawing of Chlorine Contact Tank & Treated Effluent Pump House. of Jajmau	Kanpur	
28	Giving inputs in the preperation of Monthly Progress Report for the month of Sept. 2020.	Kanpur	
29	Giving inputs in the preperation of Monthly Progress Report for the month of Sept. 2020.	Kanpur	
30	Review of Bedding calculation Revision 1 for the Pankha Site.	Kanpur	
31	Review of Monthly Progress Report for the month of Sept 2020.	Kanpur	

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

Signature of Employee

Signature of Team Leader

Mr. L.K. Rao (Safety Expert)

Linga
today at 1

Project Engineer		State Technical Committee Pvt. Limited	
Name: 1. Mr. L.K. Rao		Date: Report	
Designation: Safety Expert		Description: Daily Report	
1	Office work attended: Visit to Umapa 15 MLD construction site visit		Kanpur
2	Office work attended: Panna 30 MLD inspection of 5th September		Kanpur
3	Office work attended: Panna 30 MLD inspection of 5th September		Kanpur
4	Office work attended: Panna 30 MLD Project inspection report and		Kanpur
5	Office work attended: Letter sent to UPJL and asked to inspect		Kanpur
6	Office work attended: Benjawan 310 MLD Plant and 2-JPS inspection		Kanpur
7	Office work attended: Umapa 15 MLD and Shukla 5 MLD Project		Kanpur
8	Office work attended: Umapa 15 MLD and Shukla 5 MLD Project		Kanpur
9	Office work attended: Umapa 15 MLD and Shukla 5 MLD Project		Kanpur
10	Office work attended: Panna 30 MLD Project inspection report and		Kanpur
11	Office work attended: Panna 30 MLD Project inspection report and		Kanpur
12	Office work attended: Panna 30 MLD Project inspection report and		Kanpur
13	Office work attended: Panna 30 MLD Project inspection report and		Kanpur
14	Office work attended: Panna 30 MLD Project inspection report and		Kanpur

Signature of Employee

Signature of Team Leader



Annexure 3: Monthly Performance Report of Bingawan

210 MLD SEWAGE TREATMENT PLANT, BINGAWANKANPUR																	
MONTHLY FLOW & LAB REPORT																	
Date	INLET FLOW in MLD	Plant Run in HRS	RAW SEWAGE					FINAL OUTLET					POWER SHUTDOWN		REMARK		
			Temp	TDS	PH (7-9)	COD (52mg/l)	BOD (322mg/l)	TSS (418mg/l)	Temp	TDS	PH (7-9)	COD (100mg/l)	BOD (19mg/l)	TSS (15mg/l)		HRS	MINS
			°C	ppm	ppm	ppm	ppm	ppm	°C	ppm	ppm	ppm	ppm	ppm			
1-Oct-20	121.32	24.0	29	930	7.3	446	158	504	29	960	7.5	120	30	58			
2-Oct-20	118.56	24.0	30	940	7.2	680	149	540	30	980	7.6	120	30	58			
3-Oct-20	122.01	24.0	30	928	7.3	488	154	506	30	950	7.5	120	30	58			
4-Oct-20	132.72	24.0	29	944	7.2	704	150	538	29	954	7.5	120	29	58			
5-Oct-20	136.00	24.0	28	1030	7.3	672	156	512	28	1000	7.6	112	30	58			
6-Oct-20	132.60	24.0	29	1020	7.2	688	160	520	29	1000	7.4	120	29	58			
7-Oct-20	100.53	24.0	30	980	7.2	542	154	500	30	1030	7.5	112	30	58	4	15	
8-Oct-20	130.07	24.0	29	990	7.3	672	145	520	29	1020	7.6	120	29	58		11KV Fault from KesCO Side	
9-Oct-20	130.81	24.0	28	1010	7.2	664	156	512	28	1030	7.5	120	29	58			
10-Oct-20	133.12	24.0	28	1030	7.2	644	158	532	29	1050	7.4	120	28	58			
11-Oct-20	129.48	24.0	29	1010	7.2	656	152	520	29	1030	7.3	112	30	58			
12-Oct-20	135.27	24.0	29	940	7.1	604	148	504	29	1020	7.2	120	28	58			
13-Oct-20	135.30	24.0	29	1010	7.2	612	152	512	29	960	7.4	120	28	52			
14-Oct-20	135.03	24.0	29	990	7.3	620	150	504	29	1000	7.3	120	29	58			
15-Oct-20	128.44	24.0	29	1000	7.3	656	154	510	29	1010	7.4	112	28	48			
16-Oct-20	135.54	24.0	28	970	7.2	640	156	516	29	1030	7.3	104	30	50			
17-Oct-20	130.70	24.0	29	1000	7.2	648	146	506	29	1020	7.3	112	29	54			
18-Oct-20	128.96	24.0	28	960	7.1	656	140	504	28	1040	7.3	104	30	52			
19-Oct-20	62.05	24.0	28	970	7.1	648	146	510	28	1010	7.2	112	28	50	11	15	
20-Oct-20	39.18	24.0	28	980	6.9	672	158	488	28	1000	7.3	104	29	48	24	4	
21-Oct-20	53.44	240.0	28	976	7.1	652	158	480	28	1040	7.4	112	28	50	24	0	
22-Oct-20	45.76	24.0	28	967	7.2	604	158	470	28	1026	7.3	104	29	48	16	5	
23-Oct-20	145.08	24.0	28	990	7.2	648	154	512	28	1030	7.4	112	28	50		Electrical Power Shutdown from KesCO Side	
24-Oct-20	126.25	24.0	28	985	7.3	656	150	536	28	1010	7.5	104	29	48			
25-Oct-20	131.04	24.0	27	968	7.3	664	148	540	27	1012	7.4	112	30	50			
26-Oct-20	128.96	24.0	27	996	7.4	656	146	532	27	1018	7.5	104	29	52			
27-Oct-20	121.88	24.0	25	991	7.3	632	154	520	25	1020	7.4	112	28	50			
28-Oct-20	127.56	24.0	25	990	7.3	628	146	512	25	1010	7.5	104	30	52			
29-Oct-20	126.88	24.0	25	988	7.2	664	146	510	25	1012	7.4	112	28	58			
30-Oct-20	53.37	24.0	25	996	7.3	628	146	510	25	1018	7.4	112	28	58			
31-Oct-20	43.21	24.0	25	970	7.2	604	146	504	25	1018	7.4	112	30	48	19	15	
TOTAL	3494.82														19	15	
AVG	112.74	30.97	28.0	986.5	7.2	645.9	150.9	513.3	28.0	1009.3	7.4	114.1	29.1	51.6	36	57	

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

Visit & Inspected on date 07-10-2020

Following STC & KRMPL Staff were present

- 1 Mr.Linga Krishna Rao ,Expert safety
- 2 Mr. Lokesh Khandelwal, Support Supervisor(Civil)
- 3 Mr. Ajay Kumar Goyal, Support Engineer(Mech.)
- 4 Mr.Ankit .JE. UPJN
- 5 Mr.Ram Sastay, O&M In-charge, KRMPL
- 6 Mr. Salesh Yadav, Lab Chemist, KRMPL

Observations:-**1. Collection Chamber**

- Out of 2 nos. of Manual screens are in working condition.
- Out of 2 nos. of mechanical screens are installed ,1no. Mechanical screen out of order since 14.08.2020 with Ref.letter UPJN/KRMPL/Kanpur/567 & KRMPL is mentioned in completion date (31.08.2020) in every letters, both mechanical screens not rectify yet.
- And auto systems of both mechanical screen are not rectified .This matter is pending since takeover date.

2. Main Pumping Station

- All 12 nos. sewage transfer pumps found are in working condition.
- We have seen no body checking pump/coupling temperature & vibration on daily basis, due to not available Infrared Thermometer & Vibration meter .Please provide these instrument as per O& m manual & cleaning the pumping system which required by KRMPL.

3. Inlet chamber

- Out of 2 nos. of Manual screens both are in working condition.
- Out of 3nos of Mechanical fine screens all are in working condition.
- Auto systems of all mechanical screens are not rectified. This matter is pending since takeover date.
- Screen control panel was found in rusted condition. Need to be repaired & repainted.
- 1 no. sampling pump is in working condition. Cabin/cover for sampling pump is required

4. Grit removal assembly

- Out of 4 nos. of Mechanical grit removal systems installed, 1 no. of mechanical grit not in working condition Due to electric problem.
- Coupling guards & Chain covers are to be provide as per specification. And All temporary chain covers need to be replaced.
- KRMPL had promise to provide all coupling covers by 31.08.2020 .but not complied till date.

5. UASB reactor

- Out of 16 nos, only Reactors 3 nos. (Reactor no. 1, 4 & 8) had been clean from 19 .12.2019 till date .And reactivation reactor 2&3 are open for cleaning from 04.08.2020 and 20.08.2020 respectively.
- KRMPL has not submitted schedule Programme for cleaning & reactivation of reaming 11nos. reactors yet. KRMPL is required to takeoff work of cleaning of reaming reactor and bar putting.

6. Aeration pond.

- Out of 18no's aerators installed, 3 nos. are found not in working condition. as our
- Painting of panels and hand railing is required to be taken up immediately.
- Most of the cable trays are in corroded condition. Need to be replaced.

7. Chlorination Building

- Chlorination booster pump discharge line pressure gauge, 1nos need to be replaced with calibration report.
- All20 nos. chlorine tonner available in the chlorine room should be arrange properly,
- Only 2nos chlorine tonners found connected if the system in working.
- 2 nos. tonner have been found in filled condition.
- Has been 1 week stock is required to be available all the time
- There Heavy leakage has been found in Booster pump discharge line joint this is required To be repaired immediately.
- Painting of panels and hand railing has to be carried out.
- Most of the cable trays are in corroded condition. Need to be replaced.

8. Gas holder

- Both are not in working condition since handover date.

9. DFG

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

10. Belt filter press system

- Out of 3 nos. are installed in BFP building, 01 no. is in working condition .BFP- 2nos are in under repaired. KRMPI has promised to repaired 2nos BFP by 15.09.2020 again extended the date from 15.09.2020 to 15.10.2020.
- All 3 nos. poly dosing pump installed, leakage found from inbuilt diaphragm portion of all 3 dosing pumps. And need to be rectified immediately.
- Out of 2 nos. filter press belt wash pumps is installed in BFP building, 1 no. is not in working condition since handover date. Only 1 no. carting from BFP sludge from working belt filter press is stacked at the ground this not the proper .Always trolley should be placed under BFP for sludge to drop to be filled directly.



- Or discharge of 140-150 MLD atleast 2 nos. BFP are required to operate continuously. But it has been observed since beginning KRMPI is operated only 1 no. BFP.

13. Online Monitoring System:-

- At the time visit of 15.09.2020 at the time of visit of SMCG team it was called by Mr. PC Shukla of KRMPI has told the team but there inlet and outlet analyser are still to be calibrated. But those have not been calibrated till today that is on 07.10.2020 found that analyser not calibrated yet. There is too much difference in the reading of RTLOMS and laboratory results of (7.10.2020) produced below:-

Analyser Inlet Reading- COD=655.29 mg/l	TSS=561.53mg/l
Analyser outlet Reading-COD=125.08 mg/l	TSS=65.71mg/l
Laboratory Inlet Reading-COD=542 mg/l	TSS=508mg/l
Laboratory outlet reading-COD=112 mg/l	TSS=58mg/l
- Out of 2 no's Electro-Magnetic Flow meters in inlet, 1 no. has been installed at site and it has been synchronised with RTOLMS. It is not calibrated. Another 2nd no. Electro-Magnetic Flow meters has not been installed yet. Need to be providing calibration report.
- Online monitoring system, RTU, DNP & UPS installed at Inlet & Outlet, and it has been synchronised with RTOLMS and testing results (COD, BOD & TSS) are changing for every 15 minutes. Calibration certificates (Inlet & Outlet analyser) are not found yet.
- It is also necessary to update the proper power consumption and timing of both Power supply and Power backup (DG set) in RTOLMS.
- Electromagnetic flow meter for treated effluent has not been installed yet. Installation of Flow meter at the Treated effluent channel of the STP is necessary and should be synchronised with RTOLMS.

14. Miscellaneous:-

- Balance boundary wall work is to be completed by UPJN.
- MPS outlet valve chamber wall has been found collapse due to earth pressure. Crack had been also developing in the road leading to mps this to be repaired urgently.

Inspection report of IPS, Rakhimandi (100 MLD)

Observations:-

1. **Online Monitoring:**
 - 1 no. of Electro-Magnetic Flow meter is installed at site and has been synchronised with RTOLMS.
 - RTU, UPS, Level transmitter has been installed at site and has been synchronised with RTOLMS.
 - It is also necessary to install RTOLMS system displaying proper power consumption and timing for both Power supply and Power backup (DG set).
2. **Collection Chamber**
 - 1 no. of manual screen is in working condition.
 - 1 no. of mechanical screen installed & is working condition .And Belt Conveyer found not in working condition.
 - MS structural's are in rusted condition. Painting has to be carried out.
 - There is no proper trolley for collecting derbies from the belt conveyer.
3. **Pumping Station**
 - Out of 5 no's sewage transfer pump are found in working condition.
4. **DG Set**
 - 1 no. of DG set is found in working condition during our site visit.

Inspection report of IPS, Munshipurwa (67 MLD):-


Observations:-

5. **Online Monitoring**
 - 1 no. of Electro-Magnetic Flow meter is installed at site and has been synchronised with RTOLMS.
 - It is also necessary to install RTOLMS system displaying proper power consumption and timing for both Power supply and Power backup (DG set).
6. **Collection Chamber**
 - 1 no. of manual screen is working condition.
 - 1 no. of mechanical screen is installed including Belt Conveyer found not in working condition. Same is under maintenance work.
 - MS structural's are in rusted condition. Painting has to be carried out.
 - Inlet and outlet of the mechanical screen gates operating handle is not available and same as to be installed.
7. **Pumping Station**
 - Out of 6 no's sewage transfer pump. All are found in working condition and has been synchronised with RTOLMS.
8. **DG Set**
 - 1 no. of DG set is found not in working condition. Due to Battery discharge, during our site Visit.

11. Safety


- Chlorine safety system to be improved, required proper caution boards and safe operation procedure at outside and inside of chlorine plant area, chlorine detector and alarm system to be arranged in safety of operators and workers working in this area.
- Off site & On site emergency management to be implemented in this plant, so in case of chlorine leakage emergency preparedness, action plan, emergency phone numbers, govt.official numbers, hospital, fire, police etc., Controlling of leakage gas procedure, arresting chlorine leak from cylinder, how to attend the leak point by wearing SCBA etc., training to be given periodically.
- SCBA (self contained breathing apparatus) is in good condition and it is required usage training for workers are not there. At present proper and required SCBA usage training not given to operators and workers. KRMPL should organise training to all the employees working in and around this chlorine plant area. During our recent check on the awareness of one of the chlorine plant operator SCBA usage, it was observed he could not wear the SCBA set and operate. So proper training to be given and awareness to be created to the workers.
- Well top plate or grill to be arranged in protection point of view.
- While entering in to 'DARGA" in/out checking and monitoring to be done at entry gate in safety point of view. In case of any problem in this area then the Concessioner should take liability as per Factories Act.
- In plant all ladders hand railing supports to be arranged for avoiding the fall of persons while climbing and getting down from ladder.
- In plant entire platforms area toe boards with 100X6 mm plate to be arranged for avoiding fall of persons legs in down.
- DG area cautions boards, do's and don'ts to be written on the gate. In this area ear plugs or ear muffs to be used by workers during DG operation.
- In entire plant safety cautions boards, slogans, pictorial message, and flexes to be arranged for creating safety awareness to the workers, staff and visitors of the plant.
- Safety officer must be available in all plants. During our visit some officers are working dual sites.
- Electrical panels area between platform and panels gaps to be closed with MS sheet or grills in safety point of view and electrical shock proof rubber mats to be ensured in front of electrical panels. In IPS plants electrical points are very unsafe condition to be rectified immediately.
- Site house-keeping is poor to be made in good condition. Unwanted material to be removed from the site.
- Filter press area accumulation of sludge to be avoided by placing tractors onetime.
- UASB Reactors area unwanted material to be removed and good house-keeping to be maintained.
- At present motor chain guards placed with pvc material. PVC material is not safe during heat. Immediately MS guards to be arranged.
- Grease oil trip operations area pumps oil leakage to avoided and arrested and periodical cleaning to be done. At this area hand railing with flexible to be arranged for avoiding fall of persons in the process.

- During our inspection it was observed that some workers not having safety shoes and helmets at Bingawan site and IPS.
- Opposite to the plant entrance of MPS at Bingawan drain top covers to be arranged, DANGER, DO NOT ENTER etc., caution boards to be placed if it is under maintenance.



Ajay Kr. Goyal
Supt. Engineer(Mech.)

Lokesh Khandelwal
Supt. Engineer (Civil)



Mr.Linga Rao
Expert

Inspection report of 210 MLD STP Bingawan

Visit & Inspected on date 21-10-2020

Following STC & KRMPL Staff were present

- 1 Mr. Ajay Kumar Goyal, Support Engineer(Mech.)
- 2 Mr.Rahul (Support Engineer)
- 3 Mr.Ram Sastay, O&M In-charge, KRMPL
- 4 Mr. Salesh Yadav, Lab Chemist, KRMPL

Observations:-

1. Main Pumping Station

- Out of 12 nos. of sewage transfer pumps installed, Pump no.03 found not in working condition due to foundation bolt damage.
- Due to non payment of electric bill by KRMPL UP Electric electricity board has disconnected electricity connection on 19.10.2020 at time 10:30 am. There for plant is almost closed from 19.10.2020 .only one DFG is being operated by KRMPL which is not capable of running more than 1 Sewage transfer pump of MPS .It has been also found that KRMPL has not keeping sufficient stock of fuel for such emergency condition. When we reached at site there was no fuel available for the running the DFG .After some time it was arrange by KRMPL and DFG was started.
- Rattng of all 12 pumps started checked and found total flow is 2083 m³/hr an not 2084 m³/hr as mention in O&M manual ,There for all the flow calculation to be done with 2083 m³/hr.

2. Aeration pond.

- Out of 18no's aerators installed, 2 nos. are found not in working condition.
- Test reports for new parts of aerator & motor being replaced during maintenance is not being submitted by KRMPL.

3. Gas holder

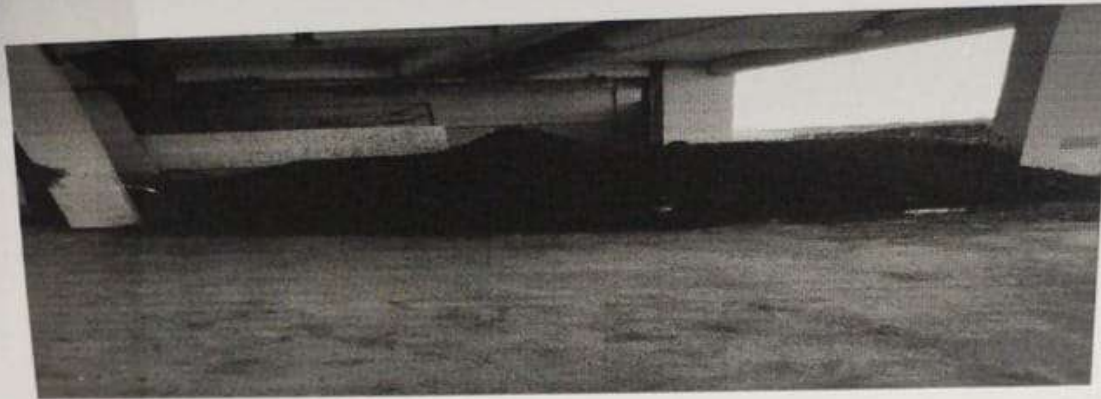
- Both are not in working condition since handover date.

4. DFG

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

5. Belt filter press system

- Only 1 no. BFP working condition since begins .Only one no. trolley is available at site for disposal of sludge .sludge from the belt filter press is being dumped on the ground. This was found during the visit of SMCG team on 15.09.2020 .Since there is no any improvement in the sludge disposal till today .



for discharge of 140-150 MLD atleast 2 nos. BFP are required to operate continuously. But it has been observed since beginning KRMPI is operating only 1 no. BFP.

6. USAB Reactors:-There is no improvement in cleaning & reactivation activity of reactor since our last visit on 07.10.2020.

Ajay Kumar Goyal

Support Engineer (Mech.)

Rahul

Support Engineer (Ele.)

Annexure 5: Summary of Monthly Performance Report of Sajari

41 NLD SEWAGE TREATMENT PLANT, SAJARIKANPUR																			
MONTHLY FLOW & LAB REPORT																			
Month: October 2020																			
Date	INLET FLOW in MLD	Plant Run in Hrs	RAW SEWAGE						FINAL EFFLUENT						Sludge DO	POWER CONSUMPTION		REMARKS	
			Temp °C	TSS mg/l	PH	COD (+100mg/l)	BOD (+20mg/l)	TSS (+100mg/l)	Temp °C	TSS mg/l	PH	COD (+100mg/l)	BOD (+20mg/l)	TSS (+20mg/l)		DO ppm	KWH		MWH
1-Oct-20	18.1	19.0	27	129	7.5	43	104	27	494	7.8	9	23	31	1.6			2 STREAM IS UNDER OPERATION		
2-Oct-20	20.76	21.0	27	120	7.5	36	104	26.1	423	7.5	11	21	29.0	1.5			2 STREAM IS UNDER OPERATION		
3-Oct-20	16.67	17.0	27	118	7.5	28	170	28.0	405	7.8	11	22	26	1.8	1	23	2 STREAM IS UNDER OPERATION		
4-Oct-20	20.76	21.0	27	140	7.5	40	175	294	432	7.8	14	26	23.0	1.9			2 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage		
5-Oct-20	22.77	23.0	27	136	7.5	42	165	275	413	7.8	9	20	31	1.7			2 STREAM IS UNDER OPERATION		
6-Oct-20	22.28	23.0	27	146	7.5	56	171	335	423	7.8	11	21	34	1.8			2 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage		
7-Oct-20	19.06	20.0	27	131	7.5	40	160	270	405	7.9	9	23	28	1.8			2 STREAM IS UNDER OPERATION		
8-Oct-20	22.76	23.0	27	148	7.5	52	171	305	419	7.8	14	24	31	1.7			2 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage		
9-Oct-20	22.77	23.0	27	144	7.5	42	169	311	408	7.8	11	26	33	1.8			2 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage		
10-Oct-20	21.76	22.0	27	136	7.5	46	165	298	452	7.8	9	23	30	1.8			2 STREAM IS UNDER OPERATION		
11-Oct-20	22.29	23.0	27	170	7.5	48	198	271	430	7.9	11	23	29	1.8			2 STREAM IS UNDER OPERATION		
12-Oct-20	22.28	23.0	27	126	7.5	39	145	265	416	7.9	10	26	27	1.8			2 STREAM IS UNDER OPERATION		
13-Oct-20	21.76	22.0	27	146	7.5	44	159	311	416	7.9	9	22	31	1.7			2 STREAM IS UNDER OPERATION		
14-Oct-20	22.77	23.0	27	158	7.5	54	175	319	423	7.9	14	24	35	1.8			2 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage		
15-Oct-20	21.26	22.0	27	136	7.5	42	155	283	426	7.9	9	22	31	1.8			2 STREAM IS UNDER OPERATION		
16-Oct-20	22.28	23.0	27	146	7.5	52	170	326	421	7.9	11	25	33	1.8			2 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage		
17-Oct-20	22.76	23.0	27	135	7.5	44	161	287	446	7.9	9	22	28	1.9			2 STREAM IS UNDER OPERATION		
18-Oct-20	22.77	23.0	27	148	7.5	52	171	314	448	7.9	11	24	32	1.7			2 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage		
19-Oct-20	21.26	22.0	27	146	7.5	52	160	296	427	7.9	14	23	29	1.8	10	20	2 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage		
20-Oct-20	21.76	22.0	27	128	7.5	46	156	286	411	7.9	9	23	26	1.8			2 STREAM IS UNDER OPERATION		
21-Oct-20	22.77	23.0	27	140	7.5	52	175	319	449	7.9	14	24	34	1.8			2 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage		
22-Oct-20	21.26	22.0	27	130	7.5	44	165	266	425	7.9	9	23	31	1.8			2 STREAM IS UNDER OPERATION		
23-Oct-20	22.77	23.0	27	158	7.5	54	180	318	439	7.9	9	24	33	1.7			2 STREAM IS UNDER OPERATION		
24-Oct-20	21.26	21	27	140	7.5	54	175	319	435	7.9	14	26	31	1.8			2 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage		
25-Oct-20	22.77	23.0	27	126	7.5	39	158	267	445	7.9	9	23	28	1.8			2 STREAM IS UNDER OPERATION		
26-Oct-20	21.76	22.0	27	126	7.5	39	145	261	405	7.9	10	24	26	1.7			2 STREAM IS UNDER OPERATION		
27-Oct-20	22.77	23.0	27	146	7.5	52	180	318	440	7.8	14	22	32	1.8			2 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage		
28-Oct-20	22.27	23.0	27	131	7.5	44	180	321	433	7.9	11	24	34	1.8			2 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage		
29-Oct-20	21.76	22.0	27	140	7.5	52	175	298	440	7.8	14	23	31	1.8			2 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage		
30-Oct-20	22.28	23.0	27	134	7.5	46	160	276	420	7.9	9	21	27	1.9			2 STREAM IS UNDER OPERATION		
31-Oct-20	21.76	22.0	27	136	7.5	44	160	311	426	7.9	14	23	33	1.8			2 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage		
TOTAL	472.85																11	35	
Avg	21.88	23.47	27	1391	7.5	477.8	160.5	294.7	427	409	7.9	10.9	22.6	30.8	1.7				

Note: There is a sign of Industrial Waste water (coloured) in TTP from Sangwan area. It was reported on dates of 14.09.20,16.09.20,19.09.20,21.09.20,27.09.20,30.09.20.

Annexure 6: Site Inspection Report for the Month of Oct. 2020 (Sajari)**Inspection report of 42 MLD STP, Sajari**

Inspected on date 05-10-2020 Following were present,

1. Mr. Ajay Kumar Goyal, Support Engineer (Mech.),STC
2. Mr. Lokesh Khandelwal, Support Engineer, STC
3. Mr. Ankit ,JE, UPJN
4. Mr. Shree Ram Satey ,Incharge,KRMPL
5. Mr. Ram Khilawan, lab Chemist, KRMPL

Observation**1. Collection chamber**

- 2 no's of Manual screen are in working condition.
- 2 no's of Mechanical screens are in working condition. But Auto system of both mechanical screens is not rectified. This matter is pending since beginning ,to be solved by UPJN.

2. Main Pumping Station

- Out of 5 sewage transfer pumps installed in MPS, 04 no's are found in working & running condition and 1 no. is out of order from 01.10.2020.
- EOT crane (5T) is found well and all movements activates are working
- 1 no. of Electro-Magnetic Flow meter is installed at site. There is no calibration certificate of flow meter. This is also pending since taking over date 21.05.2019 (with ref. letter no. UPJN/SPCL/Kanpur/2019-20/75 dated 21.05.2020

3. Inlet Chamber

- 2 no's of Manual screen are found in working condition.
- 2 no's of Mechanical fine screens are in working condition.
- Auto systems of both mechanical screens are not rectified since 21.05.2019. (with ref. letter no. UPJN/SPCL/Kanpur/2019-20/75)

4. Grit Separator

- 2 no's of Mechanical grit removal system are in working condition.
- Screen control panel was found in rusted condition.

5. Primary clarifier

- 2 no's of Primary clarifier mechanism are working condition.

6. Aeration system

- 12 no's of aerators are working during our visit. But submergence of aerators is to be increased as per design. This matter still pending since 25.06.2020 with ref. Letter no. STC/PE/KNP/389/O&M sajari dated 25.06.2020.

7. Secondary clarifier

- 2 no's of Secondary clarifier mechanism are in working condition.

8. Chlorination system

- Out of 6 no's of tonners 2 no's has been installed and 2 no. in working condition and remaining 4 no's has been sent to refilling of chlorine gas.

9. Primary Sludge pump

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

10. Thickener Sludge pump

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

11. Return Sludge pump

- Out 4 no's of submersible pump installed in RSPH, 3 no's are in working condition and 1 no's out of order from 03.10.2020.
- 1no. pressure gauge is not working condition. Display glass of all pressure gauges to be changed with glasses for proper visibility. This matter is pending from the last inspection on 02.09.2020.

12. Digester

- Out of 2 no's of Sludge digester mixer installed in Digester unit , 1 no's is working condition and 1nos is out of order since 24.09.2020. As per letter ref.no.UPJN/KRMPL/Kanpur/2020-21/650 dated 24.09.2020. we have not received mixer of Digester at site as on 07.10.2020. Kindly mentioned proper material received date at site.
- EFM at outlet of digester was installed, but not working due to calibration.

13. Gas Holder/Gas Scrubber/Gas flaring units

- 3 no's of Gas engine installed have not been operated & KRMPL side there is no regular operator since hand over date 21.05.2019 with ref. letter no. UPJN/SPCL/Kanpur/2019-20/75 dated 21.05.2019.

14. On-Line Monitor System

- Inlet Analyser panel with censer installed at site. It has not been synchronised with RTOLMS. Analyser results are found at site (PH-7.85, COD-241 mg/l, BOD-120 mg/l, TSS- 162 mg/l).
- Out let Analyser panel with censer installed at site. It has been synchronised with RTOLMS. Analyser results are found at site (PH-7.63, COD-21 mg/l, BOD-4.9 mg/l, TSS- 8.3 mg/l).

15. Power Back-up To DG Set

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

16. Miscellaneous

- Painting of the outer civil structural's and hand railing in walkways & ladders have to be carried out.
- Plant area housekeeping and grass cutting work are in progress.
- Referred letter in compliance to UPJN letter No.1545/W-20/127 by Which it was informed that separate plant in charge for Sajari facilities has been appointed and is expected to join shortly. But still separate plant in charge for Sajari Facilities is not available at site even after more than 3 months.
- Monthly performance report of Sajari Facilities not being sent by KRMPL by 7th date of every month regularly.
- The dried sludge removed at sludge drying bed no. 18 in month of September and disposed at located site near sanigawan with in 10 KM. from STP Plant. Each trolley weight is not mentioned in the record. In this month drying bed no.4 is used as sludge filling.

IPS, Chakeri (14 MLD)**1. Collection Chamber**

- 2no. of manual screen are in working condition
- 2 no's. of mechanical screen installed. And 2 no. is a working condition.
- Auto system of both mechanical screens is not rectified. This matter is pending since beginning to be solved by UPJN.
- MS structural's are in rusted condition. Need to be repainted.

2. Pumping Station

- 4 no's in working condition.
- 1 no. pump(pump no.3) not in working condition .

4. DG Set

- 1 no. of DG set is found in working condition.

➤ IPS, Sanigawan (14 MLD)

➤

5. Collection Chamber

- 2 nos. of manual screen are in working condition
- 2 nos. of manual screen are in working condition.
- 2 no's. of mechanical screen installed. And 2 no. is a working condition.
- Auto system of both mechanical screens is not rectified.
- MS structural's are in rusted condition. Need to be repainted

6. Pumping Station

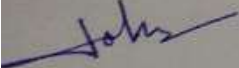
- Out of 5 no's sewage transfer pump's all are in working condition.

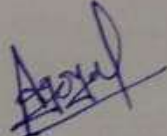
7. Flow meter

- 1 no. of Electro-Magnetic Flow meter is installed at site. There is no calibration certificate of flow meter. This matter is pending from the last inspection on 02.09.2020
- On-line monitoring system is not installed at site.

8. DG Set

- 1 no. of DG set is not found in working condition. Battery not found in DG set


Lokesh Khandelwal (Civil)
Support Engineer


Ajay Kr. Goyal (Mech.)
Support Engineer

Annexure 7: MOM dated 12.10.2020

F.no: Pr-12012/7/2018-PPP/NMCG
National Mission for Clean Ganga
Ministry of Jal Shakti

1st Floor, Major Dhyan Chand National Stadium,
India Gate, New Delhi-110002
Dated: November 18, 2020

Subject- Minutes of Review Meeting through video conferencing held on 12th October 2020, under the chairmanship of ED (Projects), NMCG, for Kanpur STP Projects under Hybrid Annuity based PPP Mode.

Please find attached MoM of review of the Kanpur STP Projects held on 12th October 2020, at NMCG, New Delhi for your perusal and necessary action,



Madhava Kumar R.

Sr. Eco. & Fin. Anys. Specialist

Enclosures: As above

To,

1. General Manager, Ganga Pollution Control Unit, UP Jal Nigam, Kanpur, UP
2. Managing Director, UPJN, Lucknow
3. Kanpur River Management Private Limited
4. Director, Shah Technical Consultants

Copy to,

1. Office of the DG, NMCG
2. Office of the ED (Projects), NMCG
3. SSP(RG), NMCG

Minutes of the Meeting for review of progress of Kanpur STP projects under HAM on 12th October 2020 under the chairmanship of Executive Director (Projects), NMCG.

1. List of participants is enclosed in Annexure-1.
2. The Project Engineer has informed that 1st construction milestone was completed for new STPs in Pankha and Unnao on 25.09.2020 as per revised project schedule. Total of 14% and 17% work has been completed for Pankha and Unnao respectively. The 2nd milestone is to be completed by 25.11.2020 which is 25% of the total work. The Project Engineer has informed that construction work for SBR, BW, CCT, MPS excavation, sludge thickener, admin building and laying of sewer are under progress for Pankha STP facility. As for as Unnao STP facility, new land for I&D works has been identified and acquisition is in process. ED (Projects) instructed that UPJN, Project Engineer and the concessionaire shall put all efforts to complete the project within the approved timeline.
3. As for as 5MLD STP in Shuklaganj is concerned, UPJN informed that CTE obtained on 07.07.2020 on new land. Concessionaire informed that the BEP submitted to Project Engineer/UPJN on 18.08.2020 which is still under process. ED (Projects) instructed Project Engineer to expedite the process and complete the approval within 7 days.
4. The main concern in 130 MLD Jajmau plant is that despite the repeated requests UPJN is yet to handover the plant to the concessionaire. UPJN informed that the labour issues in the plant is yet to sorted out for handing over. It was observed that the delay in hand over is affecting the start of the work and may lead to delay in completion of the rehabilitation of the plant within the time period mentioned in the concession agreement. ED (Projects) directed the JMD/ MD UPJN to resolve the labour issues on priority basis. And hand over the plant to the concessionaire without any delay.
5. The concessionaire informed that IIT has already approved the BEP and other designs for Jajmau plant. But the approval from Project Engineer is pending for long time. ED (Projects) instructed UPJN and Project Engineer to clear all the pending approvals for designs and drawing submitted by the concessionaire within weeks' time.
6. In the case of 43 MLD STP at Jajmau, the hand over is pending from UPJN site for want of joint inspection by the concessionaire, UPJN and the Project Engineer. Accordingly, it was instructed to conduct a joint inspection within 3 days.
7. For Sajari STP facility, Commercial Operation Date has been declared on 11.10.2019. However, Project Engineer informed that the concessionaire is yet to submit the required insurance policies as per article 11.2 of the concession agreement. Further, there are issues in calibration of RTOLMS installed for measuring the KPIs. As of now, all the aerators are run in full capacity for achieving the COD KPI as the inlet COD is above the limits prescribed in the concession agreement. Concessionaire was instructed to address immediately the issues raised in RTOLMs and insurance. UPJN may inform the UPPCB


12/11/2020

to identify and avoid infusion of industrial wastewater in to the sewage stream so that the KPIs are adhered to.

8. NMCG has sanctioned Rs.27.95 lakhs for repair of the Dual Fuel Generator set in 210MLD Bingawan STP in 27th EC Meeting held on 16th April 2020. The concessionaire informed that the repair of DFG may not yield the desired result in terms of electricity generation form bio gas due to certain structural problems. ED (Projects) instructed that both Project Engineer and the UPJN may clearly assess the DFG and submit a report to NMCG within 7 days. Till the confirmation of the issue, UPJN may restrain from withdrawing the sanctioned amount from the escrow account.
9. The concessionaire informed that delay in approval of the designs and drawings by the Project Engineer is affecting the progress of work. ED (Projects) instructed the Project Engineer to strictly adhere to the timelines prescribed in the concession agreement in approving the designs & drawings and avoid delays in future. Noncompliance to this requirement will be reviewed seriously.
10. The meeting ended with vote of thanks to the chair.

CA
12/11/2020

Annexure-1

List of Participants

1. Shri Ashok Kumar Singh, ED (Projects), NMCG
2. Shri Madhava Kumar R, SEFAE, NMCG
3. Shri Rajat Kumar Gupta, Sr. SWM Specialist, NMCG
4. Shri H.K.Hansal, General Manager, UP Jal Nigam, Kanpur
5. Shri M.Ahsan, Project Manager, UP Jal Nigam, Kanpur
6. Shri Mohit Chak, Executive Engineer, CD, UPJN, Unnao
7. Shri Harshit Bahliya, JE, CD, UPJN, Unnao
8. Shri Ankur Saxena, JE, CD, UPJN, Unnao
9. Shri Pritam Walunjkr, Sr. Structural Engineer, STC
10. Shri P.C. Shukla, Director Projects, KRMPL, Kanpur
11. Shri Manobaendra Roy, Manager Projects, KRMPL, Kanpur
12. Shri Amit Bharambe, Manager O&M, KRMPL, Kanpur
13. Shri R.S.Bhatia, STC
14. Shri C.M.Dimri, Senior Engineer, STC
15. Shri Priyesh Shulka, STC

CA
12/11/2020

ANNEXURE 8: MOM dated 27.10.2020

नमामि गंगे कार्यक्रम के अन्तर्गत पीपीपी-हैम आधारित पनका एवं उन्नाव एस0टी0पी0 एवं नालों के आई0 एण्ड डी0 कार्यों की परियोजना की प्रगति समीक्षा की दिनांक 27.10.2020 की बैठक का कार्यवृत्त।

पीपीपी मोड-हैम प्रोजेक्ट के अन्तर्गत पनखा में 30 एम0एल0डी0 क्षमता का एस0टी0पी0, पनकी धर्मल नाला एवं आई0सी0आई0 नाला के आई0 एण्ड डी0 कार्यों की स्वीकृत परियोजना का निर्माण कार्य अनुबन्धित फर्म मै0 सापूर जी पालौन जी, प्रा0लि0, मुम्बई के द्वारा गठित एस0पी0वी0 'मै0 कानपुर रिवर मैनेजमेन्ट प्रा0लि0 (KRMPPL) द्वारा अनुबन्ध सं0-14/जी0एम0/2018-19 के अन्तर्गत कराया जा रहा है। मा0 एन0जी0टी0 के आदेशों से आच्छादित उक्त कार्य को समयबद्धता के साथ माह अक्टूबर, 2021 तक प्रत्येक दशा में पूर्ण कर कमीशन किया जाना आवश्यक है। मुख्य अभियन्ता (का0क्षे0), उ0प्र0 जल निगम, कानपुर के कार्यालय ज्ञाप सं0 2734/एम-9/111 दिनांक 27.08.2020 के द्वारा निर्गत निर्देशों के अनुक्रम में मुख्य अभियन्ता (का0क्षे0), उ0प्र0 जल निगम, कानपुर की अध्यक्षता में दिनांक 27.10.2020 को निर्माणाधीन कार्यों की प्रगति समीक्षा बैठक आयोजित की गई, जिसमें संलग्नक उपस्थिति के अनुसार जल निगम, अनुबन्धित फर्म एवं एन0एम0सी0जी0 के द्वारा परियोजना हेतु नामित परियोजना अभियन्ता मै0 एस0टी0सी0 के प्रतिनिधि अधिकारीगणों के द्वारा प्रतिभाग किया गया। इसके पूर्व दिनांक 12.10.2020 को बैठक आयोजित की गई थी, जिसमें दिये गये निर्देशों के अनुपालन तथा दो सप्ताहों में प्रगति के सम्बन्ध में फर्म के द्वारा दिये कमिटमेन्ट की भी समीक्षा की गई।

निर्माणाधीन कार्यों की प्रगति निम्नवत पायी गई तथा अवशेष कार्यों को पूर्ण कराये जाने के यथानुसार निर्देश पारित किये गये-

(अ) स्वीकृत परियोजना के पनका फ़ैसिलिटीज के अन्तर्गत पनका में 30 एम0एल0डी0 क्षमता का एक एस0टी0पी0, पनकी धर्मल नाला 'A' पनकी धर्मल नाला 'B' तथा आई0सी0आई0 नालों के आई0 एण्ड डी0 कार्य, 16 किमी0 सीवर लाइन, 6.80 किमी0 राइजिंग मेन तथा कामन रेविटीमेन का कार्य प्रस्तावित है। कार्यों को पूर्ण किये जाने हेतु 8 माइल स्टोन में विभाजित किया गया है। पूर्व में प्रथम माइल स्टोन 26.11.2019 से 25.04.2020 तक हेतु कार्यों का कुल लागत लगभग रु0 12.50 करोड पूर्ण किये जाने हेतु निर्धारित किया गया था, लेकिन विश्वव्यापी कोविड-19 महामारी के कारण देशव्यापी लॉकडाउन के दृष्टिगत प्रथम माइल स्टोन दिनांक 25.09.2020 तक बढ़ाते हुये संशोधित कर निर्धारित किया गया। प्रथम माइल स्टोन के सापेक्ष विभिन्न कार्यों हेतु निर्धारित किये गये लक्ष्य के सापेक्ष प्रगति प्राप्त कर ली गई है अर्थात लागत का 12.50% आंकलित कार्य पूर्ण कर लिया गया है। द्वितीय माइलस्टोन दिनांक 26.09.2020 से 25.11.2020 तक निर्धारित है। इस अवधि में लागत का लगभग 12.50% कार्य तथा कुल 25% कार्य पूर्ण किया जाना लक्षित है। प्रथम एवं द्वितीय माइलस्टोन के आधार पर विभिन्न अवयवों/कियाकलापों की दिनांक 26.10.2020 तक की प्रगति संलग्न है। प्रगति समीक्षा में कार्य के निम्नलिखित मुख्य-2 अवयवों पर विचार विमर्श करते हुये द्वितीय माइल स्टोन हेतु निर्धारित लक्ष्यों के अनुसार कार्य पूर्ण किये जाने के निर्देश फर्म के उपस्थिति प्रतिनिधियों को दिये गये। महाप्रबन्धक एवं सम्बन्धित परियोजना प्रबन्धक को भी निर्देशित किया गया कि वह इन कार्यों को गुणवत्ता सहित पूर्ण कराये जाने हेतु निरीक्षण एवं अनुश्रवण करें।

Main Component of Work	Main Activities	Target Against 1st Mile Stone by 25.09.2020	Achievement Against 1st Mile Stone	Target Against 2nd Mile Stone by 25.11.2020	Achievement Against 2nd Mile Stone By 12-10-2020	Remarks
STP	PCC(SBR)	100%	100%	-	-	-
	Fdn(SBR)Raft	40%	40%	60%	27%	-
	Rec wall(SBR)	-	-	50%	10%	-
	PCC(CCT)	100%	100%	-	-	-
	Fdn raft(CCT)	-	-	100%	100%	Achieved
	Wall(CCT)	-	-	50%	-	Shuttering In Progress
	PCC(Admin)	100%	100%	-	-	-
	RCC for column footing(Admin)	-	-	100%	100%	Achieved
other	25%	25%	25%	20%	-	
MPS	PCC	-	-	100%	100%	Achieved
	RCC Fdn/raft	-	-	50%	-	Reinforcement fixing In Progress
	other	25%	25%	25%	15%	-
Compound wall	Excavation/PCC	40%	40%	20%	20%	Achieved
	RCC Column/Beam	40%	40%	20%	5%	-
	Brick work	-	-	20%	19%	-
	other	-	-	-	-	-
IPS (Sundar Nagar)	Excavation	11%	11%	89%	-	Progress needs to be expedited
	PCC	-	-	100%	-	
IPS (ICI Nala)	Excavation	-	-	100%	-	
	PCC	-	-	100%	-	
	Raft Fdn	-	-	50%	-	
NALA Taping						Progress needs to be expedited
Panka	-	-	-	14%	-	
Sundar Nagar	-	-	-	13%	-	
ICI Nala	-	-	-	13%	-	
Sewer Laying	Procurement of pipe	16%	16%	25%	2.5%	Progress needs to be expedited
	Laying	-	-	20%	2%	
Over all achievement		Against 1st Mile Stone	100%	Against 2nd Mile Stone	27.22%	Lacking behind needs to expedite.

अन्य महत्वपूर्ण बिन्दु, डिजाइन/ड्राइंग की स्थिति एवं दिये गये निर्देश:-

स्थलवार समीक्षा पर निम्नानुसार स्थिति पायी गई तथा यथानुसार निर्देश दिये गये-

1-सुन्दरनगर आईपीएस0:- कार्यस्थल हेतु भूमि उपलब्ध है। डिजाइन एवं ड्राइंग स्वीकृत है। सम्प की पूर्व में की गई खुदाई के पश्चात अवरुद्ध चल रहे कार्य को तत्काल प्रारम्भ किये जाने के निर्देश पूर्व बैठक में दिये गये थे। अवगत कराया गया कि कार्य प्रारम्भ करा दिया गया है तथा भू-जल स्तर लोवर करने हेतु वेल प्वाइंट इन्क्यूपमेन्ट/बोरिंग के द्वारा डि-वाटरिंग किया जा रहा है। फर्म के उपस्थित प्रतिनिधियों द्वारा अगवत कराया गया कि खुदाई का कार्य शीघ्र शुरू करेंगे।

2-आई0सी0आई0 नाला आई0पी0एस0— कार्य हेतु भूमि उपलब्ध है। पूर्व बैठक दिनांक 12.10.2020 में परियोजना प्रबन्धक को कानपुर विकास प्राधिकरण से प्रस्तावित कार्य स्थल का अनापत्ति प्रमाण पत्र प्राप्त कर फर्म को उपलब्ध कराये जाने के निर्देश दिये गये थे। फर्म के उपस्थित प्रतिनिधियों के द्वारा अवगत कराया गया कि परियोजना प्रबन्धक (तृतीय) के द्वारा स्थल उपलब्धता से सम्बन्धित विवरण उपलब्ध करा दिया गया है। कैंडी0ए0 से अनापत्ति प्रमाण पत्र प्राप्त हो गया है। फर्म के उपस्थित प्रतिनिधि के द्वारा अवगत कराया गया है, कि इस स्थल में कार्य प्रारम्भ किये जाने की प्लानिंग की जा रही है। स्थल की बैरिकेडिंग का कार्य कर लिया गया है। स्थल पर अभी तक कार्य प्रारम्भ न होने पर मुख्य अभियन्ता के द्वारा असन्तोष किया गया।

3-पनकी धर्मल नाला 'A', सुन्दर नगर धर्मल नाला 'B' तथा आई0सी0आई0 नाला टैपिंग कार्य:- फर्म के उपस्थित अधिकारियों/प्रतिनिधियों के द्वारा अवगत कराया गया था कि डिजाइन एवं ड्राइंग स्वीकृत हो चुकी है। कार्य शीघ्र प्रारम्भ करेंगे। निर्देशित किया गया कि नाला टैपिंग स्थलों पर आई0 एण्ड डी0 कार्य तत्काल प्रारम्भ कराया जाये।

4-सीवर लाइन:- प्रथम माइल स्टोन के अनुसार 2.66 किमी0 पाइप की आपूर्ति के सापेक्ष लक्षित पाइप की आपूर्ति प्राप्त कर ली गई है द्वितीय माइल स्टोन के अनुसार 4.00 कि0मी0 अर्थात् कुल 6.66 कि0मी0 पाइप की आपूर्ति के सापेक्ष 3.05 कि0मी0 पाइप की आपूर्ति हुयी है तथा 342 मी0 सीवर लाइन बिछाने का कार्य किया गया है।

फर्म के प्रतिनिधि को निर्देशित किया गया कि पाइप बेडिंग की डिजाइन का केलकुलेशन संशोधित कर शीघ्र प्रस्तुत करें। महाप्रबन्धक द्वारा निर्देश दिया गया कि कम गहराई वाली ट्रेन्च में सीवर लाइन बिछाने का कार्य शुरू करने में कोई बाधा नहीं है एवं कार्य किया जा सकता है। तदनुसार फर्म के प्रतिनिधि को सीवर लाइन बिछाने का कार्य किये जाने के निर्देश दिये गये। अभी तक की प्रगति सन्तोषजनक नहीं है।

5-वि0/यां0 कार्य:- फर्म के द्वारा वि0/यां0 उपकरणों की डिजाइन व ड्राइंग में एस0टी0पी0 के इनलेट पर प्राप्त होने वाले प्रवाह की Characteristics के आधार पर SS-304 के उपकरण प्रस्तावित किये गये हैं, जिन पर वि0/यां0 कार्य के अधिकारियों के द्वारा आपत्ति व्यक्त की जा रही है, उनके अनुसार SS-316 के निर्मित होना चाहिये। इसी तरह विद्युत खपत की मितव्ययता के आधार पर वि0/यां0 कार्य के अधिकारियों के द्वारा फर्म के प्रस्तावित उच्च दक्षता मोटर्स (1E-2) के स्थान पर प्रिनियम दक्षता (1E-3) के मोटर्स की संस्तुति की जा रही है जिस पर फर्म को आपत्ति है। उक्त के विषय में महाप्रबन्धक द्वारा जाजमऊ 130 एम0एल0डी0 एस0टी0पी0 रिहैविलेटेशन योजना में मरम्मत कार्य हेतु एस0एस0-304 की अनुमति दे दी गयी है। नये कार्य जैसे पनका एस0टी0पी0 में अनुमति हेतु वि0/यां0 के उच्चाधिकारियों से विचार-विमर्श किया गया जिस हेतु महाप्रबन्धक द्वारा निर्णय लिया गया, कि जैसा कि लखनऊ में जल निगम द्वारा निर्माणाधीन 120 एम0एल0डी0 एस0टी0पी0 में SS-304 लिया गया है एवं ठेकेदार द्वारा इस बात की गारन्टी दी जा रही है, कि यह MOC उपयुक्त है एवं क्योंकि 15 वर्ष तक उनके द्वारा रख-रखाव किया जायेगा। अतः SS-304 लेने में कोई बाधा नहीं है। उक्त MOC असफल होने की स्थिति में ठेकेदार इसे अपने व्यय पर बदलेगा। अतः उपरोक्त स्थिति में समस्त तथ्यों पर

विचार करते हुये महाप्रबन्धक को निर्देश दिये गये कि MOC एवं मोटर्स की दक्षता के सम्बन्ध में अविलम्ब निर्णय लेकर तदनुसार फर्म को सूचित करें।

(ब) स्वीकृत परियोजना के उन्नाव फैंसिलिटीज के अन्तर्गत उन्नाव में 15 एम0एल0डी0 क्षमता का एस0टी0पी0, जेल ड्रेन में आई0 एण्ड डी0 कार्य एवं 1200 एम0एल0 व्यास का 3.2 किमी0 ग्रेविटी मेन (ड्रंक सीवर) का कार्य प्रस्तावित है। कार्यों को 8 माइलस्टोन में विभक्त किया गया है (प्रत्येक 12.5%)। पूर्व में प्रथम माइलस्टोन निर्धारित तिथि 25.09.2020 तक 100 प्रतिशत प्राप्त किया जा चुका है। द्वितीय माइलस्टोन 26.09.2020 से 25.11.2020 तक निर्धारित है। इस अवधि में लागत का 12.5 प्रतिशत कार्य तथा कुल 25 प्रतिशत कार्य पूर्ण करना लक्षित है। प्रथम एवं द्वितीय माइलस्टोन के आधार पर विभिन्न अवयवों (यूनिट) की दिनांक 26.10.2020 तक की प्रगति संलग्न है। संलग्नक के टिप्पणी कॉलम में दिये गये निर्देशों को पूर्ण करने के निर्देश फर्म को दिये गये।

अन्त में कार्यों को समयबद्धता के साथ माह अक्टूबर, 2021 तक पूर्ण एवं चालू किये जाने के निर्देश देते हुये महाप्रबन्धक एवं परियोजना प्रबन्धकों (सिविल एवं वि0/यों0) से अपेक्षा की गई कि वह कार्यों के गुणवत्तापूर्ण ससमय सम्पादन कराने के लिये गहनता से अनुश्रवण व निरीक्षण करें।

संलग्नक:- दिनांक 26.10.2020 तक की प्रगति विवरण एवं उपस्थिति।

(ए0के0गुप्ता)
मुख्य अभियन्ता (का0क्षे0)

कार्यालय मुख्य अभियन्ता (का0क्षे0), उ0प्र0 जल निगम, कानपुर

पृ0सं0 339) /M-1 / 52

दिनांक 27/10/2020

प्रतिलिपि निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित:-

- 1-प्रतिलिपि निजी सचिव, प्रबन्ध निदेशक, उ0 प्र0 जल निगम, लखनऊ को प्रबन्ध निदेशक महोदय के अवलोकनार्थ प्रेषित।
- 2-संयुक्त प्रबन्ध निदेशक (गंगा), उ0 प्र0 जल निगम, लखनऊ।
- 3-महाप्रबन्धक, गंगा प्रदूषण नियन्त्रण इकाई, उ0 प्र0 जल निगम, कानपुर को अनुपालनार्थ प्रेषित।
- 4-परियोजना प्रबन्धक (तृतीय/वि0-यां0), गंगा प्रदूषण नियन्त्रण इकाई, उ0 प्र0 जल निगम, कानपुर को अनुपालनार्थ प्रेषित।
- 5-मै0 शाह टेक्निकल कन्सल्टेन्सी 117/426, (14-ओ0, ब्लॉक) गीता नगर अपोजिट, अनुराग हास्पिटल, शारदा नगर, कानपुर। (ई-मेल द्वारा)
- 6-श्री पी0सी0शुक्ला प्रोजेक्ट डायरेक्टर मै0, के0आर0एम0पी0एल0, प्लॉट नं0-101, प्रथम तल, 3/83, विष्णुपुरी, कानपुर। (ई-मेल द्वारा)
- 7-श्री मानबेन्द्र वरिष्ठ परियोजना प्रबन्धक मै0, के0आर0एम0पी0एल0 प्लॉट नं0-101, प्रथम तल, 3/83, विष्णुपुरी, कानपुर। (ई-मेल द्वारा)
- 8-गार्ड फाइल।


मुख्य अभियन्ता (का0क्षे0)

STATUS OF PANKHA PROJECT AS ON 28.10.2020 (Estimated Values)											
S.No.	Description of Items	Milestone-1 (From 26th Nov '20 to 25th Sep '20)		Milestone-2 (From 26th Sep '20 to 25th Nov '20)		Achieved against 2nd milestone		Achieved up to 28.10.2020		Remarks	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)		
A	Design & Drawing & STP & Sewer Laying works A. On approval of BEP B. On approval of design & drawings for Civil & Sewerage works	100%	24,967,950.00	-	-	-	-	100%	24,967,950.00		
		100%	24,967,950.00	-	-	100%	24,967,950.00				
B	CONSTRUCTION STP (30 MLD) SBR Basin Area CIVIL WORK										
		100%	250,000.00	-	-	100%	250,000.00				
		100%	9,838,400.00	-	-	100%	9,838,400.00				
		100%	14,757,600.00	-	-	100%	14,757,600.00				
		40%	9,838,400.00	60%	14,757,600.00	27%	6,640,920.00	67%	16,479,320.00		
				100%	24,596,000.00	10%	2,459,600.00	10%	2,459,600.00	Steel Binding and Wall shuttering is under progress	
2	Wall 50% of total lift work Chlorine Contact Tank Area	100%	150,000.00	-	-	-	-	100%	150,000.00		
		100%	737,880.00	-	-	-	-	100%	737,880.00		
		100%	1,106,820.00	-	-	-	-	100%	1,106,820.00		
				100%	4,611,750.00	100%	4,611,750.00	100%	4,611,750.00		
				100%	2,767,050.00					Shuttering work is under progress	
3	Wall 50% of total lift work Chlorination House Area CIVIL WORK										
		100%	100,000.00	-	-	-	-	100%	100,000.00		
		100%	368,940.00	-	-	-	-	100%	368,940.00		
		100%	553,410.00	-	-	-	-	100%	553,410.00		
				100%	2,767,050.00	100%	2,767,050.00	100%	2,767,050.00		
				50%	464,175.00	25%	-	25%	230,587.50		
4	Sludge Thickener Area CIVIL WORK										
		100%	100,000.00	-	-	-	-	100%	100,000.00		
		100%	737,880.00	-	-	-	-	100%	737,880.00		
		100%	1,106,820.00	-	-	-	-	100%	1,106,820.00		

S.No.	Description of Items	Milestone-1 (From 26th Nov '19 to 25th Sep '20)		Milestone-2 (From 26th Sep '20 to 25th Nov '20)		Achieved against 2nd milestone		Achieved up to 26.10.2020		Remarks
		%	Amount (Rs.)	%	Amount (Rs.)	%	Amount (Rs.)	%	Amount (Rs.)	
5	RCC Foundation wall/ base slab	-	-	100%	3,689,400.00	45%	1,660,230.00	45%	1,660,230.00	
	Wall 50% of total lit work	-	-	100%	2,767,050.00	20%	553,410.00	20%	553,410.00	
	Inlet / Stilling Chamber Area									
	Site Clearance	-	-	100%	50,000.00	100%	50,000.00	100%	50,000.00	Area is being used for movement, will be taken up shortly
	Excavation	-	-	100%	245,960.00	-	-	0%	-	
PCC	-	-	100%	368,940.00	-	-	0%	-		
RCC Foundation/Column footing	-	-	100%	1,229,800.00	-	-	0%	-		
9	Admin Bldg. Area									
	Site Clearance	100%	100,000.00	-	-	100%	-	100%	100,000.00	
	Excavation	100%	368,940.00	-	-	100%	-	100%	368,940.00	
	PCC	100%	553,410.00	-	-	100%	-	100%	553,410.00	
	Column footings/Foundation	-	-	100%	1,844,700.00	100%	1,844,700.00	100%	1,844,700.00	
18	EXTERNAL DEVELOPMENT									
	B. Compound Wall with Gate									
	Excavation & PCC	40%	2,459,600.00	20%	1,229,800.00	20%	1,229,800.00	60%	3,689,400.00	
	RCC Column footing	40%	2,459,600.00	20%	1,229,800.00	16%	983,840.00	56%	3,443,440.00	
	RCC Column & Beam	40%	2,459,600.00	20%	1,229,800.00	5%	307,450.00	45%	2,767,050.00	
19	Brickwork & Plaster	-	-	20%	1,229,800.00	19%	1,192,906.00	19%	1,192,906.00	
	MPS-2 (115MILD)									
	CIVIL									
	A Construction of Raw Sewage Sump									
	Site Clearance	100%	150,000.00	-	-	-	-	100%	150,000.00	
B	Excavation	15%	517,760.10	85%	2,933,973.90	85%	2,933,973.90	100%	3,451,734.00	
	PCC	-	-	100%	2,301,156.00	100%	2,301,156.00	100%	2,301,156.00	
	RCC Foundation/Raft	-	-	50%	2,876,445.00	-	-	0%	-	Steel Binding is under progress
	Construction of Inlet Chamber & Screen	-	-	-	-	-	-	-	-	
	Site Clearance	100%	50,000.00	-	-	-	-	100%	50,000.00	
20	ICI Male IPS									
	CIVIL									
	A Construction of Raw Sewage Sump									
	Site Clearance	100%	150,000.00	-	-	-	-	100%	150,000.00	
	Excavation	-	-	100%	1,533,600.00	-	-	-	-	
21	PCC	-	-	100%	1,022,400.00	-	-	-	-	
	RCC Foundation/Raft	-	-	50%	1,278,000.00	-	-	-	-	Team is being deployed for dewatering works, Area covered by hard barrication
	IPS-6 (Sunder Nagar- 20 MILD)-Pankha Area									
	CIVIL									

S.No.	Description of Items	Milestone-1 (From 19th Nov. '20 to 25th Sep. '20)		Milestone-2 (From 26th Sep. '20 to 25th Nov. '20)		Achieved against 2nd milestone		Achieved up to 25.10.2020		Remarks
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	
A	Construction of Raw Sewage Sump									
	Site Clearance	100%	150,000.00	-	-	-	-	100%	150,000.00	
	Excavation	11%	168,696.00	89%	1,364,904.00	-	-	11%	168,696.00	Dewatering work is started, excavation work will be taken up by 07.11.20
	PCC	-	-	100%	1,022,400.00	-	-	-	-	
22	I&D Works									
A	IG Nala									
	Construction Work									
B	Thermal Nala -A			13%	289,120.00	-	-	-	-	Will be taken up shortly
	Construction Work									
C	Thermal Nala -B			13%	289,120.00	-	-	-	-	Will be taken up shortly
	Construction Work									
24	Sewer System Area (RCC Pipes-NP3 Types)									
	Site Clearance			20%	311,360.00	-	-	-	-	Will be taken up shortly
	Supply of pipes			25%	40,113,568.00	-	-	-	-	
	Excavation and Laying of pipes including Manholes	16%	25,670,093.90	4%	6,017,035.20	4%	6,017,035.20	17%	31,687,129.10	Inspection is done, supply rate will be speedup now.
25	Design, Supply, Testing & Commissioning of Sewer line (crossing National Highway-2 & Railway Track)			20%	2,005,678.40	2.29%	229,650.18	2.29%	229,650.18	
	Statutory approvals from Railway & Road			50%	2,005,678.40	-	-	-	-	
	Construction of Pit			44%	416,671.30	-	-	-	-	
	Total Amount		12,48,39,750.00		12,48,39,750.00		35,78,34,71.28		16,08,53,008.78	16.08%









STATUS OF UNNAO PROJECT AS ON 26.10.2020 (Estimated Values)

Sr. No.	Description of Items	Milestone-1 (From 11th Oct.'19 to 25th Sept'20)		Milestone-2 (From 26th Sep 20 to 25th Nov. 20)		Achieved against 2nd Milestone		Achieved up to 26.10.2020		Remarks
		%	Amount	%	Amount	%	Amount	%	Amount	
I										
Design & Drawing & STP & Sewer Laying works										
1	On approval of BEP	100%	19,134,500.00	0%	-	100%	-	100%	19,134,500.00	
2	On approval of design & drawings for Civil & Sewerage works	25%	4,783,625.00	75%	14,350,875.00	70%	13,394,150.00	95%	18,177,775.00	I/O Structure design pending
II CONSTRUCTION										
A UNNAO STP (15 MLD)										
i SBR Basin Area										
1	Site Clearance	100%	500,000.00					100%	500,000.00	
2	Excavation wall footing	100%	2,246,137.60					100%	2,246,137.60	
3	PCC wall footing	100%	2,746,137.60					100%	2,746,137.60	
4	RCC Foundation/Raft of wall			100%	5,492,275.20					Steel binding is under progress for foundation
ii Sludge Thickener Area										
1	Site Clearance	100%	150,000.00					100%	150,000.00	
2	Excavation	100%	364,900.80					100%	364,900.80	
3	PCC	50%	257,450.40	50%	257,450.40			50%	257,450.40	
4	RCC Foundation Wall/base slab			100%	685,534.40	50%	343,267.20	50%	343,267.20	
iii Supernatant Sump Area										
1	Site Clearance	100%	100,000.00					100%	100,000.00	
2	Excavation	100%	114,422.40					100%	114,422.40	
3	PCC	100%	114,422.40					100%	114,422.40	
4	RCC Foundation wall/raft	100%	128,844.80					100%	128,844.80	
5	Wall 50% of total lift work			100%	143,044.80	50%	71,522.40	50%	71,522.40	Steel binding is under progress
6	Walls (balance 50% of Total Lift work)			100%	171,633.60					
iv Chlorination Tank Area										
1	Site Clearance	100%	150,000.00					100%	150,000.00	
2	Excavation	100%	422,112.00					100%	422,112.00	
3	PCC	100%	572,112.00					100%	572,112.00	
4	RCC Foundation/Raft	100%	915,000.00					100%	915,000.00	
5	Wall 50% of total lift work			100%	658,168.00	25%	214,542.00	25%	214,542.00	Shuttering / Reinforcement work is under progress
v Air Blower Room Area										

Sr. No.	Description of Items	Milestone-1 (From 11th Oct.'19 to 25th Sept'20)		Milestone-2 (From 26th Sep'20 to 25th Nov.'20)		Achieved against 2nd Milestone		Achieved up to 26.10.2020		Remarks
		%	Amount	%	Amount	%	Amount	%	Amount	
1	Site Clearance	100%	250,000.00					100%	250,000.00	
2	Excavation	100%	343,267.20					100%	343,267.20	
3	PCC	100%	343,267.20					100%	343,267.20	
4	RCC Foundation/column footing			100%	686,534.40			100%	686,534.40	
5	Column & Beam			100%	629,801.60			25%	157,450.40	
vi	Staff Quarter Area (G+1)									
1	Site Clearance	100%	50,000.00					100%	50,000.00	
2	Excavation	100%	71,000.00					100%	71,000.00	
3	PCC	100%	71,000.00					100%	71,000.00	
4	RCC Foundation/column	100%	92,000.00					100%	92,000.00	
5	Column & Beam			100%	92,000.00	25%	23,000.00	25%	23,000.00	
6	RCC Ground floor Slab			100%	92,000.00			0%	-	Beam work is under progress
vii	Guard Room Area									
1	Site Clearance	100%	50,000.00					100%	50,000.00	
2	Excavation	100%	82,211.20					100%	82,211.20	
3	PCC	100%	82,211.20					100%	82,211.20	
4	RCC Foundation/column	100%	114,422.40					100%	114,422.40	
5	Column & Beam	100%	114,422.40					100%	114,422.40	
6	RCC Ground floor Slab	100%	114,422.40					100%	114,422.40	
7	RCC Roof Slab							100%	114,422.40	
8	Brick work							25%	28,605.60	
9	Plaster							0%	-	Brick work under progress
viii	Chlorination Room Area									
1	Site Clearance	100%	150,000.00					100%	150,000.00	
2	Excavation	100%	457,689.60					100%	457,689.60	
3	PCC	50%	228,844.80					50%	228,844.80	
4	RCC Foundation/column footing			100%	457,689.60			100%	457,689.60	
5	Column & Beam			100%	457,689.60			0%	-	Steel work is under progress
6	Ground floor Slab			70%	480,574.08			0%	-	
ix	Inlet Chamber Area									
1	Site Clearance	100%	150,000.00					100%	150,000.00	
x	Manual & Mechanical Fine Bar Screen Chamber Area									
1	Site Clearance	100%	150,000.00					100%	150,000.00	
xii	Grit Chamber Area									
1	Site Clearance	100%	150,000.00					100%	150,000.00	
xiv	Pershall Flume Channel Area									
1	Site Clearance	100%	150,000.00					100%	150,000.00	

Sr. No.	Description of Items	Milestone-1 (From 11th Oct.'19 to 25th Sept 20)		Milestone-2 (From 28th Sep'20 to 25th Nov.'20)		Achieved against 2nd Milestone		Achieved up to 26.10.2020		Remarks
		%	Amount	%	Amount	%	Amount	%	Amount	
EXTERNAL DEVELOPMENT										
	Boundary Wall with Gate									
1	Site Clearance	100%	-							
2	Excavation	40%	133,900.00	30%	100,425.00	11%	36,822.50	51%	170,722.50	
3	PCC	40%	200,850.00	25%	125,531.25	25%	125,531.25	65%	326,381.25	
4	RCC Column footing	40%	200,850.00	25%	125,531.25	25%	125,531.25	65%	326,381.25	
5	RCC Column & Beam	40%	200,850.00	25%	125,531.25	5%	25,106.25	45%	225,956.25	
6	Brickwork	15%	75,318.75	25%	125,531.25	25%	125,531.25	40%	200,850.00	
C										
MPS-40 MLD										
Civil Work										
Construction of Raw Sewage Sump										
i	Site Clearance	100%	500,000.00					100%	500,000.00	
Construction of Inlet Chamber & Screen Channel										
ii	Site Clearance	100%	150,000.00					100%	150,000.00	
D										
SEWER SYSTEM AREA (3.2 Km)										
1	Site Clearance	100%	-			100%	-	100%	-	
Supply of pipes										
2	Excavation and Laying of pipes inclu	20%	11,060,057.85	35%	19,359,095.70			20%	11,060,057.85	Will be completed by next inspection proposed on 8th Nov
3	Manholes		-	20%	1,108,732.26					
4			-	20%	737,489.36					
			47,836,250.00		47,836,250.00		16,758,551.30		64,594,801.30	17.13%

माओ राष्ट्रीय हरित अधिकरण, नई दिल्ली में विचाराधीन ओ०ए० सं०-६७३/२०१८ एवं ओ०ए० सं०-२००/२०१४ के पारित आदेश का अनुपालन किये जाने के सम्बन्ध में मुख्य अभियन्ता (का०से०) की अध्यक्षता में क्षेत्राधिकार पत्रकी व्यक्त नाला एवं आई०सी०आई० नाला के आई० एच० डी० कार्यो, पत्रका ए०सी०आई० की परियोजना के निर्माण व अग्रोप नालों के सी०सी०आई० विरचन की पाशिक समीक्षा दिनांक २७.१०.२०२० में उपस्थित अधिकारी एवं अनुमोदित फर्म के अधिकृत प्रतिनिधियों की उपस्थिति।

क्र० सं०	कार्यालय का नाम	अधिकारी का नाम	पद नाम	मोबाइल न०	हस्ताक्षर
1	2	3	4	5	6
1	U.P. Jal Nigam Kanpur	A.K. Gupta	Chief Engineer	9673942763	
2	STC G.P.C.U., U.P.	H.K. KANSAI	GM	9475842338	
3	KRMPL	Sumit Kalyan	Project Manager Construction	735554266	
4	KRMPL	Manobindra Roy	Project Manager	903041418	
5	U.P. J.N. Nirmal Khanda Unnao	R. K. Dubey	Asst. Engineer	9473942763	
6	P.M. II. Const. Unit STC	Devendra Singh C.M. Engineer	Project Manager T.L.	9473942763 9026750096	
8	G.P.C.U. Kanpur	H. Akhane	Project Manager	9473942763	
9	P.H.(EM) G.P.C.U. Kanpur	M. HAZ	Project Manager (E.A.)	9473942763	
10	STC	S.K. Sharma	Supdt. En.	9149057791	
11	STC	O.P. ASATI	Asst. Engineer	9473942763	
12					