NATIONAL MISSION FOR CLEAN GANGA (NMCG)

MINISTRY OF JAL SHAKTI DEPARTMENT OF WATER RESOURCES, RIVER DEVELOPMENT & GANGA REJUVENATION, GOVT. OF INDIA



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

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

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

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

Monthly Progress Report

Of

Project Engineer

April - 2021



Executing Agency

Uttar Pradesh Jal Nigam Benajhabar Road, Kanpur

Uttar Pradesh - 208002



Funding Agency

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



Project Engineer

Shah technical Consulta Pvt. Ltd. 117/231 O block, Geeta Nagar Kanpur Uttar Pradesh - 208025



Concessionaire

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



Table of Contents

Contents

M	ITNC	HLY PROGRESS REPORT – HAM KANPUR	5
1.	IN	TRODUCTION	5
2.	Н	YBRID ANNUITY MODEL (HAM)	6
3.	OE	BJECTIVES	6
4.	HA	AM KANPUR PROJECT AT A GLANCE	7
5.	PR	ROJECT WISE DETAILS OF COMPONENTS UNDER HAM KANPUR PROJECT	8
	5.1	PANKHA FACILITIES	8
	5.2	UNNAO FACILITIES	9
	5.3	SHUKLAGANJ STP FACILITIES	9
	5.4	JAJMAU (PHASE I) FACILITIES	10
	5.5	JAJMAU PHASE II STP FACILITY	10
	5.6	BINGAWAN FACILITIES	10
	5.7	SAJARI FACILITIES	11
6.	PH	HYSICAL PROGRESS OF WORK	12
	6.1	MILESTONE WISE ACTIVITIES AND PROGRESS: PANKHA STP FACILITIES	12
	6.2	MILESTONE WISE ACTIVITIES AND PROGRESS: UNNAO STP	31
	6.3	WORK PROGRESS AT SHUKLAGANJ STP	29
7.	PR	RESENT STATUS AND ISSUES OF HAM PROJECT KANPUR	31
	7.1	PANKHA 30 MLD STP FACILITIES	31
	7.2	UNNAO 15 MLD STP FACILITIES	31
	7.5	42 MLD SAJARI STP	33
	7.6	210 MLD BINGAWAN FACILITIES	34
8.	ST	ATUS OF BEP & OTHER DETAILS	37



LIST OF TABLES

Table 2.1 : HAM Kanpur Project at a Glance

Table 5.1 : Pankha Facilities
Table 5.2 : Unnao Facilities
Table 5.3 : Shuklaganj Facilities
Table 5.4 : Jajmau Facilities
Table 5.5 : Bingawan Facilities
Table 5.6 : Sajari Facilities

Table 6.1 : Milestone Wise Activities And Progress: Pankha STP Facilities
Table 6.2 : Milestone Wise Activities And Progress: Unnao STP Facilities

Table 6.3 : BEPs and other details

LIST OF FIGURES

Figure 1 : Objectives of NMCG and UP JAL NIGAM



ABBREVIATIONS

ASP Activated Sludge Process
BEP Basic Engineering Package
BOD Biochemical Oxygen Demand
CETP Common Effluent Treatment Plant

COD Chemical Oxygen Demand
COD Commercial Operation Date

CPs Condition Precedent
CTE Consent To Establish
CTO Consent to Operate
DFGs Dual Fuel Generators
DPR Detailed Project Report

ESHS Environment, Social, Health And Safety

GOI Government of India
HAM Hybrid Annuity Model
I&D Interception & Diversion

IPS Intermediate Pumping Station
KPIs Key Performance Indicators

KRMPL Kanpur River Management Private Limited

LOA Letter of Award

MOM Minutes of Meeting

MPS Main Pumping Station

O&M Operation and Maintenance
PLC Programmable Logic Control
PMC Project Management Consultant

PDD Proposal Due Date

PDMC Project Development and Monitoring Consultant

PPP Public Private Partnership
QAP Quality Assurance Plan
RFP Request for Proposal
RTU Remote Terminal Unit

RTOLMS Real Time Online Monitoring System

TOR Terms of Reference

SBR Sequential Batch Reactors
STP Sewage Treatment Plant
TERM 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 program 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 program on a PPP basis.

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

Rapidly increasing population, rising standards of living and exponential growth of industrialization and urbanization 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 program 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.

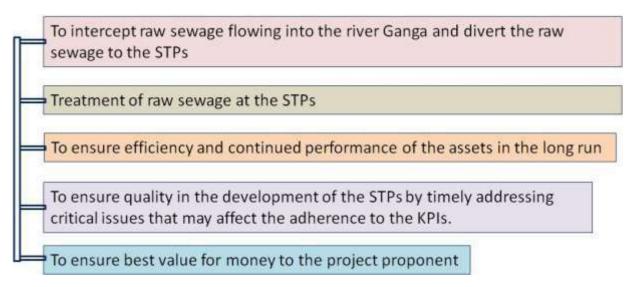


Figure 1: Objectives of NMCG and UP JAL NIGAM



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

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 : 14/GM/2018-19dated 21.12.2018

Agreement

Cost of Project : Rs. 816.25 Cr. (CAPEX 255.50 Cr. + OPEX 560.75 Cr.)

(CAPEX+OPEX)

Completion date : 24 Months from effective date

11.10.2019

(as per contract) (21 months construction + 3 months trial run)

O&M period : 15 years after last Commercial Operation Date (COD)

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;

Work

Effective Date



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



900 mm-ф	2.170km
1200 mm-ф	3.634km
1600 mm-ф	1.596km
2000 mm-φ	1.948km

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.	No. of
	Date of Start- Effective Date (11.10.2019)	/size	units/le ngth
	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 ф	3.6Km
1.4	I&D works (Nala tapping)	90 MLD	1
1.5	Trash screen	7mx1.7mx 0.8m	1
1.6	Grit chamber	12mx4m x1m	2
1.7	Collection chamber	3mx5.3mx2m	1
1.8	Rising main (MPS to STP)	750mm φ	100m
1.9	Rising main (bypass)	750mm φ	100m
1.10	Effluent gravity channel (STP to discharge point)	1.5m x1.0m	300m
1.11	Effluent disposal drain	700mm	570m

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.	No. of		
	Date of Start- Effective Date (11.10.2019)	/size	units/length		
	Scope of Work- New Construction and O&M				
1.1	STP	5 MLD	1		
1.2	Sump cum Pump house (MPS)	20 MLD	1		
1.3	Connecting sewer (in zone 2)	400-500mm φ	200m		
	Effluent Disposal line	400mm φ	310m		
	(I&D to STP)	600mm φ	430m		
1.4	I&D works (Nala tapping)	45 MLD	1		
1.5	Collection chamber	3.5mx3.6mx1m	1		
1.6	Rising main (MPS to STP)	500mm φ	50m		
1.7	Rising main (bypass)	500mm φ	50m		
1.9	Effluent channel (STP to discharge point)	1.5m x1m	100m		



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		
Α	Phase-I	Capacity/dia.	No. of
	Date of Start- Effective Date (11.10.2019)	/size	units/length
	Scope of Work- Renovation and O&M		
1.1	STP 1 on ASP technology with power Generation	130 MLD	1
1.2	Sump cum Pump house (TEPH)	200 MLD	1
1.3	ССТ	173 MLD	1
1.4	Nawabganj IPS	1.09 MLD	1
1.5	Parmat IPS	54.24 MLD	1
1.6	Baba Ghat / Muar mill IPS	4.03 MLD	1
1.7	Guptar Ghat IPS	1.44 MLD	1
1.8	Jajmau CSPS	136 MLD	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/	No. of
	Schedule Handing Over Date- 01.10.2019	dia./size	units/length
	Scope of Work- O&M		
1.1	STP 2 on ASP technology with power Generation	43 MLD	1
1.2	Sanjaypuram IPS	3.5 MLD	1
1.3	Khalasi lane IPS	45 MLD	1
1.4	Jajmau MPS	25 MLD	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	No. of
	Schedule Handing Over Date- 01.04.2019	/dia. - /size	units/length
	Scope of Work- Renovation and O&M for 15 years	/ 5126	
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.	No.	of
	Schedule Handing Over Date- 11.10.2019	/size	units/length	
	Scope of Work- O&M for 15 years			
1.1	STP on ASP technology	42 MLD	1	
1.2	MPS	42 MLD	1	
1.3	Chakeri IPS	14 MLD	1	
1.4	Sanigawan IPS	14 MLD	1	



6. 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.

- i. transfer of land for STP in Pankha from KDA;
- ii. permission of laying of sewer line along road in Pankha from KDA;
- iii. 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%. Due to COVID-19 nationwide lockdown, progress of work was hampered. Once process of unlock started, the Concessionaire was asked to speed up the work. The Concessionaire submitted revised construction plan compensating relevant construction milestone works with extended timeline. The scheduled date of project completion was 10th October 2021 i.e. 24 months from the effective date. The progress of construction of new STP facilities is given in following headings.

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-3 (From 26th Nov.'20 to 25th Jan'21)			Milestone-4 (From 26th Jan'21 to 25th Mar'21)			Milestone-5 (From 26th Mar'21 to 25th May.'21)		
		% Target	% Achieved	Amount	% Target	% Achieved	Amount	% Target	% Achieved	Amount
Α	Design & Drawing & STP & Sewer Laying works									
	A. On approval of BEP									
	B. On approval of design & drawings for Civil & Sewerage works									
В	CONSTRUCTION									
	STP (30 MLD)									
1	SBR Basin Area									
	CIVIL WORK			-			-			-
	Site Clearance			-			-			-
	Excavation			-			-			-
	PCC			-			-			-
	RCC Foundation/Raft			-			-			-
	Wall 50% of total lift work			-			-			-
	Walls (balance 50% of Total Lift work)	60%	60%	1,47,57,600.00	40%	35%	86,08,600.00			-
	Baffle Walls work			-	75%	75%	92,23,500.00	25%	15%	18,44,700.00
	Walkway/Platform			-			-	50%	10%	12,29,800.00
	Finishing Work			-			-			-
2	Chlorine Contact Tank Area									
	Site Clearance			-			-			-
	Excavation			-			-			-
	PCC			-			-			-
	RCC Foundation/Raft			-			-			-
	Wall 50% of total lift work			-			-			-
	Walls (balance 50% of Total Lift work)	100%	100%	27,67,050.00			-			-
	Baffle Walls work			_	100%	90%	33,20,460.00			-



SN	Description of Items	Milestone-3 (From 26th Nov.'20 to 25th Jan'21)			Milestone-4 (From 26th Jan'21 to 25th Mar'21)			Milestone-5 (From 26th Mar'21 to 25th May.'21)		
		% Target	% Achieved	Amount	% Target	% Achieved	Amount	% Target	% Achieved	Amount
	Finishing Work			-			-	100%		-
3	Chlorination House Area									
	CIVIL WORK									
	Site Clearance			-			-			-
	Excavation			-			-			-
	PCC			-			-			-
	RCC Foundation/Column footing			-			-			-
	Column & Beam	50%	50%	4,61,175.00			-			-
	Ground floor Slab	100%	100%	9,22,350.00			-			-
	Column & Beam			-	100%	100%	9,22,350.00			-
	Roof Slab			-	50%	50%	9,22,350.00	50%	40%	7,37,880.00
	Brickwork & Plaster			-			-	100%	10%	1,84,470.00
	Finishing Work			-			-			-
4	Sludge Thickener Area									
	CIVIL WORK									
	Site Clearance			-			-			-
	Excavation			-			-			-
	PCC			-			-			-
	RCC Foundation wall/base slab			-			-			-
	Wall 50% of total lift work			-			-			-
	Walls (balance 50% of Total Lift work)	60%	60%	16,60,230.00	40%	30%	8,30,115.00			-
	Finishing Work			-			-	100%		-
5	Inlet / Stilling Chamber Area									
	Site Clearance			-			-			-
	Excavation			-			-			-
	PCC			-			-			-



SN	Description of Items	(From 2	Milestone 6th Nov.'20 t	e-3 o 25th Jan'21)	(From 2	Mileston 26th Jan'21 to	e-4 o 25th Mar'21)	(From 2	Milestone 26th Mar'21 to	2-5 25th May.'21)
		% Target	% Achieved	Amount	% Target	% Achieved	Amount	% Target	% Achieved	Amount
	RCC Foundation/Column footing			-			-			-
	Column & Beam	100%	100%	9,22,350.00			-			-
	RCC Slab			-	100%	100%	9,22,350.00			-
	RCC Wall			-			-	100%		-
	Final finishing including Staircases, Railing, Shade, Painting, etc.			-			=			-
6	Manual & Mechanical Fine Bar Screen Chamber Area									
	Site Clearance	100%	100%	50,000.00			-			-
	Excavation	100%	100%	2,45,960.00			-			-
	PCC	100%	100%	3,68,940.00			-			-
	RCC Foundation	100%	100%	12,29,800.00			=			-
	Column & Beam			-	100%	100%	18,44,700.00			-
	RCC Slab			-			-	100%		-
	RCC Wall			-			-			-
	Walkway/Platform			-			-			-
	Finishing Work			-			-			-
7	Grit Chamber (Mechanical Cleaned) & (Manually Cleaned)									
	Site Clearance	100%	100%	50,000.00			-			-
	Excavation	100%	100%	2,45,960.00			-			-
	PCC	100%	100%	3,68,940.00			-			-
	RCC Foundation	100%	100%	12,29,800.00			-			-
	Column & Beam			-	100%	100%	18,44,700.00			-
	RCC Slab			-	100%	40%	4,91,920.00			-
	RCC Wall			-			-	100%		-
	Walkway/Platform			-			-	100%		-
	Finishing Work			-			-			-
8	Flow Measurement Channel Area									



SN	Description of Items	(From 2	Milestone 26th Nov.'20 t	e-3 o 25th Jan'21)	(From 2	Mileston 26th Jan'21 to	e-4 o 25th Mar'21)	(From 2	Milestone 26th Mar'21 to	:-5 25th May.'21)
		% Target	% Achieved	Amount	% Target	% Achieved	Amount	% Target	% Achieved	Amount
	Site Clearance	100%	100%	50,000.00			-			-
	Excavation	100%	100%	2,45,960.00			-			-
	PCC	100%	100%	3,68,940.00			-			-
	RCC Foundation	100%	100%	12,29,800.00			-			-
	Column & Beam			-	100%	90%	16,60,230.00			-
	RCC Slab			-	100%		-			-
	RCC Wall			-			-	100%		-
	Walkway/Platform			-			-			-
	Finishing Work			-			-			-
9	Admin Bldg Area									
	Site Clearance			-			-			-
	Excavation			-			-			-
	PCC			-			-			-
	Column footings/Foundation			-			-			-
	Column & Beam	100%	100%	18,44,700.00			-			-
	Ground Floor Slab			-	100%		-			-
	1st Floor Slab			-			-	50%		-
	Roof Slab			-			-			-
	Brickwork & Plaster			-			-			-
	Finishing Work			-			-			-
				-			-			-
10	Air Blower Room Area									
	Site Clearance			-	100%	100%	1,00,000.00			-
	Excavation			-	100%	100%	3,07,450.00			-
	PCC			-	100%	100%	4,61,175.00			-
	Column footings/Foundation			-	100%	100%	15,37,250.00			-



SN	Description of Items	(From 2	Milestone 6th Nov.'20 to	:-3 o 25th Jan'21)	(From 2	Mileston 26th Jan'21 to	e-4 o 25th Mar'21)	(From 2	Milestone 26th Mar'21 to	e-5 25th May.'21)
		% Target	% Achieved	Amount	% Target	% Achieved	Amount	% Target	% Achieved	Amount
	Column & Beam			-			-	100%	50%	7,68,625.00
	RCC Ground Floor Slab			-			-			-
	RCC Roof Slab			-			-			-
	Brickwork & Plaster			-			-			-
	Finishing Work			-			-			-
11	Staff Quarter Area									
	Site Clearance			-	100%	100%	50,000.00			-
	Excavation			-	100%	100%	3,44,344.00			-
	PCC			-	100%	100%	5,16,516.00			-
	RCC Foundation/column footing			-	100%		-			-
	Column & Beam			-			-	100%		-
	RCC Ground Floor Slab			-			-			-
	RCC Roof Slab			-			-			-
	Brickwork & Plaster			-			-			-
	Electrical work			-			-			-
	Finishing Work			-			-			-
12	Guard Room Area									
	Site Clearance			-	100%	100%	50,000.00			-
	Excavation			-	100%		-			-
	PCC			-	100%		-			-
	RCC Foundation/column footing			=			-	100%		-
	Column & Beam			=			-	100%		-
	RCC Ground Floor Slab			=			-			-
	RCC Roof Slab			-			-			-
	Brickwork & Plaster			=			-			-
	Electrical work			-			-			-



SN	Description of Items	(From 2	Milestone 26th Nov.'20 t	e-3 o 25th Jan'21)	(From 2	Mileston 26th Jan'21 to	e-4) 25th Mar'21)	(From 2	Mileston 26th Mar'21 to	e-5 25th May.'21)
		% Target	% Achieved	Amount	% Target	% Achieved	Amount	% Target	% Achieved	Amount
	Finishing Work			-			-			-
13	Sludge Dewatering System Area (Centrifuge Pump House, Sludge sump & Poly dosing tank)									
	Site Clearance	100%	100%	1,00,000.00			-			-
	Excavation	100%	100%	6,14,900.00			-			-
	PCC	100%	100%	9,22,350.00			-			-
	RCC Foundation			-	100%	100%	15,37,250.00			-
	1st Column & Beam			-	100%	50%	15,37,250.00			-
	Ground Floor Slab			-			-	100%		-
	2nd Column & Beam			-			-	100%		-
	RCC Roof Slab			-			-			-
	Brickwork & Plaster			-			-			-
	Finishing Work			-			-			-
14	Supernatant Recirculation Sump Area									
	Site Clearance			-	100%	100%	50,000.00			-
	Excavation			-	100%	100%	7,37,880.00			-
	PCC			-	100%	100%	11,06,820.00			-
	RCC Foundation wall/base slab			-			-	100%	100%	27,67,050.00
	Wall 50% of total lift work			-			-	100%	100%	27,67,050.00
	Walls (balance 50% of Total Lift work)			-			-			-
	Final finishing including Staircases, Railing, Shade, Painting etc.			-			-	-	-	-
				-			-			-
15	Transformer Yard Area									
	Site Clearance			-	100%		-			-
	Excavation & PCC			-	100%		-			-
	Foundation Work			-			-	100%		-
	Finishing Work			-			-			-



SN	Description of Items	(From 2	Milestone 26th Nov.'20 t	e-3 o 25th Jan'21)	(From 2	Mileston 26th Jan'21 to	e-4) 25th Mar'21)	(From 2	Milestone 26th Mar'21 to	e-5 25th May.'21)
		% Target	% Achieved	Amount	% Target	% Achieved	Amount	% Target	% Achieved	Amount
16	DG Area									
	Site Clearance			-			-	100%		-
	Excavation & PCC			-			-	100%		-
	Foundation Work			-			-	100%		-
	Finishing Work			-			-			-
17	Sludge Storage Platform									
	Site Clearance			-			-	100%		-
	Excavation & PCC			-			-	100%		-
	Foundation Work			-			-	100%		-
	Finishing work			-			-			-
18	EXTERNAL DEVELOPMENT									
A.	Roads, Storm Water Drain & Miscellaneous work			-			-			-
В.	Compound Wall with Gate (As per Approved Drg)									
	Excavation & PCC	20%	20%	12,29,800.00	20%	20%	12,29,800.00			-
	RCC Column footing	20%	20%	12,29,800.00	10%	10%	6,14,900.00	5%	5%	3,07,450.00
	RCC Column & Beam	20%	20%	12,29,800.00	10%	10%	6,14,900.00	5%	5%	3,07,450.00
	Brickwork & Plaster	20%	20%	12,29,800.00	10%	10%	6,14,900.00	20%	20%	12,29,800.00
	Finishing Work			-	20%		-	12%		-
19	MPS-2 (115MLD)									
	CIVIL									
Α	Construction of Raw Sewage Sump									
	Site Clearance			-			-			-
	Excavation			-			-			-
	PCC			-			-			-
	RCC Foundation/Raft	50%	50%	28,76,445.00			-			-
	Wall 50% of total lift work	100%	100%	38,35,260.00			-			-



SN	Description of Items	(From 2	Milestone 26th Nov.'20 to	e-3 o 25th Jan'21)	(From 2	Mileston 26th Jan'21 to	e-4 o 25th Mar'21)	(From 2	Milestone 26th Mar'21 to	e-5 25th May.'21)
		% Target	% Achieved	Amount	% Target	% Achieved	Amount	% Target	% Achieved	Amount
	Column & Beam			-	100%	35%	13,42,341.00			-
	Walls (balance 50% of Total Lift work)			-			-	100%	50%	19,17,630.00
	Ground Floor Slab			-			-			-
	Finishing Work			-			-			-
В	Construction of Inlet Chamber & Screen Channel									
	Site Clearance			-			-			-
	Excavation	100%	100%	6,81,824.00			-			-
	PCC	100%	100%	10,22,736.00			-			-
	RCC Foundation/Raft			-	100%	100%	17,04,560.00			-
	Wall 50% of total lift work			-	100%	50%	8,52,280.00			-
	Walls (balance 50% of Total Lift work)			-			-	100%		-
	Walkway/Platform			-			-			-
С	Construction of Raw Sewage Pump House									
	Column & Beam			-			-			-
	Roof Slab			-			-			-
	Brickwork & Plaster			-			-			-
	Finishing Work			-			-			-
D	MECHANICAL WORK									
20	ICI Nala IPS									
	CIVIL									
Α	Construction of Raw Sewage Sump									
	Site Clearance			-			-			-
	Excavation			-			-			-
	PCC			-			-			-
	RCC Foundation/Raft	50%	50%	12,78,000.00			-			-
	Wall 50% of total lift work	100%	100%	25,56,000.00			-	_		-



SN	Description of Items	(From 2	Milestone 6th Nov.'20 to	2-3 o 25th Jan'21)	(From 2	Milestone 26th Jan'21 to	e-4 25th Mar'21)	(From 2	Milestone 26th Mar'21 to	e-5 25th May.'21)
		% Target	% Achieved	Amount	% Target	% Achieved	Amount	% Target	% Achieved	Amount
	Column & Beam			-	100%		ı			-
	Walls (balance 50% of Total Lift work)			-			-	100%	30%	7,66,800.00
	Ground Floor Slab			-			-			-
	Finishing Work			-			-			-
В	Construction of Inlet Chamber & Screen Channel									
	Site Clearance	100%	100%	50,000.00			-			-
	Excavation	100%	50%	1,70,400.00			-			-
	PCC	100%					-			-
	RCC Foundation/Raft			-	100%		-			-
	Wall 50% of total lift work			-	100%		-			-
	Walls (balance 50% of Total Lift work)			-			-	100%		-
	Walkway/Platform			-			-			-
	Finishing work			-			-			-
С	Construction of Raw Sewage Pump House									
	Column & Beam			-			-			-
	Roof Slab			-			-			-
	Brickwork & Plaster			-			-			-
	Finishing Work			-			-			-
D	Construction of Office Room									
	Site Clearance			-	100%		-			-
	Excavation & PCC			-	100%		-			-
	RCC Foundation/column footing			-			-	100%		-
	Column & Beam			-			-	100%		-
	RCC Ground floor Slab			-			-			-
	RCC Roof Slab			-			-			-
	Brick work & Plaster			-			-			-



SN	Description of Items	(From 2	Milestone 6th Nov.'20 to	:-3 o 25th Jan'21)	(From 2	Milestone 26th Jan'21 to	e-4 25th Mar'21)	(From 2	Milestone 26th Mar'21 to	2-5 25th May.'21)
		% Target	% Achieved	Amount	% Target	% Achieved	Amount	% Target	% Achieved	Amount
	Electrification, plumbing, fixtures			-			-			-
	Finishing work			-			-			-
Е	Construction of Guard Room									
	Site Clearance			-			-	100%		-
	Excavation & PCC			-			-	100%		-
	RCC Foundation/column footing			-			-	100%		-
	Column & Beam			-			-			-
	RCC Ground floor Slab			-			-			-
	RCC Roof Slab			-			-			-
	Brick work & Plaster			-			-			-
	Electrification, plumbing, fixtures			-			-			-
	Finishing work			-			-			-
F	Transformer Yard,DG Yard									
	Site Clearance			-			-	100%		-
	Excavation & PCC			-			-	100%		-
	Foundation Work			-			-	100%		-
	Finishing Work			-			-			-
I	Construction of Boundary wall & Internal Road									
	Site Clearance	100%	100%	-			-			-
	Excavation & PCC	100%	30%	95,881.50			-			-
	RCC Column footing	100%		-			-			-
	RCC Column & Beam			-	100%		-			-
	Brickwork & Plaster			-			-	100%		-
	Finishing			-			-			-
	Construction of Internal road			-			-			-
21	IPS-6 (Sundar Nagar- 20 MLD)-Pankha Area									



SN	Description of Items	(From 2	Milestone 26th Nov.'20 t	e-3 o 25th Jan'21)	(From 2	Mileston 26th Jan'21 to	e-4 o 25th Mar'21)	(From 2	Milestone 26th Mar'21 to	e-5 25th May.'21)
		% Target	% Achieved	Amount	% Target	% Achieved	Amount	% Target	% Achieved	Amount
	CIVIL									
Α	Construction of Raw Sewage Sump									
	Site Clearance			-			-			-
	Excavation			-			-			-
	PCC			-			-			-
	RCC Foundation/Raft	100%	100%	25,56,000.00			-			-
	Wall 50% of total lift work	100%	100%	25,56,000.00			-			-
	Column & Beam			-	100%	40%	10,22,400.00			-
	Walls (balance 50% of Total Lift work)			-			-	100%	25%	6,39,000.00
	Ground Floor Slab			-			-			-
	Finishing Work			-			-			-
В	Construction of Inlet Chamber & Screen Channel									
	Site Clearance	100%		-			-			-
	Excavation & PCC	100%	100%	4,26,000.00			-			-
	RCC Foundation/Raft	100%	80%	3,40,800.00			-			-
	Wall 50% of total lift work			-	100%	20%	85,200.00			-
	Walls (balance 50% of Total Lift work)			-			-	100%		-
	Walkway/Platform			-			-			-
	Finishing work			-			-			-
С	Construction of Raw Sewage Pump House									
	Column & Beam			-			-			-
	Roof Slab			-			-			-
	Brickwork & Plaster			-			-			-
	Finishing Work			-			-			-
D	Construction of Office Room									
	Site Clearance	100%	100%	-			-			-



SN	Description of Items	(From 2	Milestone 26th Nov.'20 to	:-3 o 25th Jan'21)	(From 2	Milestone 26th Jan'21 to	e-4 9 25th Mar'21)	(From 2	Milestone 26th Mar'21 to	e-5 25th May.'21)
		% Target	% Achieved	Amount	% Target	% Achieved	Amount	% Target	% Achieved	Amount
	Excavation & PCC	100%	100%	2,13,000.00			-			-
	RCC Foundation/column footing	100%		1			-			-
	Column & Beam	100%		1			-			-
	RCC Ground floor Slab			-	100%		-			-
	RCC Roof Slab			-			-	100%		-
	Brick work & Plaster			-			-	100%		-
	Electrification, plumbing, fixtures			-			-			-
	Finishing work			-			-			-
Е	Construction of Guard Room									
	Site Clearance	100%		-			-			-
	Excavation & PCC	100%	100%	2,13,000.00			-			-
	RCC Foundation/column footing	100%	100%	6,39,000.00			-			-
	Column & Beam	100%		-			-			-
	RCC Ground floor Slab			-	100%		_			-
	RCC Roof Slab			-			_	100%		-
	Brick work & Plaster			-			-	100%		-
	Electrification, plumbing, fixtures			-			-			-
	Finishing work			-			-			-
F	Transformer Yard, DG Yard									
	Site Clearance	100%		-			-			-
	Excavation & PCC	100%		-			-			-
	Foundation Work			-	100%		-			-
	Finishing Work			-	100%		-			-
ı	Construction of Boundary wall & Internal Road									
	Site Clearance			-	100%		-			-
	Excavation & PCC			-	100%		-			-



SN	Description of Items	(From 2	Milestone 6th Nov.'20 t	e-3 o 25th Jan'21)	(From 2	Mileston 26th Jan'21 to	e-4 9 25th Mar'21)	(From 2	Milestone 26th Mar'21 to	r'21 to 25th May.'21)	
		% Target	% Achieved	Amount	% Target	% Achieved	Amount	% Target	% Achieved	Amount	
	RCC Column footing			-			-	100%		1	
	RCC Column & Beam			-			-			-	
	Brickwork & Plaster			-			-			-	
	Construction of Internal road			-			-			-	
	Finishing			-			-			-	
22	I&D Works										
Α	ICI Nala										
	Construction Work	67%	67%	14,90,080.00	20%	16%	3,55,840.00			-	
	Tapping of Nallahs			-	55%		-	45%		-	
	Electro-Mechanical work			-			-			-	
	Testing			-			-			-	
В	Thermal Nala -A										
	Construction Work	67%	55%	12,23,200.00	20%		-			-	
	Tapping of Nallahs			-	55%		-	45%		-	
	Electro-Mechanical work			-			-			-	
	Testing			-			-			-	
С	Thermal Nala -B										
	Construction Work	63%		-	23%		-			-	
	Tapping of Nallahs			-	55%		-	45%		-	
	Electro-Mechanical work			-			-			-	
	Testing			-			-			-	
23	Rising Main Works										
Α	ICI Nala Area										
	Site Clearance from Client	50%		-	50%		-			-	
	Supply of Pipes			-	25%	6.25%	3,18,750.00	20%	6.25%	3,18,750.00	
	Excavation, Laying & backfilling of Pipes			-	18%		-	20%		=	



SN	Description of Items	(From 2	Mileston	e-3 :o 25th Jan'21)	(From 2	Milestone 26th Jan'21 to	e-4 25th Mar'21)	(From 2	Milestone 26th Mar'21 to	2-5 25th May.'21)
		% Target	% Achieved	Amount	% Target	% Achieved	Amount	% Target	% Achieved	Amount
	Testing			-			-	15%		-
В	Sundar Nagar IPS Area									
	Site Clearance from Client	50%		-	50%		-			-
	Supply of Pipes			-	25%		-	20%		-
	Excavation, Laying & backfilling of Pipes			-	18%		-	20%		-
	Testing			-			-	15%		-
24	Sewer System Area (RCC Pipes-NP3 Types)									
	Site Clearance	20%		-	20%		-	10%		-
	Supply of pipes	29%	29%	4,65,31,738.88	20%		-	7%		-
	Excavation and Laying of pipes including bed preparation & backfilling	35%	25%	25,07,098.00	20%		-	10%		-
	Manholes	35%	18%	18,05,110.56	15%		-	10%		-
	Testing			-			-			-
	Road Restoration work			-			-			-
25	Design, Supply, Testing & Commissioning of Sewer line (crossing National Highway-2 & Railway Track)									
	Statutory approvals from Railway & Road dept	50%		-			-			-
	Supply of Carrier & Casing Pipes	50%		-	40%		-	10%		-
	Construction of Pit	55%		-			_			-
	Excavation & Laying of Pipes thru Jack push method	45%		-	30%		_	15%		-
	Testing			-			-			-
26	Design ,Supply,Testing & Commissioning of Treated Effulent line from STP to River Pandu									
•	Site Clearance			-			-			-
	Construction of Effluent line from STP to River Pandu			-			-			-
	Testing			-			-			-
	TRIAL RUN & COMMISSIONING									
	Trial Run & Commissioning									



	SN	Description of Items	(From 2	Milestone-3 (From 26th Nov.'20 to 25th Jan'21)			Mileston 26th Jan'21 to	e-4 o 25th Mar'21)	Milestone-5 (From 26th Mar'21 to 25th May.'21)		
			% Target	% Achieved	Amount	% Target	% Achieved	Amount	% Target	% Achieved	Amount
		Total Amount			10,86,43,578.94			4,76,83,081.00			1,57,86,455.00
Ī	•										

Milestone	Target Value	Achieved till 30.04.2021	Remarks	
1st milestone	1248,39,750.00	1248,39,750.00	100.00%	
2nd milestone	1248,39,750.00	1204,11,721.90	96.45%	
3rd Milestone	1248,39,750.00	10,86,43,578.94	87.00%	
4th Milestone	1248,39,750.00	4,76,83,081.00	38.20%	
5th Milestone	1248,39,750.00	1,57,86,455.00	12.64%	
6th milestone	1248,39,750.00	-	-	
7th milestone	1248,39,750.00	1	-	
8th milestone	1248,39,750.00	1	-	
Overall Progress	9987,18,000.00	417,364,586.84	41.79%	
Total %	100.00%	42.00%		

*Note:

- i. 3rd milestone (12.5%) completion was due on 25.01.2021 but it was completed on 22.02.2021 due to unforeseen reasons.
- ii. Works of sewer laying are lagging behind schedule. There is delay in clearance for road cutting from KDA at some parts;
- iii. 4^{th} milestone was due on 25.03.2021. The Concessionaire was asked to complete the milestone by completing other works of $4^{th}/5^{th}$ Milestone and submit a revised construction plan for the same.
- iv. Total Progress till 30.04.2021 (including works of 4^{th} and 5^{th} milestone) is 42.00% out of 57.29%.



PHOTOGRAPHS OF PANKHA STP SITE



1200 dia pipe laying during GM visit



MPS and Receiving chamber





Supernatant Sump



I&D Thermal Nalla A





Tonner (Chlorination) room



IPS Sundar Nagar



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

SN	Description of Items	BOQ Amount	OQ Amount Milestone-2 (Achieved) 26th Sep'20 to 25th No		Milestone-3 (Achieved) From 26th Nov.'20 to 25th Mar'21		Milestone-4 From 26th Mar'21 to 05 May'21			
			%	Amount	%	Amount	% Target	Achieved	Amount	
ı	Design & Drawing & STP & Sewer Laying works									
1	On approval of BEP	191,34,500.00								
2	On approval of design & drawings for Civil & Sewerage works	191,34,500.00	75%	143,50,875.00						
II	CONSTRUCTION									
Α	UNNAO STP (15 MLD)									
i)	SBR Basin Area									
1	Site Clearance	5,00,000.00		-		-				
2	Excavation wall footing	22,46,137.60		-		-			-	
3	PCC wall footing	27,46,137.60		-		-			-	
4	RCC Foundation/Raft of wall	54,92,275.20	100%	54,92,275.20		-			-	
5	Wall 50% of total upto base slab	54,92,275.20	20%	10,98,455.04	80%	43,93,820.16			-	
6	Walls (balance 50% of upto base slab)	54,92,275.20		-	100%	54,92,275.20			-	
7	PCC Base Slab	27,46,137.60		-	100%	27,46,137.60			-	
8	RCC Foundation base slab	27,46,137.60		-	25%	6,86,534.40	75%	55%	15,10,375.68	
9	Wall 50% of total lift work	27,46,137.60		-		-			-	
10	Walls (balance 50% of Total Lift work)	27,46,137.60		-		-			-	
11	Walkway/Platform	27,46,137.60		-		-			-	
12	Piping & fitting works	21,96,910.08		-		-			-	
13	Testing /Finishing works	36,80,000.00		-		-			-	
ii	Sludge Thickener Area									
1	Site Clearance	1,50,000.00		-		-			-	
2	Excavation	3,64,900.80		-		_			-	

SN	Description of Items	BOQ Amount		Milestone-2 (Achieved) From 26th Sep'20 to 25th Nov.'20		Milestone-3 (Achieved) From 26th Nov.'20 to 25th Mar'21		From 26th Mar'21 to 05 May'21
3	PCC	5,14,900.80	50%	2,57,450.40		_		-
4	RCC Foundation Wall/base slab	6,86,534.40	50%	3,43,267.20	50%	3,43,267.20		-
5	Wall 50% of total lift work	6,86,534.40	100%	6,86,534.40		-		-
6	Walls (balance 50% of Total Lift work)	3,78,534.20		-	75%	2,83,900.65	25%	-
7	Testing /Finishing works	3,08,000.00		-		-		-
iii	Supernatant Sump Area							
1	Site Clearance	1,00,000.00		-		-		_
2	Excavation	1,14,422.40		-		-		-
3	PCC	1,14,422.40		-		-		-
4	RCC Foundation wall/base slab	1,28,844.80		-		-		-
5	Wall 50% of total lift work	1,43,044.80	100%	1,43,044.80		-		-
6	Walls (balance 50% of Total Lift work)	1,71,633.60		-	100%	1,71,633.60		_
7	Testing /Finishing works	85,800.00		-		-	100%	-
iv	Chlorination Tank Area							
1	Site Clearance	1,50,000.00		-		-		_
2	Excavation	4,22,112.00		-		-		-
3	PCC	5,72,112.00		-		-		-
4	RCC Foundation/Raft	9,15,000.00		-		-		-
5	Wall 50% of total lift work	8,58,168.00	100%	8,58,168.00		-		-
6	Walls (balance 50% of Total Lift work)	8,58,168.00		-	100%	8,58,168.00		_
7	Baffle Walls work	3,44,336.00		-	100%	3,44,336.00		-
8	Testing /Finishing works	4,57,000.00		-		-	100%	-
V	Air Blower Room Area							
1	Site Clearance	2,50,000.00		-		-		-
2	Excavation	3,43,267.20		-		-		-
3	PCC	3,43,267.20		-		-		-
4	RCC Foundation/column footing	6,86,534.40	100%	6,86,534.40		-		-
5	Column & Beam	6,29,801.60	100%	6,29,801.60		-		-
6	RCC Ground floor Grade Slab	6,86,534.40		-		-	100%	-
7	Cable Trench Work	6,86,534.40		-		-	100%	-
8	RCC Roof Slab	8,29,801.60		-		_	100%	_

SN	Description of Items	BOQ Amount	Milestone-2 (Achieved) From 26th Sep'20 to 25th Nov.'20 Milestone-3 (Achieved) From 26th Nov.'20 to 25th Mar'21		Milestone-4 From 26th Mar'21 to 05 May'21			
9	Brick work	6,25,168.00		-		_		-
10	Plaster	1,71,633.60		-		-		-
11	Testing/Finishing work	5,83,000.00		-		-		-
vi	Staff Quarter Area (G+1)							
1	Site Clearance	50,000.00		-		-		-
2	Excavation	71,000.00		-		-		-
3	PCC	71,000.00		-		-		-
4	RCC Foundation/column footing	92,000.00		-		-		-
5	Column & Beam	92,000.00	100%	92,000.00		-		-
6	RCC Ground floor Slab	92,000.00	100%	92,000.00		-		-
7	RCC 1st floor Slab	92,000.00		-	100%	92,000.00		-
8	RCC Roof Slab	92,000.00		-	100%	92,000.00		-
9	Brick work	67,000.00		-		-	100%	-
10	Plaster	67,000.00		-		-		-
11	Plumbing, fixtures , sanitary works, AC work	67,000.00		-		-		_
12	Electrification work	33,500.00		-		-		-
13	Finishing works	33,500.00		-		-		-
vii	Guard Room Area							
1	Site Clearance	50,000.00		-		-		-
2	Excavation	82,211.20		-		-		-
3	PCC	82,211.20		-		-		-
4	RCC Foundation/column footing	1,14,422.40		=		-		-
5	Column & Beam	1,14,422.40		-		-		-
6	RCC Ground floor Slab	1,14,422.40		-		-		-
7	RCC Roof Slab	1,14,422.40	100%	1,14,422.40		-		-
8	Brick work	1,14,422.40	100%	1,14,422.40		-		-
9	Plaster	1,14,422.40		-	100%	1,14,422.40		-
10	Plumbing, fixtures	1,14,422.40		-		-	100%	-
11	Sanitary works, AC work	64,422.40		-		-	100%	-
12	Electrification work	32,211.00		-		-		-
13	Finishing works	32,211.00		-		-		-
viii	Chlorination Room Area							

SN	Description of Items	BOQ Amount		e-2 (Achieved) From o'20 to 25th Nov.'20		3 (Achieved) From 20 to 25th Mar'21	Milestone-4 From 26th Mar'21 to		Mar'21 to 05 May'21
1	Site Clearance	1,50,000.00		-		-			-
2	Excavation	4,57,689.60		-		_			-
3	PCC	4,57,689.60	50%	2,28,844.80		-			-
4	RCC Foundation/Column footing	4,57,689.60	100%	4,57,689.60		-			-
5	Column & Beam	4,57,689.60	100%	4,57,689.60		-			-
6	Ground floor Slab	6,86,534.40	18.31%	1,25,672.96	81.69%	5,60,861.44			-
7	Roof Slab	4,86,534.40		-	50%	2,43,267.20	50%	50%	2,43,267.20
8	Brickwork	2,96,689.60		-		-	100%		-
9	Plaster	2,57,689.60		-		-			-
10	Testing/Finishing works	4,11,000.00		-		-			-
ix	Admin Bldg Area (G+1)								
1	Site Clearance			-	100%	-			-
2	Excavation	78,958.70		-	100%	78,958.70			-
3	PCC	78,958.70		-	100%	78,958.70			-
4	Column footings/Foundation	1,18,438.05		-	50%	59,219.03	50%		-
5	Column & Beam up to First Floor	1,18,438.05		-		-			-
6	Ground Floor Slab	1,35,357.77		-		-			-
7	1st Floor Slab	1,35,357.77		-		-			-
8	Column & Beam First Floor to Roof Slab	1,18,438.05		-		-			-
9	Roof Slab	1,35,357.77		-		-			-
10	Brickwork	1,35,357.77		-		-			-
11	Plaster	1,06,594.69		-		-			-
12	Electrification, plumbing, fixtures , sanitary works, AC work	94,750.00		-		-			-
13	finishing works	1,39,000.00		-		_			-
х	Sludge Dewatering System Area (Centrifuge Pump House, Sludge sump & Poly dosing tank)								
1	Site Clearance	1,50,000.00	100%	1,50,000.00		-			-
2	Excavation	1,84,788.00		-	100%	1,84,788.00			-
3	PCC	1,84,788.00		-	100%	1,84,788.00			-
4	RCC Foundation	3,69,576.00		-	100%	3,69,576.00			-
5	Column & Beam Upto First Floor	3,69,576.00		-	100%	3,69,576.00			-

SN	Description of Items	Description of Items BOQ Amount		Milestone-2 (Achieved) From 26th Sep'20 to 25th Nov.'20		Milestone-3 (Achieved) From 26th Nov.'20 to 25th Mar'21		Milestone-4 From 26th Mar'21 to 05 May'21	
6	Ground Floor Slab	3,69,576.00		-		-	100%	-	
7	First Floor Slab	3,19,576.00		-		-		-	
8	Column & Beam First Floor to Roof Slab	3,38,576.00		-	100%	3,38,576.00		-	
9	Roof Slab	3,19,576.00		-		-		-	
10	Brickwork	1,84,788.00		-		-		_	
11	Plaster	1,84,788.00		-		-		-	
12	Piping & fiittings Work	1,84,364.00		-		-		-	
13	Testing/Finishing works	3,51,000.00		-		-		-	
xi	Inlet Chamber Area								
1	Site Clearance	1,50,000.00	100%	1,50,000.00		-		-	
2	Excavation & PCC	2,09,217.60		-	50%	1,04,608.80	50%	-	
3	RCC Foundation/Column footing	4,18,435.20		-		-	100%	-	
4	Column & Beam	3,13,826.40		-		-	100%	-	
5	RCC Slab	3,13,826.40		-		-		-	
6	RCC Wall	2,89,652.40		-		-		-	
7	Testing/Finishing works	1,88,000.00		-		-		-	
xii	Manual & Mechanica Fine Bar Screen Chamber AreaArea								
1	Site Clearance	1,50,000.00	100%	1,50,000.00		-		-	
2	Excavation	1,21,633.60		-	100%	1,21,633.60		-	
3	PCC	1,57,450.40		-		-	100%	-	
4	RCC Foundation	1,82,450.40		-		-	100%	-	
5	Column & Beam	1,82,450.40		-		-	100%	-	
6	RCC Slab	2,57,450.40		-		-		-	
7	RCC Wall	1,71,633.60		-		-		-	
8	Walkway/Platform	1,67,633.60		-		-		_	
9	Testing/Finishing works	1,54,000.00		-		-		_	
xiii	Grit Chamber Area								
1	Site Clearance	1,50,000.00	100%	1,50,000.00		-		-	
2	Excavation	2,23,844.80		-	100%	2,23,844.80		_	
3	PCC	2,68,267.20		-		_	100%	_	
4	RCC Foundation	2,68,267.20		-		_	100%	_	

SN	Description of Items	Description of Items BOQ Amount		Milestone-2 (Achieved) From 26th Sep'20 to 25th Nov.'20		Milestone-3 (Achieved) From 26th Nov.'20 to 25th Mar'21		Milestone-4 From 26th Mar'21 to 05 May'21		
5	Column & Beam	2,43,267.20		-		_	100%		-	
6	RCC Slab	2,43,267.20		-		_			-	
7	RCC Wall	2,28,844.80		-		_			-	
8	Walkway/Platform	2,28,844.80		-		_			-	
9	Testing/Finishing works	1,85,400.00		-		-			-	
xiv	Parshall Flume Channel Area									
1	Site Clearance	1,50,000.00	100%	1,50,000.00		-			-	
2	Excavation	2,43,267.20		-	100%	2,43,267.20			-	
3	PCC	2,93,267.20		-		_	100%		-	
4	RCC Foundation	3,43,267.20		-		-	100%		-	
5	Column & Beam	3,43,267.20		-		-	100%		-	
6	RCC Slab	3,43,267.20		-		-			-	
7	RCC Wall	3,43,267.20		-		-			-	
8	Walkway/Platform	3,43,267.20		-		-			-	
9	Piping & fitting Work	1,71,633.60		-		_			-	
10	Testing	2,57,400.00		-		-			-	
XV	Sludge Storage Platform Area									
1	Site Clearance	1,00,000.00	100%	1,00,000.00		-			-	
2	Excavation	1,00,000.00		-		-			-	
3	PCC	2,50,000.00		-		-			-	
4	Foundation Work	3,00,000.00		-		-			-	
5	Finishing work	1,50,000.00		-		_			-	
xvi	Transformer Yard Area									
1	Site Clearance			-		-			-	
2	Excavation	3,88,045.00		-		-			-	
3	PCC	3,88,045.00		-		-			-	
4	Foundation Work	3,88,045.00		-		-			-	
xvii	DG Shed Area									
1	Site Clearance			-		-			-	
2	Excavation	4,36,555.00		-		-			-	
3	PCC	4,36,555.00		-		-			-	
4	Foundation Work	4,36,555.00		-		_			-	

SN	Description of Items	BOQ Amount		ne-2 (Achieved) From p'20 to 25th Nov.'20		3 (Achieved) From 20 to 25th Mar'21	Milestone-4 From 26th Mar'21 to 05 May'21			
xviii	EXTERNAL DEVELOPMENT									
	Boundary Wall with Gate									
1	Site Clearance			-		-			-	
2	Excavation	3,34,750.00	50%	1,67,375.00	10%	33,475.00			-	
3	PCC	5,02,125.00	45%	2,25,956.25		-			-	
4	RCC Column footing	5,02,125.00	45%	2,25,956.25		-	15%		-	
5	RCC Column & Beam	5,02,125.00	25%	1,25,531.25	19%	95,631.70	15%		-	
6	Brickwork	5,02,125.00	35%	1,75,743.75	20%	1,00,425.00	16%		-	
7	Plaster	5,02,125.00		-	20%	1,00,425.00	22%		-	
8	Retaining wall	16,02,550.00		-		-	15%		-	
9	Finishing Work	5,02,125.00		-		-	15%		-	
	Earthfilling, Internal Roads ,Landscaping									
1	Earthfilling, Internal Roads ,Landscaping	17,48,800.00		-		-			-	
С	MPS-40 MLD									
	Civil Work									
i	Construction of Raw Sewage Sump									
1	Site Clearance	5,00,000.00		-					-	
2	Excavation	15,91,480.00	30%	4,77,444.00	70%	11,14,036.00			-	
3	PCC	5,91,480.00		-	100%	5,91,480.00			-	
4	RCC Foundation/Raft	6,87,220.00		-		-	100%	20%	1,37,444.00	
5	Wall 50% of total lift work	6,87,220.00		-		-			-	
6	Walls (balance 50% of Total Lift work)	8,87,220.00		-		-			-	
7	Column & Beam	7,87,220.00		-		-			-	
8	Ground Floor Slab	5,91,480.00		-		-			-	
9	Testing/Finishing work	5,91,480.00		-		-			-	
ii	Construction of Raw Sewage Pump House									
1	Column & Beam	9,24,187.50		-		-			-	
2	Roof Slab	9,24,187.50		-		-			-	
3	Brickwork	9,24,187.50		-		-			-	
4	Plaster	9,24,187.50		-		-			-	

SN	Description of Items	BOQ Amount		ne-2 (Achieved) From p'20 to 25th Nov.'20		3 (Achieved) From 20 to 25th Mar'21	Milesto	ne-4 From 26th	Mar'21 to 05 May'21
iii	Construction of Inlet Chamber & Screen Channel								
1	Site Clearance	1,50,000.00		-		-			-
2	Excavation	1,84,837.50		-	100%	1,84,837.50			-
3	PCC	1,84,837.50		-		-	100%		-
4	RCC Foundation/Raft	1,84,837.50		-		_	100%		-
5	Wall 50% of total lift work	1,84,837.50		-		-			-
6	Walls (balance 50% of Total Lift work)	1,84,837.50		-		-			-
7	Column & Beam	1,51,504.17		-		_			-
8	Ground Floor Slab	1,84,837.50		-		-			-
9	Walkway/Platform	1,84,837.50		-		-			-
10	Testing/Finishing work	1,59,500.00		-		-			-
D	SEWER SYSTEM AREA (3.2 Km)								
1	Site Clearance			-		-			-
				-		-			-
2	Supply of pipes	553,11,702.00	35%	193,59,095.70	43%	237,83,650.90	2%	1.20%	6,63,740.42
3	Excavation and Laying of pipes including bed preperation & backfilling	55,31,170.20		-	6.0%	3,31,870.21	1.40/		
4	Manholes	36,87,446.80		-		-	14% 10%	11.96%	6,61,768.12
5	Flow/Hydroulic Testing	73,74,893.60		-		-	10%		-
6	Road restoration work	18,43,723.40		-		-			-
E	RISING MAIN PIPING WORK (100 m)					_			_
1	Site Clearance			-		_			_
2	Supply of pipes	5,48,000.00		-		_			_
3	Cutting, Excavtion, Laying of Pipes, backfilling	68,500.00		-		-			-
4	Testing	68,500.00		-		-			-
F	EFFLUENT DISPOSAL SYSTEM								
									-
1	Site Clearance			-		-			-
2	Construction of Effluent Channel from Distribution Chamber to Agriculture Land	15,11,999.97		-		-			-

SN	Description of Items	BOQ Amount	Milestone-2 (Achieved) Fro 26th Sep'20 to 25th Nov.'2		e-3 (Achieved) From v.'20 to 25th Mar'21	Milestor	ne-4 From 26th I	Mar'21 to 05 May'21
3	Construction of Rectangular Channel from STP to Distribution Chamber	11,33,999.98	-		-			-
4	Construction of Distribution Chamber	11,33,999.98	-		-			-
G	E&M WORK							
i)	GRIT CHAMBER AREA		-		-			
	A. On supply - Grit Scraper Mechanism	21,60,000.00	-	100%	21,60,000.00		100%	21,60,000.00
	B. On Installation - Grit Scraper Mechanism	5,40,000.00	-		-			-
v)	MEP		-		-			
	A.Supply - Screen	76,00,000.00	-		-	100%		-
	B.Installation - Screen		-		-			-
	C.Supply - Hoist	7,00,000.00	-		-		100%	5,60,000.00
	D.Installation - Hoist		-		-			-
	E.Supply - Pumps & Motors(MEP)	1,16,00,000.00	-		-	100%		-
	F.Installation - Pumps & Motors(MEP)		-		-			-
	G.Supply - Gate & Valves(MPS)	52,00,000.00				100%		-
	H.Installation - Gate & Valves(MPS)		-		-			-
	I.Supply Instruments(like flow meter, Guages, level, Transmiter)	32,00,000.00	-		-			-
	J.Installation - Instruments(like flow meter, Guages, level, Transmiter)		-		-			-
vii)	FINE SCREEN AREA		-		-			
	A.On supply -Fine Screen	32,00,000.00	-		-	100%		-
	B.On Installation -Fine Screen		-		-			-
viii)	SBR BASIN AREA		-		-			
	A.On supply - Decanter Equipment	193,00,000.00	-		-			-
	B.Installation - Decanter Equipment		-		-			-
	C.On supply - Diffuser	193,00,000.00	-		-			-
	D.On Installation - Diffuser		-		-			-
	E.On supply - RAS Pump, SAS Pump	54,00,000.00	-		-	100%		-

SN	Description of Items	BOQ Amount	one-2 (Achieved) From Sep'20 to 25th Nov.'20		3 (Achieved) From 20 to 25th Mar'21	Milesto	ne-4 From 26th	Mar'21 to 05 May'21				
	F.On Installation - RAS Pump, SAS Pump		-		-			_				
	G.On supply - Chain Pulley Block	5,60,000.00	-	100%	5,60,000.00			-				
	H.On Installation - Chain Pulley Block	1,40,000.00	-		-			-				
x)	CHLORINATION ROOM AREA		-		-			-				
	A.Supply - Chlorination system(Dosing pumps, chlorinators, Tonners, Chemicals & Piping work	29,00,000.00	-		-			-				
	B. Installation - Chlorination system(Dosing pumps, chlorinators, Tonnes, Chemicals & Piping work		-		-			-				
	C.Supply - Chlorine Neutralization Tank	5,00,000.00	-		-			-				
	D.Installation - Chlorine Neutralization tank		-		-			-				
	E.Supply - Hoist Work	7,00,000.00	-		-		100%	5,60,000.00				
	F.Installation - Hoist Work		-		-			-				
xi)	CENTRIFUGE HOUSE & FEED PUMP AREA							-				
	A.On supply -Centrifuge & Feed Pump	1,03,00,000.00	-		-	100%	100%	82,40,000.00				
	B.On Installation -Centrifuge & Feed Pump		_		_			_				
III	TRIAL RUN & COMMISSIONING											
1	Trial Run & Commissioning											
		3826,90,000.00	478,36,250.00		478,36,250.00			14736595.42				
	Progress out of target of 12.5% for each milestone		12.50%		12.50%			3.85%				
	Total Progress up to 3 rd Milestone		41.35%									

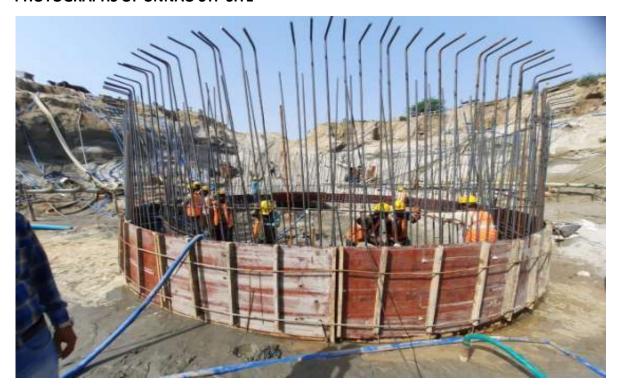


*Note:

- i. 3rd milestone (12.5%) completion was due on 25.01.2021 but due to land acquisition issue of proposed I&D works; it was completed on 25.03.2021;
- ii. The Concessionaire was asked to complete the milestone by completing other works of $4^{th}/5^{th}$ milestones and submit a revised construction plan for the same. Revised construction plan submitted having 4^{th} milestone revised completion date as 05.05.2021 and the same has been principally approved;
- iii. Total Progress till 30.04.2021 is 41.35% out of target 48.45%.



PHOTOGRAPHS OF UNNAO STP SITE



MPS steel binding work



SBR Raft casting work





MPS wall 3rd lift RCC



SBR floor curing





Safety Awareness Drive



Staff Quarter





CCT Building Roof Slab



Sewer laying



6.3 WORK PROGRESS AT SHUKLAGANJ STP

- ➤ CTE from the UPPCB has been received on 10.07.2020 (Ref No. 97724/UPPCB/Unnao (UPPCBRO)/CTE/UNNAO/2020 Dated 07/07/2020).
- > Shuklaganj site clearance has been done on 18.01.2020.
- Excavation works related to the boundary wall of proposed STP has been started;
- Footing marking completed SBR side;
- > BEP vetting and approval is in progress.



CE UPJN, Lucknow visit dated 09.04.2021



Boundary Wall excavation work





Fencing of the STP site



Boundary Wall excavation work



7. PRESENT STATUS AND ISSUES OF HAM PROJECT KANPUR

7.1 PANKHA 30 MLD STP FACILITIES

- Total averagely 90 nos. of manpower / workers were deployed at the site. The number of workers should be increased to about 150 to achieve further targets / milestones on time;
- 1st and 2nd milestone have been completed;
- > 3rd milestone was due on 25.01.2021 which was completed on 22.02.2021 (37.5%);
- ➤ Works of 4th & 5th milestone are in progress. Till 30.04.2021, 42.0% progress has been done.
- The Concessionaire submitted revised construction plan asking 2 months time extension (revised date for completion of 8th milestone is 25.10.2021);
- Works of sewer laying are not completed. There was delay in clearance for road cutting from KDA at some parts;
- Now permission has been granted from KDA for Road cutting. Total 3.91 kms lines has been laid against 16.62 Kms.
- Progress is slow. KRMPL need to expedite construction works to achieve timely completion of the project.

7.2 UNNAO 15 MLD STP FACILITIES

- Total averagely 60 nos. of manpower / workers were deployed at the site. The number of workers should be increased to about 120 to achieve further targets / milestones on time.
- 1st and 2nd milestone have been completed;
- ➤ 3rd milestone was due on 25.01.2021 which was completed on 25.03.2021. Total progress up to 30.04.2021 is 41.5%.
- ➤ Acquisition of land for I&D structure is in progress, necessary amount for the purchase has been sanctioned by the competent authority;
- Works of sewer laying started from MPS side. Approx 600 m sewer has been laid out of 3.2 kms.
- 4th milestone completion is due on 5th May 2021 (as per revised construction plan);
- ➤ KRMPL need to expedite the works and simultaneously work on more fronts to achieve targets on time.
- ➤ KRMPL submitted revised construction plan (R2) on 12.03.2021 which has been vetted by PE and in principally approved by UPJN.
- ➤ Entrance gates (1 main gate + 1 alternate), Internal roads, staff quarter and labor huts with all basic facilities need to be constructed by the Concessionaire on urgent basis.
- Number of CCTVs units need to be increased from at present 2 nos. to minimum 4 nos.



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

All BEPs approved except Control philosophy and observations on the control philosophy has been submitted by PE on 09.04.2021.

i. Handover of 130 MLD STP Jajmau Ph-I

130 MLD Jajmau STP and CSPS has been handed over to KRMPL on 01/03/2021 but as per CA schedule handing over date for Jajmau Facilities is Effective Date. Associated facilities i.e. IPSs have not been taken over by KRMPL yet.

ii. Compliance of Inspection Report

UPJN inspected 130 MLD Jajmau on 05.03.2021 and issued Inspection report vide their letter no. 546/w-30/20 dated 05.03.2021 but no compliance report has been submitted by Concessionaire.

PE inspected 130 MLD STP Jajmau along with UPJN officials on 16.03.2021 and submitted a draft inspection report to UPJN vide email dated 20.03.2021 and the same has been official issued by UPJN vide letter no. 798/w-30/38 dated 07.04.2021 (Inspection report attached). Compliance report on the inspection done on 16.03.2021 has not been submitted by KRMPL till the end of April 2021.

- **iii. Control / Power Cable and sizing calculation:** Concessionaire had submitted the compliances regarding control / power cable vide email dated 28.04.2021 and PE recommends it for approval after review vide letter no. 807 dated 29.04.2021.
- iv. Action / Renovation plan: Renovation plan has been submitted by Concessionaire vide letter no. 1187 dated 22.04.2021 which is under review by PE.

v. Treated Effluent Pump

Minimum 08 nos. of Treated effluent pumps should be available / operational in TEPH at all the time at 130 MLD STP but only 7 pumps are operational till the end of April 2021.

NOTE: It is also directed to concessionaire not to discharge untreated sewage directly into the river without treatment as per PCB & UPPCB norms.

7.4 43 MLD JAJMAU (PHASE II): O&M

Handover of the 43 MLD STP Jajmau Ph-II is pending and KRMPL is emphasizing to take over the plant on compliance of Joint inspection report submitted by them vide their letter no. 854 dated 11.01.2021.

43 MLD STP plant should be taken immediately on the basis of CA para 3.8 a) "as is where is" basis.



7.5 42 MLD SAJARI STP

42 MLD Sajari facilities were handed over to KRMPL on 29/05/2019 but as per CA schedule handing over date for Sajari Facilities is Effective Date i.e. 11/10/2019. Therefore, ultimate handing over date of Sajari has been treated as effective date i.e. 11.10.2019. 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. Mr. Madhav Kumar NMCG requested Mr. S. Kamaraju, Process Expert STC to visit the Sajari Plant to give his recommendations. Mr. S. Kamaraju Process Expert visited the Sajari Plant on 27-28 Dec 2019 and concluded that the Sajari Plant is designed for all 12 aerators to run without any standby but the plant was being run with 8 aerators only keeping 4 aerators as stand by. All the 12 aerators got functional on 04/01/2020 in the presence of Mr. J. P. Tripathi, O & M Engineer STC. After that it has been observed that since 04/01/2020 all the parameters of treated effluent are within prescribed limits except for the days when parameters of raw sewage are above the prescribed limits for which concessionaire is not responsible. Hence there is no need for any improvement in the plant as suggested by KRMPL.

Commercial Operation Date was declare as 20.06.2020 vide UPJN letter no. 1545/w-20/127 dated 17.06.2020, and again revised as 11.10.2019 i.e. effective date of the CA by UPJN vide their letter no. 2574/w-20/267 dated 26.09.2020.0&M charges from 11.10.2019 to sept.2020 have been paid to the concessionaire.

Following points are to be addressed by the KRMPL:-

I. Compliance of Inspection Reports

PE again inspected 42 MLD STP Sajari on 27.04.2021 and found some defects and deficiencies (Inspection Report Enclosed). 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.

II. O&M Manual

O&M Manual already approved by UP Jal Nigam.

III. Insurance Policies

Even after instructions by ED (Project) NMCG and by SMCG. KRMPL has not submitted Insurance Policies as per article 11.2 except All Risk Industrial Insurance Policy. KRMPL is required to submit all 5 insurance policies as per article 11.2. As per MOM of NMCG Review Meeting dated 05.03.2021 by the Video conferencing was conducted between KRMPL Head Office Mumbai and STC Head Office Mumbai and matter has been refer to insurance expert the report of insurance expert is awaited.

IV. Performance of Plant

All KPIs are within prescribed limit since 04.01.2020 except the dates when the parameters of raw sewage are beyond prescribed limit for which concessionaire is not responsible. Performance Report of April 2021 enclosed.

V. Mechanical Screens (Coarse & Fine Screens)

Auto System of both Mechanical Screens still not repaired and Concessionaire ensured to procure the Auto System by 31.05.2021.



VI. Gas Generators

Out of total 3 no's of Gas Generators installed, 2 nos. are in working condition and remaining 1 no. is still under maintenance.

VII. Sludge Digester

Out of 2 nos. sludge digester mixers installed, 01 no. is not in working condition since June 2020. Also, EMF at the outlet of the digester installed is not in working condition.

VIII. 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 took the sample jointly on 09.04.2021 and sent it for testing. Testing reports from NABL accredited Laboratory Spectro Research Lab Ventures (P) Ltd of joint samples taken on 18.08.2020, 15.09.2020, 19.10.2020, 13.02.2021, 18.03.2021 & 09.04.2021 has not been received yet.

IX. Power backup and Online Monitoring System

DG set for power backup has been made operational by UPJN on 14.07.2020. RTOLMS has been installed and calibrated.

Outlet Analyser Panel with sensor installed at site and synchronized with RTOLMS.

X. Work plan For Sludge Disposal

KRMPL had submitted the work plan for sludge disposal but not following it on site.

XI. Submission of Schedule Maintenance Program

KRMPL has not done any schedule maintenance works as per approved O&M manual for the first year and Concessionaire submitted schedule maintenance program for the year-2 vide KRMPL letter no. 1135 dated 06.04.2021. PE has submitted the observation on the same vide STC letter no. 788 dated 12.04.2021.

XII. KPIs Adherence Report

KPIs Adherence Report for the month of February 2021 has been submitted by PE vide letter no.771 dated 05.04.2021. Online Analyser report up to January month has been submitted by concessionaire.

7.6 210 MLD BINGAWAN FACILITIES

The schedule date of handover of 210 MLD Bingawan Facilities as per CA was 01/04/2019 but actually could be handed over on 08/07/2019. From handover date itself it was observed and informed from time to time to Concessionaire that the operation and maintenance of the plant was not up to the mark. Commercial Operation Date of Bingawan facility declared by UPJN as 10.08.2020 vide their letter no. 2324/w-37/100 dated 10.09.2020. O&M bill for Bingawan for 1st quarter i.e. from 10th Aug. 2020 to Oct. 2020 has been submitted by KRMPL. Renovation (Installation of RTLOMS and rectification of pumps) completion certificate have been issued by UPJN as 10.08.2020 vide their letter no. 2033/w-37/67 dated 18.08.2020 but calibration certificate with witness certificate is yet to be submitted by KRMPL. Out of 2 nos.



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

Following points need to be addressed:-

i. Compliance of Inspection Reports

PE inspected 210 MLD Bingawan STP on 21.10.2020, 12.11.2020, 02.01.2021, 02.02.2021, 03.03.2021 and issued inspection reports on 23rd October 2020, 21st November 2020, 19th January 2021, 4th February 2021 & 15th March 2021. Compliance reports of inspection reports of 23.10.2020, 21.11.2020, 19.01.2021, 04.02.2021 & 15.03.2021 have not been submitted by KRMPL. Again Inspection done at 210 MLD Bingawan STP on 28.04.2021 and observed the same defects and deficiencies as mentioned in previous inspection reports. Since 28th January 2020 rectifications of defects indicated in different inspection reports have not been done by the KRMPL and they are extending dates continuously every month. (Inspection report of Inspection done on 28.04.2021 has been enclosed).

ii. O&M Manual

Revised O&M manual of Bingawan has been approved by UPJN on 24.08.2020.

iii. Insurance Policies

Even after instructions by ED (Project) NMCG and by SMCG, KRMPL has not submitted Insurance Policies as per article 11.2 except All Risk Industrial Insurance Policy. KRMPL is required to submit all 5 insurance policies as per article 11.2. As per MOM of NMCG Review Meeting dated 05.03.2021 by the Video conferencing was conducted between KRMPL Head Office Mumbai and STC Head Office Mumbai and matter has been refer to insurance expert the report of insurance expert is awaited.

iv. Cleaning and reactivation of UASB Reactors

All the KPIs are not being met during the month of April 2021. Out of 16 no's reactors, UASB reactor no. 1, 2, 4 & 8 has been filled for reactivation after cleaning. Reactor no. 3, 5 & 6 has been taken up for cleaning from 20.08.2020, 15.03.2021 & 15.03.2021 and under process. The present conditions of all the 16 UASB reactors have been explained in detail in the inspection report of inspection done on 15/02/2021 (inspection report issued on 17/02/2021) which clearly indicates that no sludge blanket has been formed in the reactors nos. 1, 4 & 8, cleaned and refilled earlier. Reactors no. 3, 5 & 6 are still open for cleaning since Aug. 2020 & March 2021 resp. and KRMPL assured to get no. 3 reactor operational after cleaning by 31.03.2021. Remaining 09 reactors are filled with sludge. The Concessionaire is immediately required to submit the action plan for cleaning and reactivation of remaining UASB reactors and take up the work of cleaning and reactivation on war footing. Performance report of April 2021 is enclosed.

v. Belt Filter Press

All 3nos. Belt Filter Press system has been made functional by KRMPL but only 2 nos. BFP are being used at a time. Only 02 nos. trolleys are available at site. Also, atleast 2 more trolleys are required at site. All 3 nos. poly dosing pumps installed, 1 no. is not in working condition due to diaphragm portion is fully damaged. This matter has been pending since 07.10.2020.



vi. Sludge Disposal

All the reactors are filled with sludge which means that sludge extraction from the reactors is not proper. Also, Sludge testing arrangement is not available at site Laboratory.

vii. 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 09.04.2021 for testing. Testing report from Spectra research Lab ventures (P) Ltd. of the Joint sample taken on 29.09.2020, 16.10.2020, 28.02.2021, 18.03.2021 & 09.04.2021 has not been submitted by concessionaire.

viii. Gas Holder

Out of 2 nos. gas holder installed, both are not in working condition. Gas holder no.1 is not properly aligned and gas holder no.2 was under maintenance but during site visit dated 28.04.2021, no manpower was found engaged by concessionaire.

ix. Schedule Maintenance Works for 1st year

Schedule maintenance works as per approved O&M manual were to be started from 1/08/2020, but not started yet. Concessionaire has submitted the revised schedule maintenance plan for 1st year vide KRMPL letter no.936 dated 19.02.2021. PE submitted the observations on the Revised Schedule Maintenance plan for 1st year post COD Bingawan facility vide STC letter no. 795 dated 15.04.2021.

x. KPIs Adherence Report

A joint sampling for inflow and treated outflow has been carried out on 3rd Feb. 2021 and observed that the results are against the lab result submitted by KRMPL for the month of Nov. 2020 to Jan. 2021 and result from KRMPL lab are not reliable. Therefore, KPIs Adherence Report for the month of Nov. 2020 and Dec. 2020 sent by PE may be treated as cancelled and Revised KPIs Adherence report for the month of Nov. 2020 to Feb. 2021 based on the lab results for the month of Feb. 2021 (which seems to be reliable) are submitted by PE vide letter no. 762 dated 24.03.2021. Also, PE submitted KPIs Adherence report for the month of March 2021 along with the attached Non-availability report vide STC letter no. 796 dated 16.04.2021.



8. STATUS OF BEP & OTHER DETAILS

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

Table 6.2: BEPs and Design & Drawings detail (Civil)

				Status / Ren	narks	
SN	STP Facility	BEPs	Structure Design & Drawings	Sewer Network	Construction Plan	O&M
Α	New Facilities	S				
i	30 MLD STP - Pankha	Approved	All Approved	Approved	Revised CP (R2) vetted by PE. Under approval at UPJN	-
ii	15 MLD STP - Unnao	Approved	All Approved except I&D	Approved	Revised CP (R2) vetted by PE. Under approval at UPJN	-
iii	05 MLD STP – Shuklaganj	Approved	MPS, Sludge Thickener, Guard Room, Boundary Wall vetted by PE & IIT (R), under approval at UPJN; Rest design & drawings yet to be submitted by KRMPL	Yet to be submitted	CP vetted by PE. Under approval at UPJN	-
В	Rehabilitatio	n and O&M	for 15 years		•	
i	130 MLD STP - Jajmau (Phase I)	Approved except Control philosophy	GA & RCC design & drawing of CCT & TEPH is approved	-	Renovation plan / Action plan submitted by Concessionaire and are under review.	-
SN	STP Facility	0&	M Manual	Schedule M	laintenance Program	Remarks
С	O&M for 15	years				
i	43 MLD STP - Jajmau (Phase II)	-			-	Handover pending
ii	42 MLD STP - Sajari	A	pproved	l	Jnder Review	-
iii	210 MLD STP - Bingawan	А	pproved	I	Under Review	-



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 Person nel	Delay by Concessionair e	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)
01.04.2021	Unnao STP Site Inspection on dated 1 st April, 2021.	-	01.04.2021 S-769A	•	20	-	-	C.M. Dimri J.P. Tripathi O.P. Asati Preetam Linga Rao Priyesh Kapil Mahendra	1+1+1+ 1+1+1+ 1+1	-	-	-	Submission of Site Inspection Report for Unnao.
02.04.2021		•	,			Good F	riday		•			'	
03.04.2021						Holi Gang	ga Mela						
04.04.2021						SUNE	PAY						
05.04.2021	Recommendation for approval of GA & datasheet along with QAP for Thickener for 15 MLD STP Unnao	18.03.21 J-512/M- 47/23	05.04.2021 S-770	18	20	-	-	C.M. Dimri J.P. Tripathi O.P. Asati A.K. Seth Linga Rao Priyesh Pankaj Ajay Rahul Kapil Mahendra	1+1+1+ 1+1+1+ 1+1+1+ 1+1	-	-	-	Vetted and recommended for approval
05.04.2021	KPIs Adherence Report of Sajari for the month of Feb 2021.	17.03.21 K-984	05.04.2021 S-771	19	20	-	-	J.P. Tripathi O.P. Asati Linga Rao Pankaj Vikas Ajay Rahul Kapil	1+1+1+ 1+1+1+ 1+1+1	-	-	-	Submitted the KPI Adherence report for the month of Feb. 2021



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 Person nel	Delay by Concessionair e	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)
05.04.2021	Regarding Submission of design drawing & Calculation without covering letter and without informing to UPJN/NMCG.	03.04.21 K-email	05.04.2021 S-772	2	20	-	-	Mahendra C.M. Dimri J.P. Tripathi O.P. Asati A.K. Seth Preetam Linga Rao	1+1+1+ 1+1+1	-	-	-	Directed KRMPL not send any documents for vetting without covering letter or without prior information of UPJN
05.04.2021	Environment & Social impact assessment progress (ESIA) report of Quarter.	-	05.04.2021 S-773	-	20	-	-	C.M. Dimri J.P. Tripathi O.P. Asati A.K. Seth Preetam Linga Rao Satendra Pankaj Vikas Ajay Rahul	1+1+1+ 1+1+1+ 1+1+1+ 1+1	-	-	-	It is request to direct KRML to inspect all STP Plants/Projects by their experts along with safety expert of STC/UPJN.
05.04.2021	Reminder of STC inspection and Compliance by KRMPL.	-	05.04.2021 S-774	-	20	-		J.P.Tripathi O.P.Asati A.K. Seth Preetam Linga Rao Satendra Priyesh Pankaj Vikas Ajay Rahul Kapil Mahendra	1+1+1+ 1+1+1+ 1+1+1+ 1+1+1+ 1	-	-	-	Requested UPJN to direct KRMPL to submit compliance reports immediately.
05.04.2021	Submission of RCC design and	31.03.21 K-1124	05.04.2021 S-775	5	20	-	-	C.M. Dimri J.P. Tripathi	1+1+1+ 1+1+1+	-	-	-	Vetted and recommended for



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 Person nel	Delay by Concessionair e	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)
	drawing of Compound wall at 5 MLD Shuklaganj STP.							O.P. Asati Preetam Linga Rao Anil Seth Satendra Priyesh Kapil Mahendra	1+1+1+				approval.
05.04.2021	Submission of Unnao STP outlet disposal line layout with civil GA of Shaft & Manhole.	K-668	05.04.2021 S-776	-	20	-	-	C.M.Dimri O.P.Asati Preetam Priyesh Vikas Kapil Mahendra	1+1+1+ 1+1+1+ 1	-	-	-	Requested to UPJN to direct the Concessionaire for the compliance of above points and submit revised drawing for vetting/approval.
06.04.2021	Submission of methodology of Engineering filling at 5 MLD STP Shuklaganj.	20.03.21 K-1006	-	-	20	-	-	J.P.Tripathi Prasoon A.K. Seth Preetam Linga Rao Priyesh Kapil Mahendra	1+1+1+ 1+1+1+ 1+1	-	-	-	Under review
07.04.2021	Submission of action plan and list of manpower for 130MLD STP Jajmau.	-	07.04.2021 S-777	-	20	-	-	J.P.Tripathi O.P.Asati A.K. Seth Linga Rao Vikas	1+1+1+ 1+1	-	-	-	Reminder letter to direct KRMPL to furnish the documents / compliance without any further delay.
07.04.2021	Submission of methodology of Engineering filling at 5 MLD STP Shuklaganj.	20.03.21 K-1006	07.04.2021 S-778	18	20	-	-	C.M.Dimri O.P.Asati Prasoon S. Kamaraju Preetam	1+1+1+ 1+1+1+ 1+1+1	-	-	-	KRMPL should submit the compliance report before adopting Engineering Refills



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 Person nel	Delay by Concessionair e	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)
								Linga Rao Priyesh Kapil Mahendra					technique.
08.04.2021	Information related to the Mechanical, Electrical & Instrumental equipment purchased under HAM project Kanpur for Jajmau STP and Facilities.	-	08.04.2021 S-779	-	20	-	-	C.M.Dimri J.P.Tripathi O.P.Asati A.K. Seth Satendra Pankaj Ajay Rahul	1+1+1+ 1+1+1+ 1+1	-	-	-	Requested to direct the Concessionaire to submit the requested documents on urgent basis.
08.04.2021	Information related to the Mechanical, Electrical & Instrumental equipment purchased under HAM project Kanpur for Pankha STP and Facilities.	-	08.04.2021 S-780	-	20	-	-	J.P.Tripathi O.P.Asati A.K. Seth Satendra Pankaj Ajay Rahul Mahendra	1+1+1+ 1+1+1+ 1+1	-	-	-	Requested to direct the Concessionaire to submit the requested documents on urgent basis.
08.04.2021	Information related to the Mechanical, Electrical & Instrumental equipment purchased under HAM project Kanpur for Unnao STP and Facilities.	-	08.04.2021 S-781	-	20	-	-	C.M.Dimri J.P.Tripathi A.K. Seth Satendra Priyesh Pankaj Ajay Rahul Kapil	1+1+1+ 1+1+1+ 1+1+1	-	-	-	Requested to direct the Concessionaire to submit the requested documents on urgent basis.



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 Person nel	Delay by Concessionair e	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)
08.04.2021	Information related to the Mechanical, Electrical & Instrumental equipment purchased under HAM project Kanpur for Shuklaganj STP and Facilities	-	08.04.2021 S-782	-	20	-	-	C.M.Dimri J.P.Tripathi O.P.Asati A.K. Seth Priyesh Pankaj Ajay Rahul Kapil	1+1+1+ 1+1+1+ 1+1+1	-	-	-	Requested to direct the Concessionaire to submit the requested documents on urgent basis.
08.04.2021	Submission of compliance report for design drawing of MPS at 5 MLD STP Shuklaganj.	22.03.21 K-1008	08.04.2021 S-783	17	20	-	-	C.M. Dimri S. Kamaraju Linga Rao Priyesh Pankaj Vikas Ajay Rahul Kapil Mahendra	1+1+1+ 1+1+1+ 1+1+1+ 1	-	-	-	Vetted and recommended for approval.
09.04.2021	Request for Jajmau 130 MLD Unnao 15 MLD and Shuklaganj 5 MLD ESHS Plant soft copy and Hard copy-Reg.	-	09.04.2021 S-784	-	20	-	-	J.P. Tripathi O.P. Asati Sunil A.K. Seth Preetam Linga Rao Satendra Priyesh Pankaj Vikas	1+1+1+ 1+1+1+ 1+1+1+ 1	-	-	-	Instruct KRMPL to send the approved ESHS Document as soon as possible.
09.04.2021	Development of sewage treatment Plants on Hybrid annuity PPP basis	-	09.04.2021 S-785	-	20	-	-	C.M.Dimri J.P.Tripathi Preetam Linga Rao	1+1+1+ 1+1+1+ 1+1	-	-	-	Requested to direct KRMPL to comply the points as mentioned in letter



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 Person nel	Delay by Concessionair e	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)
	at Kanpur & Unnao.							Satendra Priyesh Vikas Mahendra					for all of STP under Constructions & O&M's.
09.04.2021	Observation on Submission Control & operational Philosophy for 130 MLD STP Jajmau.	20.03.21 K-991	09.04.2021 S-786	20	20	-	-	J.P.Tripathi O.P.Asati A.K. Seth Preetam Pankaj Vikas Ajay Rahul	1+1+1+ 1+1+1+ 1+1	-	-	-	Requested UPJN to direct KRMPL to submit the compliances of the observations at the earliest.
10.04.2021				*		Second Sa	aturday		•			,	
11.04.2021						Sund	lay						
12.04.2021	O&M Bill for Bingawan Facilities for Aug-Oct Quarter 2020.	J-158/w- 37/14 K-886	12.04.2021 S-787	-	20	-	-	J.P. Tripathi O.P. Asati A.K. Seth Pankaj Vikas Ajay Rahul	1+1+1+ 1+1+1+ 1	-	-	-	Requested to direct KRMPL to submit the compliance on urgent basis.
12.04.2021	Comment on Schedule Maintenance Plan for year-2 Sajari facilities.	06.04.21 K-1135	12.04.2021 S-788	6	20	-	-	J.P. Tripathi O.P. Asati A.K. Seth Preetam Linga Rao Priyesh Pankaj Vikas Ajay Rahul	1+1+1+ 1+1+1+ 1+1+1+ 1	-	-	-	Requested to direct KRMPL to submit the compliance on urgent basis.
12.04.2021	Observation on submission of Power Cable, Control Cable	26.03.21 K-1110	12.04.2021 S-789	17	20	-	-	J.P.Tripathi O.P.Asati A.K. Seth Preetam	1+1+1+ 1+1+1+ 1+1+1	-	-	-	Requested to direct KRMPL to submit the compliance on urgent basis.



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 Person nel	Delay by Concessionair e	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)
	Schedule and civil assignment drawing of HT panel room for 130 MLD STP Jajmau.							Linga Rao Pankaj Vikas Ajay Rahul					
12.04.2021	Submission of design drawing for SBR at 5 MLD Shuklaganj.	03.04.21 K-1130	12.04.2021 S-790	9	20	-	-	C.M.Dimri J.P.Tripathi A.K. Seth Preetam Linga Rao Priyesh Kapil Mahendra	1+1+1+ 1+1+1+ 1+1	-	-	-	Requested UPJN to direct KRMPL to comply on the said observations.
13.04.2021	Recommendation for approval of GA & datasheet along with QAP for Dosing Pump for 15 MLD STP Unnao.	К-954	13.04.2021 S-791	-	20	-	-	J.P. Tripathi O.P. Asati Satendra Priyesh Pankaj Vikas Ajay Rahul Kapil Mahendra	1+1+1+ 1+1+1+ 1+1+1+ 1	-	-	-	Vetted & recommended for approval.
13.04.2021	Approval of E&M drawing / datasheet for 15 MLD Unnao.	K-988	13.04.2021 S-792	-	20	-	-	C.M. Dimri J.P. Tripathi Preetam A.K. Seth Priyesh Ajay Rahul Kapil Mahendra	1+1+1+ 1+1+1+ 1+1+1	-	-	-	Vetted and recommended for approval.
14.04.2021	RCC Design of MPS for 15 MLD Unnao and MPS	-	14.04.2021 S-793	-	20	-	-	C.M. Dimri J.P. Tripathi O.P. Asati	1+1+1+ 1+1+1+ 1+1	-	-	-	Submitting the documents after signing and



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 Person nel	Delay by Concessionair e	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)
	Compound wall, Sludge thickener and guard room of 05MLD Shuklaganj.							A.K. Seth Linga Rao Priyesh Kapil Preetam					stamping.
15.04.2021	KPIs Adherence Report of Sajari for the month of March 2021.	08.04.21 K-1139	15.04.2021 S-794	7	20	-	-	J.P. Tripathi O.P. Asati Sunil Pankaj Vikas Ajay Rahul	1+1+1+ 1+1+1+ 1	-	-	-	Review of KPI Adherence report.
15.04.2021	Comment on Revised Schedule Maintenance plan for 1 Year post Bingawan.	K-936	15.04.2021 S-795	-	20	-	-	J.P. Tripathi O.P. Asati Prasoon Linga Rao Pankaj Vikas Ajay Rahul Kapil Mahendra	1+1+1+ 1+1+1+ 1+1+1+ 1	-	-	-	Request to direct KRMPL to complete breakdown maintenance work and then schedule maintenance plan can be accepted.
16.04.2021	KPIs Adherence report of 210 MLD STP Bingawan for the month of March 2021.	08.04.21 K-1140	16.04.2021 S-796	08	20	-	-	J.P.Tripathi O.P.Asati Linga Rao Pankaj Vikas Ajay Kapil Rahul Mahendra	1+1+1+ 1+1+1+ 1+1+1	-	-	-	Submission of KPI Adherence report for March 2021
16.04.2021	Submission of updated Sewage network(R-7) for	06.04.21 K-1134	16.04.2021 S-800	10	20	-	-	C.M. Dimri J.P. Tripathi A.K. Seth	1+1+1+ 1+1+1+ 1+1+1	-	-	-	Requested to direct concessionaire to submit the



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 Person nel	Delay by Concessionair e	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 MLD STP Pankha.							Sunil Preetam Satendra Vikas Kapil Mahendra					compliances of above said points at the earliest.
17.04.2021	Submission of Methodology of Engineering filling at 5 MLD STP Shuklaganj.	14.04.21 K-1151	17.04.2021 S-797	03	20	-	-	C.M. Dimri J.P.Tripathi Preetam Priyesh Kapil Mahendra	1+1+1+ 1+1+1	-	-	-	The submission is vetted and recommended for approval and necessary action please.
17.04.2021	Recommendation for approval of GA & datasheet along with QAP for Submersible Pumps (Lot-2) for 15 MLD STP Unnao.	12.04.21 J-678/M- 47/34	17.04.2021 S-798	05	20	-	-	C.M. Dimri A.K. Seth Preetam Priyesh Vikas Rahul Mahendra	1+1+1+ 1+1+1+ 1	-	-	-	Recommended for approval.
18.04.2021					<u> </u>	Sund	lay					•	
19.04.2021	Recommendation for approval of QAP of submersible pumps for 30 MLD STP Pankha.	16.04.21 K-1168	-	-	20	-	-	C.M. Dimri A.K. Seth Preetam Satendra Pankaj Vikas Ajay Kapil Rahul	1+1+1+ 1+1+1+ 1+1+1+ 1	-	-	-	Under review
20.04.2021	Recommendation for approval of QAP of submersible pumps for 30 MLD	16.04.21 K-1168	20.04.2021 S-801	4	20			C.M.Dimri J.P.Tripathi Sunil Prasoon Preetam	1+1+1+ 1+1+1+ 1+1+1+ 1+1+1				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 Person nel	Delay by Concessionair e	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	STP Pankha.							Satendra Pankaj Vikas Ajay Rahul Kapil					
20.04.2021	Submission of updated size of inlet receiving chamber at IPS Sunder Nagar to Avoid congestion of existing structure foundation.	09.04.21 K-1141	20.04.2021 S-802	11	20	-	-	C.M.Dimri O.P.Asati A.K. Seth Preetam Satendra Priyesh Pankaj Vikas	1+1+1+ 1+1+1+ 1+1+1	-	-	-	Recommended for approval.
21.04.2021	Recommendation for approval of GA Datasheet & QAP of Submersible pumps for IPS at ICI Nalla & Sunder Nagar for 30 MLD STP Pankha.	16.04.21 K-1169	-	-	20	-	-	C.M.Dimri J.P.Tripathi Prasoon Satendra Pankaj Vikas Ajay Rahul Kapil	1+1+1+ 1+1+1+ 1+1+1+ 1	-	-	-	Under review
22.04.2021	Submission of GA data sheet & QAP DG Set for 30 MLD STP Pankha.	K-1125	-	-	20	-	-	Dr. Giridhar C.M.Dimri O.P.Asati Sunil Prasoon Preetam Satendra Pankaj Vikas Ajay Rahul	1+1+1+ 1+1+1+ 1+1+1+ 1+1+1+ 1	-	-	-	Under review



	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 Person nel	Delay by Concessionair e	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)
								Kapil					
23.04.2021	Submission of GA Datasheet & QAP of DG Set for 15 MLD STP Unnao.	12.04.21 J-674/M- 47/30	-	-	20	-	-	Dr. Giridhar C.M.Dimri Prasoon Satendra Priyesh Pankaj Vikas Ajay Rahul Kapil	1+1+1+ 1+1+1+ 1+1+1+ 1+1	-	-	-	Under review
24.04.2021	Submission of power and control cable schedule and sizing calculation for Pankha STP.	28.04.21 K-1180	-	-	20	-	-	Dr. Giridhar C.M.Dimri A.K. Seth Preetam Satendra Pankaj Vikas Ajay Rahul Kapil Mahendra	1+1+1+ 1+1+1+ 1+1+1+ 1+1	-	-	-	Under review
25.04.2021						Sund	lay		•			•	
26.04.2021	Submission of internal illumination drawing for guard room and staff Quarter for 15 MLD Unnao Facilities.	12.04.21 J-682/M- 47/38	27.04.2021	- 11	20	-	-	Dr. Giridhar C.M. Dimri Sunil Satendra Priyesh Vikas Ajay Rahul Kapil Mahendra Dr. Giridhar	1+1+1+ 1+1+1+ 1+1+1+ 1 1	-	-	-	Under review Recommended for



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 Person nel	Delay by Concessionair e	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)
	for approval of GA Datasheet & QAP of Submersible pumps for IPS at ICI Nalla & Sunder Nagar for 30 MLD STP Pankha.	K-1169	S-803					C.M.Dimri Preetam Satendra Pankaj Vikas Kapil Mahendra	1+1+1+ 1+1				approval.
28.04.2021	Submission of GA data sheet & QAP DG set for 30 MLD STP Pankha.	K-1125	28.04.2021 S-804	-	20	-	-	Dr. Giridhar C.M. Dimri Preetam Satendra Priyesh Pankaj Ajay Kapil Mahendra	1+1+1+ 1+1+1+ 1+1+1	-	-	-	Recommended for approval.
28.04.2021	Submission of GA Datasheet & QAP of DG Set for 15 MLD STP Unnao.	12.04.21 J-674/M- 47/30	28.04.2021 S-805	16	20	-	-	Dr. Giridhar C.M.Dimri Preetam Satendra Priyesh Pankaj Vikas Ajay Rahul Kapil Mahendra	1+1+1+ 1+1+1+ 1+1+1+ 1+1	-	-	-	Recommended for approval.
29.04.2021	Submission of power and control cable schedule and sizing calculation for Pankha STP.	28.04.21 K-1180	29.04.2021 S-806	01	20	-	-	Dr. Giridhar C.M. Dimri Satendra Pankaj Ajay Rahul Kapil	1+1+1+ 1+1+1+ 1+1	-	-	-	Recommended for approval.



Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man- days of each Key Person nel	Delay by Concessionair e	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)
29.04.2021	Submission of power and control cable schedule and sizing calculation for Jajmau STP.	28.04.21 K-1110	29.04.2021 S-807	01	20	-	-	Mahendra Dr. Giridhar C.M. Dimri J.P. Tripathi Satendra Priyesh Ajay Rahul Kapil Mahendra	1+1+1+ 1+1+1+ 1+1+1	-	-	-	Recommended for approval.
29.04.2021	Submission of power and control cable schedule and sizing calculation for Unnao STP.	28.04.21 K-1136	29.04.2021 S-808	01	20	-	-	Dr. Giridhar C.M. Dimri Satendra Priyesh Pankaj Ajay Rahul Kapil Mahendra	1+1+1+ 1+1+1+ 1+1+1	-	-	-	Recommended for approval.
29.04.2021	Submission for cost implication due to change of FOS for design drawing of bedding for sewerage network for 30 MLD STP Pankha Facilities as per clause no. 20 of CA.	15.04.21 K-1005	29.04.2021 S-809	14	20	-	-	Dr. Giridhar C.M.Dimri Preetam Satendra Pankaj Vikas Mahendra	1+1+1+ 1+1+1+ 1	-	-	-	Requested to direct concessionaire to submit the revised cost implication sheet after considering the said points and after approval of updated sewerage network.
29.04.2021	Submission of internal illumination drawing for guard	12.04.21 J-682/M- 47/38	29.04.2021 S-810	17	20	-	-	Dr. Giridhar C.M. Dimri Satendra Priyesh	1+1+1+ 1+1+1+ 1+1	-	-	-	Recommended for approval.



Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man- days of each Key Person nel	Delay by Concessionair e	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)
	room and staff Quarter for 15 MLD Unnao Facilities.							Pankaj Vikas Kapil Mahendra					
30.04.2021	Regarding approval of lighting calculation earthing calculation earthing layout and ERT report for 15 MLD STP at Unnao.	10.04.21 K-1183	30.04.2021 S-812	20	20	-	-	Dr. Giridhar C.M. Dimri Preetam Satendra Priyesh Rahul Kapil Mahendra	1+1+1+ 1+1+1+ 1+1	-	-	-	Recommended for approval.
30.04.2021	Regarding approval of lighting calculation earthing calculation earthing layout and ERT report for 30 MLD STP Pankha.	21.04.21 K-1184	30.04.2021 S-813	09	20	-	-	Dr. Giridhar C.M. Dimri Preetam Satendra Rahul Kapil Mahendra	1+1+1+ 1+1+1+ 1	-	-	-	Recommended for approval.



Note: Man-days and respective inputs of experts for the month of April 2021 are:

SN	Name	Designation	Total Man-days	Input
1.	Dr. Giridhar Prabhukumar	Team Leader	09	Timesheet attached
2.	Mr. Chandra Mauleshwar Dimri	Senior Civil Engineer	30	Timesheet attached
3.	Mr. Jai Prakash Tripathi	O&M Engineer	30	Timesheet attached
4.	Mr. O.P Asati	O&M Engineer	24	-
4.	Mr. Anil Kumar Seth	Senior Electrical Engineer	24	Timesheet attached
5.	Mr. Sunil Basutkar	Senior Mechanical Engineer	06	Timesheet attached
6.	Mr. Prasoon Bhardwaj	Instrumentation Engineer	07	Timesheet attached
7.	Mr. Linga Krishna Rao	Safety expert	16	Timesheet attached
8.	Mr. Satish Kamaraju	Process expert	02	Timesheet attached
9.	Mr. Preetam Walunjkar	Structural expert	28	Timesheet attached



Annexure 2: Timesheets of Experts

Dr. Giridhar Prabhukumar (Team Leader)

Project Engineer NMCG-STP Projects at Kanpur under Hybrid Annuity based PPP Mode Daily Report Month/Year: Dr. Giridhar Prabhukumar Apr-21 Position: Team Leader cum Wastewater Expert Date Location Description 3 4 6 9 10 11 12 13 14 15 16 17 18 19 20 21 Reported to STC Kanpur office and took over the responsibilities of Kanpur TL: Completed all necessary paperwork and joining formalities. 22 Meeting with Mr. B.K. Garg, GM, UPJN; Review of Concessionaire Kanpur 23 Agreement Meeting with Mr. Amit Barambe, KRMPL; Review of pending issues Kanpur 24 25 SUNDAY 26 Reviewed Concessionaire Agreement; Review of pending issues Kanpur Kanpur 27 Site Inspection - Sajari STP Kanpur 28 Site Inspection - Bingawan STP Meeting with Mr. Amit Barambe, KRMPL 29 Kanpur Meeting with Mr. B.K. Garg, GM, UPJN; Review of STC comments Kanpur on Submittals from KRMPL I hereby certify that the time report above is a true and complete statement of my working time P. Guridhan P. Giridhan Signature of Employee Signature of Team Leader

Mr.



C.M. Dimri (Senior Civil Engineer)

NMCG-STP Projects at Kanpur under Hy Daily Repo	vbrid Annuity based PPP	Made
Daily Pana	The state of the s	Mode
	irt	
Er. Chandra Mauleshwar Dimri		Month/Year:
Senior Engineer Civil cum T.L.i/c		Apr-21 Location
	de account de along continue	
		Kanpur Kanpur
	AND ADDRESS OF THE PARTY OF THE	Kanpur
		Kanpur
	Kanpur	
SUNDAY		Kanpur
Review of PPT NMCG Meet with GM	Kanpur	
Attended video conference called by DG NMI	CG Newdelhi	Kanpur
		Kanpur
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The state of the s	- Ligi orphios	Kanpur
	val of Unnan OAPs	Kanpur
		Kanpur
	Contract of the Contract of th	Kanpur
	ANNIAN BULLER STRUCKSON CO.	Kanpur
ertify that the time report above is a true a	nd complete statement of	THE RESERVE OF THE PARTY OF THE
of Employee Signature of	of Team Leader	
C CELCE FA CEFEFE	Description office work / submission of Shuklaganj bound HOLI DAY GOOD FRID GANGA mela holiday / Discussion with GM SUN DAY / Talk with Mr Walunjkar about O Discussion with GM about status of STPs and Quarry with KRMPL about QA /QC tests rega office work/ Inspection of Pankha facilities with Discussion with KRMPL about Sajari STP did office work / Discussion / meeting with Mr DP Discussion with GM about control philosiphy SUNDAY Review of PPT NMCG Meet with GM Attended video conference called by DG NMI AMBEDKAR JAYANTI HOLIDAY / Signed Office work / submission / vetting of various M Discussion with safety expt. KRMPL & signed MPR March sent / Shuklaganj engineering re SUNDAY Str Exprt comments on IPS Sunder ngr sent of Discussion with PM E&M about Jajmau I mail Pankha DG set datas about sudhir power L d Discussion with GM UPJN Kanpur and TL about Discussion with GM UPJN Kanpur and TL about Discussion with Str Expt about Shuklaganj str SUNDAY / Sad day fellow Er OP Asati Discussion with PM 4 UPJN Lko about appro Discussion with PM 1 UPJN about Jajmau I in Appraised GM about Covid situation and work ertify that the time report above is a true at	Description office work / submission of Shuklaganj boundarywall design vetted HOLI DAY GOOD FRIDAY GANGA mela holiday / Discussion with GM about issues in SUN DAY / Talk with Mr Walunjkar about Covid and WfH Discussion with GM about status of STPs and O&Mby KRMPL Quarry with KRMPL about QA /QC tests regarding EDT visit office work/ Inspection of Pankha facilities with GM UPJN Discussion with KRMPL about Sajari STP diductions office work/ Discussion / meeting with Mr DP Mathuria EDT at Discussion with GM about control philosiphy of Jajmau I SUNDAY Review of PPT NMCG Meet with GM Attended video conference called by DG NMCG Newdelhi AMBEDKAR JAYANTI HOLIDAY / Signed BEP ShuklaganjRCC Office work / submission / vetting of various Mech Drawings Discussion with safety expt. KRMPL & signed ESHS Shukl. MPR March sent / Shuklaganj engineering refill comments sent SUNDAY Str Exprt comments on IPS Sunder ngr sent / Office work Discussion with PM E&M about Jajmau I maintenance & P House Pankha DG set datas about sudhir power L discussed Discussion with UPJN about Pankha insp./ TL Joined. Meeting with GM UPJN Kanpur and TL about HAM & Covid situa. Discussion with Str Expt about Shuklaganj staff qtr & Engg fill SUNDAY / Sad day fellow Er.OP Asati O&M Engr expired. Tribute to Honarable Late OP Asati Discussion with PM 4 UPJN Lko about approval of Unnao QAPs Discussion with PM KRMPL Kanpur about Pankha BEPs pendency Discussion with PM 1 UPJN about Jajmau I maintenance Appraised GM about Covid situation and work position ertify that the time report above is a true and complete statement of



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

	Project Engineer Shah Techanical Consultants Pvt Limite	d
	NMCG-STP Projects at Kanpur under Hybrid Annuity based PPP Mode	
	Daily Report	
Name :	JAI PRAKASH TRIPATHI O & M ENGINEER	Month/Year
Total Contract Annual Section 1		Apr-21
Date	Description	Location
1	Prepared Time Sheet and Invoice for the month of March 2021	Kanpur
2	Good Friday	
3	Holi Mela	
9	Sunday Sunday	*
5	Prepared Present Status of O &M of existing facilities Sajari and Bingawan and sent CE UPJN as desired by him.	Kanpur
6	Sent KPIs adherance report of Sajari for the month of Feb 2021	Kanpur
7	Revelwed letter of KRMPL dated 21/01/2021 regardig O & M bill for the period Aug- Oct 2020	Kanpur
8	Prepared reply to KRMPL letter dated 21/01/2021	Kanpur
9	Prepared PPT for Sajari & Bingawan for proosed NMCG review meeting on 13/04/2021	Kanpur
10	Second Saturday	
11	Sunday	
12	Corrected and finalized PPT for Sajari & Bingawan for prposed NMCG review meeting on 13/04/2021	Kanpur
13	Attended NMCG review meeting	Kanpur
14	Ambedkar Jayanti	Kanpur
15	Sent KPIs adherance report of Sajari for the month of March 2021	Kanpur
16	Sent comments on revised schedule maintainace plan for year 1 for Bingawan	and the same of the
	submitted by KRMPL and sent KPIs adherance report of Bingawan for the month of	Kanpur
17	Corrected and finalized MPR for the Month of Maarch 2021	Kanpur
18	Sunday (Started work from Home as our colony became corona containment zone due to 12 corona+ cases)	to de
19	Revelwed Executive Summary of Bingawan plant dated 23/04/2019 of Dr. Kazmi IITR and discussed with Mr. C. M. Dimri TL	Kanpur
20	Discssed with PM III GPCU UPJN regarding Executive Summary of Bingawan plant dated 23/04/2019 of Dr. Kazmi IITR	Kanpur
21	Discussed with Mr. Abhijit STC Mumbai regarding my fees	Kanpur
22	Discuussed with TL and Office Manager regarding Covid conditions office staff	Kanpur
23	Discssed with Dr. Prabhu Kumar new TL regarding O & M of Sajari & Bingawan	Kanpur
24	Provided Present Status of O & M of Sajari and Bingawan plants to TL	Kanpur
25	Sunday	
26	Office Closed in memory of Mr. O. P. Asati O & M Engineer 2 who expired on 25/04/2021	Kanpur
27	Discussed with TL regarding inspection of Sajari Plant	Kanpur
28	Discussed with TL regarding inspection of Bingawan Plant	Kanpur
29	Discussed with TL regarding renovation of 130 MLD Jajmau Plant	Kanpur
30	Discussed with TL regarding performance of 210 MLD Bingawan Plant	Kanpur
ereby	P. Garrellow	e for the payr



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

Project Engineer	Shah Techanical Consultants Pvt Limited	
	NMCG-STP Projects at Kanpur under Hybrid Annuity based PPP M Daily Report	ode
Name:	ANIL KUMAR SETH	Month/Yea
Position:	St Electrical Eng	Apr-21
Date	Description	Location
2		Kanpur
3		Kanpur
4		Kanpur
5	Discussed with PM UPIN tregarding DG-Set Enbrishing	Kanpur
6	Review of AT Panel room Layout.	Kanpur
7	Review of Power Cable Bohedule Bomio Jajman.	Kanpur
8	Review of Power Cable Schedule 130 MLD Jaiman.	Kanpur
9	Review of control cause schedule for 130 mg Jajman	Kanpur
10	Seeand faturday	Kanpur
11	Sunday	Kanpur
12	letter somed for clarification of Power/Control Cable Jays	
13	Attended to NMCG/UPIN meeting with TI	Kanpur
15	Ambedkar Jayarti	Kanpur
16	DG set review of Partice 30 Mg. Mainfacture Orethe Discussed the pending approvals from Upin umas	
17	Da set review of unnas 15 m is.	Kanpur
18	Sunday	Kanpur Kanpur
19	Revivo of Transforms for unnas 15mp	Kanpur
20	Renew of Frankfor for Panha . 30 mg	Kanpur
21	Carple Perhedule Review of Parkle 30 MD.	Kanpur
22	Cable Echedus Review of umas 15 McD.	Kanpur
23	Review of earthing calculation for Panely 30 mes	Kanpur
24	the state of the s	Kanpur
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27		Kanpur
		Kanpur
		The second second
	and the that the time are and about in a torontal and a second at	
a	ertify that the time report above is a true and complete statement of my w P. G. Mary of Employee Signature of Team Leader	Kanpur Kanpur Kanpur orking time fo



Mr. Sunil Basutkar (Mechanical Expert)

NAME: BUNIL BASUTKAR Position: Mechanical Expert Description Name: BUNIL BASUTKAR Position: Mechanical Expert Description Apr.21 Date Date Description Name: Apr.21 Date Date Description Name: Apr.21 Date Date Description Location 1 2 3 4 5 6 6 7 8 8 Review of Mechanical Submittals of 130 MLD STP JAJMAU *Pune 10 11 12 12 13 14 15 Review of Mechanical Submittals of 130 MLD STP UNNAO *Pune 15 16 17 18 18 19 19 10 10 10 10 10 11 11 12 12 13 14 15 15 Review of Mechanical Submittals of 15 MLD STP PANKHA *Pune 10 10 10 10 10 10 10 10 10 10 10 10 10	NAME SUNIL BASUTKAR Position: Date Description Name: SUNIL BASUTKAR Position: Apr-24 Date Date Description 1		Engineer Shah Techanical Consultants Pvt Limite	ed
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Mr. Prasoon Bhardwaj (Instrumentation Engineer)

Project i	Engineer	Shah Techanical Consultants Pvt Limi	ted
	NM	ICG-STP Projects at Kanpur under Hybrid Annuity based PPP Mode	
		Daily Report	
Name :	Prasoon Bhardwaj		- Month/Year:
Position:	Instrumentation En	gineer	Apr-21
Date		Description	Location
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6	Kanpur.	on and Control philosophy for rehabilitation of 130 MLD STP at Jajmau,	Jaipur(W/H)
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15		ontrol Philosophy write-up and Drvive Input/Output interface for 5 MLD Shuklaganj, Kanpur.	Jaipur(W/H)
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	Review of PLC IO I	list 5 MLD SBR based STP at Shuklagani, Kanpur.	
20			Jaipur(W/H)
21	A STATE OF THE PARTY OF THE PAR	OLMS signal list for 5 MLD SBR based STP at Shuklinganj, Kanpur.	Jaipur(W/H)
22	Review of Instrume	ent list for 5 MLD SBR based STP at Shuklaganj, Kanpur.	Jaipur(W/H)
23	Review of Drive Co SBR based STP at	ontrol Philosophy write-up and Drvive Input/Output Interface for 15 MLD Unneo, Kenpur.	Jaipur(W/H)
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Mr. L.K. Rao (Safety Expert)

roject	Shah Technical Consultants Pvt Limited	
Enginee	NMCG-STP Projects at Kanpur under Hybrid Annuity based PPP Mode	
	Daily Report	
Name :	Linga Krishna Reo	Month/Year:
Position:	Safety Expert	Apr-21
Date	Description Office work attended, Unnac 15 MLD Project site inspection done along with Support	Location
1	Engineer Mr. Preyesh Shukla, UPJN and KRMPL Representatives.	Kanpur
2	Holiday (Good Friday)	Kanpur
4	Holiday (Genga Melia) SUNDAY	Kanpur
-	Office work attended, Unnao 15.5 MLD and Pankha 30 MLD Project alla inspection reports	Karpur
5	prepared and sent to the concerned NMCG, UPJN and KRMPL. ESIA Complience reply sent to the concerned NMCG, UPJN and KRMPL. Reminder letter sent for expedite action on our earlier inspection letters reference to the concerned NMCG, UPJN and KRMPL.	Kanpur
6	Office work attended. Panks 30 MLD Project site inspection along with civil support engineers Mr. Satendra kumar sharma.	Kanpur
7	Office work attended, Panika 30 MLD Project site inspection along with TL Sir and Mr.Satendra Sharma, Civil support engineers. Panikha 30 MLD inspection report of dt. 6th April, 2021 sent to Mr.Adeem UP.IN for issuing a inspection note directly from UP.IN to the concerned NMCG, KRMPL personnel.	Kanpur
8	Office work attended, Visited to Bingawan 210 MLD & IPS Rakhimandi along with Mr.Rawath-Support Engineer and witnessed the Environmental monitoring (Air monitoring, stock monitoring, Sound level monitoring, Co2 monitoring, oxyzen monitoring etc.,) by third	Kanpur
9	party consultant of KRMPL. Office work attended, Letter sent to GM UPJIN with a request for sending a soft copy and hard copy of ESHS Plan of Jajmeu 136 MLD, Unneo 15 MLD and Shuktagunj 05 MLD. Reminder lotter sent to GM UPJIN NMCG KRMPL to develop the site, tendscaping.	Kanpur
10	arboriculture and horticulture at the STP Construction sites and O&M Plants. SECOND SATURDAY	Kanpur
11	SUNDAY	Kanpur
	Office work attended, Review of Project ESHS (Environmental, Safety and Health System)	Kanpur
13	Pilips of Bingswan 130 MLD (O&M) Plant. Office work stitended, Attended for 3rd Milestone web meeting of all sites with NMCG, UPJN and KRMPL atong with TL Sir. Review of Project ESHS (Environmental, Safety and Health System.) Plan of Unnac 15 MLD Construction site.	Kanpur
114	HOLIDAY (Ambedkar Jayenthi)	Kanpur
16	Office work altended, Review of Project ESHS (Environmental, Safety and Health System)	Kanpur
10505 / 10	Office work attrioded, Polylew of ESIA (Environmental and Social Impact Assessment	
16	Report) of Pankha, Umao, Shuklagung Constructions sites and Sajari, Bingawan and Jajmau (O&M) Plants.	Kanpur
Sign	Signature of Team Leade P. Gins Man	



Mr. S. Kamaraju (Sr. Process Expert)

Project	Shah Techanical	Consultants P	t Limited	
-	rojects at Kanpur under Hybrid Annuity based PP	P Mode		
	r the Months of April & May 2021 Satish Kamaraju		_	
Name : Position:	Process Engineer			
Date	- Description	Duration (Days)	STP/Nalas	Work Performed Locati
07/04/2021	Review of NMCG's request (by Mr. Madhev KumanMr. Raj Gupta) on the KRMPL Lir dated 21/1/2021 on Bingswan	it .	STPMaus	Home
06/04/2021	Facilities Reply to NACG on the request made on the KRAPL Itridate 21/1/2021 on Birgawan lacilities, discussions with TL and			Home
	O&M Engineer Kanpur. Discussion with New TL Kanpur on Jajmau STP			
06/06/2021	Bioaugumentation option 5 process discussions of STPs under this contract.	0.25		Home
06/05/2021	Review of Bingtewan STP Performance data and charts received from TL. Sent an email response on 10/5/2021	1 .		Home
	Total Days	2.25		
delation	I hereby certify that the time report above is a true and compl P. Griss Albert P. Griss Albert Steedard Translation	~	ng time for the pay	red period.
Signature of Emple	ly P. Guidhar	~	ng time for the pay	roll period,
Estation of Emph	ly P. Guridhan	~	ng time for the pay	roll period,
Bloth Signature of Emph	ly P. Guridhan	~	ng time for the pay	roll period,
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Elathur Signature of Emph	ly P. Guridhan	der		
	P. Girshan Oyee Signature of Team Les	der		
Elathu Signature of Emph	Ly P. Giris Man and Signature of Team Les	der		
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	P. Girshan Signature of Team Les	der		
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Mr. P Walunjkar (Structure Engineer)

Projec	t Engineer	Shah Technical Consultants Pvt Lim	ited
	NMCG-ST	P Projects at Kanpur under Hybrid Annuity based PPP Mode	
		Daily Report	
Name:	Preetam Walunjkar		Month/Year Apr-21
Position: Date	Senior Structural Engineer	Description	Location
t	Review the Rev. RCC Drs of	Unnac MPS & put Comments e mail on Well Sinking method	Kanpur*
2	Good Friday Holiday		Karpur
3		Drawing for Unnac STP & mail the comments to STC Kanpur	Kanpur
4	Sunday		Kanpur
5	17771177	and Pro Model file for Shuttagani STP SBR RCC Drg	Kanpur
6		a 763 & review its use in Pareina Pipelina Layout	Kanpur
7		ments & mail comments to Kanpur STC	Kanpur
8	Review the coloulation sheet for		Kanpur
9		Druitingury STP SBR RCC Drg & mult the comments	Kanpur
10	Second Saturday Holiday		Kanpur
11	Sunday		Kanpur
12	Raview Comments by IIT on Str.	estural Design and Drawings of 15MLD STP MPS United	Kanpur
13	Pagya chell chend Holiday		Kanpur
14	Dr Ambedkar Jayanti Holiday		Kanpur
15	Ruylew SRC Report & Stead No.	of Revised MPS Suklagers STP	Kanpur
16	Review Structural Design & Draw	ing of treated effluent channel for 30 MLD STP at Particle	Kanpur
17	Review & discuss with Support 5	rgg Compliance Report of Soil Reliting for Shulagan; STP submitted by KRMPL	Kanpur
18	Sunday		Kanpur
10	Maylew structural Drs Inlet receiv	ing chamber at IPS sundar nagar -30 MLD STP Pankha	Kanpur
20	Review the Engineering Fill Door	ments & mail comments to Kanpur STC	Kanpur
21	Ramnaveni Hilliday		Kanpur
22	Review Golf test (SBC) report for	Shaklagani STP Staff quarter	Kanpur
23	Review of Sukhalagani Quard Ro		Kanpur
24	Review the calculation sheet for	CYAIR.	Kanpur
25	Sunday	P204000 TO N. T. SANDA SANDA T	Kanpur
26	Review Revised Parkitia ICI Nail	a RCC Dig & risply coments on it	Kanpur
27	Review of Sukhatagani Studge th		Kanpur
28		Neck Calculations & put comments on Shuklagani Steff Querier	Kanpor
29	And the second s	ments once again to know its feesibility on ground	Kanpur
30		n Urrano STP MPS Lint with KRMPL Structural Engg	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



Annexure 3: Monthly Performance Report of Sajari for April 2021

								4Z MI				PLANT, S LAB REPO		PUR			IVI	
				_	70	W SEWACE		_									Ap	r-2021
Date	FLOW IN MILD	Plant Run In HRS	Temp		7H (7-8)	000	BOD (250)	TSS [500]	Timp	TDS	PH [7-8]	COD (<190)	B00 (<30)	TM [<50]	7.C {<\$00}	Arceties DO	POWER SHUTDOWN	REMAIX
01 Av. 2021	40.22	24.00	30	ppin	13	Ma	ppn	lba	4	Share		ppe	ppm	ppn 1	4PH/100mL	pps	195	
01 Apr 2071	0330	2400	25.	1298	26	-648	162	745	25	£.	78	97	22	34		15	5.95	2 STREAM IS UNDER OPERATION
02.Apr 2021	18.50	24.10	22	1322	100	512	176	319	25	972	7.9	104	24	360		12	0.00	Z STREAM IS UNDER OPERATION
03 Apr 2021	17.90	24.00	25	1240	7.5	432	150	251	75	880	7.9	92:	21	34		18	0.00	2 STREAM IS UNDER OPERATION
04 Apr 2021	1871	24.00	25	1390	-76	528	175	315	25	915	7.9	114	23	37.9	230	1.2	0.00	2 STREAM IS UNDER OPERATION
05 Apr 2021	18.89	24.00	25	1612	25	609	182	321	25	952	79	335	24	35		14	100	Z STREAM IS UNDER OPERATION
86 Apr 2021	18.32	24,00	25	1360	23	447	156	297	25	960	7.9	96	32	11		13	0.00	2 STREAM IS UNDER OPERATION
07 Apr 2021	17.90	2400	25	1205	75	391	158	266	25	810	7.9	8	21	35		18.	0.00	2 STREAM IS UNDER OPERATION
09 Apr 2021	1815	24.00	25	10000	ti	24.60		-200		1000	TIVE S	1214			164	13	0.06	2 STREAM IS UNDER OPERATION
ar age and	10.32	2430	0	1416	24	512	178	322	25	991	7.5	104	26	37	285	13		Found Dye color in New Sewage 2 STREAM IS UNDER OPERATION
19 Apr 2021	1E 45	24.00	25	1390	13	624	192	327	25	1099	7.9	112	24	31		1.2	100	Frand Dye color in Rare Sewage
10 Apr 2021	17.90	24.00	25	1340	12	529	175	315	15	1106	7,9	104	23	36		14	1.00	2 STREAM IS UNDER OPERATION Fround Does color in Raw Sewage
		21.00	37	1000	13					1000	74	100	094	32		1.5	0.47	2 STREAM IS UNDER OPERATION
11 Apr 2021.	Diox.	24.00	B	1268		416	155	297	25	1052	7.9	96	21	п				Found Dye roler in Nave Schwage
12 Apr 2021	18.15	24.00	26	1350	7.3	512	162	320	26	1160	7.9	110	27	37	249	12	183	2 STREAM IS UNDER OPERATION 2 STREAM IS UNDER OPERATION
13 Apr 2021	1832	2410	26	1394	25	608	178	332	26	1167	7.9	112	25	39		12	0.00	Found Dye color in Raw Sewage
14 Apr 2021	18.65	24.00	26	1350	7.6	528	175	319	26	1138	7.9	104	22	36		14	0.06	2 STREAM IS UNDER OPERATION Found Dee color in Raw Sewage
ITTEL AVAIL	8000	0.144	40	1407	2.5	0041	West	0.00	DOM:	7.52	- 474		-01	7.00			200	2 STREAM IS UNDER OPERATION
15 Apr 2021	1815	34.00	26	1298	740	448	168	297	26	1095	7,9	36	22	34		15	100	Found Dye color to Raw Sewage
16 Apr 2021	1848	24.00	26	1266	75	396	155	283	26	994	7.9	88	23	12	210	1.6	0.00	2 STREAM IS UNDER OPERATION
17 Apr. 2021	17.66	24.00	26	1290	7.5	448	152	297	26	987	7.9	96	21	34		15	430	2 STREAM IS UNDER OPERATION Found Develor in Raw Sewage
				10000	7.6	450	177	101	26	930	29	92	22	31		16	200	2 STREAM IS UNDER OPERATION
1E Apr 2021	16.72	24.00	26	1277		428	151	284			100		-	- 201		1.4	032	Found Diversion to Raw Sewage 2 STREAM IS UNDER OPERATION
19 Apr 2021	17.99	2450	26	1260	75	384	147	289	26	916	7.9	- 68	21	33		-	Name of	
10 Apr 2021	18.85	24.10	26	1254	7,6	448	155	305	26	945	7,9	96	22	35	230	1.7	0.00	2 STREAM IS UNDER OPERATION 2 STREAM IS UNDER OPERATION
1 Apr 2021	17.16	24.00	26	1310	15	540	185	322	26	1001	7,9	104	25	37		15	0.00	Found Dye color to Raw Sewage
	0.00	10.00	720	2007	-15	484	160	316	26	1009	7.9	102	22	34		16	6.00	2 STREAM IS UNDER OPERATION
2 Apr 2021	18.48	24.00	26	1297	76			0.00	223		-	110	26	36		12	2.00	2 STREAM IS UNDER OPERATION
3 Apr 2021	18.65	24,00	27	1305	10.1	512	170	323	27	1115	7,9	-	111	-	7450	1000		Found Dye color to Raw Sewage 2 STREAM IS UNDER OPERATION
4 Apr 2021	17.99	24.00	27	1296	7.6	448	156	294	27	1090	7.5	92	23	13	290	13	2.00	2 STREAM IS INDEX OPERATION
575		24.10	27	1246	7.6	432	148	-313	27	1098	7.9	96	21	36		1.7	0.00	Found Dies color in Raw Sewage
5.Apr 2021	15.40	4534		5.00	7.5	200	2500		44	MARC	7.9	50	22	34		1.4	0.00	2 STREAM IS UNDER OPERATION Found Dwy color to Raw Sewage
6 Apr 2021	1873	24.10	27	1732		440	157	317	17	1015	2.5			-		-		2 STREAM IS UNDER OPERATION
7 Apr 2021	18.15	24.00	27	1246	5	448	165	365	27	1023	7.9	96	24	36		1.2	0.00	Found Describer in Raw Sewage
	100	22112	27	1225	7.5	3%	145	283	17	991	7,9	98	21	33	250	16	0.00	2 STREAM IS UNDER OPERATION
8.Apr 2021		24.00		1000	7.5		162	307	27	1012	7.9	92	23	36		15	1.00	2 STREAM IS UNDER OPERATION
9 Apr 2021	19.06	24.00	27	1260	-	416	-	100		100	7.9	104	25	34	240	1.3	0.00	2 STREAM IS TINDER OPER #
LIM HINGS	-	24.00	27	1320	73	512	187	323	27	1128	1.7	101	100	100	The same		18,17 Res	12
	549.69		25.00	1,307.60	422	475.33	163.70	205 27	25.90	1,012.00	7.50	98,60	22.80	34.73	241.2		27 MAR. 2021	12/



Annexure 4: Site Inspection Report, Inspection done on 27.04.2021 (Sajari)

ST	C		та колтон фол		3,4117	QN3	Date 27/04/2023	ASPECTED BY
1.56. dg	ujment	Assument of Conert Condition	Assessment of Current Condition Proces	Corrective Action Suggested by STC	Consider Action Completed by	Drigman Date of	Proposed Date to Resolve by CSUPS	Current Status
1 0	Section Chardier				OMF.		MIDWING GOOD	Compliance
1 Ne	d laterapeur,	Operator		Administration of Seria Acquire on maching serial control of the C		Personal de la Constantina del Constantina de la Constantina del Constantina de la C	No.	75.00
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100	Hapfore II	Sector						
lori	Magnifus 3	Securit						
tai	NBSSN3	No Carlot		feld atmospheride		2194300		506



T	9		IFE MONCHON NOCKY		944117	-EME	No. 27(N)2013	MATERIAL SE
to	onet	Assumed of Great Online	Assessment of Current Condition Plats	Conscious Action Suggested by STC	Considire Action Completed by SNAPL	Original Date of	Proposed Data to Resolve by CRAPI.	Cornect Status Compliance
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	econ Not will	Mittered		reduced configuration and relationships		1020		REN
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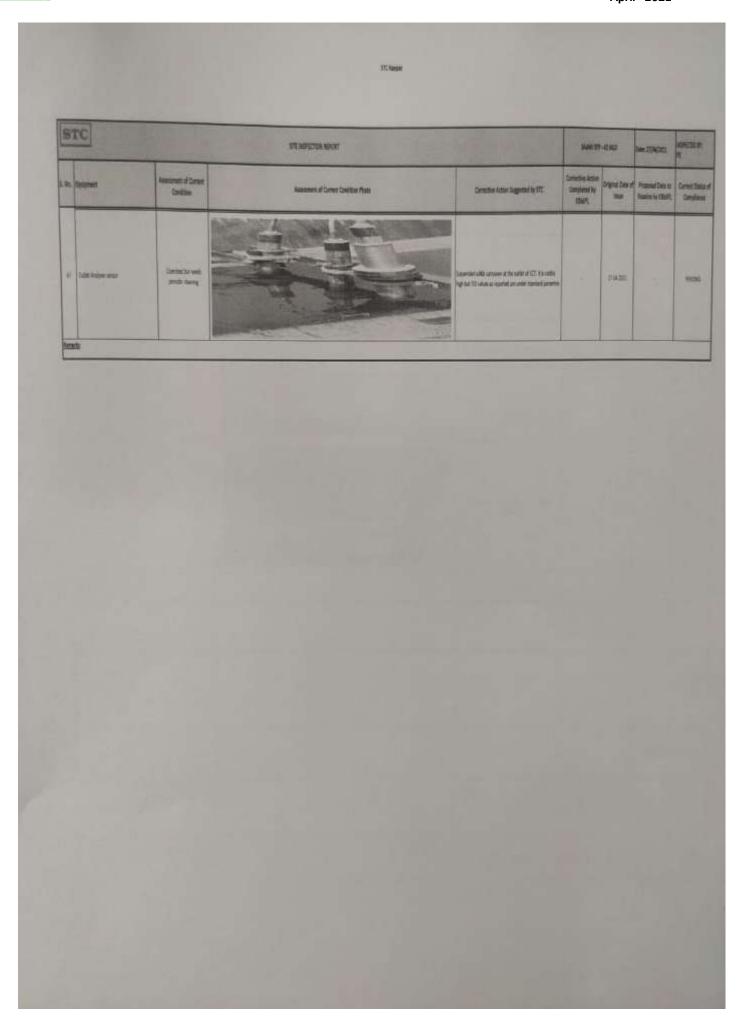


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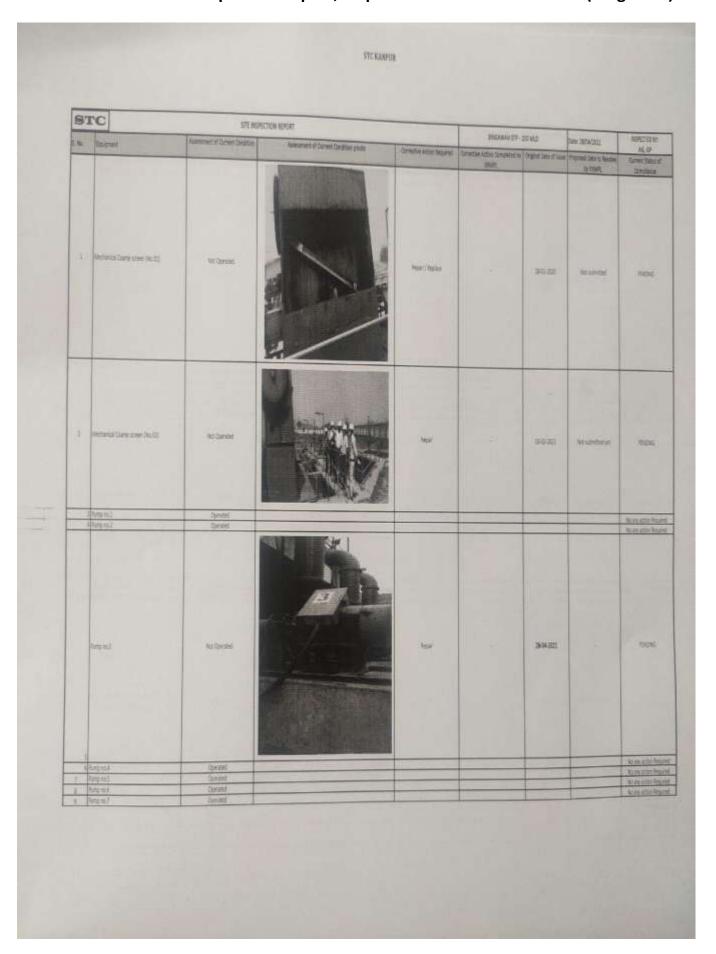


Annexure 5: Monthly Performance Report of Bingawan for April 2021

	210 MLD SEWAGE TREATMENT PLANT, RINGAWAN, KANPUR MONTHLY PLOW & LAB REPORT															
-					HAWK	ENICE					-	000000			HONTH	Apr-2021
Date	ROW IN HILD	Pieti Rin in HRS	Temp	T05	PH (7-46)	(00) (520mg/l)	800 (222mg/l)	755 (410mg/l)	Temp	105	PH [7-6]	COD (<590mp/l)	BOD chtma/li	735 (<50mg/l)	POWER SHUTHOWN	REMARK
	OH THE		*	pps	pps.	Man	Ma	Ne	4	ppm	9300	bles	pa	9700	HS	
1-kpr21	91,81	24.8	35	1946	73	78	175	410	26	1090	73	100	- 42	23	1135	33ks Sale Fack from NesCL
Hp-It	TEE	260	25	1946	7.2	748	16	425	8	3300	7.4	176	- 44	i3	0.00	
Hpill	7605	203	D	1876	71	424	100	145	26	1000	11	192	47	46	2.95	
4.fpr-21	188	268	27	1345	21	580	125	435	26	1070	72	17n	44	59	1.00	
SApril .	1907	260	77	1045	72	568	126	310	II	1000	72	390	6	σ	0.00	
Maril .	1832	24.0	20	1020	32	581	185	(5)	27	100)	73	176	Œ	9	0.00	
7-April 1	126.27	268	70	1100	33	6256	225	481	20	1999	72	176	- 65	9	0.00	
\$4p-21	130,00	243	28	1996	72	100	229	(12	zı	1000	72	168	50	9	600	
MpJI	19425	24.8	2	1949	72	594	315	485	zi	1990	72	199	40	55	LIS	
164e-21	132,61	24.0	25	1870	71	90	175	5)5	26	1000	13	151	47	til.	0.00	
114p-21	1902	24.0	2	1690	7.5	512	165	468	20	1000	72	152	42	e	0.00	
15-ge-21	131.73	310	28	1040	7,1	504	166	600	28	1070	72	544	48	53	0.00	
15-lan-Zt	123.06	243	78	1810	7.1	510	175	440	20	1060	72	151	.41	59	250	Tilky Side Facili from ResCO
Wigoli .	120.75	268	75	1090	7.2	540	170	475	20	1119	7,1	364	e.	4	130	Tile Side Feelt from 64500
154p-21	80.19	203		- 124	7.2	90	100	65	26			150	6		88	23ky Side Fault from KerCO:
16/apr21	159.51	263	3	1678	71	7%	190	940	20	3,099	13	286	48	46	0.00	
IT-Apr-21	16735	10	26	1078	11	196	185	430	38	1090	-	534	46	5)	0.00	
	V.V.2-5-1	1265	35	1059	21	60	170	(25	20	1049	13	176	Q.	#	2.00	
Il-igr-Ci	345.46	30	3	1000	7.1	597	165	470	3	1999	73	191	6		0.00	
19-lgr-21	1954	20.0	3	359	- 03	65	290	452	2	1946	73	298	46	45	131	
26-lp-21	1,94.90	268	25	1529	73		170	460	3	1960	72	224	di.	47 56	130	Tiles Sale Fault from KerCC
21-Apr-21		74.0	3	1059	23	. 640	-	-	3	1999	73	192	6	n	288	10 in Sub-Fault from ResCO
11-kpr-21	14372	30)	25	1045	13	689	365	440	-	1996	73	200	0	12	7.62	Siles Sale Fault from KerCO
13-lgr-21	(6.0)	741	.15	709	7.1	68	155	465	N		73	184	4	47	1.00	No of confession of the last
24-Apr-21	16.6	24.0	76	1860	73	160	180	462	3	1870		-		- 46	1.00	
15-tp-21	12530	24.0	1	1171	7.1	625	175	476	3	1996	73	192	4			33 by Side Fiedt from Nex CO
26-Apr-21	19625	20	75	1040	7.1	50	165	462	25	1860	13	194	-0	44	12.07	
27-Apr-21	95,25	24.0	3	100	73	ult	178	(5)	3	1050	13	210	- 62	- 40	11.5	10to Side Fools from KerCD
28-140-21	12136	100	28	1000	7.1	643	165	(0)	20	1670	13	216	ħ	53	0.09	
24-lp-73	13654	20	35	1980	12	773	175	495	25	1109	13	数	48	56	1.00	(A)
10.40-21	14.98	20	28	1070	72	736	170	46	3	1080	72	ZH	51	-6	£.00	
70134	3852.04				100	Mis I										5 10
AVE	129.40	16.00	77.8	1056.3	7.1	822.4	178.7	453.1	176	1,072.0	7.3	187.2	46.4	569	66.25	EW.



Annexure 6: Site Inspection Report, Inspection done on 28.04.2021 (Bingawan)





ST	С	BIGHANN TIV-	CME	Dele: 38/54/2011	REPUTED IN			
5. No.	Egypted	Assessment of Current Greatest	Assessment of Comment Consistent photos	Cornective Artists Required	Commercial Action Commoderate by CRAMIT.	triprofiles of lane	Proposes Data to Reside by HTMP.	
- 1	Principal Company	Treas			III/III		of mark	South Street
	Monte			bar		13-13-903	to undergr	TOON
11	Maria II Maria II Maria II Maria II Maria II Maria II	Oreini Oreini Decel Oreini						Nemadori Nemadori Nemadori
## ·	When I be seen to II	Williams		New Y		oom.	Ni simini di	THON
11.	Motorcy for several all Several for Motorcy September (section)	20101 20105						NAVATE !
n.	Dit seroni Andresia Deritar in 21 Mai Pine Caeller drive Depart purps	Set Covarial		Nose		1410	Name of the last o	TOOM
31	Karsal nguya bina ni Dika	Oracl						No. of Lotter
-	ne Safer the Standard In ender technicologies and No. ne Safer the Standard	Direct :						N.Ph 4200



STEKANPUR

SI	rc .	SITE NO	PECTION REPORT		SINGAWAN STP-	nows.	Date: 20/04/2021	NIPECTED BY
Sile:	Statment	Assument of Current Shakker	Alterations of Current Condition photo	Consider Action Required	Corrective Action Completed by		Proposed Date to Recoins	AG GF Current Status of
1	Otherwal section District to 30 key, one Destinate Districts	Opened			79/0		by Milate.	Orpleta
э	Utilities (c.)	Development for the stage		Percurso of the settlemental		The second		At an active Property
N N	40 (see- e.)	Developables		Mortá Restrictor di tre UKA mictori		15/35/0001		50%
		300000		Anna A		2000		MANG
3	UNI NOT TO	State Martenance		Model Reserve of Internal. Change of Hechster		DW.III	End of Dec. 2020	Hons
3.	USAuco na	Owner and Shirt Not Rudge States and States	7.000	Vectors of two left sectors 1900 to 1		bo an	No winded yet	Hose
8	Mako es	Distribution in the	ing m	Agus Repport of Hanas. George et Hadrean		15/1/201	No sandrejet	ESS
3	DEFINITION OF	Table Martineria	Reactor Norking in particular	Appelifectament of instruction and instruction and instructions.		SERVEL.	Not submitted yet	IBOM)

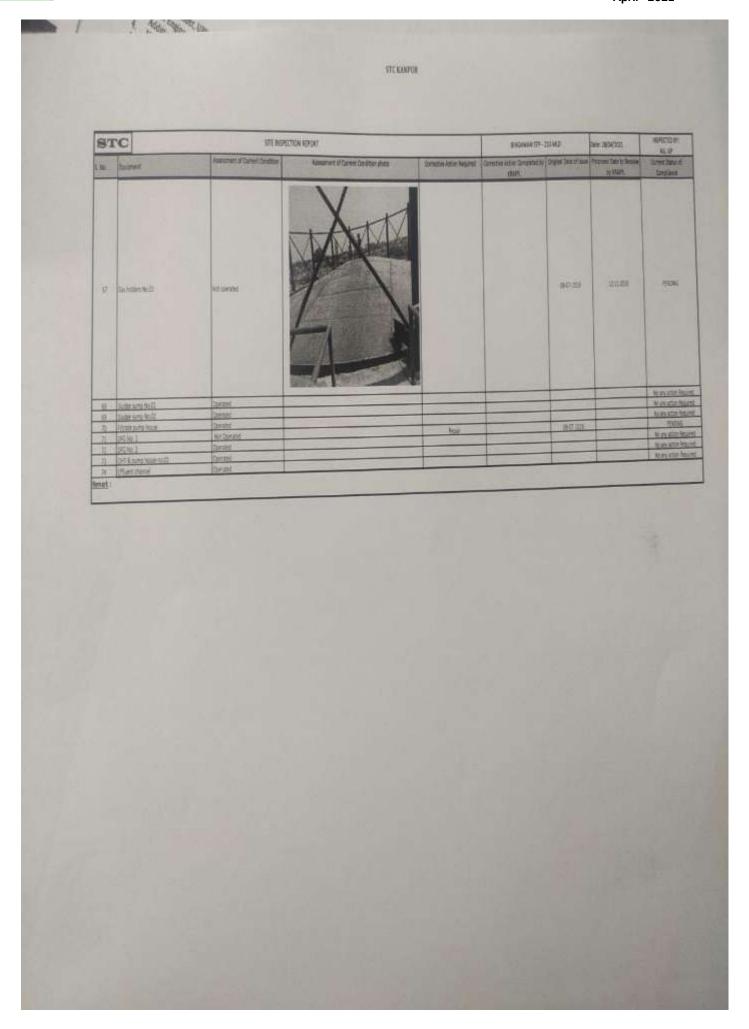


87	rc	SITE WSP	ECTION REPORT	SINGEWAK (TP-	20100	Dev: 38/54/303	16970 et	
i te	Epigneri	Assumed of Current Designon	Attenues of of Current Consider profits	Controller Action Pergament	Corrective Action Completed by	Original Date of Issue		AS, OP Constituted
- 3	(AGE Reicht no.)	Constitutibilities of the		Directories	1945		SHOUR.	Simpleia
×	LASS Reactor no V	Demogratike to sugar		Michigan of the GAGE macon		to be seen		F/CNG
. 11	All haden sold	Daniel out furned Operated but filed with during		30/00		nom		HMONG .
U	DEStance In Co.	Sproto to the well area.		Stranguis matheman				PIONE
11	(Althorna)	Omiophic New York new		Ottorig and resolution Cleaning and resolution				FDONE FDONE
M.	THE STATE OF	Constitution of the servicing		Serger receive				15045
	ISD hiero-real	Constitution of the control of the c		Chamba and reactivation				FERENCE
- 17	USE Nachrick Life	Completitutified with state-		Dentist wouter				PONE
-		Omite for find an index		Description and selection				F00%
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Annexure 7: Site Inspection Reports at 130 MLD STP Jajmau

Inspection Report of 130 MLD STP Jajmau

Visit & Inspected on date 16-03-2021

Following STC, UPJN & KRMPL staffs were present

- 1 Mr. R.K Verma, Assistant Engineer, UPJN
- 2 Mr. Rajesh Kumar, Assistant Engineer (E&M)
- 3 Mr. Shahzeb Iqbal, JE, UPJN
- 4 Mr. Ajay Kanojiya, Chemist, UPJN
- 5 Mr. Ankit Singh, J.E, UPJN
- 6 Mr. Ashish Seyal, J.E, UPJN
- 7 Mr. Mahipal Singh, J.E, UPJN
- 8 Mr. O.P. Asati, O&M Senior Engineer, STC
- 9 Mr. Vikas Sharma, Support Engineer (Civil), STC
- 10 Mr. Ajay Kumar Goyal, Support Engineer (Mech.),STC
- 11 Mr. Rahul, Support Engineer (Electrical),STC
- 12 Mr. Amit Bhamray, O&M Manager, KRMPL
- 13 Mr. Vinod Gunjal, Site in-charge, KRMPL
- 14 Mr. Vijay Kumar, Project Coordinator, KRMPL

Observations:

Formal handing over of 130 MLD STP was made to M/S KRMPL on dated 01.03.2021 in presence of GM, UP Jal Nigam under administrative witness and intervention of administrative team under ACM-II Kanpur. Till now, no substantial and effective maintenance is observed at site except some activities in presence of very few staff of KRMPL.

List of observation are mentioned below:

1. Collection chamber and Screen chamber:

- Repair of cracks and other renovation works to be completed as per approved rehab & retrofit report
 of 130 MLD STP.
- Plastering and painting works to be done at civil structure.
- All Sluice gates is rusted and needs to be lubricated.
- Manual Coarse screen should be cleaned properly.
- All temporary screens need to be clean properly.
- No any Manual tractor trolley available at site for Screen waste disposal.
- Grit Screen disposal should be separately disposed.
- No Light arrangement for night shift working found at Primary Treatment unit.
- Proper housekeeping should be maintained at site.

2. Grit chamber and mechanism:



- Out of 3 nos. of grit mechanism, 1 no. grit chamber is under maintenance. 2nd no. grit mechanism is in working condition but its classifier is not in working. 3rd no. grit mechanism is in working condition.
- All Grit classifiers are found in worst & rusted condition.
- No proper arrangement for cleaning of grit chamber no. 1 found at site and the maintenance work needs to be expedited.
- Railing over the Grit chamber needs repairing and painting.
- Grit assembly flip gates are totally damaged and need to be replaced.
- No proper arrangement for disposal of the grit has been found at site.
- All ON/OFF remote system is not working.
- Casing pipe over cables is found rusted and need to be replaced.
- Cable found damage and needs to be replaced.

3. Primary Sedimentation Tank:

- There are total 3 nos. of Primary Settlement Tank out of which 1 no. PST is under maintenance. 2nd no. PST is found overflow.
- Maintenance work of PST no. 1 found very slow and needs to be expedited.
- It was observed that the PST 1 which is under maintenance is filled with sludge and there are no proper arrangement has been found at site to remove the sludge.
- Plaster & Painting work of civil structure to be carried out.

4. Aeration Tanks:

- Out of 18 nos. of aerators installed, only 8 nos. aerators are in working condition.
- Remaining 10 nos. aerators are found in damaged condition.
- Out 3 Aeration tank, 1 no. tank is under maintenance.
- There should be Canopies over each Motor installed at site.
- Hand Railing is in damaged condition which will cause a great threat to safety of human life. Hence, should be replaced.
- At some part of Aeration Tank's walkways, Hand rail is found missing. It should be provided with immediate effect.
- Stencilling for denoting its details are required for all aerators & for all equipments.
- It has been observed that nobody checking aerators/coupling temperature & vibration on daily basis, due to non availability of Infrared Thermometer & Vibration meter.
- Suspended waste has been found floating in aeration tank which shows that the screening has not been done properly. In otherwise condition, it should be checked and cleaned on regular basis.
- Repair of cracks and other renovation works to be taken up as per approved rehab & retrofit report.
- Cable dressing has not been done properly and to be laid in cable trays.
- All gates needs to be properly lubricated.

5. Sludge Thickener and Blending tank:

- Out of total 2 nos. of sludge thickener, only 1 no. thickener found in working condition.
- Painting and repair of MS Bridge to be carried out as the bridge is getting corroded.
- There is only 1 blending tank in 130 MLD STP and found in damaged condition which needs its renovation.
- Repair work (Plaster & Painting) work to be carried out at Blending Tank.



Proper housekeeping to be carried out.

6. Return Sludge Pump House (RSPH):

- Out of 4 nos. return sludge pump installed, 2 nos. return sludge pump (pump no. 02 & 03) are not in working condition since handover date (01.03.2021).
- Light fixtures are found in damaged condition.
- Cable dressing has not been done properly and to be laid in cable trays.
- Voltmeter / Ammeter in panel room are not in working condition.
- Proper cleaning and housekeeping of the RSPH is to be done.
- Plaster & Painting work of civil structure to be carried out.

7. Final Sedimentation Tank:

- There are total 3 no's of Final Sedimentation Tank (FST), out of which FST no. 1 is in under maintenance.
- No proper arrangement for cleaning of FST no. 1 found at site and the maintenance work needs to be expedited.
- FST no. 2 &3 are found in submerged / overflow condition.
- Plastering and Painting works to be carried out at FST Civil Structures and related equipments.
- There is no proper approach road or signage board to FSTs.

8. Treated Effluent Pump House (TEPH):

- TEPH civil structure is in worse (Damaged) condition.
- Treated effluent sump is found totally damaged.
- Exhaust fan was found missing in the TEPH.
- Out of 11 nos. treated effluent pump installed, 05 nos. treated effluent pump are not in working condition since handover date.
- All pumps are in worst condition.
- Some pumps suction line and discharge line are open and needs to be repaired immediately.
- No any stencilling denoting its details available on pumps.
- Light fixtures are found in damaged condition.
- Cable dressing has not been done properly and to be laid in cable trays.

9. Inlet and Outlet flow meter:

- Inlet & outlet Flow meters are already installed at site but not in working condition.
- Inlet & outlet Flow meters need to be repaired and calibrated on the priority basis.
- Meter box are also need to be replaced.

10. Important Points to be consider on immediate basis:

- It is necessary to intimate the client before taking any unit under renovation / maintenance.
- There was no proper planning including backup plans for the units taken under cleaning and renovation.
- Only 12 no. of manpower has been engaged for operation and maintenance of 130 MLD STP, Jajmau. As per requirement this manpower is much less than the required. Deployed workmen too do not have proper skill to operate the plant.



- Treated effluent is being overflowed to the bypass channel and gets mixed in river Ganga against the norms and permission of UPPCB/CPCB. It should be checked & controlled immediately from flowing to the river.
- PST and FST are in overflow condition and to be controlled immediately.
- Process of cleaning and renovation of units taken under maintenance needs to be expedited.
- Log book of equipments are not maintained at site.

11. Miscellaneous:

- Front side should be cleared for the construction of new CCT & TEPH.
- All the structure found in the damaged condition need to be repaired and renovate as per approved renovation and retrofit report.
- Street Light Junction boxes have loose mounting & are damaged. It should be repaired soon.
- All Rusted junction boxes & Panels are to be repair & painted.
- All Pole conduit dressing is not properly done.
- Cable should be laid in cable tray.
- All gates should be properly lubricated and painted.
- Sufficient staffs were not present at site for proper operation and maintenance of the plant.
- Proper housekeeping is to be carried at site.

Enclosure: Photographs are attached for your kind reference.







PST no. 01 under maintenance.



PST no. 02 Overflow condition



Inflow Flow meter



Aeration tank



Page 69 of 72



Sludge Thickener









Return Sludge Pump House (RSPH)



Treated Effluent Sump





Treated Effluent overflow to the Bypass channel to River Ganges



List of participants in the visit dated 16.03.2021

