

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

MAY - 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
Consultant 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

MONTHLY PROGRESS REPORT – HAM KANPUR	5
1. INTRODUCTION	5
2. HYBRID ANNUITY MODEL (HAM).....	6
3. OBJECTIVES.....	6
4. HAM KANPUR PROJECT AT A GLANCE	7
5. PROJECT 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.....	11
5.7 SAJARI FACILITIES.....	11
6. PHYSICAL PROGRESS OF WORK	12
6.1 MILESTONE WISE ACTIVITIES AND PROGRESS: PANKHA STP FACILITIES.....	12
6.2 MILESTONE WISE ACTIVITIES AND PROGRESS: UNNAO STP	41
6.3 WORK PROGRESS AT SHUKLAGANJ STP	56
7. PRESENT STATUS AND ISSUES OF HAM PROJECT KANPUR.....	58
7.1 PANKHA 30 MLD STP FACILITIES	58
7.2 UNNAO 15 MLD STP FACILITIES	58
7.5 42 MLD SAJARI STP	60
7.6 210 MLD BINGAWAN FACILITIES	62
8. STATUS OF BEP & OTHER DETAILS.....	64

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

Rapidly increasing population, rising standards of living and exponential growth of 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)andtheir O&M for 15 years;
- rehabilitation of existing 130 MLD Jajmau Phase-I STP facility with O&M for 15 yearsand;
- O&M for three existing STP facilities (43 MLD Jajmau Phase-II, 210 MLDBingawan&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 three new STP facilities at Pankha, Unnao and Shuklaganj with O&M for 15 years, rehabilitation of existing Jajmau 130 MLD STP with O&M for 15 years and O&M of existing 210 MLD USAB based Bingawan STP facilities, 43 MLD Jajmau and for 42 MLD Sajari STP facilities for 15 years 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.

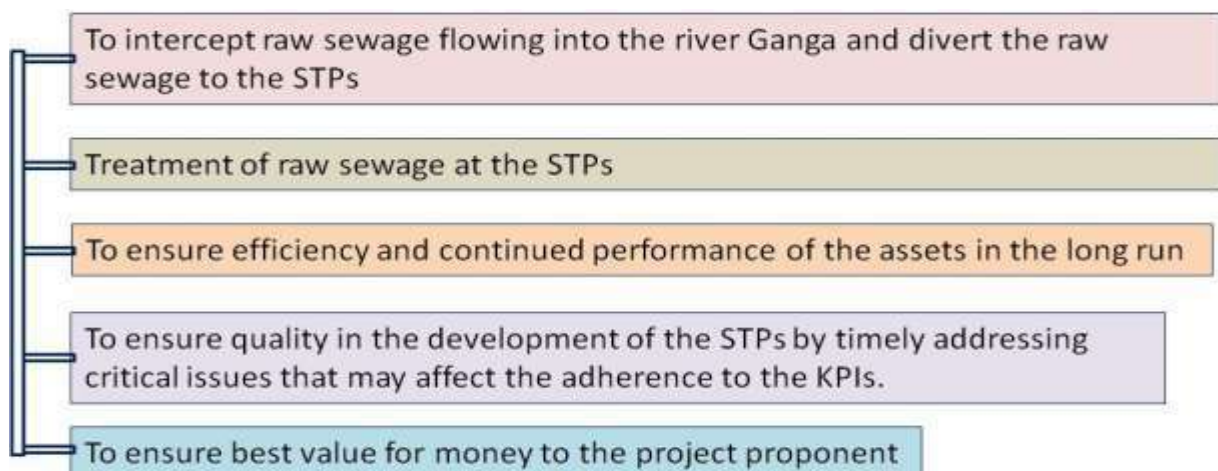


Figure 1: Objectives of NMCG and UP JAL NIGAM

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 Agreement	:	14/GM/2018-19 dated 21.12.2018
Cost of Project (CAPEX+OPEX)	:	Rs. 816.25 Cr. (CAPEX 255.50 Cr. + OPEX 560.75 Cr.)
Effective Date	:	11.10.2019
Completion date (as per contract)	:	24 Months from effective date (21 months construction + 3 months trial run)
O&M period	:	15 years after last Commercial Operation Date (COD)
Description of Work	:	<ul style="list-style-type: none"> ➤ Construction of three new STPs (SBR) at different locations (30 MLD at Pankha, 15 MLD at Unnao and 5 MLD STP at Shuklaganj) and related infrastructure with 15 years of O&M; ➤ Rehabilitation of 130 MLD (Phase-I) STP at Jajmau with construction of 200 MLD TEPS and 173 MLD CCT at Jajmau with O&M for 15 years; ➤ O&M of 43 MLD (Phase-II) Jajmau facilities, O&M of 210 MLD Bingawan facilities and O&M of 42 MLD Sajari facilities for 15 years;

5. PROJECT WISE DETAILS OF COMPONENTS UNDER HAM KANPUR PROJECT

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

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

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

5.1 PANKHA FACILITIES

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

Table 5.1: Pankha Facilities

SN	STP Facilities	Capacity/dia. /size	No. of units/length
	Date of Start- Effective Date (11.10.2019)		
	Scope of Work- New Construction and O&M		
1.1	STP	30 MLD	1
1.2	MPS	115MLD	1
1.3	ICI Nala IPS	25 MLD	1
1.4	Sundar Nagar IPS	20 MLD	1
1.5	Thermal Nala (A)(tapping)	22 MLD	1
1.6	Thermal Nala (B)(tapping)	8 MLD	1
1.7	ICI Nala (tapping)	7.85 MLD	1
1.8	Rising main (ICI Nala IPS to collection chamber)	800mm-φ	6.91km
1.9	Rising main (Sundar Nagar IPS to collection chamber)	800mm-φ	0.651km
1.10	Common Gravity main (collection chamber to MPS)	2000mm- φ	1.948km
1.11	Sewage network	350mm-φ	2.771km
		400 mm-φ	1.359km
		450 mm-φ	1.272km
		500 mm-φ	1.243km
		600 mm-φ	1.778km
		700 mm-φ	1.487km
		800 mm-φ	1.012km
		900 mm-φ	2.170km
		1200 mm-φ	3.634km
		1600 mm-φ	1.596km
		2000 mm-φ	1.948km

5.2 UNNAO FACILITIES

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

Table 5.2: Unnao Facilities

SN	STP Facilities	Capacity/dia. /size	No. of units/length
	Date of Start- Effective Date (11.10.2019)		
	Scope of Work- New Construction and O&M		
1.1	STP	15 MLD	1
1.2	Sump cum Pump house (MPS)	40 MLD	1
1.3	Trunk Sewer	1200mm ϕ	3.6Km
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. /size	No. of units/length
	Date of Start- Effective Date (11.10.2019)		
	Scope of Work- New Construction and O&M		
1.1	STP	5 MLD	1
1.2	Sump cum Pump house (MPS)	20 MLD	1
1.3	Connecting sewer (in zone 2)	400-500mm ϕ	200m
	Effluent Disposal line (I&D to STP)	400mm ϕ	310m
		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	Capacity/dia. /size	No. of units/length
	Date of Start- Effective Date (11.10.2019)		
	Scope of Work- Renovation and O&M		
1.1	STP 1 on ASP technology with power Generation	130 MLD	1
1.2	Sump cum Pump house (TEPH)	200 MLD	1
1.3	CCT	173 MLD	1
1.4	Nawabganj IPS	1.09 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 CSPA	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/ dia. /size	No. of units/length
	Schedule Handing Over Date- 01.10.2019		
	Scope of Work- O&M		
1.1	STP 2 on ASP technology with power Generation	43 MLD	1
1.2	Sanjaypuram IPS	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 /dia. /size	No. of units/length
	Schedule Handing Over Date- 01.04.2019		
	Scope of Work- Renovation and O&M for 15 years		
1.1	STP on UASB Technology with power generation	210 MLD	1
1.2	Installation of online monitoring system (RTOLMS)		L.S.
1.3	Bingawan MPS	200 MLD	1
1.4	Rakhimandi IPS	100 MLD	1
1.5	Halwakhanda IPS	20 MLD	1
1.6	Munshipurwa IPS	67 MLD	1
1.7	ShisamauNala (tapping)	8MLD	1

5.7 SAJARI FACILITIES

Project wise component detail of Sajari is given in table 5.6

Table 5.6: Sajari Facilities

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

6. PHYSICAL PROGRESS OF WORK

As per the provision of Concessionaire Agreement, effective date of the project was to be declared before 19th April 2019. Effective date for work execution under HAM Kanpur project was declared on 11th October 2019. Hence, work related to construction / execution of new STP facilities and related infrastructure i.e.

- 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-4 (From 26th Jan'21 to 01 July'21)		Achieved against 4th Milestone till 31.05.2021		Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone till 31.05.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone till 31.05.2021	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
1	SBR Basin Area												
	CIVIL WORK								0				0
	Site Clearance				0				0				0
	Excavation				-				-				-
	PCC				-				-				-
	RCC Foundation/Raft		-		-		-		-		-		-
	Wall 50% of total lift work		-		-		-		-		-		-
	Walls (balance 50% of Total Lift work)	40%	98,38,400.00	35%	86,08,600.00		-		-		-		-
	Baffle Walls work	40%	49,19,200.00	35%	43,04,300.00	5%	6,14,900.00		-		-		-
	Walkway/Platform	28%	34,43,440.00	10%	12,29,800.00	42%	51,65,160.00		-	30%	36,89,400.00		-
	Finishing Work		-		-		-		-		-		-
	MECHANICAL WORK				-				-				-
	A. DECANTERS				-				-				-
	(i) On supply of machinery/equipment at site				-	100%	313,59,900.00		-				-
	(ii) On completion of erection works				-				-				-
	(iii) On completion of Testing of equipment				-				-				-
					-				-				-
	B. DIFFUSERS				-				-				-
	(i) On supply of machinery/equipment at site				-		-		-	50%	104,53,300.00		-
	(ii) On completion of erection works				-				-				-
	(iii) On completion of Testing of equipment				-				-				-
					-				-				-
	C. RAS & SAS PUMPS				-				-				-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)		Achieved against 4th Milestone till 31.05.2021		Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone till 31.05.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone till 31.05.2021	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
	(i) On supply of machinery/equipment at site				-		-		-	50%	104,53,300.00		-
	(ii) On completion of erection works				-				-				-
	(iii) On completion of Testing of equipment				-				-				-
	D. PIPES & FITTINGS				-				-				-
	(i) On supply of machinery/equipment at site				-	100%	104,53,300.00		-		-		-
	(ii) On completion of erection works				-				-				-
	(iii) On completion of Testing of equipment				-				-				-
2	Chlorine Contact Tank Area				0				0				0
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		-
	RCC Foundation/Raft		-		-		-		-		-		-
	Wall 50% of total lift work		-		-		-		-		-		-
	Walls (balance 50% of Total Lift work)		-		-		-		-		-		-
	Baffle Walls work	30%	11,06,820.00	20%	7,37,880.00		-		-		-		-
	Finishing Work		-		-		-		-	100%	27,67,050.00		-
3	Chlorination House Area				0				0				0
	CIVIL WORK				-				-				-
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		-
	RCC Foundation/Column footing		-		-		-		-		-		-
	Column & Beam		-		-		-		-		-		-
	Ground floor Slab	100	9,22,350.00		-		-		-		-		-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)		Achieved against 4th Milestone till 31.05.2021		Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone till 31.05.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone till 31.05.2021	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
		%											
	Column & Beam		-		-		-		-		-		-
	Roof Slab		-		-	100 %	18,44,700.00	90 %	16,60,230.00		-		-
	Brickwork & Plaster	25%	4,61,175.00	10%	1,84,470.00	75%	13,83,525.00		-		-		-
	Finishing Work		-		-		-		-	100 %	18,44,700.00		-
	MECHANICAL WORK				-				-				-
	A. CHLORINATION SYSTEM				-				-				-
	(i) On supply of machinery/equipment at site				-				-	100 %	31,35,990.00		-
	(ii) On completion of erection works				-				-				-
	(iii) On completion of Testing of equipment				-				-				-
					-				-				-
	B. HOIST WORKS				-				-				-
	(i) On supply of machinery/equipment at site				-				-	100 %	7,83,997.50	100 %	7,83,997.50
	(ii) On completion of erection works				-				-				-
	(iii) On completion of Testing of equipment				-				-				-
					-				-				-
	ELECTRICAL & INSTRUMENTATION WORK				-				-				-
	(i) On supply of machinery/equipment at site				-				-	100 %	15,67,995.00		-
	(ii) On completion of erection works				-				-				-
	(iii) On completion of Testing of equipment				-				-				-
					-				-				-
4	Sludge Thickener Area				0				0				0
	CIVIL WORK				-				-				-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)		Achieved against 4th Milestone till 31.05.2021		Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone till 31.05.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone till 31.05.2021	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		-
	RCC Foundation wall/base slab		-		-		-		-		-		-
	Wall 50% of total lift work		-		-		-		-		-		-
	Walls (balance 50% of Total Lift work)	40%	11,06,820.00	40%	11,06,820.00		-		-		-		-
	Finishing Work		-		-		-		-	100%	18,44,700.00		-
	MECHANICAL WORK				-				-				-
	SLUDGE THICKENER MECHANISM				-				-				-
	(i) On supply of machinery/equipment at site	100%	47,03,985.00		-		-		-				-
	(ii) On completion of erection works				-	100%	5,53,410.00		-				-
	(iii) On completion of Testing of equipment				-				-	100%	2,76,705.00		-
5	Inlet / Stilling Chamber Area				0				0				0
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		-
	RCC Foundation/Column footing		-		-		-		-		-		-
	Column & Beam		-		-		-		-		-		-
	RCC Slab	100%	9,22,350.00	100%	9,22,350.00		-		-		-		-
	RCC Wall	100%	12,29,800.00		-		-		-		-		-
	Final finishing including Staircases,Railing,Shade,Painting, etc.		-		-		-		-	100%	12,29,800.00		-
6	Manual & Mechanical Fine Bar Screen				0				0				0

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)		Achieved against 4th Milestone till 31.05.2021		Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone till 31.05.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone till 31.05.2021	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
	Chamber Area												
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		-
	RCC Foundation		-		-		-		-		-		-
	Column & Beam		-		-		-		-		-		-
	RCC Slab		-		-	100 %	12,29,800.00		-		-		-
	RCC Wall		-		-		-		-	100 %	12,29,800.00		-
	Walkway/Platform		-		-		-		-		-		-
	Finishing Work		-		-		-		-		-		-
7	Grit Chamber (Mechanical Cleaned) & (Manually Cleaned)				0				0				0
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		-
	RCC Foundation		-		-		-		-		-		-
	Column & Beam		-		-		-		-		-		-
	RCC Slab		-		-	100 %	12,29,800.00	50 %	6,14,900.00		-		-
	RCC Wall		-		-		-		-	100 %	12,29,800.00		-
	Walkway/Platform		-		-		-		-		-		-
	Finishing Work		-		-		-		-		-		-
	MECHANICAL WORK				-				-				-
	A.MECHANICAL FINE SCREEN				-				-				-
	(i) On supply of machinery/equipment at site	100 %	20,90,660.00		-				-		-		-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)		Achieved against 4th Milestone till 31.05.2021		Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone till 31.05.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone till 31.05.2021	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
	(ii) On completion of erection works				-				-				-
	(iii) On completion of Testing of equipment				-				-				-
	B.MANUAL FINE SCREEN				-				-				-
	(i) On supply of machinery/equipment at site	100 %	31,35,990.00		-				-		-		-
	(ii) On completion of erection works				-				-				-
	(iii) On completion of Testing of equipment				-				-				-
	C.GATES				-				-				-
	(i) On supply of machinery/equipment at site		-		-		-		-	100 %	20,90,660.0 0		-
	(ii) On completion of erection works				-				-				-
	(iii) On completion of Testing of equipment				-				-				-
	D.CONVEYOR BELTS				-				-				-
	(i) On supply of machinery/equipment at site		-		-		-		-	100 %	20,90,660.0 0		-
	(ii) On completion of erection works				-				-				-
	(iii) On completion of Testing of equipment				-				-				-
	E. GRIT MECHANISM				-				-				-
	(i) On supply of machinery/equipment at site	100 %	52,26,650.00	100 %	52,26,650.00		-		-		-		-
	(ii) On completion of erection works				-				-				-
	(iii) On completion of Testing of equipment				-				-				-
					-				-				-
8	Flow Measurement Channel Area				0				0				0
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		-
	RCC Foundation		-		-		-		-		-		-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)		Achieved against 4th Milestone till 31.05.2021		Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone till 31.05.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone till 31.05.2021	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
	Column & Beam	40%	7,37,880.00	40%	7,37,880.00	10%	1,84,470.00		-		-		-
	RCC Slab		-		-	100%	24,59,600.00		-		-		-
	RCC Wall		-		-		-		-	100%	24,59,600.00		-
	Walkway/Platform		-		-		-		-		-		-
	Finishing Work		-		-		-		-		-		-
9	Admin Bldg Area				0				0				0
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		-
	Column footings/Foundation		-		-		-		-		-		-
	Column & Beam	20%	3,68,940.00	20%	3,68,940.00		-		-		-		-
	Ground Floor Slab		-		-	100%	18,44,700.00		-		-		-
	1st Floor Slab		-		-		-		-	100%	18,44,700.00		-
	Roof Slab		-		-		-		-		-		-
	Brickwork & Plaster		-		-		-		-	50%	13,83,525.00		-
	Finishing Work		-		-		-		-		-		-
	ELECTRICAL WORK				-				-				-
	LT/HT PANEL				-				-				-
	(i) On supply of machinery/equipment at site			50%	36,92,995.00				-				-
	(ii) On completion of erection works				-				-				-
	(iii) On completion of Testing of equipment				-				-				-
	PLC/SCADA SYSTEM				-				-				-
	(i) On supply of machinery/equipment at site				-				-				-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)		Achieved against 4th Milestone till 31.05.2021		Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone till 31.05.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone till 31.05.2021	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
	(ii) On completion of erection works				-				-				-
	(iii) On completion of Testing of equipment				-				-				-
					-				-				-
10	Air Blower Room Area				0				0				0
	Site Clearance		-		-		-		-		-		-
	Excavation	50%	1,53,725.00	50%	1,53,725.00		-		-		-		-
	PCC	50%	2,30,587.50	50%	2,30,587.50		-		-		-		-
	Column footings/Foundation	100%	15,37,250.00	100%	15,37,250.00		-		-		-		-
	Column & Beam	100%	15,37,250.00	50%	7,68,625.00		-		-		-		-
	RCC Ground Floor Slab		-		-	100%	15,37,250.00		-		-		-
	RCC Roof Slab		-		-		-		-	100%	15,37,250.00		-
	Brickwork & Plaster		-		-		-		-	25%	3,84,312.50		-
	Finishing Work		-		-		-		-		-		-
	MECHANICAL WORK				-				-				-
	AIR BLOWER(PUMP)				-				-				-
	(i) On supply of machinery/equipment at site				-				-				-
	(ii) On completion of erection works				-				-				-
	(iii) On completion of Testing of equipment				-				-				-
	ELECTRICAL WORK				-				-				-
	AIR BLOWER(MOTOR)				-				-				-
	(i) On supply of machinery/equipment at site				-				-				-
	(ii) On completion of erection works				-				-				-
	(iii) On completion of Testing of equipment				-				-				-
11	Staff Quarter Area				0				0				0

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)		Achieved against 4th Milestone till 31.05.2021		Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone till 31.05.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone till 31.05.2021	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		-
	RCC Foundation/column footing		-		-	100 %	12,91,290.00		-		-		-
	Column & Beam		-		-	100 %	12,91,290.00		-		-		-
	RCC Ground Floor Slab		-		-		-		-	100 %	12,91,290.00		-
	RCC Roof Slab		-		-		-		-		-		-
	Brickwork & Plaster		-		-		-		-		-		-
	Electrical work		-		-		-		-		-		-
	Finishing Work		-		-		-		-		-		-
12	Guard Room Area				0				0				0
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-	100 %	1,47,576.00		-		-		-
	PCC		-		-	100 %	2,21,364.00		-		-		-
	RCC Foundation/column footing		-		-	100 %	5,53,410.00		-		-		-
	Column & Beam		-		-	100 %	5,53,410.00		-		-		-
	RCC Ground Floor Slab		-		-		-		-	100 %	5,53,410.00		-
	RCC Roof Slab		-		-		-		-	100 %	3,68,940.00		-
	Brickwork & Plaster		-		-		-		-	100 %	3,68,940.00		-
	Electrical work		-		-		-		-		-		-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)		Achieved against 4th Milestone till 31.05.2021		Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone till 31.05.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone till 31.05.2021	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
	Finishing Work		-		-		-		-		-		-
13	Sludge Dewatering System Area (Centrifuge Pump House, Sludge sump & Poly dosing tank)				0				0				0
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		-
	RCC Foundation	100 %	15,37,250.00	100 %	15,37,250.00		-		-		-		-
	1st Column & Beam	100 %	30,74,500.00	50%	15,37,250.00		-		-		-		-
	Ground Floor Slab		-		-	100 %	30,74,500.00		-		-		-
	2nd Column & Beam		-		-	50%	15,37,250.00		-	50%	15,37,250.00		-
	RCC Roof Slab		-		-		-		-	100 %	30,74,500.00		-
	Brickwork & Plaster		-		-		-		-		-		-
	Finishing Work		-		-		-		-		-		-
	MECHANICAL WORK				-				-				-
	CENTRIFUGE UNIT				-				-				-
	(i) On supply of machinery/equipment at site				-				-				-
	(ii) On completion of erection works				-				-				-
	(iii) On completion of Testing of equipment				-				-				-
	CENTRIFUGE FEED PUMP				-				-				-
	(i) On supply of machinery/equipment at site	100 %	26,13,325.00	100 %	26,13,325.00				-				-
	(ii) On completion of erection works				-				-				-
	(iii) On completion of Testing of equipment				-				-				-
	POLY DOSING PUMPS				-				-				-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)		Achieved against 4th Milestone till 31.05.2021		Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone till 31.05.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone till 31.05.2021	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
	(i) On supply of machinery/equipment at site		-		-	100 %	13,06,662.50		-		-		-
	(ii) On completion of erection works				-				-				-
	(iii) On completion of Testing of equipment				-				-				-
14	Supernatant Recirculation Sump Area				0				0				0
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		-
	RCC Foundation wall/base slab		-		-		-		-		-		-
	Wall 50% of total lift work	60%	16,60,230.00	60%	16,60,230.00		-		-		-		-
	Walls (balance 50% of Total Lift work)	90%	24,90,345.00	75%	20,75,287.50	10%	2,76,705.00		-		-		-
	Final finishing including Staircases,Railing,Shade,Painting etc.		-		-		-		-	100 %	18,44,700.00		-
	MECHANICAL WORK				-				-				-
	PUMPING SYSTEM				-				-				-
	(i) On supply of machinery/equipment at site	100 %	54,87,982.50		-				-		-		-
	(ii) On completion of erection works				-				-				-
	(iii) On completion of Testing of equipment				-				-				-
					-				-				-
15	Transformer Yard Area				0				0				0
	Site Clearance		-		-		-		-		-		-
	Excavation & PCC		-		-	100 %	4,91,920.00		-		-		-
	Foundation Work		-		-	100 %	7,37,880.00		-		-		-
	Finishing Work		-		-		-		-	100 %	7,37,880.00		-
	ELECTRICAL WORK				-				-				-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)		Achieved against 4th Milestone till 31.05.2021		Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone till 31.05.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone till 31.05.2021	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
	TRANSFORMER				-				-				-
	(i) On supply of machinery/equipment at site				-				-	100%	31,35,990.00		-
	(ii) On completion of erection works				-				-				-
	(iii) On completion of Testing of equipment				-				-				-
	CABLE & CABLE TRAY				-				-				-
	(i) On supply of machinery/equipment at site				-				-	100%	30,31,457.00		-
	(ii) On completion of erection works				-				-				-
	(iii) On completion of Testing of equipment				-				-				-
16	DG Area				0				0				0
	Site Clearance		-		-	100%	-		-		-		-
	Excavation & PCC		-		-	100%	5,53,410.00		-		-		-
	Foundation Work		-		-	100%	8,30,115.00		-		-		-
	Finishing Work		-		-		-		-		-		-
	ELECTRICAL WORK				-				-				-
	DG SET				-				-				-
	(i) On supply of machinery/equipment at site				-				-		-		-
	(ii) On completion of erection works				-				-				-
	(iii) On completion of Testing of equipment				-				-				-
	CABLE & CABLE TRAY				-				-				-
	(i) On supply of machinery/equipment at site				-				-	100%	16,46,394.75		-
	(ii) On completion of erection works				-				-				-
	(iii) On completion of Testing of equipment				-				-				-
17	Sludge Storage Platform				0				0				0

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)		Achieved against 4th Milestone till 31.05.2021		Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone till 31.05.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone till 31.05.2021	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
	Site Clearance		-		-	100 %	-		-		-		-
	Excavation & PCC		-		-	100 %	3,00,000.00		-		-		-
	Foundation Work		-		-	100 %	4,00,000.00		-		-		-
	Finishing work		-		-		-		-	100 %	1,00,000.00		-
18	EXTERNAL DEVELOPMENT				0				0				0
A.	Roads, Storm Water Drain & Miscellaneous work		-		-		-		-		-		-
B.	Compound Wall with Gate		-		-		-		-		-		-
	Excavation & PCC		-		-		-		-		-		-
	RCC Column footing	5%	3,07,450.00	5%	3,07,450.00	5%	3,07,450.00		-		-		-
	RCC Column & Beam	7%	4,30,430.00	5%	3,07,450.00	5%	3,07,450.00		-		-		-
	Brickwork & Plaster	32%	19,67,680.00	22%	13,52,780.00		-		-	10%	6,14,900.00		-
	Finishing Work		-		-	20%	12,29,800.00		-	20%	12,29,800.00		-
19	MPS-2 (115MLD)				0				0				0
	CIVIL		-		-		-		-		-		-
A	Construction of Raw Sewage Sump		-		-		-		-		-		-
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		-
	RCC Foundation/Raft		-		-		-		-		-		-
	Wall 50% of total lift work		-		-		-		-		-		-
	Column & Beam	50%	19,17,630.00	35%	13,42,341.00		-		-	35%	13,42,341.00		-
	Walls (balance 50% of Total Lift work)	40%	15,34,104.00	40%	15,34,104.00		-		-	50%	19,17,630.00		-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)		Achieved against 4th Milestone till 31.05.2021		Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone till 31.05.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone till 31.05.2021	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
											0		
	Ground Floor Slab		-		-		-		-	100 %	38,35,260.0 0		-
	Finishing Work		-		-		-		-		-		-
B	Construction of Inlet Chamber & Screen Channel		-		-		-		-		-		-
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		-
	RCC Foundation/Raft	100 %	17,04,560.00	100 %	17,04,560.00		-		-		-		-
	Wall 50% of total lift work	100 %	17,04,560.00	75%	12,78,420.00		-		-		-		-
	Walls (balance 50% of Total Lift work)	25%	4,26,140.00		-		-		-	75%	12,78,420.0 0		-
	Walkway/Platform		-		-		-		-	100 %	17,04,560.0 0		-
C	Construction of Raw Sewage Pump House		-		-		-		-		-		-
	Column & Beam		-		-		-		-	100 %	15,98,025.0 0		-
	Roof Slab		-		-		-		-	100 %	15,98,025.0 0		-
	Brickwork & Plaster		-		-		-		-		-		-
	Finishing Work		-		-		-		-		-		-
D	MECHANICAL WORK		-		-		-		-		-		-
	Coarse Screen mechanical & manual		-		-		-		-		-		-
	(i) On supply of machinery/equipment at site	100 %	45,27,737.50		-		-		-		-		-
	(ii) On completion of erection works				-		-		-		-		-
	(iii) On completion of Testing of equipment				-		-		-		-		-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)		Achieved against 4th Milestone till 31.05.2021		Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone till 31.05.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone till 31.05.2021	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
	Piping & Support work		-		-		-		-		-		-
	(i) On supply of machinery/equipment at site				-		-		-		-		-
	(ii) On completion of erection works				-		-		-		-		-
	(iii) On completion of Testing of equipment				-		-		-		-		-
	Gate Work		-		-		-		-		-		-
	(i) On supply of machinery/equipment at site		-		-	100%	63,38,832.50		-		-		-
	(ii) On completion of erection works				-				-		-		-
	(iii) On completion of Testing of equipment				-				-		-		-
	Pumps		-		-		-		-		-		-
	(i) On supply of machinery/equipment at site		-		-	100%	99,61,022.50		-		-		-
	(ii) On completion of erection works				-				-		-		-
	(iii) On completion of Testing of equipment				-				-		-		-
20	ICI Nala IPS				0				0				0
	CIVIL		-		-		-		-		-		-
A	Construction of Raw Sewage Sump		-		-		-		-		-		-
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		-
	RCC Foundation/Raft		-		-		-		-		-		-
	Wall 50% of total lift work		-		-		-		-		-		-
	Column & Beam		-		-	25%	6,39,000.00		-	75%	19,17,000.00		-
	Walls (balance 50% of Total Lift work)	60%	15,33,600.00	30%	7,66,800.00		-		-	40%	10,22,400.00		-
	Ground Floor Slab		-		-		-		-	100%	25,56,000.00		-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)		Achieved against 4th Milestone till 31.05.2021		Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone till 31.05.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone till 31.05.2021	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
	Finishing Work		-		-		-		-		-		-
B	Construction of Inlet Chamber & Screen Channel		-		-		-		-		-		-
	Site Clearance		-		-		-		-		-		-
	Excavation	100 %	3,40,800.00	50%	1,70,400.00		-		-		-		-
	PCC	100 %	5,11,200.00		-		-		-		-		-
	RCC Foundation/Raft	100 %	8,52,000.00		-		-		-		-		-
	Wall 50% of total lift work	100 %	8,52,000.00		-		-		-		-		-
	Walls (balance 50% of Total Lift work)		-		-	100 %	8,52,000.00		-		-		-
	Walkway/Platform		-		-		-		-	100 %	4,26,000.00		-
	Finishing work		-		-		-		-		-		-
C	Construction of Raw Sewage Pump House		-		-		-		-		-		-
	Column & Beam		-		-		-		-		-		-
	Roof Slab		-		-		-		-		-		-
	Brickwork & Plaster		-		-		-		-		-		-
	Finishing Work		-		-		-		-		-		-
D	Construction of Office Room		-		-		-		-		-		-
	Site Clearance		-		-		-		-		-		-
	Excavation & PCC		-		-		-		-		-		-
	RCC Foundation/column footing		-		-		-		-	100 %	6,39,000.00		-
	Column & Beam		-		-		-		-	100 %	2,13,000.00		-
	RCC Ground floor Slab		-		-		-		-	100	2,13,000.00		-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)		Achieved against 4th Milestone till 31.05.2021		Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone till 31.05.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone till 31.05.2021	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
										%			
	RCC Roof Slab		-		-		-		-	100 %	2,13,000.00		-
	Brick work & Plaster		-		-		-		-		-		-
	Electrification, plumbing, fixtures		-		-		-		-		-		-
	Finishing work		-		-		-		-		-		-
E	Construction of Guard Room		-		-		-		-		-		-
	Site Clearance		-		-		-		-		-		-
	Excavation & PCC		-		-		-		-		-		-
	RCC Foundation/column footing		-		-		-		-	100 %	6,39,000.00		-
	Column & Beam		-		-		-		-	100 %	2,13,000.00		-
	RCC Ground floor Slab		-		-		-		-	100 %	2,13,000.00		-
	RCC Roof Slab		-		-		-		-		-		-
	Brick work & Plaster		-		-		-		-		-		-
	Electrification, plumbing, fixtures		-		-		-		-		-		-
	Finishing work		-		-		-		-		-		-
F	Transformer Yard,DG Yard		-		-		-		-		-		-
	Site Clearance		-		-	100 %	-		-		-		-
	Excavation & PCC		-		-		-		-	100 %	6,39,210.00		-
	Foundation Work		-		-		-		-	100 %	15,98,025.00		-
	Finishing Work		-		-		-		-	100 %	9,58,815.00		-
G	MECHANICAL WORK		-		-		-		-		-		-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)		Achieved against 4th Milestone till 31.05.2021		Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone till 31.05.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone till 31.05.2021	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
	Piping & Support work		-		-		-		-		-		-
	(i) On supply of machinery/equipment at site				-				-				-
	(ii) On completion of erection works				-				-				-
	(iii) On completion of Testing of equipment				-				-				-
	Screen Channel		-		-		-		-		-		-
	(i) On supply of machinery/equipment at site		-		-	100 %	28,97,752.00		-				-
	(ii) On completion of erection works				-				-				-
	(iii) On completion of Testing of equipment				-				-				-
	Pumps		-		-		-		-		-		-
	(i) On supply of machinery/equipment at site		-		-	100 %	28,97,752.00		-				-
	(ii) On completion of erection works				-				-				-
	(iii) On completion of Testing of equipment				-				-				-
H	ELECTRICAL WORK				-				-				-
	Cable Tray & Earthing Work		-		-		-		-		-		-
	(i) On supply of machinery/equipment at site				-				-				-
	(ii) On completion of erection works				-				-				-
	(iii) On completion of Testing of equipment				-				-				-
	Transformer		-		-		-		-		-		-
	(i) On supply of machinery/equipment at site				-				-				-
	(ii) On completion of erection works				-				-				-
	(iii) On completion of Testing of equipment				-				-				-
	DG		-		-		-		-		-		-
	(i) On supply of machinery/equipment at site				-				-				-
	(ii) On completion of erection works				-				-				-
	(iii) On completion of Testing of equipment				-				-				-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)		Achieved against 4th Milestone till 31.05.2021		Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone till 31.05.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone till 31.05.2021	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
I	Construction of Boundary wall & Internal Road		-		-		-		-		-		-
	Site Clearance		-		-		-		-		-		-
	Excavation & PCC	30%	95,881.50	30%	95,881.50		-		-		-		-
	RCC Column footing		-		-		-		-		-		-
	RCC Column & Beam		-		-		-		-		-		-
	Brickwork & Plaster		-		-		-		-		-		-
	Finishing		-		-		-		-		-		-
	Construction of Internal road		-		-		-		-		-		-
21	IPS-6 (Sundar Nagar- 20 MLD)-Pankha Area				0				0				0
	CIVIL		-		-		-		-		-		-
A	Construction of Raw Sewage Sump		-		-		-		-		-		-
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		-
	RCC Foundation/Raft		-		-		-		-		-		-
	Wall 50% of total lift work	10%	2,55,600.00	10%	2,55,600.00		-		-		-		-
	Column & Beam	40%	10,22,400.00	40%	10,22,400.00	30%	7,66,800.00		-	30%	7,66,800.00		-
	Walls (balance 50% of Total Lift work)	25%	6,39,000.00	25%	6,39,000.00	25%	6,39,000.00		-	50%	12,78,000.00		-
	Ground Floor Slab		-		-		-		-	100%	25,56,000.00		-
	Finishing Work		-		-		-		-		-		-
B	Construction of Inlet Chamber & Screen Channel		-		-		-		-		-		-
	Site Clearance		-		-		-		-		-		-
	Excavation & PCC	30%	1,27,800.00	30%	1,27,800.00		-		-		-		-
	RCC Foundation/Raft	80%	3,40,800.00	80%	3,40,800.00	20%	85,200.00		-		-		-
	Wall 50% of total lift work	20%	85,200.00	20%	85,200.00	80%	3,40,800.00	20	85,200.00		-		-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)		Achieved against 4th Milestone till 31.05.2021		Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone till 31.05.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone till 31.05.2021	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
								%					
	Walls (balance 50% of Total Lift work)		-		-	100 %	4,26,000.00		-		-		-
	Walkway/Platform		-		-		-		-	100 %	2,13,000.00		-
	Finishing work		-		-		-		-		-		-
C	Construction of Raw Sewage Pump House		-		-		-		-		-		-
	Column & Beam		-		-		-		-	100 %	7,99,012.50		-
	Roof Slab		-		-		-		-		-		-
	Brickwork & Plaster		-		-		-		-		-		-
	Finishing Work		-		-		-		-		-		-
D	Construction of Office Room		-		-		-		-		-		-
	Site Clearance		-		-		-		-		-		-
	Excavation & PCC		-		-		-		-		-		-
	RCC Foundation/column footing		-		-	100 %	6,39,000.00		-		-		-
	Column & Beam		-		-	100 %	2,13,000.00		-		-		-
	RCC Ground floor Slab		-		-	100 %	2,13,000.00		-		-		-
	RCC Roof Slab		-		-		-		-	100 %	2,13,000.00		-
	Brick work & Plaster		-		-		-		-		-		-
	Electrification, plumbing, fixtures		-		-		-		-		-		-
	Finishing work		-		-		-		-		-		-
E	Construction of Guard Room		-		-		-		-		-		-
	Site Clearance		-		-	100 %	-		-		-		-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)		Achieved against 4th Milestone till 31.05.2021		Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone till 31.05.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone till 31.05.2021	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
	Excavation & PCC		-		-		-		-		-		-
	RCC Foundation/column footing	100 %	6,39,000.00	100 %	6,39,000.00		-		-		-		-
	Column & Beam		-		-	100 %	2,13,000.00		-		-		-
	RCC Ground floor Slab		-		-		-		-	100 %	2,13,000.00		-
	RCC Roof Slab		-		-		-		-		-		-
	Brick work & Plaster		-		-		-		-		-		-
	Electrification, plumbing, fixtures		-		-		-		-		-		-
	Finishing work		-		-		-		-		-		-
F	Transformer Yard,DG Yard		-		-		-		-		-		-
	Site Clearance		-		-		-		-		-		-
	Excavation & PCC		-		-		-		-		-		-
	Foundation Work		-		-		-		-		-		-
	Finishing Work		-		-		-		-		-		-
G	MECHANICAL WORK		-		-		-		-		-		-
	Piping & Support work		-		-		-		-		-		-
	(i) On supply of machinery/equipment at site		-		-		-		-		-		-
	(ii) On completion of erection works		-		-		-		-		-		-
	(iii) On completion of Testing of equipment		-		-		-		-		-		-
	Screen Channel		-		-		-		-		-		-
	(i) On supply of machinery/equipment at site		-		-	100 %	28,97,752.00		-		-		-
	(ii) On completion of erection works		-		-		-		-		-		-
	(iii) On completion of Testing of equipment		-		-		-		-		-		-
	Pumps		-		-		-		-		-		-
	(i) On supply of machinery/equipment at site		-		-		-		-		-		-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)		Achieved against 4th Milestone till 31.05.2021		Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone till 31.05.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone till 31.05.2021	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
	(ii) On completion of erection works				-				-				-
	(iii) On completion of Testing of equipment				-				-				-
H	ELECTRICAL WORK				-				-				-
	Cable Tray & Earthing Work		-		-		-		-		-		-
	(i) On supply of machinery/equipment at site				-				-				-
	(ii) On completion of erection works				-				-				-
	(iii) On completion of Testing of equipment				-				-				-
	Transformer		-		-		-		-		-		-
	(i) On supply of machinery/equipment at site				-				-				-
	(ii) On completion of erection works				-				-				-
	(iii) On completion of Testing of equipment				-				-				-
	DG		-		-		-		-		-		-
	(i) On supply of machinery/equipment at site				-				-				-
	(ii) On completion of erection works				-				-				-
	(iii) On completion of Testing of equipment				-				-				-
I	Construction of Boundary wall & Internal Road		-		-		-		-		-		-
	Site Clearance		-		-		-		-		-		-
	Excavation & PCC		-		-		-		-	100 %	3,19,605.00		-
	RCC Column footing		-		-		-		-	100 %	4,26,140.00		-
	RCC Column & Beam		-		-		-		-	100 %	3,19,605.00		-
	Brickwork & Plaster		-		-		-		-		-		-
	Construction of Internal road		-		-		-		-		-		-
	Finishing		-		-		-		-		-		-
22	I&D Works				0				0				0
A	ICI Nala		-		-		-		-		-		-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)		Achieved against 4th Milestone till 31.05.2021		Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone till 31.05.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone till 31.05.2021	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
	Construction Work	2%	44,480.00	2%	44,480.00	4%	88,960.00	4%	88,960.00		-		-
	Tapping of Nallahs		-		-	45%	5,00,400.00		-	55%	6,11,600.00		-
	Electro-Mechanical work		-		-		-		-	50%	8,34,000.00		-
	Testing		-		-		-		-		-		-
B	Thermal Nala -A		-		-		-		-		-		-
	Construction Work	30%	6,67,200.00	25%	5,56,000.00	27%	6,00,480.00		-		-		-
	Tapping of Nallahs		-		-	60%	6,67,200.00		-	40%	4,44,800.00		-
	Electro-Mechanical work		-		-		-		-	50%	8,34,000.00		-
	Testing		-		-		-		-		-		-
C	Thermal Nala -B		-		-		-		-		-		-
	Construction Work		-		-	36%	8,00,640.00		-	50%	11,12,000.00		-
	Tapping of Nallahs		-		-	24%	2,66,880.00		-	25%	2,78,000.00		-
	Electro-Mechanical work		-		-		-		-		-		-
	Testing		-		-		-		-		-		-
23	Rising Main Works				0				0				0
A	ICI Nala Area		-		-		-		-		-		-
	Site Cleance from Client	100%	-		-		-		-		-		-
	Supply of Pipes	24%	12,33,957.12	16.5%	8,41,500.00	20%	10,21,315.66		-	25%	12,75,000.00		-
	Excavation,Laying & backfilling of Pipes		-		-	35%	2,10,000.00		-	30%	1,80,000.00		-
	Testing		-		-		-		-	50%	1,50,000.00		-
B	Sundar Nagar IPS Area		-		-		-		-		-		-
	Site Cleance from Client	100%	-		-		-		-		-		-
	Supply of Pipes	30%	15,30,000.00	18%	9,18,000.00		-		-	30%	15,30,000.00		-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)		Achieved against 4th Milestone till 31.05.2021		Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone till 31.05.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone till 31.05.2021	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
	Excavation,Laying & backfilling of Pipes		-		-	25%	1,50,000.00		-	37%	2,22,000.00		-
	Testing		-		-		-		-	54%	1,62,000.00		-
24	Sewer System Area (RCC Pipes-NP3 Types)				0				0				0
	Site Clearance	12%	-		-	25%	-		-	25%	-		-
	Supply of pipes	22%	353,01,129.84	11%	176,49,969.92	8%	128,35,151.76		-		-		-
	Excavation and Laying of pipes including bed preparation & backfilling	12%	12,03,407.04	12%	12,03,407.04	14%	14,03,974.88		-	10%	10,02,809.19		-
	Manholes	25%	25,07,098.00	20%	20,05,678.40	10%	10,02,839.20		-	20%	20,05,678.40		-
	Testing		-		-		-		-	20%	20,05,678.40		-
	Road Restoration work		-		-		-		-		-		-
25	Design ,Supply,Testing & Commissioning of Sewer line (crossing National Highway-2 & Railway Track)				0				0				0
	Statutory approvals from Railway & Road dept		-		-	100%	-		-		-		-
	Supply of Carrier & Casing Pipes		-		-		-		-	57%	64,11,550.95		-
	Construction of Pit		-		-		-		-	45.0%	4,21,812.56		-
	Excavation & Laying of Pipes thru Jack push method		-		-		-		-	30%	16,87,250.25		-
	Testing		-		-		-		-		-		-
	Total Amount		124839750.00		74423236.86		124839750.00		2449290.00		124839750.00		783997.50

Summary of Pankha STP Overall Progress till 31.05.2021

Milestone	Milestone Amount	Targeted Progress till 31.05.2021		
		Milestone Amount	% Target	% Achieved
1st milestone	1248,39,750.00	1248,39,750	12.50%	12.50%
2nd milestone	1248,39,750.00	1248,39,750	12.50%	12.50%
3rd Milestone	1248,39,750.00	1248,39,750	12.50%	12.50%
4th Milestone	1248,39,750.00	744,23,237	10.03%	7.45%
5th Milestone	1248,39,750.00	24,49,290	-	0.25%
6th milestone	1248,39,750.00	7,83,998	-	0.08%
7th milestone	1248,39,750.00	-	-	
8th milestone	1248,39,750.00	-		
Total	9987,18,000.00	4996,51,691	47.53%	45.28%
Overall Progress %	100.00%		47.53%	45.28%

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	Milestone-2 (Achieved) From 26th Sep'20 to 25th Nov.'20		Milestone-3 (Achieved) From 26th Nov.'20 to 25th Mar'21		Milestone-4 Achieved till 30.06.2021 (From 26th Mar'21 to 25 June'21)		
			%	Amount	%	Amount	% Target	Achieved	Amount
I	Design & Drawing & STP & Sewer Laying works								
1	On approval of BEP	191,34,500.0							
2	On approval of design & drawings for Civil & Sewerage works	191,34,500.0	75%	143,50,875.00					
II	CONSTRUCTION								
A	UNNAO STP (15 MLD)								
i)	SBR Basin Area								
1	Site Clearance	5,00,000.0		-		-			
2	Excavation wall footing	22,46,137.6		-		-			-
3	PCC wall footing	27,46,137.6		-		-			-
4	RCC Foundation/Raft of wall	54,92,275.2	100%	54,92,275.20		-			-
5	Wall 50% of total upto base slab	54,92,275.2	20%	10,98,455.04	80%	43,93,820.16			-
6	Walls (balance 50% of upto base slab)	54,92,275.2		-	100%	54,92,275.20			-
7	PCC Base Slab	27,46,137.6		-	100%	27,46,137.60			-
8	RCC Foundation base slab	27,46,137.6		-	25%	6,86,534.40	75%	55%	15,10,375.68
9	Wall 50% of total lift work	27,46,137.6		-		-			-
10	Walls (balance 50% of Total Lift work)	27,46,137.6		-		-			-
11	Walkway/Platform	27,46,137.6		-		-			-
12	Piping & fitting works	21,96,910.1		-		-			-
13	Testing /Finishing works	36,80,000.0		-		-			-
ii	Sludge Thickener Area								
1	Site Clearance	1,50,000.0		-		-			-

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 Achieved till 30.06.2021 (From 26th Mar'21 to 25 June'21)		
			%	Amount	%	Amount	% Target	Achieved	Amount
2	Excavation	3,64,900.8		-		-			-
3	PCC	5,14,900.8	50%	2,57,450.40		-			-
4	RCC Foundation Wall/base slab	6,86,534.4	50%	3,43,267.20	50%	3,43,267.20			-
5	Wall 50% of total lift work	6,86,534.4	100%	6,86,534.40		-			-
6	Walls (balance 50% of Total Lift work)	3,78,534.2		-	75%	2,83,900.65	25%		-
7	Testing /Finishing works	3,08,000.0		-		-			-
iii	Supernatant Sump Area								
1	Site Clearance	1,00,000.0		-		-			-
2	Excavation	1,14,422.4		-		-			-
3	PCC	1,14,422.4		-		-			-
4	RCC Foundation wall/base slab	1,28,844.8		-		-			-
5	Wall 50% of total lift work	1,43,044.8	100%	1,43,044.80		-			-
6	Walls (balance 50% of Total Lift work)	1,71,633.6		-	100%	1,71,633.60			-
7	Testing /Finishing works	85,800.0		-		-	100%		-
iv	Chlorination Tank Area								
1	Site Clearance	1,50,000.0		-		-			-
2	Excavation	4,22,112.0		-		-			-
3	PCC	5,72,112.0		-		-			-
4	RCC Foundation/Raft	9,15,000.0		-		-			-
5	Wall 50% of total lift work	8,58,168.0	100%	8,58,168.00		-			-
6	Walls (balance 50% of Total Lift work)	8,58,168.0		-	100%	8,58,168.00			-
7	Baffle Walls work	3,44,336.0		-	100%	3,44,336.00			-
8	Testing /Finishing works	4,57,000.0		-		-	100%		-
v	Air Blower Room Area								
1	Site Clearance	2,50,000.0		-		-			-
2	Excavation	3,43,267.2		-		-			-

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 Achieved till 30.06.2021 (From 26th Mar'21 to 25 June'21)		
			%	Amount	%	Amount	% Target	Achieved	Amount
3	PCC	3,43,267.2		-		-			-
4	RCC Foundation/column footing	6,86,534.4	100%	6,86,534.40		-			-
5	Column & Beam	6,29,801.6	100%	6,29,801.60		-			-
6	RCC Ground floor Grade Slab	6,86,534.4		-		-	100%		-
7	Cable Trench Work	6,86,534.4		-		-	100%		-
8	RCC Roof Slab	8,29,801.6		-		-	100%		-
9	Brick work	6,25,168.0		-		-			-
10	Plaster	1,71,633.6		-		-			-
11	Testing/Finishing work	5,83,000.0		-		-			-
vi	Staff Quarter Area (G+1)								
1	Site Clearance	50,000.0		-		-			-
2	Excavation	71,000.0		-		-			-
3	PCC	71,000.0		-		-			-
4	RCC Foundation/column footing	92,000.0		-		-			-
5	Column & Beam	92,000.0	100%	92,000.00		-			-
6	RCC Ground floor Slab	92,000.0	100%	92,000.00		-			-
7	RCC 1st floor Slab	92,000.0		-	100%	92,000.00			-
8	RCC Roof Slab	92,000.0		-	100%	92,000.00			-
9	Brick work	67,000.0		-		-	100%		-
10	Plaster	67,000.0		-		-			-
11	Plumbing, fixtures , sanitary works, AC work	67,000.0		-		-			-
12	Electrification work	33,500.0		-		-			-
13	Finishing works	33,500.0		-		-			-
vii	Guard Room Area								
1	Site Clearance	50,000.0		-		-			-
2	Excavation	82,211.2		-		-			-

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 Achieved till 30.06.2021 (From 26th Mar'21 to 25 June'21)		
			%	Amount	%	Amount	% Target	Achieved	Amount
3	PCC	82,211.2		-		-			-
4	RCC Foundation/column footing	1,14,422.4		-		-			-
5	Column & Beam	1,14,422.4		-		-			-
6	RCC Ground floor Slab	1,14,422.4		-		-			-
7	RCC Roof Slab	1,14,422.4	100%	1,14,422.40		-			-
8	Brick work	1,14,422.4	100%	1,14,422.40		-			-
9	Plaster	1,14,422.4		-	100%	1,14,422.40			-
10	Plumbing, fixtures	1,14,422.4		-		-	100%		-
11	Sanitary works, AC work	64,422.4		-		-	100%		-
12	Electrification work	32,211.0		-		-			-
13	Finishing works	32,211.0		-		-			-
viii	Chlorination Room Area								
1	Site Clearance	1,50,000.0		-		-			-
2	Excavation	4,57,689.6		-		-			-
3	PCC	4,57,689.6	50%	2,28,844.80		-			-
4	RCC Foundation/Column footing	4,57,689.6	100%	4,57,689.60		-			-
5	Column & Beam	4,57,689.6	100%	4,57,689.60		-			-
6	Ground floor Slab	6,86,534.4	18.31%	1,25,672.96	81.69%	5,60,861.44			-
7	Roof Slab	4,86,534.4		-	50%	2,43,267.20	50%	50%	2,43,267.20
8	Brickwork	2,96,689.6		-		-	100%		-
9	Plaster	2,57,689.6		-		-			-
10	Testing/Finishing works	4,11,000.0		-		-			-
ix	Admin Bldg Area (G+1)								
1	Site Clearance			-	100%	-			-
2	Excavation	78,958.7		-	100%	78,958.70			-
3	PCC	78,958.7		-	100%	78,958.70			-

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 Achieved till 30.06.2021 (From 26th Mar'21 to 25 June'21)		
			%	Amount	%	Amount	% Target	Achieved	Amount
4	Column footings/Foundation	1,18,438.1		-	50%	59,219.03	50%		-
5	Column & Beam up to First Floor	1,18,438.1		-		-			-
6	Ground Floor Slab	1,35,357.8		-		-			-
7	1st Floor Slab	1,35,357.8		-		-			-
8	Column & Beam First Floor to Roof Slab	1,18,438.1		-		-			-
9	Roof Slab	1,35,357.8		-		-			-
10	Brickwork	1,35,357.8		-		-			-
11	Plaster	1,06,594.7		-		-			-
12	Electrification, plumbing, fixtures , sanitary works, AC work	94,750.0		-		-			-
13	finishing works	1,39,000.0		-		-			-
x	Sludge Dewatering System Area (Centrifuge Pump House, Sludge sump & Poly dosing tank)								
1	Site Clearance	1,50,000.0	100%	1,50,000.00		-			-
2	Excavation	1,84,788.0		-	100%	1,84,788.00			-
3	PCC	1,84,788.0		-	100%	1,84,788.00			-
4	RCC Foundation	3,69,576.0		-	100%	3,69,576.00			-
5	Column & Beam Upto First Floor	3,69,576.0		-	100%	3,69,576.00			-
6	Ground Floor Slab	3,69,576.0		-		-	100%		-
7	First Floor Slab	3,19,576.0		-		-			-
8	Column & Beam First Floor to Roof Slab	3,38,576.0		-	100%	3,38,576.00			-
9	Roof Slab	3,19,576.0		-		-			-
10	Brickwork	1,84,788.0		-		-			-
11	Plaster	1,84,788.0		-		-			-
12	Piping & fittings Work	1,84,364.0		-		-			-
13	Testing/Finishing works	3,51,000.0		-		-			-
xi	Inlet Chamber Area								

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 Achieved till 30.06.2021 (From 26th Mar'21 to 25 June'21)		
			%	Amount	%	Amount	% Target	Achieved	Amount
1	Site Clearance	1,50,000.0	100%	1,50,000.00		-			-
2	Excavation & PCC	2,09,217.6		-	50%	1,04,608.80	50%		-
3	RCC Foundation/Column footing	4,18,435.2		-		-	100%		-
4	Column & Beam	3,13,826.4		-		-	100%		-
5	RCC Slab	3,13,826.4		-		-			-
6	RCC Wall	2,89,652.4		-		-			-
7	Testing/Finishing works	1,88,000.0		-		-			-
xii	Manual & Mechanica Fine Bar Screen Chamber AreaArea								
1	Site Clearance	1,50,000.0	100%	1,50,000.00		-			-
2	Excavation	1,21,633.6		-	100%	1,21,633.60			-
3	PCC	1,57,450.4		-		-	100%		-
4	RCC Foundation	1,82,450.4		-		-	100%		-
5	Column & Beam	1,82,450.4		-		-	100%		-
6	RCC Slab	2,57,450.4		-		-			-
7	RCC Wall	1,71,633.6		-		-			-
8	Walkway/Platform	1,67,633.6		-		-			-
9	Testing/Finishing works	1,54,000.0		-		-			-
xiii	Grit Chamber Area								
1	Site Clearance	1,50,000.0	100%	1,50,000.00		-			-
2	Excavation	2,23,844.8		-	100%	2,23,844.80			-
3	PCC	2,68,267.2		-		-	100%		-
4	RCC Foundation	2,68,267.2		-		-	100%		-
5	Column & Beam	2,43,267.2		-		-	100%		-
6	RCC Slab	2,43,267.2		-		-			-
7	RCC Wall	2,28,844.8		-		-			-
8	Walkway/Platform	2,28,844.8		-		-			-

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 Achieved till 30.06.2021 (From 26th Mar'21 to 25 June'21)		
			%	Amount	%	Amount	% Target	Achieved	Amount
9	Testing/Finishing works	1,85,400.0		-		-			-
xiv	Parshall Flume Channel Area								
1	Site Clearance	1,50,000.0	100%	1,50,000.00		-			-
2	Excavation	2,43,267.2		-	100%	2,43,267.20			-
3	PCC	2,93,267.2		-		-	100%		-
4	RCC Foundation	3,43,267.2		-		-	100%		-
5	Column & Beam	3,43,267.2		-		-	100%		-
6	RCC Slab	3,43,267.2		-		-			-
7	RCC Wall	3,43,267.2		-		-			-
8	Walkway/Platform	3,43,267.2		-		-			-
9	Piping & fitting Work	1,71,633.6		-		-			-
10	Testing	2,57,400.0		-		-			-
xv	Sludge Storage Platform Area								
1	Site Clearance	1,00,000.0	100%	1,00,000.00		-			-
2	Excavation	1,00,000.0		-		-			-
3	PCC	2,50,000.0		-		-			-
4	Foundation Work	3,00,000.0		-		-			-
5	Finishing work	1,50,000.0		-		-			-
xvi	Transformer Yard Area								
1	Site Clearance			-		-			-
2	Excavation	3,88,045.0		-		-			-
3	PCC	3,88,045.0		-		-			-
4	Foundation Work	3,88,045.0		-		-			-
xvii	DG Shed Area								
1	Site Clearance			-		-			-
2	Excavation	4,36,555.0		-		-			-

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 Achieved till 30.06.2021 (From 26th Mar'21 to 25 June'21)		
			%	Amount	%	Amount	% Target	Achieved	Amount
3	PCC	4,36,555.0		-		-			-
4	Foundation Work	4,36,555.0		-		-			-
xviii	EXTERNAL DEVELOPMENT								
	Boundary Wall with Gate								
1	Site Clearance			-		-			-
2	Excavation	3,34,750.0	50%	1,67,375.00	10%	33,475.00			-
3	PCC	5,02,125.0	45%	2,25,956.25		-			-
4	RCC Column footing	5,02,125.0	45%	2,25,956.25		-	15%		-
5	RCC Column & Beam	5,02,125.0	25%	1,25,531.25	19%	95,631.70	15%		-
6	Brickwork	5,02,125.0	35%	1,75,743.75	20%	1,00,425.00	16%		-
7	Plaster	5,02,125.0		-	20%	1,00,425.00	22%		-
8	Retaining wall	16,02,550.0		-		-	15%		-
9	Finishing Work	5,02,125.0		-		-	15%		-
	Earthfilling, Internal Roads ,Landscaping								-
1	Earthfilling, Internal Roads ,Landscaping	17,48,800.0		-		-			-
C	MPS-40 MLD								
	Civil Work								
i	Construction of Raw Sewage Sump								
1	Site Clearance	5,00,000.0		-		-			-
2	Excavation	15,91,480.0	30%	4,77,444.00	70%	11,14,036.00			-
3	PCC	5,91,480.0		-	100%	5,91,480.00			-
4	RCC Foundation/Raft	6,87,220.0		-		-	100%	100%	6,87,220.00
5	Wall 50% of total lift work	6,87,220.0		-		-			-
6	Walls (balance 50% of Total Lift work)	8,87,220.0		-		-			-
7	Column & Beam	7,87,220.0		-		-			-
8	Ground Floor Slab	5,91,480.0		-		-			-

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 Achieved till 30.06.2021 (From 26th Mar'21 to 25 June'21)		
			%	Amount	%	Amount	% Target	Achieved	Amount
9	Testing/Finishing work	5,91,480.0		-		-			-
ii	Construction of Raw Sewage Pump House								
1	Column & Beam	9,24,187.5		-		-			-
2	Roof Slab	9,24,187.5		-		-			-
3	Brickwork	9,24,187.5		-		-			-
4	Plaster	9,24,187.5		-		-			-
iii	Construction of Inlet Chamber & Screen Channel								
1	Site Clearance	1,50,000.0		-		-			-
2	Excavation	1,84,837.5		-	100%	1,84,837.50			-
3	PCC	1,84,837.5		-		-	100%		-
4	RCC Foundation/Raft	1,84,837.5		-		-	100%		-
5	Wall 50% of total lift work	1,84,837.5		-		-			-
6	Walls (balance 50% of Total Lift work)	1,84,837.5		-		-			-
7	Column & Beam	1,51,504.2		-		-			-
8	Ground Floor Slab	1,84,837.5		-		-			-
9	Walkway/Platform	1,84,837.5		-		-			-
10	Testing/Finishing work	1,59,500.0		-		-			-
D	SEWER SYSTEM AREA (3.2 Km)								
1	Site Clearance			-		-			-
				-		-			-
2	Supply of pipes	553,11,702.0	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 preparation & backfilling	55,31,170.2		-	6.00%	3,31,870.21	14%	11.96%	6,61,527.96
4	Manholes	36,87,446.8		-		-	10%		-
5	Flow/Hydraulic Testing	73,74,893.6		-		-			-
6	Road restoration work	18,43,723.4		-		-			-

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 Achieved till 30.06.2021 (From 26th Mar'21 to 25 June'21)		
			%	Amount	%	Amount	% Target	Achieved	Amount
E	RISING MAIN PIPING WORK (100 m)								
1	Site Clearance			-		-			-
2	Supply of pipes	5,48,000.0		-		-			-
3	Cutting,Excavtion,Laying of Pipes, backfilling	68,500.0		-		-			-
4	Testing	68,500.0		-		-			-
F	EFFLUENT DISPOSAL SYSTEM								-
1	Site Clearance			-		-			-
2	Construction of Effluent Channel from Distribution Chamber to Agriculture Land	15,12,000.0		-		-			-
3	Construction of Rectangular Channel from STP to Distribution Chamber	11,34,000.0		-		-			-
4	Construction of Distribution Chamber	11,34,000.0		-		-			-
G	E&M WORK								-
i)	GRIT CHAMBER AREA			-		-			-
	A. On supply - Grit Scraper Mechanism	21,60,000.0		-	100%	21,60,000.00	100%	100%	21,60,000.00
	B. On Installation - Grit Scraper Mechanism	5,40,000.0		-		-			-
v)	MEP			-		-			-
	A.Supply - Screen	76,00,000.0		-		-	80%		-
	B.Installation - Screen			-		-	20%		-
	C.Supply - Hoist	7,00,000.0		-		-	80%	80%	5,60,000.00
	D.Installation - Hoist			-		-	20%		-
	E.Supply - Pumps & Motors(MEP)	116,00,000.0		-		-	80%		-
	F.Installation - Pumps & Motors(MEP)			-		-	20%		-
	G.Supply - Gate & Valves(MPS)	52,00,000.0		-		-	80%		-
	H.Installation - Gate & Valves(MPS)			-		-	20%		-

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 Achieved till 30.06.2021 (From 26th Mar'21 to 25 June'21)		
			%	Amount	%	Amount	% Target	Achieved	Amount
	I.Supply Instruments(like flow meter, Guages, level, Transmitter)	32,00,000.0		-		-			-
	J.Installation - Instruments(like flow meter, Guages, level, Transmitter)			-		-			-
vii)	FINE SCREEN AREA			-		-			-
	A.On supply -Fine Screen	32,00,000.0		-		-	80%		-
	B.On Installation -Fine Screen			-		-	20%		-
viii)	SBR BASIN AREA			-		-			-
	A.On supply - Decanter Equipment	193,00,000.0		-		-			-
	B.Installation - Decanter Equipment			-		-			-
	C.On supply - Diffuser	193,00,000.0		-		-			-
	D.On Installation - Diffuser			-		-			-
	E.On supply - RAS Pump, SAS Pump	54,00,000.0		-		-	80%		-
	F.On Installation - RAS Pump, SAS Pump			-		-	20%		-
	G.On supply - Chain Pulley Block	5,60,000.0		-	100%	5,60,000.00			-
	H.On Installation - Chain Pulley Block	1,40,000.0		-		-			-
x)	CHLORINATION ROOM AREA			-		-			-
	A.Supply - Chlorination system(Dosing pumps, chlorinators, Tonnes, Chemicals & Piping work	29,00,000.0		-		-			-
	B. Installation - Chlorination system(Dosing pumps, chlorinators, Tonnes, Chemicals & Piping work			-		-			-
	C.Supply - Chlorine Nutrilisation Tank	5,00,000.0		-		-			-
	D.Installation - Chlorine Nutrilisation tank			-		-			-
	E.Supply - Hoist Work	7,00,000.0		-		-	80%	80%	5,60,000.00
	F.Installation - Hoist Work			-		-	20%		-
xi)	CENTRIFUGE HOUSE & FEED PUMP AREA			-		-			-

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 Achieved till 30.06.2021 (From 26th Mar'21 to 25 June'21)		
			%	Amount	%	Amount	% Target	Achieved	Amount
	A.On supply -Centrifuge & Feed Pump	103,00,000.0		-		-	80%	80%	82,40,000.00
	B.On Installation -Centrifuge & Feed Pump			-		-	20%		-
III	TRIAL RUN & COMMISSIONING								
1	Trial Run & Commissioning								
		3826,90,000.0		47836250.0		47836250.0			15286131.3
	Progress out of target of 12.5% for each milestone			12.50%		12.50%			3.99%

Summary of Unnao STP Overall Progress till 31.05.2021

Milestone	Milestone Amount	Progress till 31.05.2021		
		Achieved Milestone Amount	% Target	% Achieved
1st milestone	478,36,250.00	478,36,250.00	12.50%	12.50%
2nd milestone	478,36,250.00	478,36,250.00	12.50%	12.50%
3rd Milestone	478,36,250.00	478,36,250.00	12.50%	12.50%
4th Milestone	478,36,250.00	152,86,131.30	9.10%	3.99%
5th Milestone	478,36,250.00		-	
6th milestone	478,36,250.00		-	
7th milestone	478,36,250.00		-	
8th milestone	478,36,250.00			
Total	3826,90,000.00	1587,94,881.30	46.60%	41.49%
Overall Progress %	100.00%		46.60%	41.49%

PHOTOGRAPHS OF UNNAO STP SITE



Boundary Wall work



SBR Raft casting work



MPS wall 3rd lift RCC



SBR floor curing



Staff Quarter



Safety Awareness Drive

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.
- Barricading work around the STP land completed;
- Boundary wall: Site clearance and Excavation & PCC works in progress;
- Sludge Thickener Area – Site clearance and Excavation & PCC works in progress;
- Guard Room: Site clearance and Excavation & PCC works in progress



Shuklaganj STP campus



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 and 6th milestone are in progress. Till 31.05.2021, 45.28% progress has been done. Due to tremendous surge in COVID-19 cases which is termed as 2nd wave, progress of work has been hampered significantly as most of the manpower and administrative personnel at the Pankha site got infected.
- 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.
- Works of 4th and 5th milestones are in progress. Total progress up to 31.05.2021 is 41.5%. 4th milestone is due on 25.06.2021. Due to tremendous surge in COVID-19 cases which is termed as 2nd wave, progress of work has been hampered significantly as most of the manpower and administrative personnel on the Unnao site got infected.
- 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.
- KRMPL need to expedite the works and simultaneously work on more fronts to achieve targets on time.
- 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

- i. Jajmau 130 MLD STP and CSPS was handover to KRMPL on 01/03/2021 but handing over of the related facilities (IPSS) are still pending.
- ii. KRMPL has started the renovation work from 10.05.2021 without approval of Renovation plan. (KRMPL letter no. 1223 dated 07.05.2021).
- iii. PE has submitted their observations on submission of Renovation plan for 130 MLD STP vide STC letter no.821 dated 07.05.2021. Concessionaire has submitted Revised Renovation plan vide KRMPL letter no.1297 dated 28.05.2021 which is under review.
- iv. Regarding Bioremediation trial, in reference of KRMPL letter no. 1188-A & 1191 dated 22.04.2021 & 23.04.2021, PE submitted its observation letter vide STC letter no. 827 dated 11.05.2021 and suggested UPJN to refer the matter of treatment of 1 stream out of 3 stream to the NMCG for clarification.
- v. All BEPs are approved except Control Philosophy of the plant as concessionaire has submitted the revised Control Philosophy on the basis of Advance sludge handling system which is on hold till approval of Advance sludge handling system.
- vi. Concessionaire has submitted the Advance sludge handling system on which PE has submitted their observations vide STC letter no. 859 dated 22.05.2021.
- vii. It was observed in many site visits / Inspection that the partially treated sewage from 130 MLD STP and untreated sewage from related CSPS overflowed into River Ganga due to inadequate pumping and poor maintenance and need to be noticed.
- viii. Recently, a joint visit of UPJN and PE has been conducted at 130 MLD STP site on dated 31.05.2021, and inspected every unit and found that the partially treated effluent is overflowing to the River Ganga through Airforce Nala. Regarding this PE, submitted a letter to UPJN to direct concessionaire to control overflowing of the effluent to the River Ganga. PE also suggested UPJN to issue a letter in this matter to concessionaire as a Final Notice without prejudice.

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

- i. 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.
- ii. Handover of the 43 MLD STP Jajmau Ph-II is pending and KRMPL is request that a date may be decided for the joint visit of STP site to verify the rectification made by UPJN.
- iii. 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. O&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

Compliance report of Inspection done on 23.02.2021 and inspection report issued on 27.02.2021 has been submitted by the concessionaire on 17.03.2021.

PE inspected 42 MLD STP Sajari on 27.04.2021 and issued inspection note on 13.05.2021 (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, STC conducted a video conference with KRMPL Head office personnel regarding above captioned subject on 08.03.2021 w.r.t. the insurance policies submitted by KRMPL and relevance w.r.t. Article 11.2 of CA. STC also taken the expert advice from our insurance expert team and submit the reports. But KRMPL has not submitted Insurance Policies as per article 11.2.

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 May- 2021 enclosed.

V. Mechanical Screens (Coarse & Fine Screens)

Auto System of both Mechanical Screens still not repaired.

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.(no.2) 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 atleast 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 09.05.2021 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 and 09.05.2021 has not been received yet. Testing report from Spectra research Lab ventures (P) Ltd. of the Joint sample taken on 21.01.2021 has been submitted by concessionaire.

IX. Power backup and Online Monitoring System

DG set for power backup handed over to KRMPL by UPJN on 08.08.2020. RTOLMS has been installed and calibrated, handing over is pending. Outlet Analyzer 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. KRMPL has been submit the schedule maintenance program for the 2nd year vide letter no.1135 dated 06.04.2021. PE commented on schedule maintenance program - 2nd year vide letter no.788 dated 12.04.2021. KRMPL has been submitted compliance report on schedule maintenance program -2nd year vide letter no.1266 dated 20.05.2021. KRMPL compliance is under review.

XII. KPIs Adherence Report

KPIs Adherence Report for the month of April-2021 has been submitted by PE vide letter no.844 dated 17.05.2021. Online Analyzer 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 synchronised 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 and issued inspection reports on 23rd October 2020, 21st November 2020, 19th January 2021 & 4th February 2021. Compliance reports of inspection reports of 23.10.2020, 21.11.2020, 19.01.2021 and 04.02.2021 have not been submitted by KRMPL. Again Inspection done at 210 MLD Bingawan STP on 28.04.2021 and issued inspection report on 12.05.2021. Compliance reports of inspection done on 28.04.2021 have been submitted by KRMPL.

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. Copy of Inspection reports submitted in the month of May 2021 of Bingawan site is 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, STC conducted a video conference with KRMPL Head office personnel regarding above captioned subject on 08.03.2021 w.r.t. the insurance policies submitted by KRMPL and relevance w.r.t. Article 11.2 of CA.STC also taken the expert advice from our insurance expert team and submit the reports. But KRMPL has not submitted Insurance Policies as per article 11.2.

iv. Cleaning and reactivation of UASB Reactors

All the KPIs are not being met during the month of May 2021. Out of 16 no's reactors, UASB reactor no. 1, 4 & 8 has been filled for reactivation after cleaning. Reactor no. 2 & 3 has been filled on &30.06.2021 for reactivation after cleaning.

Reactor 5 &6 has been taken up for cleaning from 02.04.2021 but not completed yet. 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. 1,2, 4 & 8, cleaned and refilled earlier. Reactors no. 3,5 & 6 are still open for

cleaning since 02.04. 2021 .Remaining 09 reactors are filled with sludge. The action plan of cleaning for reactors has not submitted by KRMPL. Performance report of May 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. 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 09.05.2021 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 and 18.03.2021, 09.04.2021 and 09.05.2021 has not been submitted by concessionaire.

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.

viii. Schedule Maintenance Works for 1st & 2nd year

Schedule maintenance works as per approved O&M manual were to be started from 1/08/2020, but not started yet. 2nd year Schedule maintenance submitted by KRMPL vide letter no.936 dated 19.02.2021. STC commented on Schedule maintenance vide letter no.795 dated 15.04.2021. Schedule maintenance works are to be started after the plant is fully operational.

ix. KPIs Adherence Report

KPIs Adherence Report for the month of April-2021 submitted by PE, based on the lab results for the month of April. 2021 (which seems to be reliable) are submitted by PE vide letter no. 845 dated 17.05.2021.

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)

SN	STP Facility	Status / Remarks				
		BEPs	Structure Design & Drawings	Sewer Network	Construction Plan	O&M
A	New Facilities					
i	30 MLD STP - Pankha	Approved	All Approved	Approved	Revised CP (R2) vetted by PE letter no. 832/13.05.2021. Under approval at UPJN	-
ii	15 MLD STP - Unnao	Approved	All Approved except I&D	Approved	Revised CP vetted by PE letter no. 826A/10.05.2021. 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 letter no.865/25.05.2021. Under approval at UPJN	-
B	Rehabilitation 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	O&M Manual		Schedule Maintenance Program		Remarks
C	O&M for 15 years					
i	43 MLD STP - Jajmau (Phase II)	-		-		Handover pending
ii	42 MLD STP - Sajari	Approved		Under Review		-
iii	210 MLD STP - Bingawan	Approved		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 Personnel	Delay by Concessionaire	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)
01.05.2021	Commented on G.A, Technical datasheet & QAP of Blower for 30 MLD STP Pankha.	29.04.21 K-1197	-	-	20	-	-	C.M.Dimri Dr. Giridhar A.K.Seth Linga Rao Satendra Vikas Ajay Mahendra	1+1+1+1+1 +1+1+1	-	-	-	Under review
02.05.2021	SUNDAY												
03.05.2021	Commented on G.A, Technical datasheet & QAP of Blower for 30 MLD STP Pankha.	29.04.21 K-1197	03.05.20 21 S-814	4	20	-	-	C.M.Dimri Dr. Giridhar A.K.Seth Linga Rao Satendra Ajay Mahendra	1+1+1+1+1 +1+1	-	-	-	Requested UPJN to direct KRMPL to submit the relevant documents
03.05.2021	Commented on GA & Technical data Sheet along with QAP for Blower for 15 MLD STP Unnao & 5 MLD STP Shuklaganj.	29.04.21 K-1198	03.05.20 21 S-815	4	20	-	-	C.M.Dimri Dr. Giridhar Priyesh Ajay Rahul Kapil	1+1+1+1+1 +1	-	-	-	Requested UPJN to direct KRMPL to submit the relevant documents
04.05.2021	Commented on piping GA Drawing of	21.04.21 K-1186	04.05.20 21 S-816	13	20	-	-	C.M.Dimri Dr. Giridhar A.K.Seth	1+1+1+1+1 +1+1+1+1+1	-	-	-	Requested UPJN to direct KRMPL to furnish the EOT crane as per

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	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)
	Blower Room for 30 MLD STP Pankha.							Linga Rao Prasoon Priyesh Satendra Ajay Kapil Mahendra					CA.
04.05.2021	Commented on piping GA Drawing of Blower Room for 15 MLD STP Unnao.	21.04.21 K-1185	04.05.20 21 S-817	13	20	-	-	C.M.Dimri Dr. Giridhar A.K.Seth Linga Rao Priyesh Vikas Ajay Kapil	1+1+1+1+1 +1+1+1	-	-	-	Requested UPJN to direct KRMPL to furnish the EOT crane as per CA.
05.05.2021	Commented on piping GA Drawing of Blower Room for 30 MLD STP Pankha.	17.04.21 K-1174	05.05.20 21 S-818	18	20	-	-	C.M.Dimri Dr. Giridhar A.K.Seth Linga Rao Prasoon kapil Satendra Priyesh Pankaj Ajay Rahul Mahendra	1+1+1+1+1 +1+1+1+1+ 1+1+1	-	-	-	Requested UPJN to direct KRMPL to submit the compliance on the said observation.

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
06.05.2021	Submission of Outdoor lighting layout & outdoor lighting calculation for 15 MLD STP Unnao.	03.05.21 K-1204	06.05.20 21 S-819	03	20	-	-	Dr. Giridhar A.K.Seth Linga Rao Linga Priyesh Rahul Kapil Mahendra	1+1+1+1+1 +1+1+1	-	-	-	Recommended for approval with some conditions.
06.05.2021	Submission of Outdoor lighting layout & outdoor lighting calculation for 30 MLD STP Pankha.	03.05.21 K-1205	06.05.20 21 S-820	03	20	-	-	J.P.Tripathi Dr. Giridhar A.K.Seth Linga Rao Satish Prasoon Satendra Rahul Mahendra	1+1+1+1+1 +1+1+1+1	-	-	-	Recommended for approval with some conditions.
07.05.2021	Observation on submission of Construction/ Renovation plan for 130 MLD Jajmau.	22.04.21 K-1187	07.05.20 21 S-821	15	20	-	-	J.P.Tripathi Linga Anil seth Priyesh Pankaj Vikas Ajay Rahul Mahendra	1+1+1+1+1 +1+1+1+1	-	-	-	Requested UPJN to direct KRMPL to submit the compliance on the said observations on the Renovation plan.

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	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)
07.05.2021	Comments on Drawing & documents for Horizontal Centrifugal pump & wet pump for 130 MLD STP Jajmau.	04.05.21 K-1208	07.05.20 21 S-822	03	20	-	-	J.P.Tripathi Pankaj Vikas Ajay Kapil Rahul	1+1+1+1+1 +1	-	-	-	Requested to direct KRMPL to comply on the said points.
07.05.2021	Submission of RCC Design & drawing of Staff Quarter at 05 MLD STP Shuklaganj.	05.05.21 K-1211	07.05.20 21 S-823	02	20	-	-	C.M.Dimri Dr. Giridhar Priyesh Ajay Kapil Rahul Mahendra	1+1+1+1+1 +1+1	-	-	-	Recommended for approval
08.05.2021	Submission of revised construction plan for 30 MLD STP facilities at Pankha.	04.05.21 K-1209	-	-	20	-	-	C.M.Dimri J.P.Tripathi Dr. Giridhar A.K.Seth Linga Rao Satish Satendra Pankaj Vikas Ajay Rahul Mahendra	1+1+1+1+1 +1+1+1+1+1 1+1+1	-	-	-	Under review

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
09.05.2021	Submission of revised construction plan for 30 MLD STP facilities at Pankha.	04.05.21 K-1209	09.05.20 21 S-824	05	20	-	-	C.M.Dimri J.P.Tripathi Dr. Giridhar A.K.Seth Linga Rao Satendra Vikas Ajay Rahul Mahendra	1+1+1+1+1 +1+1+1+1+ 1	-	-	-	Recommended for approval subjected for some conditions
10.05.2021	Submission of internal illumination calculation and layout of various building for 15 MLD STP Unnao.	05.05.21 K-1210	10.05.20 21 S-825	05	20	-	-	C.M.Dimri Dr. Giridhar Priyesh Rahul Kapil	1+1+1+1+1	-	-	-	Recommended for approval subjected for some conditions
10.05.2021	Submission of revised construction plan for 15 MLD STP Unnao.	08.05.21 K-1228	10.05.20 21 S-826A	02	20	-	-	C.M.Dimri J.P.Tripathi Dr. Giridhar A.K.Seth Sunil Linga Rao Priyesh Pankaj Ajay Kapil Mahendra	1+1+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 Personnel	Delay by Concessionaire	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)
10.05.2021	Submission of Construction plan at 05 MLD STP Shuklaganj. (Reminder)		10.05.2021 S-826	-	20	-	-	C.M.Dimri Dr. Giridhar A.K.Seth Linga Rao Priyesh Pankaj Ajay Rahul Kapil Mahendra	1+1+1+1+1 +1+1+1+1+1	-	-	-	Requested UPJN to direct KRMPL to submit the corrected construction plan for Shuklaganj.
11.05.2021	Observation on Renovation of 130 MLD STP at Jajmau – Bioremediation Trail.	23.04.21	11.05.2021 S-827	18	20	-	-	J.P.Tripathi Dr. Giridhar A.K.Seth Linga Rao Sunil Prasoon Vikas	1+1+1+1+1 +1+1	-	-	-	Requested UPJN to put up the matter to NMCG for clarification and directed KRMPL to comply on the said points.
12.05.2021	Site inspection of 210 MLD STP at Bingawan.		12.05.2021 S-828		20	-	-	J.P.Tripathi A.K.Seth Linga Rao Pankaj Ajay Rahul	1+1+1+1+1 +1	-	-	-	Requested UPJN to direct KRMPL to submit the compliance to the pending maintenance / repair / replacement works.
12.05.2021	Regarding revised schedule maintenance plan of Bingawan STP.	K-1177	12.05.2021 S-829		20	-	-	C.M.Dimri J.P.Tripathi Dr. Giridhar A.K.Seth Linga Rao	1+1+1+1+1 +1+1+1+1+1 +1+1+1+1+1	-	-	-	Requested to direct KRMPL to take the cleaning and maintenance works on the war footing to keep

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	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)
								Sunil Prasoon Satendra Pankaj Vikas Ajay Rahul Kapil Mahendra					the parameters within the prescribed limit.
13.05.2021	Monthly Activity reports of 42 MLD Sajari facilities for the month of April-2021.		13.05.2021 S-830		20			C.M.Dimri J.P.Tripathi Dr. Giridhar Linga Rao Pankaj Ajay Rahul	1+1+1+1+1+1+1				Requested UPJN to direct KRMPL to submit the compliance report for the month of April 2021.
13.05.2021	Site inspection conducted on 27.04.2021 at 42 MLD STP Sajari.	12.05.21 K-1241	13.05.2021 S-831	01	20	-	-	C.M.Dimri J.P.Tripathi Dr. Giridhar Linga Rao Priyesh Pankaj Ajay Rahul	1+1+1+1+1+1+1	-	-	-	Requested UPJN to direct KRMPL to submit the compliance report
13.05.2021	Submission of revised construction plan for 30 MLD STP facilities Pankha	11.05.21 K-1234	13.05.2021 S-832	02	20	-	-	C.M.Dimri Dr. Giridhar Sunil Prasoon Satendra Vikas	1+1+1+1+1+1+1	-	-	-	Reviewed and recommended for approval subjected to said conditions.

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
								Ajay Rahul Mahendra					
13.05.2021	Comments on compliance of piping GA of Blower Room for 15 MLD Unnao.	13.05.21 K-1243	13.05.20 21 S-834	-	20	-	-	C.M.Dimri J.P.Tripathi Dr. Giridhar Linga Rao Sunil Priyesh Pankaj Vikas Ajay Kapil Mahendra	1+1+1+1+1 +1+1+1+1+1 1+1	-	-	-	Requested UPJN to direct KRMPL to submit the observations.
13.05.2021	Comments on compliance of piping GA of Blower Room for 30 MLD Pankha	13.05.21 K-1242	13.05.20 21 S-835	00	20	-	-	C.M.Dimri Dr. Giridhar Satendra Pankaj Vikas Ajay Mahendra	1+1+1+1+1 +1+1	-	-	-	Requested UPJN to direct KRMPL to submit the observations.
14.05.2021	Recommendation for Approval of piping GAD for IPS at ICI Nalla & Sundar Nagar for 30 MLD STP Pankha.	11.05.21 K-1236	14.05.20 21 S-833	03	20	-	-	C.M.Dimri J.P.Tripathi Dr. Giridhar Prasoon Satendra Rahul	1+1+1+1+1 +1	-	-	-	Recommended for approval
14.05.2021	Regarding	11.05.21	14.05.20	03	20	-	-	C.M.Dimri	1+1+1+1+1	-	-	-	Observations have

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	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)
	dispatch clearance for 11kv HT VCB Panel for 15 MLD STP Unnao.	J & K-email	21 S-836					Dr. Giridhar A.K.Seth Linga Rao Priyesh Rahul Kapil	+1+1				been made by PE.
14.05.2021	Regarding dispatch clearance for 11kv HT VCB Panel for 30 MLD STP Pankha	14.05.21 K-email	14.05.20 21 S-837	00	20	-	-	C.M.Dimri Dr. Giridhar A.K.Seth Linga Rao Satendra Rahul Mahendra	1+1+1+1+1 +1	-	-	-	Observations have been made by PE.
14.05.2021	Regarding dispatch clearance for 11kv HT VCB Panel for 130 MLD STP Jajmau.	14.05.21 K-email	14.05.20 21 S-838	00	20	-	-	J.P.Tripathi A.K.Seth Linga Rao Vikas Rahul Kapil	1+1+1+1+1 +1	-	-	-	Observations have been made by PE.
15.05.2021	Regarding the Civil Assignment drawing of 30 MLD Pankha	15.05.21 K-email	17.05.21 S-847	02	20	-	-	C.M.Dimri J.P.Tripathi Dr. Giridhar A.K.Seth Linga Rao Prasoon Satendra Priyesh Pankaj Vikas	1+1+1+1+1 +1+1+1+1+1 1+1+1+1+1	-	-		Vetted and 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 Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
								Ajay Rahul Kapil Mahendra					
16.05.2021	Submission of instrumentation design document for 15 MLD STP Unnao.	K-1176	16.05.2021 S-839	-	20	-	-	C.M.Dimri J.P.Tripathi Dr. Giridhar Prasoon Priyesh Rahul Kapil	1+1+1+1+1+1+1	-	-	-	Requested UPJN to direct KRMPL to resubmit the IC&A design documents incorporating the observations along with compliance report.
16.05.2021	Submission of instrumentation design document for 5 MLD STP Shuklaganj.	K-1176	16.05.2021 S-840		20	-	-	C.M.Dimri Dr. Giridhar Prasoon Satendra Priyesh Pankaj Rahul Kapil Mahendra	1+1+1+1+1+1+1+1	-	-	-	Requested UPJN to direct KRMPL to resubmit the IC&A design documents incorporating the observations along with compliance report.
17.05.2021	Regarding monitoring, testing and reporting of laboratory tests conducted on site and by NABL accredited laboratory as per		17.05.2021 S-841		20	-	-	C.M.Dimri J.P.Tripathi Dr. Giridhar Pankaj Vikas Ajay Mahendra	1+1+1+1+1+1+1	-	-	-	Requested UPJN to direct KRMPL to comply on the said points in the monthly progress and daily progress sheet as per CA.

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	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)
	CA for Sajari & Bingawan STP.												
17.05.2021	Observation on Monthly activity Report of 42 MLD Sajari facilities for the month of April 2021.	11.05.21 K-1237	17.05.20 21 S-842	6	20	-	-	C.M.Dimri J.P.Tripathi Dr. Giridhar Satendra Priyesh Pankaj Vikas Ajay Rahul	1+1+1+1+1 +1+1+1+1	-	-	-	Directed KRMPL to resubmit the monthly performance report for April 2021 incorporating the said points.
17.05.2021	Regarding Handover of 33/11kv main substation at Jajmau STP Campus.	05.05.21 J- 847/W- 30/40	17.05.20 21 S-843	12	20	-	-	C.M.Dimri J.P.Tripathi A.K.Seth Vikas Rahul	1+1+1+1+1	-	-	-	Requested KRMPL to direct KRMPL to take over the substation at the earliest.
17.05.2021	KPIs Adherence report of 42 MLD STP Sajari for the month of April-2021.	11.05.21 K-1237	17.05.20 21 S-844	06	20	-	-	J.P.Tripathi Dr. Giridhar Satendra Pankaj Vikas Ajay Kapil Rahul	1+1+1+1+1 +1+1+1	-	-	-	KPI adherence report has been prepared and submitted for the month of April 2021.
17.05.2021	KPIs Adherence report of 210 MLD STP	11.05.21 K-1238	17.05.20 21 S-845	06	20	-	-	C.M.Dimri J.P.Tripathi Dr. Giridhar	1+1+1+1+1 +1+1	-	-	-	KPI adherence report has been prepared and submitted for 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 Personnel	Delay by Concessionaire	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)
	Bingawan for the month of April-2021.							Priyesh Pankaj Vikas Ajay					month of April 2021.
17.05.2021	Submission of assignment drawing for transformer, DG set, VCB Panel and metering room at Pankha.	08.05.21 K-1225	17.05.20 21 S-847	09	20	-	-	C.M.Dimri J.P.Tripathi Dr. Giridhar A.K.Seth Satendra Vikas Rahul	1+1+1+1+1 +1+1	-	-	-	Recommended for approval subjected to said conditions.
17.05.2021	Submission of instrumentation design document for 30 MLD STP Pankha.	K-1175	17.05.20 21 S-848	-	20	-	-	C.M.Dimri J.P.Tripathi Dr. Giridhar Prasoon Satendra Priyesh Pankaj Vikas Rahul	1+1+1+1+1 +1+1+1+1	-	-	-	Requested UPJN to direct KRMPL to resubmit the IC&A design documents incorporating the observations along with compliance report.
18.05.2021	Observation on Monthly activity Report of 210 MLD Bingawan facilities for the month of April 2021.	11.05.21 K-1238	18.05.20 21 S-849	07	20	-	-	C.M.Dimri J.P.Tripathi Dr. Giridhar Satendra Pankaj Vikas Ajay Rahul	1+1+1+1+1 +1+1+1	-	-	-	Directed KRMPL to resubmit the monthly performance report for April 2021 incorporating the said points.
19.05.2021	Submission of	18.05.21	19.05.20	01	20	-	-	C.M.Dimri	1+1+1+1+1	-	-	-	Requested UPJN to

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	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)
	revised construction plan for 05 MLD STP Shuklaganj.	K-1252	21 S-850					J.P.Tripathi Dr. Giridhar A.K.Seth Satendra Priyesh Pankaj Vikas Ajay Rahul Kapil Mahendra	+1+1+1+1+1+1+1				direct KRMPL to Submit the compliance for said observations.
20.05.2021	Guidance for analyses of inlet parameters to assess the impact of possible intrusion/mixing of industrial effluent at Bingawan STP.	19.05.21 K-telephonic	20.05.20 21 S-851	01	20	-	-	C.M.Dimri J.P.Tripathi Dr. Giridhar Satendra Priyesh Vikas Ajay Kapil Mahendra	1+1+1+1+1+1+1+1	-	-	-	On request of KRMPL directed them to conduct extra tests for sewage quality other than prescribed in the CA
20.05.2021	Submission of Electrical document of IPS for 30 MLD STP Pankha.	11.05.21 K-1235	20.05.20 21 S-852	09	20	-	-	C.M.Dimri J.P.Tripathi Dr. Giridhar A.K.Seth Satendra Pankaj Vikas Rahul Mahendra	1+1+1+1+1+1+1+1	-	-	-	Requested to direct KRMPL to resubmit the electrical drawings & documents.

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	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)
20.05.2021	Submission of Overall Single line Diagram for IPS Sunder Nagar & ICI Nalla at 30 MLD STP Pankha.	14.05.21 K-1246	20.05.20 21 S-853	06	20	-	-	C.M.Dimri J.P.Tripathi Dr. Giridhar Satendra A.K.Seth Vikas Ajay Rahul Kapil Mahendra	1+1+1+1+1 +1+1+1+1+ 1	-	-	-	Requested to direct KRMPL to resubmit the overall single line diagram for IPS.
20.05.2021	Disposal of Sludge outside 210 MLD STP Bingawan.	15.05.21 J- 949/w- 31/71	20.05.20 21 S-854	05	20	-	-	J.P.Tripathi Priyesh Pankaj Vikas Ajay Kapil	1+1+1+1+1 +1	-	-	-	Directed KRMPL to dispose the sludge on the allotted land.
21.05.2021	Submission of internal illumination calculation & layout of building at 30 MLD STP at Pankha.	18.05.21 K-1254	21.05.20 21 S-855	03	20	-	-	C.M.Dimri J.P.Tripathi Dr. Giridhar A.K.Seth Satendra Vikas Rahul Mahendra	1+1+1+1+1 +1+1+1	-	-	-	Recommended for approval subjected to said conditions.
21.05.2021	Reminder – Submission of Unnao STP disposal line layout with civil	-	21.05.20 21 S-856	-	20	-	-	C.M.Dimri J.P.Tripathi Dr. Giridhar Satendra Priyesh	1+1+1+1+1 +1+1+1+1	-	-	-	Reminder letter has been submitted to furnish the compliance report along with revised drawing.

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	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)
	GA of shaft and manhole.							Pankaj Vikas Ajay Kapil					
21.05.2021	Submission of Compliance of I&D works for Unnao.	K-977	21.05.2021 S-857	-	20	-	-	C.M.Dimri J.P.Tripathi Dr. Giridhar Priyesh Vikas Ajay Rahul Kapil	1+1+1+1+1 +1+1+1	-	-	-	Recommended for approval and directed to submit the detailed engineering of I&D works at Unnao.
22.05.2021	Compliance on updated sewerage network (R-7) for 30 MLD STP Pankha.	K-1199	22.05.2021 S-858	-	20	-	-	C.M.Dimri J.P.Tripathi Dr. Giridhar Satendra Priyesh Pankaj Vikas Ajay Rahul Kapil Mahendra	1+1+1+1+1 +1+1+1+1+1 1+1	-	-	-	Recommended for approval subjected to said conditions.
22.05.2021	Proposal for advance sludge Handling system at 130 MLD STP Jajmau.	18.05.21 J-964/w-30/44	22.05.2021 S-859	04	20	-	-	C.M.Dimri J.P.Tripathi Dr. Giridhar Satendra Priyesh Pankaj	1+1+1+1+1 +1+1+1	-	-	-	Observations have been made by PE and directed KRMPL to comply on the same.

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
								Vikas Rahul					
23.05.2021	SUNDAY												
24.05.2021	Submission of revised construction plan for 05 MLD Shuklaganj facilities.	20.05.21 K-1268	-	-	20	-	-	C.M.Dimri J.P.Tripathi Dr. Giridhar Satendra Priyesh Pankaj Vikas Ajay Kapil Mahendra	1+1+1+1+1 +1+1+1+1+1	-	-	-	Under review
25.05.2021	Reminder – Information related to the Mechanical, Electrical & Instrumental equipments purchased under HAM project Kanpur for Pankha & Jajmau STP facilities.	-	25.05.20 21 S-860	-	20	-	-	C.M.Dimri J.P.Tripathi Dr. Giridhar Satendra Priyesh Pankaj Vikas Ajay Rahul	1+1+1+1+1 +1+1+1+1	-	-	-	Reminder letter has been submitted by PE to KRMPPL to submit the compliance report of the said observations.
25.05.2021	Submission of revised construction plan for 05 MLD	20.05.21 K-1268	25.05.20 21 S-861	05	20	-	-	C.M.Dimri Dr. Giridhar Satendra Priyesh	1+1+1+1+1 +1+1+1+1+1	-	-	-	Recommended for approval subjected to said conditions.

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	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)
	Shuklaganj facilities.							Pankaj Vikas Ajay Rahul Kapil Mahendra					
26.05.2021	Submission of revised Control & Operational Philosophy for 130 MLD STP Jajmau.	20.05.21 K-1263	-	-	20	-	-	C.M.Dimri Dr. Giridhar Sunil Pankaj Vikas Ajay Rahul Kapil	1+1+1+1+1 +1+1+1+1+1	-	-	-	Under review
27.05.2021	Reimbursement of O&M expenses at Bingawan facilities before Effective date of CA.	25.05.21 K-1264	27.05.20 21 S-862	02	20	-	-	C.M.Dimri J.P.Tripathi Dr. Giridhar Satendra Pankaj Vikas Ajay Rahul Kapil Mahendra	1+1+1+1+1 +1+1+1+1+1	-	-	-	PE submitted the clarification regarding the cited subject to UPJN
27.05.2021	Compliance on Submission for cost implication due to change of FoS for design	07.05.21 K-1217	27.05.20 21 S-863	20	20	-	-	C.M.Dimri Dr. Giridhar Satendra Priyesh Pankaj	1+1+1+1+1 +1+1+1+1	-	-	-	Observations have made on the said subject to comply.

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6 -5]	Reason for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	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 bedding for sewerage network for 30 MLD STP Pankha facilities as per clause no. 20 of CA.							Vikas Ajay Kapil Mahendra					
28.05.2021	Inspection note of Pankha STP site and facilities under Namami Gange –HAM Project.		28.05.2021 S-864	-	20	-	-	C.M.Dimri Dr. Giridhar Satendra Priyesh Pankaj Vikas Ajay Kapil Mahendra	1+1+1+1+1 +1+1+1+1	-	-	-	Inspection report has been submitted by PE.
28.05.2021	Unnao STP site Inspection Report of Dated 27.05.2021.		28.05.2021 S-865	0	20	-	-	C.M.Dimri Dr. Giridhar Satendra Priyesh Pankaj Vikas Ajay Kapil Mahendra	1+1+1+1+1 +1+1+1+1	-	-	-	Inspection report has been submitted by PE.
29.05.2021	Regarding dispatch	29.05.21 K- email	-	-	20	-	-	C.M.Dimri J.P.Tripathi	1+1+1+1+1 +1+1+1+1	-	-	-	Under review

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6 -5]	Reason for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	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)
	clearance for submersible pumps for 15 MLD STP Unnao.							Dr. Giridhar Satendra Priyesh Pankaj Vikas Ajay Kapil					
30.05.2021	SUNDAY												
31.05.2021	Submission of revised Control & Operational Philosophy for 130 MLD STP Jajmau.	20.05.21 K-1263	31.05.20 21 S-866	11	20	-	-	J.P.Tripathi Dr. Giridhar Satendra Pankaj Vikas Ajay Rahul Kapil	1+1+1+1+1 +1+1+1	-	-	-	Vetting of Revised control philosophy is on hold until the approval or final decision on Advance sludge handling unit.

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


SN	Name	Designation	Total Man-days	Input
1.	Dr. Giridhar Prabhu Kumar	Team Leader cum waste water expert	31	Timesheet attached
2.	Mr. Chandra Mauleshwar Dimri	Senior Civil Engineer	31	Timesheet attached
3.	Mr. Jai Prakash Tripathi	O&M Engineer	31	Timesheet attached
4.	Mr. Anil Kumar Seth	Senior Electrical Engineer	19	Timesheet attached
5.	Mr. Satish Kamaraju PE	Senior Process Engineer	02	Timesheet attached
6.	Mr. Sunil Basutkar	Senior Mechanical Engineer	05	Timesheet attached
7.	Mr. Prasoon Bhardwaj	Instrumentation Engineer	10	Timesheet attached
8.	Mr. Linga Krishna Rao	Safety expert	15	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			
Name :	Giridhar Prabhukumar	Month/Year:	
Position:	Team Leader & Wastewater Expert	May-21	
Date	Description	Location	
1	Review of Plant data for Jajmau 130 MLD Plant; discussion with Mr. PC Shukla and UPJN regarding Jajmau 130 MLD STP	WFH	
2	Sunday		
3	Review of Plant data for Bingawan 210 MLD Plant	WFH	
4	Discussion with JP Tripathi regarding Bioremediation and renovation plan for Jajmau 130 MLD STP.	WFH	
5	Discussion of issues at Bingawan plant from Site inspection report with Team	WFH	
6	Discussed and finalised comments for 130 MLD Jajmau plant renovation plan	WFH	
7	Review of renovation plan along with the milestone payments of 130 MLD STP Jajmau (STC #821)	WFH	
8	2nd SATURDAY		
9	SUNDAY		
10	Preparation of presentation for meeting with MD, UPJN	WFH	
11	Discussion & response to Jajmau 130 MLD STP & related pumping station take over (STC #827); Virtual meeting with MD, UPJN and rest of the UPJN team.	WFH	
12	Renovation of 130 MLD STP at Jajmau Bioremediation trial (STC #827)	WFH	
13	Discussion regarding performance at Bingwan and Jajmau STPs	WFH	
14	Discussion on Insurance policies w/ team and Mr. Prasana Shah	WFH	
15	Review of comments on KRMPL submittal for electrical cables for Jajmau 130 MLD	WFH	
16	SUNDAY		
17	Review of Monthly Activity report for Sajari; issued Letter #841 regarding monitoring, testing and reporting of lab test and third party as per CA norms.	WFH	
18	Review of KPI adherence report of Bingawan	WFH	
19	Prepared letter regarding the additional parameters to be checked at Bingawan site to provide guidance to KRMPL as requested, to confirm the impact of industrial effluent at the inlet, if any.	WFH	
20	Discussion with Team and GM, UPJN on advanced sludge handling system for Jajmau 130 MLD stp.	WFH	
21	Review of comments regarding I&D unnao and Treated effluent Disposal line of 15 MLD STP Unnao.	WFH	
22	Review of comments on Revised / updated sewerage network R-7 Pankha; Discussion regarding centrifuge and available drying beds at 130 MLD STP.	WFH	
23	SUNDAY		
24	Mobilised support engineers to respective sites for site inspections and gathered updates on current status at new construction sites and O&M facilities.	WFH	
25	Shuklaganj construction plan appraised.	WFH	
26	Site inspections findings and review of respective plant status	WFH	
27	Reviewed and issued letter No. 852 on reimbursement of O&M expenses of Bingawan	WFH	
28	Virtual Meeting with GM, UPJN and KRMPL on Advanced Sludge System proposal for 130 MLD STP at Jajmau by KRMPL and discussed other pending issues	WFH	
29	Discussed pending issued and current status of respective plants with support engineers during their site visits.	WFH	
30	SUNDAY		
31	Reviewed comments on revised P & ID and control Philosophy for 130 MLD Jajmau	WFH	

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



Signature of Employee



Signature of Team Leader

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

Project Engineer	Shah Technical Consultants Pvt Limited	
NMCG-STP Projects at Kanpur under Hybrid Annuity based PPP Mode		
Daily Report		
Name : Chandra Mauleshwar Dimri	Month/Year:	
Position: Senior Engineer Civil	May-21	
Date	Description	Location
1	Discussion with PM1, UPJN & Mr. PC Shukla, KRMPL about jajmau 130 MLD STP O&M.	Kanpur
2	SUNDAY	Kanpur
3	Discussion with KRMPL about BEP Process Shuklaganj STP	Kanpur
4	Apraising Time sheet of Mr. Walunjar and discussion with PM4 and KRMPL about schedule 15 and PM E&M Kanpur about TPI	Kanpur
5	Apraisal of Construction Plan Jajmau 130 MLD STP	Kanpur
6	Finalisation of comments on construction plan 130 mld STP Jajmau	Kanpur
7	Discussion with Mr BK Garg GM UPJN about handing over of Jajmau II STP and Jajmau I O&M	Kanpur
8	Vetting of Pankha CP and Discussion with GM & PM 1 GPCU UPJN regarding progress of Pankha and Unnao and O&M jajmau 130 MLD STP / Second Saturday	Kanpur
9	SUNDAY	Kanpur
10	PPT for 11 th meeting appraised / updated and discussion with PM KRMPL about pending	Kanpur
11	Attended Video Conferencing called by MD UPJN Lucknow	Kanpur
12	Discussion with Mr Manobendra PM KRMPL about Construction Plan Pankha	Kanpur
13	Discussion with GM GPCU UPJN about Bingwan STP notice and Jajmau 1 STP over loading of streams.	Kanpur
14	HOLIDAY EID-UL-FITR / Video conferencing with TL and O&M Engineer about insurance policies	Kanpur
15	Apraisal of KRMPL proposal of sewer laying trenchless and bedding provisions.	Kanpur
16	SUNDAY	Kanpur
17	Vetted construction plan of UNNAO Facility SLD of Pankha facility Sundernagar and ICI nala.	Kanpur
18	Vetted construction plan of Shuklaganj Facility SLD of Pankha facility Sundernagar and ICI nala.	Kanpur
19	Discussion with GM GPCU UPJN about Bingwan STP availability and Bingwan sewerage inflow quality along with Mr. Brahmre of KRMPL.	Kanpur
20	Discussion with GM GPCU UPJN & Mr M anobendra PM KRMPL about advance sludge handling system of Jajmau 130 MLD STP.	Kanpur
21	Discussion with Mr Mohit EE UPJN Unnao about I&D Works and disposal channel of Unnao.	Kanpur
22	Discussion with Mr PM1 UPJN about Jajmau 130 MLD STP centrifuge and available dry beds.	Kanpur
23	SUNDAY	Kanpur
24	Construction Plan Shuklaganj facilities appraised .	Kanpur
25	Construction Plan Shuklaganj facilities appraised .	Kanpur
26	Appraised Pankha facilities sewer network and laying to start from Awass vikas colony and Mr Satendra, Support Engineer directed to follow at site.	Kanpur
27	Inspection of UNNAO facilities Mr Kapil and Mr Pankaj.	Kanpur
28	Video conference with GM GPCU UPJN Kanpur.	Kanpur
29	Issues of Unnao and Shuklaganj facilities discussed regarding visit of SMCG.	Kanpur
30	SUNDAY	Kanpur
31	Discussion with SE 23rd Circle UPJN Lucknow about issues of Unnao and Shuklaganj facilities.	Kanpur

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

Signature of Employee

Signature of Team Leader


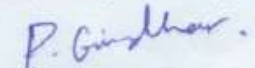
Mr. J. P. Tripathi (O&M Engineer)

Project Engineer		Shah Technical Consultants Pvt Limited	
NMCg-STP Projects at Kanpur under Hybrid Annuity based PPP Mode			
Daily Report			
Name :	JAI PRAKASH TRIPATHI	Month/Year:	May-21
Position:	O & M ENGINEER	Location	Kanpur
Date	Description	Location	
1	Prepared Time Sheet and Invoice for the Month of April 2021	Kanpur	
2	Sunday		
3	Discussed with TL regarding disposal of 44 MLD flow during renovation of 130 MLD Jajmau STP	Kanpur	
4	Discussed with TL regarding Bioremedial process proposed for treatment of 44 MLD additional flow in 2 streams during renovation of Jajmau STP	Kanpur	
5	Discussed with TL regarding Bioremedial process to be adopted by KRMPPL to keep KPIs of Bingawan STP till cleaning and reactivation of all UASB reactors, cleaning of Aeration Tanks and Polishing Pond.	Kanpur	
6	Gave comments on the disposal and treatment of 44 MLD influent during renovation of 130 MLD Jajmau Plant as desired by TL	Kanpur	
7	Reviewed and suggested corrections in the Inspection Report of 210 MLD Bingawan STP, inspection done by TL on 28/04/2021	Kanpur	
8	Second Saturday		
9	Sunday		
10	Corrected and finalized PPT for Sajari & Bingawan for proposed Zoom meeting with MD UPJN on 11/05/2021	Kanpur	
11	Attended zoom meeting with MD UPJN	Kanpur	
12	Corrected and finalized comments on Monthly Activity Report of Sajari for the month of April 2021	Kanpur	
13	Discussed with TL and Mr. Dimri regarding Insurances during construction and O & M periods	Kanpur	
14	Zoom meeting with Mr. Prasanna, TL and Mr. Dimri regarding Insurances during construction and O & M periods	Kanpur	
15	Corrected and finalized comments on Monthly Activity Report of Bingawan for the month of April 2021	Kanpur	
16	Sunday		
17	Sent KPIs adherence reports of Bingawan and Sajari for the month of April 2021	Kanpur	
18	Sent observations on Monthly Activity Report of 210 MLD Bingawan Facilities for the month of April 2021	Kanpur	
19	Discussed with PM 2 GPCU UPJN regarding Schedule Maintenance Programme of Sajari for year-2	Kanpur	
20	Discussed with TL and Mr. Dimri regarding Advance Sludge Disposal proposals submitted by KRMPPL	Kanpur	
21	Discussed with GM & PM 2 GPCU UPJN regarding Revised Schedule Maintenance Programme of Sajari Facilities for year 2 submitted by KRMPPL in compliance to STC comments dated 12/04/2021	Kanpur	
22	Discussed with Priyesh Shukla regarding Advance Sludge Disposal proposals submitted by KRMPPL for 130 MLD Jajmau Plant	Kanpur	
23	Sunday		
24	Discussed with PM 2 GPCU UPJN regarding O & M of conveyance system (Rising mains/ Gravity mains) of raw sewage from IPSs to MPS by KRMPPL	Kanpur	
25	Discussed with GM GPCU UPJN and TL regarding pending issues with UPJN	Kanpur	
26	Discussed with PM IIIGPCU UPJN regarding reimbursement of O & M charges prior to Effective Date for Bingawan facilities	Kanpur	
27	Wrote letter to GM GPCU UPJN regarding reimbursement of O & M charges prior to Effective Date for Bingawan facilities	Kanpur	
28	Meeting with GM GPCU UPJN in his office regarding pending issues on which action to be taken by UPJN	Kanpur	
29	Sent draft letter on behalf of GM GPCU UPJN to be written to KRMPPL regarding Insurances.	Kanpur	
30	Sunday		
31	Discussed with GM GPCU UPJN regarding Insurances during construction and O & M periods	Kanpur	



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

<p>Signature of Employee</p>	<p>Signature of Team Leader</p>
------------------------------	---------------------------------

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

Project Engineer		Shah Technical Consultants Pvt Limited	
NMCSTP Projects at Kanpur under Hybrid Annuity based PPP Mode			
Daily Report			
Name :	Anil Kumar Seth	Month/Year:	
Position:	Senior Electrical Engineer	May-21	
Date	Description	Location	
1	Review of earthing and lighting calculation of 15 MLD STP Unnao	Kanpur	
2	Sunday	Kanpur	
3	Review of Outdoor lighting layout & outdoor lighting calculation of 15 MLD STP Unnao	Kanpur	
4	Review of Outdoor lighting layout & outdoor lighting calculation of 30 MLD STP Pankha	Kanpur	
5	Review of Renovation plan of 130 MLD STP Jajmau	Kanpur	
6	Drafted the letter regarding recommendation of Outdoor lighting layout of 15 MLD & 30 MLD STP Unnao & Pankha	Kanpur	
7	Review of internal illumination drawing of staff quarter and Guard room 15 MLD STP Unnao	Kanpur	
8	Second Saturday	Kanpur	
9	Sunday	Kanpur	
10	Drafted the letter regarding internal illumination of 15 MLD STP Unnao	Kanpur	
11	Review of factory inspection report of 11 KV VCB panel with respect QA	Kanpur	
12	Review the inspection report of 11 KV HT VCB Panel regarding dispatch clearance	Kanpur	
13	Prepare QA points to be checked for transformer testing due on 17.05.2021	Kanpur	
14	Eid-ul-fitar	Kanpur	
15	Review of Civil Assignment drawing of transformer,DG Set,VCB Panel,Metering room 15 MLD STP Unnao	Kanpur	
16	Sunday	Kanpur	
17	Drafted letter regarding civil assignment drawing 15MLD & 30 MLD Pankha & Unnao,Instrumentation drawing	Kanpur	
18	Review of load list ,Max. demand calculation ,transformer /DG set Sizing calculation of IPS Sunder Nagar & ICI Nallah pankha	Kanpur	
19	Review of Single line Diagram of IPS Sunder nagar & ICI Nallah Pankha	Kanpur	
20	Helped in drafting letter for SLD,Load calculation ,transformer /DG sets for IPS Sunder nagar & ICI Nallah pankha	Kanpur	
21	Review of internal electrification for various building for Pankha & Drafting letter for recommendations to UPJN	Kanpur	
22		Kanpur	
23		Kanpur	
24		Kanpur	
25		Kanpur	
26		Kanpur	
27		Kanpur	
28		Kanpur	
29		Kanpur	
30		Kanpur	
31		Kanpur	
I hereby certify that the time report above is a true and complete statement of my working time for the payroll period.			
 Signature of Employee		 Signature of Team Leader	

Mr. Sunil Basutkar (Mechanical Expert)

Project Engineer		Shah Technical Consultants Pvt Limited	
NMCG-STP Projects at Kanpur under Hybrid Annuity based PPP Mode			
Daily Report			
Name :	Sunil Basutkar	Month/Year:	May-21
Position:	Mechanical Expert	Location	
Date	Description		
1			
2			
3			
4			
5			
6			
7			
8			
9			
10	Review of Mechanical submittals of 15 MLD STP UNNAO	*Pune	
11	Review of Mechanical submittals of 15 MLD STP UNNAO	*Pune	
12	Review of Mechanical submittals of 30 MLD STP PANKHA	*Pune	
13	Review of Mechanical submittals of 30 MLD STP PANKHA	*Pune	
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26	Review of Mechanical submittals of 30 MLD STP PANKHA	*Pune	
27			
28			
29			
30			
31			
I hereby certify that the time report above is a true and complete statement of my working time for			
 Signature of Employee		 Signature of Team Leader	

NOTE - * Home Office Input

Mr. Prasoon Bhardwaj (Instrumentation Engineer)

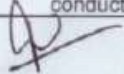
Project Engineer		Shah Technical Consultants Pvt Limited	
NMCG-STP Projects at Kanpur under Hybrid Annuity based PPP Mode			
Daily Report			
Name :	Prasoon Bhardwaj	- Month/Year:	
Position:	Instrumentation Engineer	May-21	
Date	Description	Location	
1			
2			
3			
4	Review of Drive Control Philosophy write-up and Drive Input/Output interface for 15 MLD SBR based STP at Unnao, Kanpur.	Jaipur(W/H)	
5	Review of Drive Control Philosophy write-up and Drive Input/Output interface for 15 MLD SBR based STP at Unnao, Kanpur.	Jaipur(W/H)	
6	Review of PLC IO list 15 MLD SBR based STP at Unnao, Kanpur.	Jaipur(W/H)	
7			
8			
9			
10			
11	Review of Instrument list for 15 MLD SBR based STP at Unnao, Kanpur.	Jaipur(W/H)	
12	Review of PLC RTOLMS signal list for 15 MLD SBR based STP at Unnao, Kanpur.	Jaipur(W/H)	
13	Review of Drive Control Philosophy write-up and Drive Input/Output interface for 30 MLD SBR based STP at Pankha, Kanpur.	Jaipur(W/H)	
14	Review of Drive Control Philosophy write-up and Drive Input/Output interface for 30 MLD SBR based STP at Pankha, Kanpur.	Jaipur(W/H)	
15	Review of PLC IO list 30 MLD SBR based STP at Pankha, Kanpur.	Jaipur(W/H)	
16	Review of Instrument list for 15 MLD SBR based STP at Pankha, Kanpur.	Jaipur(W/H)	
17	Review of PLC RTOLMS signal list for 15 MLD SBR based STP at Pankha, Kanpur.	Jaipur(W/H)	
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			

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

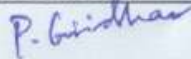
 Signature of Employee	 Signature of Team Leader
--	--

Mr. L.K. Rao (Safety Expert)

Project Engineer	Shah Technical Consultants Pvt Limited	
NMCg-STP Projects at Kanpur under Hybrid Annuity based PPP Mode		
Daily Report		
Name :	Linga Krishna Rao	Month/Year:
Position:	Safety Expert	MAY,2021
Date	Description	Location
1	Covid-19 instruction construction safety instructions explained to workers in tool box talks conducted on usage of personal protective equipments at Pankha.	Hyderabad
2	SUNDAY	Hyderabad
3	Covid-19 instruction construction safety instructions explained to workers in tool box talks on shuttering work at Unnao.	Hyderabad
4	Covid-19 instruction construction safety instructions explained to workers in tool box talks on working at excavated pits at Pankha.	Hyderabad
5	Covid-19 instruction construction safety instructions explained to workers in tool box talks on electrical safety at Unnao.	Hyderabad
6	Covid-19 instruction construction safety instructions explained to workers in tool box talks on house keeping safety at Bingawan O&M Plant.	Hyderabad
7	Covid-19 instruction construction safety instructions explained to workers in tool box talks conducted on usage of personal protective equipments at Sajari O& M Plant.	Hyderabad
8	SECOND SATURDAY	
9	SUNDAY	
10	Covid-19 instruction construction safety instructions explained to workers in tool box talks on material handling safety at Unnao.	Hyderabad
11	Covid-19 instruction construction safety instructions explained to workers in tool box talks conducted on construction safety rules and regulations at Pankha.	Hyderabad
12	Covid-19 instruction construction safety instructions explained to workers in tool box talks on personal hygiene and safety at Jajmau O&M Plant.	Hyderabad
13	Covid-19 instruction construction safety instructions explained to workers in tool box talks on house keeping safety at Bingawan O&M Plant.	Hyderabad
14	HOLIDAY	
15	Covid-19 instruction construction safety instructions explained to workers in tool box talks conducted on usage of personal protective equipments at Sajari O& M Plant.	Hyderabad



 Signature of Employee






 Signature of Team Leader

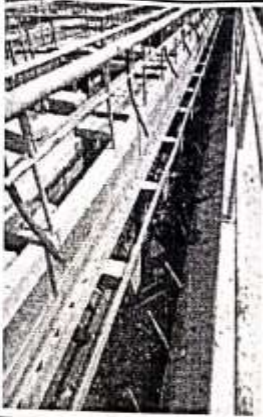


Annexure 3: Monthly Performance Report of Bingawan for May 2021



210 MLD SEWAGE TREATMENT PLANT, BINGAWAN, KANPUR																	
MONTHLY FLOW & LAB REPORT																	
Date	INLET FLOW IN MLD	Plant Efflu. In DIS	RAW SEWAGE						TREATED EFFLUENT						Dissolved Solids Concentration	SOLIDS RETENTION TIME	S.D.P.
			Temp	TSS	PH	DO	BOD	TSS	Temp	TSS	PH	DO	BOD	TSS			
			%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm			
1-May-21	144.10	24.0	20	1940	7.1	108	180	845	24	1180	7.1	100	47	30	21	500	
2-May-21	138.20	24.0	20	1840	7.1	104	172	470	28	1070	7.0	100	46	30	21	500	
3-May-21	139.70	24.0	20	1800	7.1	104	169	470	28	1080	7.0	100	45	30	21	500	
4-May-21	96.63	24.0	20	1070	7.1	101	170	465	28	1080	7.0	100	46	30	21	500	
5-May-21	42.84	24.0	20	1050	7.1	100	165	477	28	1080	7.0	100	46	30	21	500	
6-May-21	45.43	24.0	20	1020	7.1	100	165	490	28	1080	7.0	100	46	30	21	500	
7-May-21	116.29	24.0	20	1050	7.1	100	165	480	28	1080	7.0	100	46	30	21	500	
8-May-21	135.04	24.0	20	1050	7.1	100	175	422	28	1080	7.0	100	46	30	21	500	
9-May-21	137.29	24.0	20	1020	7.1	100	170	445	27	1080	7.0	100	46	30	21	500	
10-May-21	135.26	24.0	20	1000	7.1	100	180	475	28	1070	7.0	100	46	30	21	500	
11-May-21	132.32	24.0	20	1020	7.1	100	170	480	28	1080	7.0	100	46	30	21	500	
12-May-21	143.37	24.0	20	1070	7.1	100	170	485	28	1080	7.0	100	46	30	21	500	
13-May-21	145.45	24.0	20	1000	7.1	100	170	490	28	1080	7.0	100	47	30	21	500	
14-May-21	129.27	24.0	20	1000	7.1	100	160	470	28	1070	7.0	100	46	30	21	500	
15-May-21	134.07	24.0	20	1020	7.1	100	170	495	28	1080	7.0	100	46	30	21	500	
16-May-21	131.22	24.0	20	1060	7.1	100	165	470	28	1070	7.0	100	46	30	21	500	
17-May-21	130.90	24.0	20	1040	7.1	100	160	480	28	1080	7.0	100	46	30	21	500	
18-May-21	130.33	24.0	27	1080	7.1	100	170	470	27	1080	7.0	100	46	30	21	500	
19-May-21	129.00	24.0	27	1020	7.2	100	170	460	27	1070	7.0	100	46	30	21	500	
20-May-21	130.00	24.0	20	1000	7.1	100	180	470	28	1080	7.0	100	47	30	21	500	
21-May-21	129.00	24.0	20	1000	7.1	100	180	480	28	1080	7.0	100	47	30	21	500	
22-May-21	134.00	24.0	20	1020	7.1	100	165	460	28	1070	7.0	100	46	30	21	500	
23-May-21	118.54	24.0	20	1050	7.1	100	170	480	28	1080	7.0	100	46	30	21	500	
24-May-21	139.20	24.0	20	1080	7.1	100	160	480	28	1080	7.0	100	46	30	21	500	
25-May-21	121.30	24.0	20	1080	7.1	100	160	460	28	1080	7.0	100	46	30	21	500	
26-May-21	137.29	24.0	20	1000	7.0	100	160	460	27	1080	7.0	100	46	30	21	500	
27-May-21	125.67	24.0	27	1070	7.0	100	160	460	27	1080	7.0	100	46	30	21	500	
28-May-21	116.94	24.0	27	1080	7.1	100	160	460	28	1080	7.0	100	46	30	21	500	
29-May-21	132.00	24.0	20	1050	7.1	100	170	460	28	1080	7.0	100	46	30	21	500	
30-May-21	145.10	24.0	27	1070	7.2	100	170	460	27	1080	7.0	100	46	30	21	500	
31-May-21	120.92	24.0	20	1040	7.2	100	170	460	27	1080	7.0	100	46	30	21	500	
TOTAL	4420.30								2211.70				191.0	48.7	21.43	50.75	
AVG	179.69	24.00	27.0	1054.2	7.1	100.0	174.5	463.5	27.0	1080.0	7.0	100.0	46.7	30.0	21.43	50.75	



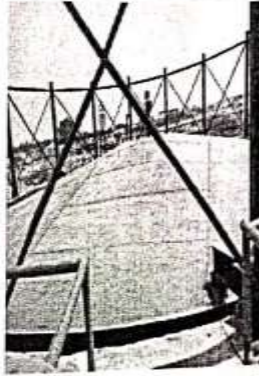
Annexure 4: Site Inspection Reports for the Month of May-2021 (Bingawan)

STC		SITE INSPECTION REPORT			BINGAWAN STP - 210 MLD		Date: 28/04/2021	INSPECTED BY: AG, GP
S. No.	Equipment	Assessment of Current Condition	Assessment of Current Condition photo	Corrective Action Required	Corrective Action Completed by IKMPL	Original Date of Issue	Proposed Date to Resolve by IKMPL	Current Status of Compliance
10	Pump no 8	Operated						No any action Required
11	Pump no 3	Not Operated		Repair		02-12-2021	Not submitted yet	PENDING
12	Pump no 10	Operated						No any action Required
13	Pump no 11	Operated						No any action Required
14	Pump no 12	Operated						No any action Required
15	Mechanical bar screen no 04	Operated						No any action Required
16	Mechanical bar screen no 02	Not Operated		Repair		03-02-2021	Not submitted yet	PENDING
17	Mechanical bar screen no 03	Operated						No any action Required
18	Conveyor for Mech bar screen no 02	Operated						No any action Required
19	Grit removal mechanism-Detritor no 01 Main drive, Classifier drive, Organic pump	Not Operated		Repair		01-02-2022	Not submitted yet	PENDING
20	Grit removal mechanism- Detritor no 02 Main drive, Classifier drive, Organic pump	Operated						No any action Required
21	Grit removal mechanism- Detritor no 03 Main drive, Classifier drive, Organic pump	Operated						No any action Required

SITE INSPECTION REPORT				BINGAWAN STP - 210 MLD		Date: 28/04/2021	INSPECTED BY: AG, GP	
S. No.	Equipment	Assessment of Current Condition	Assessment of Current Condition photo	Corrective Action Required	Corrective Action Completed by	Original Date of Issue	Proposed Date to Resolve by KRMPL	Current Status of Compliance
22	Grit removal mechanism-Detritor no.04 Van four. Classifier above Organic pump	Operated			KRMPL			No any action Required
23	UASB Reactor-no.1	Cleaned and filled but sludge blanket not formed		Reactivation of the UASB reactor required		23.01.2021		PENDING
24	UASB Reactor-no.2	Cleaned and filled		Reactivation of the UASB reactor required		21.04.2021		PENDING
25	UASB Reactor-no.3	Under Maintenance		Repair/Replacement of internal, Cleaning and reactivation		20-08-2020	End of Dec. 2020	PENDING
26	UASB Reactor-no.4	Cleaned and filled but sludge blanket not formed		Reactivation of the UASB reactor required		23.01.2021	Not submitted yet	PENDING
27	UASB Reactor-no.5	Under Maintenance		Repair/Replacement of internal, Cleaning and reactivation		15.03.2021	Not submitted yet	PENDING
28	UASB Reactor-no.6	Under Maintenance		Repair/Replacement of internal, Cleaning and reactivation		15.03.2021	Not submitted yet	PENDING

STC		SITE INSPECTION REPORT			BAGAWAN STP - 210 MLD	Date: 26/04/2021	INSPECTED BY: M. G. SP	
S. No.	Equipment	Assessment of Current Condition	Assessment of Current Condition photo	Corrective Action Required	Corrective Action Completed by EMPL	Original Date of Issue	Proposed Date to Resolve by EMPL	Current Status of Compliance
26	UASB Reactor- no 7	Overhead but filled with sludge		Cleaning and reactivation				PENDING
28	UASB Reactor- no 8	Cleaned and filled but sludge head not formed		Reactivation of the UASB reactor required		23.01.2021		PENDING
29	UASB Reactor- no 9	Operated but filled with sludge		Cleaning and reactivation				PENDING
31	UASB Reactor- no 10	Operated but filled with sludge		Cleaning and reactivation				PENDING
33	UASB Reactor- no 11	Operated but filled with sludge		Cleaning and reactivation				PENDING
34	UASB Reactor- no 12	Operated but filled with sludge		Cleaning and reactivation				PENDING
35	UASB Reactor- no 13	Operated but filled with sludge		Cleaning and reactivation				PENDING
36	UASB Reactor- no 14	Operated but filled with sludge		Cleaning and reactivation				PENDING
37	UASB Reactor- no 15	Operated but filled with sludge		Cleaning and reactivation				PENDING
38	UASB Reactor- no 16	Operated but filled with sludge		Cleaning and reactivation				PENDING
39	Facultative aerated lagoon	Filled With Sludge		Cleaning & De-sludging	-	23.01.2021	Not submitted yet	PENDING
	A) Aerated zone	Filled With Sludge		Cleaning & De-sludging	-	23.01.2021	Not submitted yet	PENDING
	B) Quiescent zone	Filled With Sludge		Cleaning & De-sludging	-	23.01.2021	Not submitted yet	PENDING
40	Aerator no 01	Operated						No any action Required
41	Aerator no 02	Not operated		Repair / Replace		28-04-2021		PENDING
42	Aerator no 03	Operated						No any action Required
43	Aerator no 04	Operated						No any action Required
44	Aerator no 05	Operated						No any action Required
45	Aerator no 06	Operated						No any action Required
46	Aerator no 07	Not operated		Repair / Replace		28-04-2021		PENDING

STC KANPUR



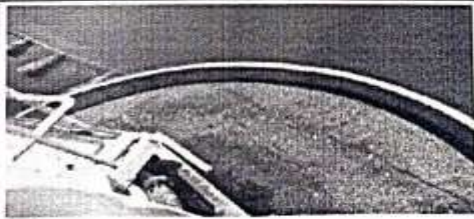
SITE INSPECTION REPORT				BIGHWAN STP - 210 MLD	Date: 28/04/2021	INSPECTED BY: MS, SP		
S. No.	Equipment	Assessment of Current Condition	Assessment of Current Condition photo	Corrective Action Required	Corrective Action Completed by KMAP	Original Date of Issue	Proposed Date to Rectify by KMAP	Current Status of Compliance
67	Gas holders No.02	Not operated				08-07-2019	30.11.2021	PENDING
68	Sludge pump No.01	Operated						No any action Required
69	Sludge pump No.02	Operated						No any action Required
70	Filtrate pump house	Operated		Repair		08-07-2019		No any action Required
71	DFG No. 1	Not Operated						PENDING
71	DFG No. 2	Operated						No any action Required
73	DFG & pump house no.01	Operated						No any action Required
74	Effluent channel	Operated						No any action Required

Remark :

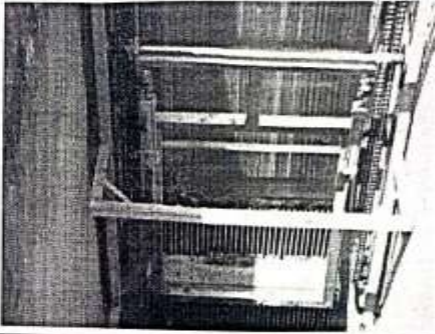
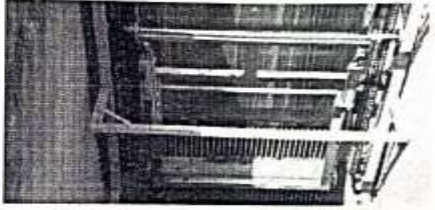
Annexure 5: Monthly Performance Report of Sajari for May. 2021



42 MLD SEWAGE TREATMENT PLANT, SAJARILKANPUR																		
MONTHLY FLOW & LAB REPORT																		
May 2021																		
Date	INLET FLOW In MLD	Plant Run In HRS	RAW SEWAGE					FINAL EFFLUENT					pH	DO	POWER IN/OUTDOWN	REMARKS		
			Temp	TSS	PH	COD	BOD	TSS	Temp	TSS	PH	COD					BOD	TSS
			(°C)	(mg/l)	(7-9)	(450)	(250)	(668)	(°C)	(mg/l)	(7-9)	(+100)	(+10)	(+50)	(mg/l)	(ppm)	(kW)	
01 May 2021	15.39	2400	27	1260	7.6	440	158	285	27	990	7.8	96	22	19		1.2	0.00	2 STREAM IS UNDER OPERATION
02 May 2021	20.05	2400	27	1255	7.5	420	152	273	27	990	7.8	92	21	11.0	240	1.4	0.00	2 STREAM IS UNDER OPERATION
03 May 2021	20.38	2400	27	1376	7.5	552	205	320	27	1010	7.9	104	23	16		1.8	1.82	2 STREAM IS UNDER OPERATION Found Dis color in Raw Sewage
04 May 2021	20.63	2400	27	1345	7.6	432	166	297	27	1012	7.9	96	22	14.0	220	1.6	0.00	2 STREAM IS UNDER OPERATION
05 May 2021	20.86	2400	27	1266	7.5	388	155	276	27	1055	7.9	88	22	16		1.7	0.17	2 STREAM IS UNDER OPERATION
06 May 2021	20.54	2400	27	1290	7.5	416	162	293	27	1086	7.9	92	24	14	210	1.3	0.00	2 STREAM IS UNDER OPERATION
07 May 2021	20.05	2400	27	1315	7.5	528	185	320	27	1042	7.9	104	25	16	210	1.2	0.25	2 STREAM IS UNDER OPERATION Found Dis color in Raw Sewage
08 May 2021	20.63	2400	27	1290	7.5	440	165	311	27	1290	7.9	95	23	14	270	1.5	0.00	2 STREAM IS UNDER OPERATION
09 May 2021	21.12	2400	27	1250	7.5	396	152	283	27	1260	7.9	92	22	11	140	1.8	0.00	2 STREAM IS UNDER OPERATION
10 May 2021	20.71	2400	27	1282	7.6	416	160	302	27	1342	7.9	86	22	29	210	1.6	0.00	2 STREAM IS UNDER OPERATION
11 May 2021	21.38	2400	27	1295	7.5	440	154	312	27	1360	7.9	96	24	13	230	1.7	0.07	2 STREAM IS UNDER OPERATION
12 May 2021	20.38	2400	27	1260	7.6	380	166	287	27	1028	7.9	90	21	11	250	1.8	1.50	2 STREAM IS UNDER OPERATION
13 May 2021	21.20	2400	27	1366	7.5	512	160	321	27	1056	7.9	100	23	14	210	1.3	0.00	2 STREAM IS UNDER OPERATION Found Dis color in Raw Sewage
14 May 2021	21.37	2400	28	1340	7.5	540	182	328	28	1087	7.9	112	25	16	270	1.5	0.80	2 STREAM IS UNDER OPERATION Found Dis color in Raw Sewage
15 May 2021	20.96	2400	28	1320	7.5	384	156	297	28	1221	7.9	96	22	10	340	1.6	0.00	2 STREAM IS UNDER OPERATION
16 May 2021	21.12	2400	28	1335	7.5	416	166	302	28	1342	7.9	92	21	10	320	1.7	0.00	2 STREAM IS UNDER OPERATION
17 May 2021	20.46	2400	28	1390	7.5	630	180	322	28	1031	7.9	104	23	16	210	1.4	0.81	2 STREAM IS UNDER OPERATION Found Dis color in Raw Sewage
18 May 2021	20.55	2400	28	1304	7.5	500	178	305	28	1037	7.9	102	22	14	240	1.2	15.25	2 STREAM IS UNDER OPERATION Found Dis color in Raw Sewage
19 May 2021	21.37	2400	29	1310	7.5	396	152	290	29	1015	7.9	96	24	12	210	1.5	14.00	2 STREAM IS UNDER OPERATION
20 May 2021	20.96	2400	29	1360	7.5	416	165	289	29	1010	7.9	90	22	15	210	1.4	24.00	2 STREAM IS UNDER OPERATION
21 May 2021	21.85	2400	29	1290	7.5	384	168	318	29	1040	7.9	104	24	13	270	1.3	10.47	2 STREAM IS UNDER OPERATION Found Dis color in Raw Sewage
22 May 2021	21.70	2400	29	1350	7.6	512	180	305	29	1021	7.9	100	23	16	250	1.6	0.00	2 STREAM IS UNDER OPERATION Found Dis color in Raw Sewage
23 May 2021	21.62	2400	29	1310	7.5	432	165	291	29	1210	7.9	96	21	14	230	1.6	0.00	2 STREAM IS UNDER OPERATION
24 May 2021	21.29	2400	29	1200	7.5	388	162	273	29	990	7.9	88	22	11	210	1.8	0.00	2 STREAM IS UNDER OPERATION
25 May 2021	21.20	2400	29	1310	7.5	448	155	296	29	1013	7.9	90	24	13	240	1.7	0.00	2 STREAM IS UNDER OPERATION
26 May 2021	21.51	2400	29	1320	7.5	416	152	287	29	1028	7.9	96	23	15	280	1.4	0.00	2 STREAM IS UNDER OPERATION
27 May 2021	22.81	2400	29	1295	7.5	630	180	332	29	1092	7.9	104	25	17	220	1.3	0.00	2 STREAM IS UNDER OPERATION Found Dis color in Raw Sewage
28 May 2021	21.60	2400	29	1270	7.5	512	172	330	29	1230	7.9	104	23	16	240	1.5	0.00	2 STREAM IS UNDER OPERATION Found Dis color in Raw Sewage
29 May 2021	22.14	2400	29	1330	7.5	440	165	297	29	1212	7.9	96	21	12	230	1.7	0.00	2 STREAM IS UNDER OPERATION
30 May 2021	21.52	2400	29	1290	7.5	380	152	273	29	995	7.9	80	22	29	210	1.9	0.00	2 STREAM IS UNDER OPERATION
31 May 2021	22.02	2400	29	1325	7.5	408	155	302	29	1012	7.9	92	24	12	270	1.5	0.00	2 STREAM IS UNDER OPERATION
TOTAL	651.29														240	1.5	92.75 Hrs	
AVG	21.01	24.00	28.00	1321.40	7.52	458.19	162.97	300.77	28.00	1025.10	7.90	96.29	22.77	13.45				


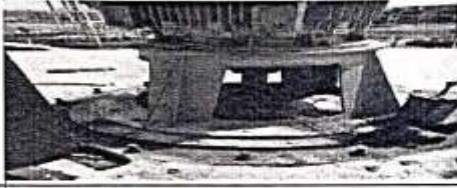
Note: There is ingress of Industrial Waste water (coloured) at STP from Sanigawan area, which was experienced on dates of 3,7,13,14,17,18,21,22,27,28 May 2021.

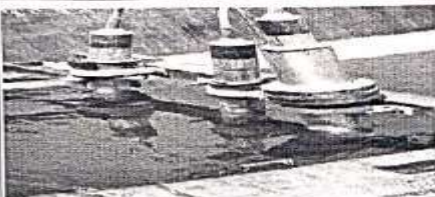
STC SITE INSPECTION REPORT				SHARADY-42 M.D	Date: 22/04/2021	INSPECTED BY: PE		
S. No.	Equipment	Assessment of Current Condition	Assessment of Current Condition Photo	Corrective Action Suggested by STC	Corrective Action Completed by KRMPL	Original Date of Issue	Proposed Date to Resolve by KRMPL	Current Status of Compliance
3	Inlet Chamber							
1	Free screen (Mesh no 02)	Not Operated		Hydraulic oil & pressure gauge need to be replace	-	30.03.2021	-	PENDING
2	Free screen (Mesh no 02)	Operated		Pressure gauge need to be replace.	-	30.03.2021	-	PENDING
3	Manual screen 2 nos	Operated		Cleaning of the Manual screen required	-	01.01.2021	-	PENDING
4	Grit chamber 1 1) Digonic pump with Motor 2) Scraper 3) Classifier Mechanism	Operated						
5	Grit chamber 2 1) Motor 2) Scraper/Scum 3) Radial Classifier Mechanism	Operated						
0	Primary Clarifier							
4	Primary Sedimentation tank no 02	Operated but filled with sludge		Maintenance needs to be engaged by KRMPL for routine sludge removing from both primary clarifiers	-	17/04/2021	-	PENDING

Annexure 6: Site Inspection Report for the Month of May. 2021 (Sajari)

STC		SITE INSPECTION REPORT			SAHAJIP - 42 MLD	Date: 27/04/2021	INSPECTED BY: JF	
S. No.	Equipment	Assessment of Current Condition	Assessment of Current Condition Photo	Corrective Action Suggested by STC	Corrective Action Completed by ESMPL	Original Date of Issue	Proposed Date to Resolve by ESMPL	Current Status of Compliance
A. Collection Chamber								
1.	Mech. Coarse screen no.1	Corrupted		Automation system of Mech. screen is not in working condition, Mechanical coarse screen's bucket teeth are damaged. Needs rectification immediately	-	Since Handover date / 27.04.2021	25.07.2021	PENDING
2.	Mech. Coarse screen no.2	Corrupted		Automation system of Mech. screen is not in working condition	-	Since Handover date	25.07.2021	PENDING
3.	Main Pumping Station							
3	Raw Sewage Pump no. 01	Operated						
4	Raw Sewage Pump no. 02	Operated						
5	Raw Sewage Pump no. 03	Operated						
6	Raw Sewage Pump no. 04	Operated						
7	Raw Sewage Pump no. 05	Not Operated		Rectification required immediately			21.04.2021	PENDING

SITE INSPECTION REPORT				SHAB 07-42 MLD	Date: 22/04/2021	INSPECTED BY: PE		
S. No.	Equipment	Assessment of Current Condition	Assessment of Current Condition Photo	Corrective Action Suggested by STC	Corrective Action Completed by O&MPL	Original Date of Issue	Proposed Date to Resolve by O&MPL	Current Status of Compliance
7	Primary Sedimentation tank no 02	Operated		No any manpower engaged by O&MPL for routine sludge scraping from both primary clarifiers.		27.04.2021		PENDING
F Aeration system								
8	Aerator no.1	Operated At present all the aerators are running on 76.77 Amp only.		Vibration check on regular basis and lubrication required for each aerator. It is suggested to increase the submergence of the aerators to run on full design capacity.				
9	Aerator no.2							
10	Aerator no.3							
11	Aerator no.4							
12	Aerator no.5							
13	Aerator no.6							
14	Aerator no.7							
15	Aerator no.8							
16	Aerator no.9							
17	Aerator no.10							
18	Aerator no.11							
19	Aerator no.12							
F Secondary clarifier								
20	Secondary Sedimentation tank no 01	Not Operated		Rectification required immediately		22.04.2021		PENDING
21	Secondary Sedimentation tank no 02	Operated						
G Primary sludge pump								
22	Primary sludge pump no. 01	Operated		Vibration check on regular basis and lubrication required for each pump.				
23	Primary sludge pump no.02	Operated		Vibration check on regular basis and lubrication required for each pump.				
H Return sludge pump								
24	Return sludge pump no.01	Not Operated		Rectification required immediately	RSP no. 01 has been put in operation	04.05.2020		
25	Return sludge pump no.02	Not Operated		Rectification required immediately		09.04.2021	23.06.2021	PENDING
26	Return sludge pump no.03	Operated						
I Sludge Thickener & Mechanism								
27	Sludge thickener no. 01	Not Operated		Sludge Thickener is fully filled with sludge and effluent is not properly treated. Sludge withdrawal has not been done properly.		08.05.2021		PENDING

STC		SITE INSPECTION REPORT			SAHJITP - CI WLD	Date: 27/04/2021	INSPECTED BY: ME	
S. No.	Equipment	Assessment of Current Condition	Assessment of Current Condition Photo	Corrective Action Suggested by STC	Corrective Action Completed by KEMPL	Original Date of Issue	Proposed Date to Resolve by KEMPL	Current Status of Compliance
28	Sludge thickener no. 02	Not Operated		Sludge Thickener is fully filled with sludge and influent is not properly treated. Sludge withdrawal has not been done properly.		03/03/2021		PENDING
29	Thickened sludge pump no.02	Not Operated		Recalculation required immediately		01/05/2021		PENDING
30	Thickened sludge pump no.02	Not Operated		Recalculation required immediately		03/03/2021		PENDING
Sludge digester								
31	Sludge digester no.01	Not Operated		Rectification required immediately		01/06/2020	01/06/2021	PENDING
32	Sludge digester no.02	Operated						
Power Generation system using Gas produced								
33	Gas Holder no.01	Operated						
34	Gas Holder no.02	Operated						
35	Gas engine no. 1	Operated and Gas is available for 1 generator only. for 2 hours per week						
36	Gas engine no.2							
37	Gas engine no.3	Not Operated		Rectification required immediately		20/06/2020		PENDING
38	Gas filter/burner	Operated		Pipe maintenance required				
39	Boiler compressor - 1	Operated		Flame maintenance required				
Sludge Drying Bed								
40	Sludge drying bed 1	Filled with sludge		Disposal of the sludge required on regular basis				
41	Sludge drying bed 2	Filled with sludge		Disposal of the sludge required on regular basis				
42	Sludge drying bed 3	Filled with sludge		Disposal of the sludge required on regular basis				
43	Sludge drying bed 4	Filled with sludge		Disposal of the sludge required on regular basis				
44	Sludge drying bed 5	Filled with sludge		Disposal of the sludge required on regular basis				
45	Sludge drying bed 6	Filled with sludge		Disposal of the sludge required on regular basis				
46	Sludge drying bed 7	Filled with sludge		Disposal of the sludge required on regular basis				
47	Sludge drying bed 8	Filled with sludge		Disposal of the sludge required on regular basis				
48	Sludge drying bed 9	Filled with sludge		Disposal of the sludge required on regular basis				
49	Sludge drying bed 10	Filled with sludge		Disposal of the sludge required on regular basis				
50	Sludge drying bed 11	Filled with sludge		Disposal of the sludge required on regular basis				
51	Sludge drying bed 12	Filled with sludge		Disposal of the sludge required on regular basis				
52	Sludge drying bed 13	Filled with sludge		Disposal of the sludge required on regular basis				
53	Sludge drying bed 14	Filled with sludge		Disposal of the sludge required on regular basis				
54	Sludge drying bed 15	Filled with sludge		Disposal of the sludge required on regular basis				
55	Sludge drying bed 16	Filled with sludge		Disposal of the sludge required on regular basis				
56	Sludge drying bed 17	Filled with sludge		Disposal of the sludge required on regular basis				
57	Sludge drying bed 18	Filled with sludge		Disposal of the sludge required on regular basis				
58	Subwell pump-1	Operated						
59	Station water submersible pump	Operated						
60	Station water submersible pump-2	Operated						
64	WTOLMS	Calibration has been done by LFM and handover of the same to KEMPL is pending		Electromagnetic flow meter needs to be calibrated		27/04/2021		Pending
Online Monitoring System								
65	Water (pH) (in mg/l)	500- 500 CO ₂ - 500 TSS - 250						
66	Outlet (pH) (in mg/l)	400- 100 CO ₂ - 100 TSS - 100						

STC SITE INSPECTION REPORT				SAAR:SP - 42-MSD	Date: 22/04/2021	INSPECTED BY: []		
S. No.	Equipment	Assessment of Current Condition	Assessment of Current Condition Photo	Corrective Action Suggested by STC	Corrective Action Completed by O&M/	Original Date of Issue	Proposed Date to Resolve by O&M/	Current Status of Compliance
57	Dialer Analyser sensor	Operated but needs periodic cleaning		Exceeded sulphur content at the outlet of CCT. It is visible high but TSS values are reported are under standard parameters.		27/04/2021		Pending

Remarks: