

**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**

**JUNE - 2021**



**Executing Agency**  
Uttar Pradesh Jal  
Nigam  
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Kanpur  
Uttar Pradesh -  
208002



**Funding Agency**  
National Mission for  
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**ABBREVIATIONS**

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

# MONTHLY PROGRESS REPORT – HAM KANPUR

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## 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)

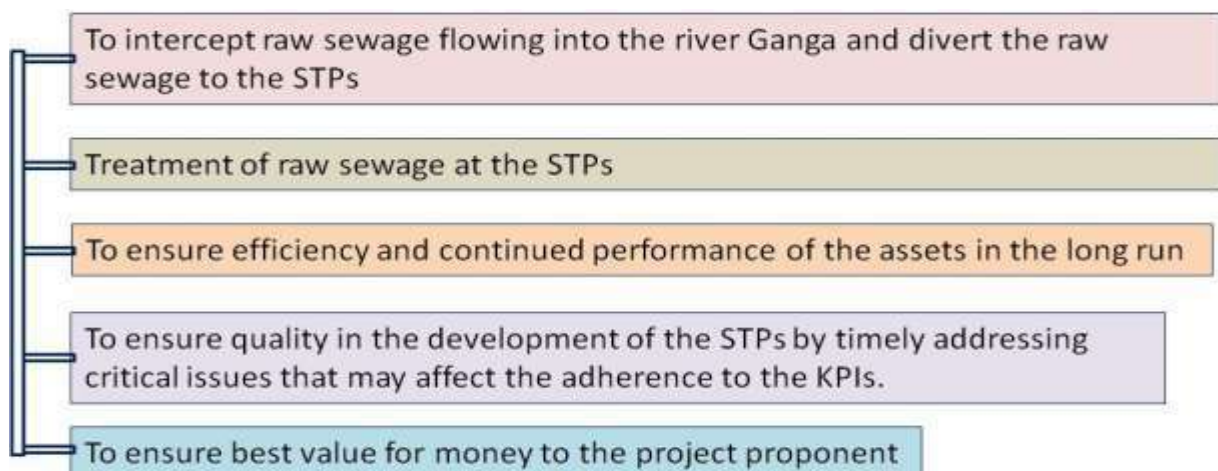
Government of India has approved the Namami Gange program as an integrated approach for effective abatement of pollution in river Ganga and Yamuna. As part of this and to ensure that no untreated domestic sewage flow into the river Ganga and Yamuna, various interventions are planned such as Interception & 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 4<sup>th</sup> February 2019 and agreement signed between the parties on 12<sup>th</sup> 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"> <li>➤ 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&amp;M;</li> <li>➤ Rehabilitation of 130 MLD (Phase-I) STP at Jajmau with construction of 200 MLD TEPS and 173 MLD CCT at Jajmau with O&amp;M for 15 years;</li> <li>➤ O&amp;M of 43 MLD (Phase-II) Jajmau facilities, O&amp;M of 210 MLD Bingawan facilities and O&amp;M of 42 MLD Sajari facilities for 15 years;</li> </ul>

## 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 $\phi$	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 $\phi$	100m
1.9	Rising main (bypass)	750mm $\phi$	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 $\phi$	200m
	Effluent Disposal line (I&D to STP)	400mm $\phi$	310m
		600mm $\phi$	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 $\phi$	50m
1.7	Rising main (bypass)	500mm $\phi$	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 19<sup>th</sup> April 2019. Effective date for work execution under HAM Kanpur project was declared on 11<sup>th</sup> 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 10<sup>th</sup> 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 30.06.2021		Milestone-5 (From 2nd July'21 to 1st August'21)	Achieved against 5th Milestone till 30.06.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)	Achieved against 6th Milestone till 30.06.2021		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)	Achieved against 7th Milestone till 30.06.2021	
			%	Amount		%	Amount		%	Amount		%	Amount
1	<b>SBR Basin Area</b>												
	<b>CIVIL WORK</b>						-			-			-
	Site Clearance			-			-			-			-
	Excavation			-			-			-			-
	PCC			-			-			-			-
	RCC Foundation/Raft			-			-			-			-
	Wall 50% of total lift work			-			-			-			-
	Walls (balance 50% of Total Lift work)	40%	38%	93,46,480			-			-			-
	Baffle Walls work	40%	38%	46,73,240	5%		-			-			-
	Walkway/Platform	28%	25%	30,74,500	42%		-	30%		-			-
	Finishing Work			-			-			-	30%		-
	<b>MECHANICAL WORK</b>			-			-			-			-
	<b>A. DECANTERS</b>			-			-			-			-
	(i) On supply of machinery/equipment at site			-	100%					-			-
	(ii) On completion of erection works			-			-			-			-
	(iii) On completion of Testing of equipment			-			-			-			-
				-			-			-			-
	<b>B. DIFFUSERS</b>			-			-			-			-
	(i) On supply of machinery/equipment at site			-			-	50%		-	50%		-
	(ii) On completion of erection works			-			-			-			-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)	Achieved against 4th Milestone till 30.06.2021		Milestone-5 (From 2nd July'21 to 1st August'21)	Achieved against 5th Milestone till 30.06.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)	Achieved against 6th Milestone till 30.06.2021		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)	Achieved against 7th Milestone till 30.06.2021	
			%	Amount		%	Amount		%	Amount		%	Amount
	(iii) On completion of Testing of equipment			-			-			-			-
				-			-			-			-
	<b>C. RAS &amp; SAS PUMPS</b>			-			-			-			-
	(i) On supply of machinery/equipment at site			-			-	50%	50%	104,53,300	50%		-
	(ii) On completion of erection works			-			-			-			-
	(iii) On completion of Testing of equipment			-			-			-			-
				-			-			-			-
	<b>D. PIPES &amp; FITTINGS</b>			-			-			-			-
	(i) On supply of machinery/equipment at site			-	100%		-			-			-
	(ii) On completion of erection works			-			-			-	100%		-
	(iii) On completion of Testing of equipment			-			-			-			-
<b>2</b>	<b>Chlorine Contact Tank Area</b>			-			-			-			-
	Site Clearance			-			-			-			-
	Excavation			-			-			-			-
	PCC			-			-			-			-
	RCC Foundation/Raft			-			-			-			-
	Wall 50% of total lift work			-			-			-			-
	Walls (balance 50% of Total Lift work)			-			-			-			-
	Baffle Walls work	30%	25%	9,22,350			-			-			-
	Finishing Work			-			-	100%		-			-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)	Achieved against 4th Milestone till 30.06.2021		Milestone-5 (From 2nd July'21 to 1st August'21)	Achieved against 5th Milestone till 30.06.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)	Achieved against 6th Milestone till 30.06.2021		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)	Achieved against 7th Milestone till 30.06.2021	
		%	%	Amount	%	%	Amount	%	%	Amount	%	%	Amount
3	<b>Chlorination House Area</b>			-			-			-			-
	<b>CIVIL WORK</b>			-			-			-			-
	Site Clearance			-			-			-			-
	Excavation			-			-			-			-
	PCC			-			-			-			-
	RCC Foundation/Column footing			-			-			-			-
	Column & Beam			-			-			-			-
	Ground floor Slab	100%	50%	4,61,175			-			-			-
	Column & Beam			-			-			-			-
	Roof Slab			-	100%	100%	18,44,700			-			-
	Brickwork & Plaster	25%	10%	1,84,470	75%		-			-			-
	Finishing Work			-			-	100%		-			-
	<b>MECHANICAL WORK</b>			-			-			-			-
	<b>A. CHLORINATION SYSTEM</b>			-			-			-			-
	(i) On supply of machinery/equipment at site			-			-	100%		-			-
	(ii) On completion of erection works			-			-			-	100%		-
	(iii) On completion of Testing of equipment			-			-			-			-
				-			-			-			-
	<b>B. HOIST WORKS</b>			-			-			-			-
	(i) On supply of machinery/equipment at site			-			-	100%	100%	7,83,998		100%	-
	(ii) On completion of erection works			-			-			-	100%		-
	(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 30.06.2021		Milestone-5 (From 2nd July'21 to 1st August'21)	Achieved against 5th Milestone till 30.06.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)	Achieved against 6th Milestone till 30.06.2021		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)	Achieved against 7th Milestone till 30.06.2021	
			%	Amount		%	Amount		%	Amount		%	Amount
				-			-			-			-
	<b>ELECTRICAL &amp; INSTRUMENTATION WORK</b>			-			-			-			-
	(i) On supply of machinery/equipment at site			-			-	100%		-			-
	(ii) On completion of erection works			-			-			-	100%		-
	(iii) On completion of Testing of equipment			-			-			-			-
4	<b>Sludge Thickener Area</b>			-			-			-			-
	<b>CIVIL WORK</b>			-			-			-			-
	Site Clearance			-			-			-			-
	Excavation			-			-			-			-
	PCC			-			-			-			-
	RCC Foundation wall/base slab			-			-			-			-
	Wall 50% of total lift work			-			-			-			-
	Walls (balance 50% of Total Lift work)	40%	40%	11,06,820			-			-			-
	Finishing Work			-			-	100%		-			-
	<b>MECHANICAL WORK</b>			-			-			-			-
	<b>SLUDGE THICKENER MECHANISM</b>			-			-			-			-
	(i) On supply of machinery/equipment at site	100%		-			-			-			-
	(ii) On completion of erection works			-	100%		-			-			-
	(iii) On completion of Testing of equipment			-			-	100%		-			-
5	<b>Inlet / Stilling Chamber Area</b>			-			-			-			-



SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)	Achieved against 4th Milestone till 30.06.2021		Milestone-5 (From 2nd July'21 to 1st August'21)	Achieved against 5th Milestone till 30.06.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)	Achieved against 6th Milestone till 30.06.2021		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)	Achieved against 7th Milestone till 30.06.2021	
		%	%	Amount	%	%	Amount	%	%	Amount	%	%	Amount
	Site Clearance			-			-			-			-
	Excavation			-			-			-			-
	PCC			-			-			-			-
	RCC Foundation/Column footing			-			-			-			-
	Column & Beam			-			-			-			-
	RCC Slab	100%	100%	9,22,350			-			-			-
	RCC Wall	100%		-			-			-			-
	Final finishing including Staircases,Railing,Shade,Painting, etc.			-			-	100%		-			-
6	<b>Manual &amp; Mechanical Fine Bar Screen Chamber Area</b>			-			-			-			-
	Site Clearance			-			-			-			-
	Excavation			-			-			-			-
	PCC			-			-			-			-
	RCC Foundation			-			-			-			-
	Column & Beam			-			-			-			-
	RCC Slab			-	100%		-			-			-
	RCC Wall			-			-	100%		-			-
	Walkway/Platform			-			-			-	100%		-
	Finishing Work			-			-			-	20%		-
7	<b>Grit Chamber (Mechanical Cleaned) &amp; (Manually Cleaned)</b>			-			-			-			-
	Site Clearance			-			-			-			-
	Excavation			-			-			-			-
	PCC			-			-			-			-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)	Achieved against 4th Milestone till 30.06.2021		Milestone-5 (From 2nd July'21 to 1st August'21)	Achieved against 5th Milestone till 30.06.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)	Achieved against 6th Milestone till 30.06.2021		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)	Achieved against 7th Milestone till 30.06.2021	
			%	Amount		%	Amount		%	Amount		%	Amount
	RCC Foundation			-			-			-			-
	Column & Beam			-			-			-			-
	RCC Slab			-	100%	50%	6,14,900			-			-
	RCC Wall			-			-	100%		-			-
	Walkway/Platform			-			-			-	100%		-
	Finishing Work			-			-			-			-
	<b>MECHANICAL WORK</b>			-			-			-			-
	<b>A.MECHANICAL FINE SCREEN</b>			-			-			-			-
	(i) On supply of machinery/equipment at site	100%		-			-			-			-
	(ii) On completion of erection works			-			-			-	100%		-
	(iii) On completion of Testing of equipment			-			-			-			-
	<b>B.MANUAL FINE SCREEN</b>			-			-			-			-
	(i) On supply of machinery/equipment at site	100%		-			-			-			-
	(ii) On completion of erection works			-			-			-	100%		-
	(iii) On completion of Testing of equipment			-			-			-			-
	<b>C.GATES</b>			-			-			-			-
	(i) On supply of machinery/equipment at site			-			-	100%		-			-
	(ii) On completion of erection works			-			-			-	100%		-
	(iii) On completion of Testing of equipment			-			-			-			-
	<b>D.CONVEYOR BELTS</b>			-			-			-			-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)	Achieved against 4th Milestone till 30.06.2021		Milestone-5 (From 2nd July'21 to 1st August'21)	Achieved against 5th Milestone till 30.06.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)	Achieved against 6th Milestone till 30.06.2021		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)	Achieved against 7th Milestone till 30.06.2021	
		%	%	Amount	%	%	Amount	%	%	Amount	%	%	Amount
	(i) On supply of machinery/equipment at site			-			-	100%		-			-
	(ii) On completion of erection works			-			-			-	100%		-
	(iii) On completion of Testing of equipment			-			-			-			-
	<b>E. GRIT MECHANISM</b>			-			-			-			-
	(i) On supply of machinery/equipment at site	100%	100%	52,26,650			-			-			-
	(ii) On completion of erection works			-			-			-	100%		-
	(iii) On completion of Testing of equipment			-			-			-			-
				-			-			-			-
8	<b>Flow Measurement Channel Area</b>			-			-			-			-
	Site Clearance			-			-			-			-
	Excavation			-			-			-			-
	PCC			-			-			-			-
	RCC Foundation			-			-			-			-
	Column & Beam	40%	40%	7,37,880	10%		-			-			-
	RCC Slab			-	100%		-			-			-
	RCC Wall			-			-	100%		-			-
	Walkway/Platform			-			-			-	100%		-
	Finishing Work			-			-			-	20%		-
9	<b>Admin Bldg Area</b>			-			-			-			-
	Site Clearance			-			-			-			-
	Excavation			-			-			-			-
	PCC			-			-			-			-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)	Achieved against 4th Milestone till 30.06.2021		Milestone-5 (From 2nd July'21 to 1st August'21)	Achieved against 5th Milestone till 30.06.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)	Achieved against 6th Milestone till 30.06.2021		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)	Achieved against 7th Milestone till 30.06.2021	
			%	Amount		%	Amount		%	Amount		%	Amount
	Column footings/Foundation			-			-			-			-
	Column & Beam	20%	20%	3,68,940			-			-			-
	Ground Floor Slab			-	100%		-			-			-
	1st Floor Slab			-			-	100%		-			-
	Roof Slab			-			-			-	100%		-
	Brickwork & Plaster			-			-	50%		-	50%		-
	Finishing Work			-			-			-			-
	<b>ELECTRICAL WORK</b>			-			-			-			-
	<b>LT/HT PANEL</b>			-			-			-			-
	(i) On supply of machinery/equipment at site			-			-			-	100%	50%	36,92,995
	(ii) On completion of erection works			-			-			-			-
	(iii) On completion of Testing of equipment			-			-			-			-
	<b>PLC/SCADA SYSTEM</b>			-			-			-			-
	(i) On supply of machinery/equipment at site			-			-			-			-
	(ii) On completion of erection works			-			-			-			-
	(iii) On completion of Testing of equipment			-			-			-			-
				-			-			-			-
10	<b>Air Blower Room Area</b>			-			-			-			-
	Site Clearance			-			-			-			-
	Excavation	50%	50%	1,53,725			-			-			-
	PCC	50%	50%	2,30,588			-			-			-
	Column footings/Foundation	100%	100%	15,37,250			-			-			-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)	Achieved against 4th Milestone till 30.06.2021		Milestone-5 (From 2nd July'21 to 1st August'21)	Achieved against 5th Milestone till 30.06.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)	Achieved against 6th Milestone till 30.06.2021		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)	Achieved against 7th Milestone till 30.06.2021	
		%	%	Amount	%	%	Amount	%	%	Amount	%	%	Amount
	Column & Beam	100%	100%	15,37,250			-			-			-
	RCC Ground Floor Slab			-	100%		-			-			-
	RCC Roof Slab			-			-	100%		-			-
	Brickwork & Plaster			-			-	25%		-	25%		-
	Finishing Work			-			-			-			-
	<b>MECHANICAL WORK</b>			-			-			-			-
	<b>AIR BLOWER(PUMP)</b>			-			-			-			-
	(i) On supply of machinery/equipment at site			-			-			-	100%		-
	(ii) On completion of erection works			-			-			-			-
	(iii) On completion of Testing of equipment			-			-			-			-
	<b>ELECTRICAL WORK</b>			-			-			-			-
	<b>AIR BLOWER(MOTOR)</b>			-			-			-			-
	(i) On supply of machinery/equipment at site			-			-			-			-
	(ii) On completion of erection works			-			-			-			-
	(iii) On completion of Testing of equipment			-			-			-			-
11	<b>Staff Quarter Area</b>			-			-			-			-
	Site Clearance			-			-			-			-
	Excavation			-			-			-			-
	PCC			-			-			-			-
	RCC Foundation/column footing			-	100%		-			-			-
	Column & Beam			-	100%		-			-			-
	RCC Ground Floor Slab			-			-	100%		-			-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)	Achieved against 4th Milestone till 30.06.2021		Milestone-5 (From 2nd July'21 to 1st August'21)	Achieved against 5th Milestone till 30.06.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)	Achieved against 6th Milestone till 30.06.2021		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)	Achieved against 7th Milestone till 30.06.2021	
			%	Amount		%	Amount		%	Amount		%	Amount
	RCC Roof Slab			-			-			-	100%		-
	Brickwork & Plaster			-			-			-	40%		-
	Electrical work			-			-			-	25%		-
	Finishing Work			-			-			-			-
12	<b>Guard Room Area</b>			-			-			-			-
	Site Clearance			-			-			-			-
	Excavation			-	100%		-			-			-
	PCC			-	100%		-			-			-
	RCC Foundation/column footing			-	100%		-			-			-
	Column & Beam			-	100%		-			-			-
	RCC Ground Floor Slab			-			-	100%		-			-
	RCC Roof Slab			-			-	100%		-			-
	Brickwork & Plaster			-			-	100%		-			-
	Electrical work			-			-			-	100%		-
	Finishing Work			-			-			-	40%		-
13	<b>Sludge Dewatering System Area (Centrifuge Pump House, Sludge sump &amp; Poly dosing tank)</b>			-			-			-			-
	Site Clearance			-			-			-			-
	Excavation			-			-			-			-
	PCC			-			-			-			-
	RCC Foundation	100%	100%	15,37,250			-			-			-
	1st Column & Beam	100%	50%	15,37,250			-			-			-
	Ground Floor Slab			-	100%		-			-			-
	2nd Column & Beam			-	50%		-	50%		-			-
	RCC Roof Slab			-			-	100%		-			-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)	Achieved against 4th Milestone till 30.06.2021		Milestone-5 (From 2nd July'21 to 1st August'21)	Achieved against 5th Milestone till 30.06.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)	Achieved against 6th Milestone till 30.06.2021		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)	Achieved against 7th Milestone till 30.06.2021	
		%	%	Amount	%	%	Amount	%	%	Amount	%	%	Amount
	Brickwork & Plaster			-			-			-	100%		-
	Finishing Work			-			-			-			-
	<b>MECHANICAL WORK</b>			-			-			-			-
	<b>CENTRIFUGE UNIT</b>			-			-			-			-
	(i) On supply of machinery/equipment at site			-			-			-	100%	100%	39,19,988
	(ii) On completion of erection works			-			-			-			-
	(iii) On completion of Testing of equipment			-			-			-			-
	<b>CENTRIFUGE FEED PUMP</b>			-			-			-			-
	(i) On supply of machinery/equipment at site	100%	100%	26,13,325			-			-			-
	(ii) On completion of erection works			-			-			-	100%		-
	(iii) On completion of Testing of equipment			-			-			-			-
	<b>POLY DOSING PUMPS</b>			-			-			-			-
	(i) On supply of machinery/equipment at site			-	100%		-			-			-
	(ii) On completion of erection works			-			-			-			-
	(iii) On completion of Testing of equipment			-			-			-			-
14	<b>Supernatant Recirculation Sump Area</b>			-			-			-			-
	Site Clearance			-			-			-			-
	Excavation			-			-			-			-
	PCC			-			-			-			-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)	Achieved against 4th Milestone till 30.06.2021		Milestone-5 (From 2nd July'21 to 1st August'21)	Achieved against 5th Milestone till 30.06.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)	Achieved against 6th Milestone till 30.06.2021		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)	Achieved against 7th Milestone till 30.06.2021	
		%	%	Amount	%	%	Amount	%	%	Amount	%	%	Amount
	RCC Foundation wall/base slab			-			-			-			-
	Wall 50% of total lift work	60%	60%	16,60,230			-			-			-
	Walls (balance 50% of Total Lift work)	90%	90%	24,90,345	10%		-			-			-
	Final finishing including Staircases,Railing,Shade,Painting etc.			-			-	100%		-			-
	<b>MECHANICAL WORK</b>			-			-			-			-
	<b>PUMPING SYSTEM</b>			-			-			-			-
	(i) On supply of machinery/equipment at site	100%		-			-			-			-
	(ii) On completion of erection works			-			-			-	100%		-
	(iii) On completion of Testing of equipment			-			-			-			-
				-			-			-			-
15	<b>Transformer Yard Area</b>			-			-			-			-
	Site Clearance			-			-			-			-
	Excavation & PCC			-	100%		-			-			-
	Foundation Work			-	100%		-			-			-
	Finishing Work			-			-	100%		-			-
	<b>ELECTRICAL WORK</b>			-			-			-			-
	<b>TRANSFORMER</b>			-			-			-			-
	(i) On supply of machinery/equipment at site			-			-	100%	100%	31,35,990		100%	-
	(ii) On completion of erection works			-			-			-	100%		-
	(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 30.06.2021		Milestone-5 (From 2nd July'21 to 1st August'21)	Achieved against 5th Milestone till 30.06.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)	Achieved against 6th Milestone till 30.06.2021		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)	Achieved against 7th Milestone till 30.06.2021	
			%	Amount		%	Amount		%	Amount		%	Amount
	<b>CABLE &amp; CABLE TRAY</b>			-			-			-			-
	(i) On supply of machinery/equipment at site			-			-	100%		-			-
	(ii) On completion of erection works			-			-			-	100%		-
	(iii) On completion of Testing of equipment			-			-			-			-
16	<b>DG Area</b>			-			-			-			-
	Site Clearance			-	100%		-			-			-
	Excavation & PCC			-	100%		-			-			-
	Foundation Work			-	100%		-			-			-
	Finishing Work			-			-			-	100%		-
	<b>ELECTRICAL WORK</b>			-			-			-			-
	<b>DG SET</b>			-			-			-			-
	(i) On supply of machinery/equipment at site			-			-			-	100%		-
	(ii) On completion of erection works			-			-			-	100%		-
	(iii) On completion of Testing of equipment			-			-			-	100%		-
	<b>CABLE &amp; CABLE TRAY</b>			-			-			-			-
	(i) On supply of machinery/equipment at site			-			-	100%		-			-
	(ii) On completion of erection works			-			-			-	100%		-
	(iii) On completion of Testing of equipment			-			-			-			-
17	<b>Sludge Storage Platform</b>			-			-			-			-
	Site Clearance			-	100%		-			-			-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)	Achieved against 4th Milestone till 30.06.2021		Milestone-5 (From 2nd July'21 to 1st August'21)	Achieved against 5th Milestone till 30.06.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)	Achieved against 6th Milestone till 30.06.2021		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)	Achieved against 7th Milestone till 30.06.2021	
			%	Amount		%	Amount		%	Amount		%	Amount
	Excavation & PCC			-	100%		-			-			-
	Foundation Work			-	100%		-			-			-
	Finishing work			-			-	100%		-			-
18	<b>EXTERNAL DEVELOPMENT</b>			-			-			-			-
A.	Roads, Storm Water Drain & Miscellaneous work			-			-			-	40%		-
B.	<b>Compound Wall with Gate</b>			-			-			-			-
	Excavation & PCC			-			-			-			-
	RCC Column footing	5%	5%	3,07,450	5%		-			-			-
	RCC Column & Beam	7%	7%	4,30,430	5%		-			-			-
	Brickwork & Plaster	32%	32%	19,67,680			-	10%		-	10%		-
	Finishing Work			-	20%		-	20%		-	30%		-
19	<b>MPS-2 ( 115MLD)</b>			-			-			-			-
	<b>CIVIL</b>			-			-			-			-
A	<b>Construction of Raw Sewage Sump</b>			-			-			-			-
	Site Clearance			-			-			-			-
	Excavation			-			-			-			-
	PCC			-			-			-			-
	RCC Foundation/Raft			-			-			-			-
	Wall 50% of total lift work			-			-			-			-
	Column & Beam	50%	8%	3,06,821			-	35%		-			-
	Walls (balance 50% of Total Lift work)	40%	40%	15,34,104			-	50%		-			-
	Ground Floor Slab			-			-	100%		-			-
	Finishing Work			-			-			-	50%		-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)	Achieved against 4th Milestone till 30.06.2021		Milestone-5 (From 2nd July'21 to 1st August'21)	Achieved against 5th Milestone till 30.06.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)	Achieved against 6th Milestone till 30.06.2021		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)	Achieved against 7th Milestone till 30.06.2021	
		%	%	Amount	%	%	Amount	%	%	Amount	%	%	Amount
B	<b>Construction of Inlet Chamber &amp; Screen Channel</b>			-			-			-			-
	Site Clearance			-			-			-			-
	Excavation			-			-			-			-
	PCC			-			-			-			-
	RCC Foundation/Raft	100%	100%	17,04,560			-			-			-
	Wall 50% of total lift work	100%	100%	17,04,560			-			-			-
	Walls (balance 50% of Total Lift work)	25%	25%	4,26,140			-	75%		-			-
	Walkway/Platform			-			-	100%		-			-
C	<b>Construction of Raw Sewage Pump House</b>			-			-			-			-
	Column & Beam			-			-	100%		-			-
	Roof Slab			-			-	100%		-			-
	Brickwork & Plaster			-			-			-	100%		-
	Finishing Work			-			-			-			-
D	<b>MECHANICAL WORK</b>			-			-			-			-
	<b>Coarse Screen mechanical &amp; manual</b>			-			-			-			-
	(i) On supply of machinery/equipment at site	100%		-			-			-			-
	(ii) On completion of erection works			-			-			-			-
	(iii) On completion of Testing of equipment			-			-			-			-
	<b>Piping &amp; Support work</b>			-			-			-			-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)	Achieved against 4th Milestone till 30.06.2021		Milestone-5 (From 2nd July'21 to 1st August'21)	Achieved against 5th Milestone till 30.06.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)	Achieved against 6th Milestone till 30.06.2021		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)	Achieved against 7th Milestone till 30.06.2021	
		%	%	Amount	%	%	Amount	%	%	Amount	%	%	Amount
	(i) On supply of machinery/equipment at site			-			-			-	100%		-
	(ii) On completion of erection works			-			-			-			-
	(iii) On completion of Testing of equipment			-			-			-			-
	<b>Gate Work</b>			-			-			-			-
	(i) On supply of machinery/equipment at site			-	100%		-			-			-
	(ii) On completion of erection works			-			-			-			-
	(iii) On completion of Testing of equipment			-			-			-			-
	<b>Pumps</b>			-			-			-			-
	(i) On supply of machinery/equipment at site			-	100%		-			-			-
	(ii) On completion of erection works			-			-			-			-
	(iii) On completion of Testing of equipment			-			-			-			-
20	<b>ICI Nala IPS</b>			-			-			-			-
	<b>CIVIL</b>			-			-			-			-
A	<b>Construction of Raw Sewage Sump</b>			-			-			-			-
	Site Clearance			-			-			-			-
	Excavation			-			-			-			-
	PCC			-			-			-			-
	RCC Foundation/Raft			-			-			-			-
	Wall 50% of total lift work			-			-			-			-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)	Achieved against 4th Milestone till 30.06.2021		Milestone-5 (From 2nd July'21 to 1st August'21)	Achieved against 5th Milestone till 30.06.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)	Achieved against 6th Milestone till 30.06.2021		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)	Achieved against 7th Milestone till 30.06.2021	
			%	Amount		%	Amount		%	Amount		%	Amount
	Column & Beam			-	25%		-	75%		-			-
	Walls (balance 50% of Total Lift work)	60%	60%	15,33,600			-	40%	30%	7,66,800			-
	Ground Floor Slab			-			-	100%		-			-
	Finishing Work			-			-			-	100%		-
B	<b>Construction of Inlet Chamber &amp; Screen Channel</b>			-			-			-			-
	Site Clearance			-			-			-			-
	Excavation	100%	100%	3,40,800			-			-			-
	PCC	100%	100%	5,11,200			-			-			-
	RCC Foundation/Raft	100%	100%	8,52,000			-			-			-
	Wall 50% of total lift work	100%	10%	85,200			-			-			-
	Walls (balance 50% of Total Lift work)			-	100%		-			-			-
	Walkway/Platform			-			-	100%		-			-
	Finishing work			-			-			-	100%		-
C	<b>Construction of Raw Sewage Pump House</b>			-			-			-			-
	Column & Beam			-			-			-	100%		-
	Roof Slab			-			-			-	100%		-
	Brickwork & Plaster			-			-			-			-
	Finishing Work			-			-			-			-
D	<b>Construction of Office Room</b>			-			-			-			-
	Site Clearance			-			-			-			-
	Excavation & PCC			-			-			-			-
	RCC Foundation/column footing			-			-	100%		-			-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)	Achieved against 4th Milestone till 30.06.2021		Milestone-5 (From 2nd July'21 to 1st August'21)	Achieved against 5th Milestone till 30.06.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)	Achieved against 6th Milestone till 30.06.2021		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)	Achieved against 7th Milestone till 30.06.2021	
			%	Amount		%	Amount		%	Amount		%	Amount
	Column & Beam			-			-	100%		-			-
	RCC Ground floor Slab			-			-	100%		-			-
	RCC Roof Slab			-			-	100%		-			-
	Brick work & Plaster			-			-			-	100%		-
	Electrification, plumbing, fixtures			-			-			-	50%		-
	Finishing work			-			-			-			-
E	<b>Construction of Guard Room</b>			-			-			-			-
	Site Clearance			-			-			-			-
	Excavation & PCC			-			-			-			-
	RCC Foundation/column footing			-			-	100%		-			-
	Column & Beam			-			-	100%		-			-
	RCC Ground floor Slab			-			-	100%		-			-
	RCC Roof Slab			-			-			-	100%		-
	Brick work & Plaster			-			-			-	50%		-
	Electrification, plumbing, fixtures			-			-			-	25%		-
	Finishing work			-			-			-			-
F	<b>Transformer Yard,DG Yard</b>			-			-			-			-
	Site Clearance			-	100%		-			-			-
	Excavation & PCC			-			-	100%		-			-
	Foundation Work			-			-	100%		-			-
	Finishing Work			-			-	100%		-			-
G	<b>MECHANICAL WORK</b>			-			-			-			-
	<b>Piping &amp; Support work</b>			-			-			-			-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)	Achieved against 4th Milestone till 30.06.2021		Milestone-5 (From 2nd July'21 to 1st August'21)	Achieved against 5th Milestone till 30.06.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)	Achieved against 6th Milestone till 30.06.2021		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)	Achieved against 7th Milestone till 30.06.2021	
			%	Amount		%	Amount		%	Amount		%	Amount
	(i) On supply of machinery/equipment at site			-			-			-	100%		-
	(ii) On completion of erection works			-			-			-			-
	(iii) On completion of Testing of equipment			-			-			-			-
	<b>Screen Channel</b>			-			-			-			-
	(i) On supply of machinery/equipment at site			-	100%		-			-			-
	(ii) On completion of erection works			-			-			-			-
	(iii) On completion of Testing of equipment			-			-			-			-
	<b>Pumps</b>			-			-			-			-
	(i) On supply of machinery/equipment at site			-	100%		-			-			-
	(ii) On completion of erection works			-			-			-			-
	(iii) On completion of Testing of equipment			-			-			-			-
H	<b>ELECTRICAL WORK</b>			-			-			-			-
	<b>Cable Tray &amp; Earthing Work</b>			-			-			-			-
	(i) On supply of machinery/equipment at site			-			-			-	50%		-
	(ii) On completion of erection works			-			-			-			-
	(iii) On completion of Testing of equipment			-			-			-			-
	<b>Transformer</b>			-			-			-			-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)	Achieved against 4th Milestone till 30.06.2021		Milestone-5 (From 2nd July'21 to 1st August'21)	Achieved against 5th Milestone till 30.06.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)	Achieved against 6th Milestone till 30.06.2021		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)	Achieved against 7th Milestone till 30.06.2021	
		%	%	Amount	%	%	Amount	%	%	Amount	%	%	Amount
	(i) On supply of machinery/equipment at site			-			-			-			-
	(ii) On completion of erection works			-			-			-			-
	(iii) On completion of Testing of equipment			-			-			-			-
	<b>DG</b>			-			-			-			-
	(i) On supply of machinery/equipment at site			-			-			-			-
	(ii) On completion of erection works			-			-			-			-
	(iii) On completion of Testing of equipment			-			-			-			-
I	<b>Construction of Boundary wall &amp; Internal Road</b>			-			-			-			-
	Site Clearance			-			-			-			-
	Excavation & PCC	30%	30%	95,882			-			-	70%		-
	RCC Column footing			-			-			-	100%		-
	RCC Column & Beam			-			-			-	100%	20%	63,921
	Brickwork & Plaster			-			-			-	100%		-
	Finishing			-			-			-			-
	Construction of Internal road			-			-			-			-
21	<b>IPS-6 (Sundar Nagar- 20 MLD)- Pankha Area</b>			-			-			-			-
	<b>CIVIL</b>			-			-			-			-
A	<b>Construction of Raw Sewage Sump</b>			-			-			-			-
	Site Clearance			-			-			-			-



SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)	Achieved against 4th Milestone till 30.06.2021		Milestone-5 (From 2nd July'21 to 1st August'21)	Achieved against 5th Milestone till 30.06.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)	Achieved against 6th Milestone till 30.06.2021		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)	Achieved against 7th Milestone till 30.06.2021	
		%	%	Amount	%	%	Amount	%	%	Amount	%	%	Amount
	Excavation			-			-			-			-
	PCC			-			-			-			-
	RCC Foundation/Raft			-			-			-			-
	Wall 50% of total lift work	10%	10%	2,55,600			-			-			-
	Column & Beam	40%	40%	10,22,400	30%		-	30%		-			-
	Walls (balance 50% of Total Lift work)	25%	25%	6,39,000	25%		-	50%		-			-
	Ground Floor Slab			-			-	100%		-			-
	Finishing Work			-			-			-	100%		-
B	<b>Construction of Inlet Chamber &amp; Screen Channel</b>			-			-			-			-
	Site Clearance			-			-			-			-
	Excavation & PCC	30%	30%	1,27,800			-			-			-
	RCC Foundation/Raft	80%	80%	3,40,800	20%		-			-			-
	Wall 50% of total lift work	20%	20%	85,200	80%	80%	3,40,800			-			-
	Walls (balance 50% of Total Lift work)			-	100%		-			-			-
	Walkway/Platform			-			-	100%		-			-
	Finishing work			-			-			-	100%		-
C	<b>Construction of Raw Sewage Pump House</b>			-			-			-			-
	Column & Beam			-			-	100%		-			-
	Roof Slab			-			-			-	100%		-
	Brickwork & Plaster			-			-			-	100%		-
	Finishing Work			-			-			-			-
D	<b>Construction of Office Room</b>			-			-			-			-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)	Achieved against 4th Milestone till 30.06.2021		Milestone-5 (From 2nd July'21 to 1st August'21)	Achieved against 5th Milestone till 30.06.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)	Achieved against 6th Milestone till 30.06.2021		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)	Achieved against 7th Milestone till 30.06.2021	
		%	%	Amount	%	%	Amount	%	%	Amount	%	%	Amount
	Site Clearance			-			-			-			-
	Excavation & PCC			-			-			-			-
	RCC Foundation/column footing			-	100%		-			-			-
	Column & Beam			-	100%		-			-			-
	RCC Ground floor Slab			-	100%		-			-			-
	RCC Roof Slab			-			-	100%		-			-
	Brick work & Plaster			-			-			-	100%		-
	Electrification, plumbing, fixtures			-			-			-	100%		-
	Finishing work			-			-			-			-
<b>E</b>	<b>Construction of Guard Room</b>			-			-			-			-
	Site Clearance			-	100%		-			-			-
	Excavation & PCC			-			-			-			-
	RCC Foundation/column footing	100%	100%	6,39,000			-			-			-
	Column & Beam			-	100%	50%	1,06,500			-			-
	RCC Ground floor Slab			-			-	100%		-			-
	RCC Roof Slab			-			-			-	100%		-
	Brick work & Plaster			-			-			-	100%		-
	Electrification, plumbing, fixtures			-			-			-	50%		-
	Finishing work			-			-			-			-
<b>F</b>	<b>Transformer Yard,DG Yard</b>			-			-			-			-
	Site Clearance			-			-			-			-
	Excavation & PCC			-			-			-	100%		-
	Foundation Work			-			-			-	100%		-
	Finishing Work			-			-			-	100%		-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)	Achieved against 4th Milestone till 30.06.2021		Milestone-5 (From 2nd July'21 to 1st August'21)	Achieved against 5th Milestone till 30.06.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)	Achieved against 6th Milestone till 30.06.2021		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)	Achieved against 7th Milestone till 30.06.2021	
		%	%	Amount	%	%	Amount	%	%	Amount	%	%	Amount
G	<b>MECHANICAL WORK</b>			-			-			-			-
	<b>Piping &amp; Support work</b>			-			-			-			-
	(i) On supply of machinery/equipment at site			-			-			-	100%		-
	(ii) On completion of erection works			-			-			-			-
	(iii) On completion of Testing of equipment			-			-			-			-
	<b>Screen Channel</b>			-			-			-			-
	(i) On supply of machinery/equipment at site			-	100%		-			-			-
	(ii) On completion of erection works			-			-			-			-
	(iii) On completion of Testing of equipment			-			-			-			-
	<b>Pumps</b>			-			-			-			-
	(i) On supply of machinery/equipment at site			-			-			-	100%		-
	(ii) On completion of erection works			-			-			-			-
	(iii) On completion of Testing of equipment			-			-			-			-
H	<b>ELECTRICAL WORK</b>			-			-			-			-
	<b>Cable Tray &amp; Earthing Work</b>			-			-			-			-
	(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 30.06.2021		Milestone-5 (From 2nd July'21 to 1st August'21)	Achieved against 5th Milestone till 30.06.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)	Achieved against 6th Milestone till 30.06.2021		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)	Achieved against 7th Milestone till 30.06.2021	
		%	%	Amount	%	%	Amount	%	%	Amount	%	%	Amount
	<b>Transformer</b>			-			-			-			-
	(i) On supply of machinery/equipment at site			-			-			-			-
	(ii) On completion of erection works			-			-			-			-
	(iii) On completion of Testing of equipment			-			-			-			-
	<b>DG</b>			-			-			-			-
	(i) On supply of machinery/equipment at site			-			-			-			-
	(ii) On completion of erection works			-			-			-			-
	(iii) On completion of Testing of equipment			-			-			-			-
I	<b>Construction of Boundary wall &amp; Internal Road</b>			-			-			-			-
	Site Clearance			-			-			-			-
	Excavation & PCC			-			-	100%		-			-
	RCC Column footing			-			-	100%		-			-
	RCC Column & Beam			-			-	100%		-			-
	Brickwork & Plaster			-			-			-	100%		-
	Construction of Internal road			-			-			-			-
	Finishing			-			-			-			-
22	<b>I&amp;D Works</b>			-			-			-			-
A	<b>ICI Nala</b>			-			-			-			-
	Construction Work	2%	2%	44,480	4%	4%	88,960			-			-
	Tapping of Nallahs			-	45%		-	55%		-			-
	Electro-Mechanical work			-			-	50%		-	50%		-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)	Achieved against 4th Milestone till 30.06.2021		Milestone-5 (From 2nd July'21 to 1st August'21)	Achieved against 5th Milestone till 30.06.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)	Achieved against 6th Milestone till 30.06.2021		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)	Achieved against 7th Milestone till 30.06.2021	
			%	Amount		%	Amount		%	Amount		%	Amount
	Testing			-			-			-			-
B	<b>Thermal Nala -A</b>			-			-			-			-
	Construction Work	30%	30%	6,67,200	27%		-			-			-
	Tapping of Nallahs			-	60%		-	40%		-			-
	Electro-Mechanical work			-			-	50%		-	50%		-
	Testing			-			-			-			-
C	<b>Thermal Nala -B</b>			-			-			-			-
	Construction Work			-	36%		-	50%		-			-
	Tapping of Nallahs			-	24%		-	25%		-	51%		-
	Electro-Mechanical work			-			-			-	50%		-
	Testing			-			-			-			-
23	<b>Rising Main Works</b>			-			-			-			-
A	<b>ICI Nala Area</b>			-			-			-			-
	Site Cleance from Client	100%		-			-			-			-
	Supply of Pipes	24%	24.0%	12,24,000	20%	20%	10,20,000	25%		-	25%		-
	Excavation,Laying & backfilling of Pipes			-	35%		-	30%		-	20%		-
	Testing			-			-	50%		-	25%		-
B	<b>Sundar Nagar IPS Area</b>			-			-			-			-
	Site Cleance from Client	100%		-			-			-			-
	Supply of Pipes	30%	30%	15,30,000			-	30%	30%	15,30,000	40%	40%	20,40,000
	Excavation,Laying & backfilling of Pipes			-	25%		-	37%		-	38%		-
	Testing			-			-	54%		-	46%		-
24	<b>Sewer System Area (RCC Pipes-NP3 Types)</b>			-			-			-			-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)	Achieved against 4th Milestone till 30.06.2021		Milestone-5 (From 2nd July'21 to 1st August'21)	Achieved against 5th Milestone till 30.06.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)	Achieved against 6th Milestone till 30.06.2021		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)	Achieved against 7th Milestone till 30.06.2021	
		%	%	Amount	%	%	Amount	%	%	Amount	%	%	Amount
	Site Clearance	12%		-	25%		-	25%		-	15%		-
	Supply of pipes	22%	13%	208,59,055	8%		-			-			-
	Excavation and Laying of pipes including bed preparation & backfilling	12%	12%	12,03,407	14%	2%	2,00,568	10%		-	26%		-
	Manholes	25%	27%	27,07,666	10%	7%	7,01,987	20%		-	20%		-
	Testing			-			-	20%		-	30%		-
	Road Restoration work			-			-			-	35%		-
25	<b>Design ,Supply,Testing &amp; Commissioning of Sewer line (crossing National Highway-2 &amp; Railway Track)</b>			-			-			-			-
	Statutory approvals from Railway & Road dept			-	100%	25%	-			-			-
	Supply of Carrier & Casing Pipes			-			-	57%	57%	64,11,551	43%		-
	Construction of Pit			-			-	45.0%	25%	2,34,340	55%		-
	Excavation & Laying of Pipes thru Jack push method			-			-	30%	25%	14,06,042	30%		-
	Testing			-			-			-	27%		-
26	<b>Design ,Supply,Testing &amp; Commissioning of Treated Effluent line from STP to River Pandu</b>			-			-			-			-
	Site Clearance			-			-			-			-
	Construction of Effluent line from STP to River Pandu			-			-			-	35%	35%	25,20,000
	Testing			-			-			-			-

SN	Description of Items	Milestone-4 (From 26th Jan'21 to 01 July'21)	Achieved against 4th Milestone till 30.06.2021		Milestone-5 (From 2nd July'21 to 1st August'21)	Achieved against 5th Milestone till 30.06.2021		Milestone-6 (From 2nd August'21 to 1st Sep.'21)	Achieved against 6th Milestone till 30.06.2021		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)	Achieved against 7th Milestone till 30.06.2021	
			%	Amount		%	Amount		%	Amount		%	Amount
	<b>TRIAL RUN &amp; COMMISSIONING</b>			-			-						
	Trial Run & Commissioning												
	<b>Total Amount</b>			<b>834,68,102</b>			<b>49,18,415</b>			<b>247,22,021</b>			<b>122,36,904</b>

### Summary of Pankha STP Overall Progress till 30.06.2021

Milestone	Milestone Amount	Targeted Progress till 30.06.2021		
		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	834,68,102	12.50%	8.36%
5th Milestone	1248,39,750.00	49,18,415	-	0.49%
6th milestone	1248,39,750.00	247,22,021	-	2.48%
7th milestone	1248,39,750.00	122,36,904	-	1.23%
8th milestone	1248,39,750.00	-		
Total	9987,18,000.00	4996,51,691	50.00%	50.05%
<b>Overall Progress %</b>	<b>100.00%</b>		<b>50.00%</b>	<b>50.05%</b>

**PHOTOGRAPHS OF PANKHA STP SITE**



**MPS and Receiving chamber**



**Sludge Thickener**





**Supernatant Sump**



**Commissioner visit on 17<sup>th</sup> June 2021**



**PTU Grit chamber**



**IPS Sundar Nagar**



**Chlorination Building**



**I/D, ICI nala**

**6.2 MILESTONE WISE ACTIVITIES AND PROGRESS: UNNAO STP**

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

**TABLE 6.2: UNNAO FACILITIES (DISTRICT UNNAO)**

S N	Description of Items	Milestone-4 (From 26th Mar'21 to 25th June'21)		Milestone-4 Achieved till 30.06.2021		Milestone-5 (From 26th June'21 to 15th July'21 )		Milestone-5 Achieved till 30.06.2021	
		%	Amount	%	Amount	%	Amount	%	Amount
<b>I</b>	<b>CONSTRUCTION</b>								
<b>A</b>	<b>UNNAO STP (15 MLD)</b>								
i)	<b>SBR Basin Area</b>								
1	Site Clearance								
2	Excavation wall footing				-				
3	PCC wall footing				-				
4	RCC Foundation/Raft of wall				-				
5	Wall 50% of total upto base slab				-				
6	Walls (balance 50% of upto base slab)		-		-				
7	PCC Base Slab		-		-		-		
8	RCC Foundation base slab	75%	20,59,603.20	75%	20,59,603.20		-		
9	Wall 50% of total lift work		-		-	100%	27,46,137.60	100%	27,46,137.60
10	Walls (balance 50% of Total Lift work)		-		-	100%	27,46,137.60	5%	1,37,306.88
11	Walkway/Platform		-		-	100%	27,46,137.60		
12	Piping & fitting works		-		-		-		
13	Testing /Finishing works		-		-		-		
ii	<b>Sludge Thickener Area</b>				0				
1	Site Clearance		-		-		-		
2	Excavation		-		-		-		
3	PCC		-		-		-		
4	RCC Foundation Wall/base slab		-		-		-		

S N	Description of Items	Milestone-4 (From 26th Mar'21 to 25th June'21)		Milestone-4 Achieved till 30.06.2021		Milestone-5 (From 26th June'21 to 15th July'21 )		Milestone-5 Achieved till 30.06.2021	
		%	Amount	%	Amount	%	Amount	%	Amount
5	Wall 50% of total lift work		-		-		-		
6	Walls (balance 50% of Total Lift work)	25%	94,633.55	25%	94,633.55		-		
7	Testing /Finishing works		-		-	100%	3,08,000.00		
iii	<b>Supernatant Sump Area</b>				0				
1	Site Clearance		-		-		-		
2	Excavation		-		-		-		
3	PCC		-		-		-		
4	RCC Foundation wall/base slab		-		-		-		
5	Wall 50% of total lift work		-		-		-		
6	Walls (balance 50% of Total Lift work)		-		-		-		
7	Testing /Finishing works	100%	85,800.00	100%	85,800.00		-		
iv	<b>Chlorination Tank Area</b>				0				
1	Site Clearance		-		-		-		
2	Excavation		-		-		-		
3	PCC		-		-		-		
4	RCC Foundation/Raft		-		-		-		
5	Wall 50% of total lift work		-		-		-		
6	Walls (balance 50% of Total Lift work)		-		-		-		
7	Baffle Walls work		-		-		-		
8	Testing /Finishing works	100%	4,57,000.00	100%	4,57,000.00		-		
v	<b>Air Blower Room Area</b>				0				
1	Site Clearance		-		-		-		
2	Excavation		-		-		-		
3	PCC		-		-		-		
4	RCC Foundation/column footing		-		-		-		
5	Column & Beam		-		-		-		

S N	Description of Items	Milestone-4 (From 26th Mar'21 to 25th June'21)		Milestone-4 Achieved till 30.06.2021		Milestone-5 (From 26th June'21 to 15th July'21 )		Milestone-5 Achieved till 30.06.2021	
		%	Amount	%	Amount	%	Amount	%	Amount
6	RCC Roof Slab	100%	8,29,801.60		-		-		
7	Cable Trench Work	100%	6,86,534.40	100%	6,86,534.40		-		
8	RCC Ground floor Grade Slab	100%	6,86,534.40	30%	2,05,960.32		-		
9	Brick work		-		-	100%	6,25,168.00		
10	Plaster		-		-		-		
11	Testing/Finishing work		-		-		-		
vi	<b>Staff Quarter Area (G+1)</b>				0				
1	Site Clearance		-		-		-		
2	Excavation		-		-		-		
3	PCC		-		-		-		
4	RCC Foundation/column footing		-		-		-		
5	Column & Beam		-		-		-		
6	RCC Ground floor Slab		-		-		-		
7	RCC 1st floor Slab		-		-		-		
8	RCC Roof Slab		-		-		-		
9	Brick work	100%	67,000.00	60%	40,200.00		-		
10	Plaster		-		-	100%	67,000.00		
11	Plumbing, fixtures , sanitary works, AC work		-		-		-		
12	Electrification work		-		-		-		
13	Finishing works		-		-		-		
vii	<b>Guard Room Area</b>				0				
1	Site Clearance		-		-		-		
2	Excavation		-		-		-		
3	PCC		-		-		-		

S N	Description of Items	Milestone-4 (From 26th Mar'21 to 25th June'21)		Milestone-4 Achieved till 30.06.2021		Milestone-5 (From 26th June'21 to 15th July'21 )		Milestone-5 Achieved till 30.06.2021	
		%	Amount	%	Amount	%	Amount	%	Amount
4	RCC Foundation/column footing		-		-		-		
5	Column & Beam		-		-		-		
6	RCC Ground floor Slab		-		-		-		
7	RCC Roof Slab		-		-		-		
8	Brick work		-		-		-		
9	Plaster		-		-		-		
10	Plumbing, fixtures	100%	1,14,422.40		-		-		
11	Sanitary works, AC work	100%	64,422.40		-		-		
12	Electrification work		-		-	100%	32,211.00		
13	Finishing works		-		-	100%	32,211.00		
vii	<b>Chlorination Room Area</b>				0				
1	Site Clearance		-		-		-		
2	Excavation		-		-		-		
3	PCC		-		-		-		
4	RCC Foundation/Column footing		-		-		-		
5	Column & Beam		-		-		-		
6	Ground floor Slab		-		-		-		
7	Roof Slab	50%	2,43,267.20	50%	2,43,267.20		-		
8	Brickwork	100%	2,96,689.60	25%	74,172.40		-		
9	Plaster		-		-	100%	2,57,689.60		
10	Testing/Finishing works		-		-		-		
ix	<b>Admin Bldg Area (G+1)</b>				0				
1	Site Clearance		-		-		-		
2	Excavation		-		-		-		

S N	Description of Items	Milestone-4 (From 26th Mar'21 to 25th June'21)		Milestone-4 Achieved till 30.06.2021		Milestone-5 (From 26th June'21 to 15th July'21 )		Milestone-5 Achieved till 30.06.2021	
		%	Amount	%	Amount	%	Amount	%	Amount
3	PCC		-		-		-		
4	Column footings/Foundation	50%	59,219.03		-		-		
5	Column & Beam up to First Floor		-		-	100%	1,18,438.05		
6	1st Floor Slab		-		-	100%	1,35,357.77		
7	Column & Beam First Floor to Roof Slab		-		-		-		
8	Roof Slab		-		-		-		
9	Brickwork		-		-		-		
10	Plaster		-		-		-		
11	Electrification, plumbing, fixtures , sanitary works, AC work		-		-		-		
12	finishing works		-		-		-		
X	<b>Sludge Dewatering System Area (Centrifuge Pump House, Sludge sump &amp; Poly dosing tank)</b>				0				
1	Site Clearance		-		-		-		
2	Excavation		-		-		-		
3	PCC		-		-		-		
4	RCC Foundation		-		-		-		
5	Column & Beam Upto First Floor		-		-		-		
6	First Floor Slab	100%	3,69,576.00	10%	36,957.60		-		
7	Column & Beam First Floor to Roof Slab		-		-		-		
8	Roof Slab		-		-	100%	3,19,576.00		
9	Brickwork		-		-		-		
10	Plaster		-		-		-		
11	Piping & fiittings Work		-		-		-		
12	Testing/Finishing works		-		-		-		



S N	Description of Items	Milestone-4 (From 26th Mar'21 to 25th June'21)		Milestone-4 Achieved till 30.06.2021		Milestone-5 (From 26th June'21 to 15th July'21 )		Milestone-5 Achieved till 30.06.2021	
		%	Amount	%	Amount	%	Amount	%	Amount
					0				
xi	<b>Inlet Chamber Area</b>				0				
1	Site Clearance		-		-		-		
2	Excavation & PCC	50%	1,04,608.80	25%	52,304.40		-		
3	RCC Foundation/Column footing	100%	4,18,435.20		-		-		
4	Column & Beam	100%	3,13,826.40		-		-		
5	RCC Slab		-		-	100%	3,13,826.40		
6	RCC Wall		-		-		-		
7	Testing/Finishing works		-		-		-		
xii	<b>Manual &amp; Mechanica Fine Bar Screen Chamber AreaArea</b>				0				
1	Site Clearance		-		-		-		
2	Excavation		-		-		-		
3	PCC	100%	1,57,450.40		-		-		
4	RCC Foundation	100%	1,82,450.40		-		-		
5	Column & Beam	100%	1,82,450.40		-		-		
6	RCC Slab		-		-	100%	2,57,450.40		
7	RCC Wall		-		-	100%	1,71,633.60		
8	Walkway/Platform		-		-		-		
9	Testing/Finishing works		-		-		-		
xii i	<b>Grit Chamber Area</b>				0				
1	Site Clearance		-		-		-		
2	Excavation		-		-		-		
3	PCC	100%	2,68,267.20		-		-		
4	RCC Foundation	100%	2,68,267.20		-		-		
5	Column & Beam	100%	2,43,267.20		-		-		
6	RCC Slab		-		-	100%	2,43,267.20		
7	RCC Wall		-		-	100%	2,28,844.80		

S N	Description of Items	Milestone-4 (From 26th Mar'21 to 25th June'21)		Milestone-4 Achieved till 30.06.2021		Milestone-5 (From 26th June'21 to 15th July'21 )		Milestone-5 Achieved till 30.06.2021	
		%	Amount	%	Amount	%	Amount	%	Amount
8	Walkway/Platform		-		-		-		
9	Testing/Finishing works		-		-		-		
<b>xi v</b>	<b>Parshall Flume Channel Area</b>				0				
1	Site Clearance		-		-		-		
2	Excavation		-		-		-		
3	PCC	100%	2,93,267.20		-		-		
4	RCC Foundation	100%	3,43,267.20		-		-		
5	Column & Beam	100%	3,43,267.20		-		-		
6	RCC Slab		-		-	100%	3,43,267.20		
7	RCC Wall		-		-	100%	3,43,267.20		
8	Walkway/Platform		-		-	100%	3,43,267.20		
9	Piping & fitting Work		-		-		-		
1 0	Testing		-		-		-		
<b>xv</b>	<b>Sludge Storage Platform Area</b>				0				
1	Site Clearance		-		-		-		
2	Excavation		-		-	100%	1,00,000.00		
3	PCC		-		-		-		
4	Foundation Work		-		-		-		
5	Finishing work		-		-		-		
<b>xv i</b>	<b>Transformer Yard Area</b>				0				
1	Site Clearance		-		-	100%	-		
2	Excavation		-		-	100%	3,88,045.00		
3	PCC		-		-		-		
4	Foundation Work		-		-		-		
<b>xv</b>	<b>DG Shed Area</b>				0				

S N	Description of Items	Milestone-4 (From 26th Mar'21 to 25th June'21)		Milestone-4 Achieved till 30.06.2021		Milestone-5 (From 26th June'21 to 15th July'21 )		Milestone-5 Achieved till 30.06.2021	
		%	Amount	%	Amount	%	Amount	%	Amount
ii									
1	Site Clearance		-		-	100%	-		
2	Excavation		-		-	100%	4,36,555.00		
3	PCC		-		-		-		
4	Foundation Work		-		-		-		
xv iii	<b>EXTERNAL DEVELOPMENT</b>				0				
	<b>Boundary Wall with Gate</b>				-				
1	Site Clearance		-		-		-		
2	Excavation		-		-		-		
3	PCC	15%	75,318.75	15%	75,318.75		-		
4	RCC Column footing	15%	75,318.75	15%	75,318.75		-		
5	RCC Column & Beam	16%	80,340.00	16%	80,340.00		-		
6	Brickwork	22%	1,10,467.50	22%	1,10,467.50	8%	40,170.00		
7	Plaster	15%	75,318.75	15%	75,318.75	30%	1,50,380.15		
8	Retaining wall	15%	2,40,382.50		-	24%	3,84,612.00		
9	Finishing Work		-		-		-		
	<b>Earthfilling, Internal Roads ,Landscaping</b>		-		-		-		
1	Earthfilling, Internal Roads ,Landscaping		-		-		-		
<b>B</b>	<b>I &amp; D Work</b>				0				
<b>(i)</b>	<b>Approach Channel</b>				0				
1	Excavation		-		-		-		
2	PCC		-		-		-		
3	RCC Foundation/Raft		-		-		-		
4	wall		-		-		-		
5	Testing/Finishing work		-		-		-		
<b>(ii)</b>	<b>Inlet Chamber</b>				0				

S N	Description of Items	Milestone-4 (From 26th Mar'21 to 25th June'21)		Milestone-4 Achieved till 30.06.2021		Milestone-5 (From 26th June'21 to 15th July'21 )		Milestone-5 Achieved till 30.06.2021	
		%	Amount	%	Amount	%	Amount	%	Amount
)									
1	Excavation		-		-		-		
2	PCC		-		-		-		
3	RCC Foundation/Raft		-		-		-		
4	wall		-		-		-		
5	Testing/Finishing work		-		-		-		
(ii i)	<b>Screen Channel</b>				0				
1	Excavation		-		-		-		
2	PCC		-		-		-		
3	RCC Foundation/Raft		-		-		-		
4	wall		-		-		-		
5	Testing/Finishing work		-		-		-		
(i v)	<b>Grit Chamber</b>				0				
1	Excavation		-		-		-		
2	PCC		-		-		-		
3	RCC Foundation/Raft		-		-		-		
4	wall		-		-		-		
5	Testing/Finishing work		-		-		-		
(v )	<b>Collection Chamber</b>				0				
1	Excavation		-		-		-		
2	PCC		-		-		-		
3	RCC Foundation/Raft		-		-		-		
4	wall		-		-		-		
5	Testing/Finishing work		-		-		-		
C	<b>MPS-40 MLD</b>				0				

S N	Description of Items	Milestone-4 (From 26th Mar'21 to 25th June'21)		Milestone-4 Achieved till 30.06.2021		Milestone-5 (From 26th June'21 to 15th July'21 )		Milestone-5 Achieved till 30.06.2021	
		%	Amount	%	Amount	%	Amount	%	Amount
	<b>Civil Work</b>				-				
i	<b>Construction of Raw Sewage Sump</b>				0				
1	Site Clearance		-		-		-		
2	Excavation		-		-		-		
3	PCC		-		-		-		
4	RCC Foundation/Raft	100%	6,87,220.00	100%	6,87,220.00		-		
5	Wall 50% of total lift work		-		-	100%	6,87,220.00	50%	3,43,610.00
6	Walls (balance 50% of Total Lift work)		-		-	50%	4,43,610.00		
7	Column & Beam		-		-		-		
8	Ground Floor Slab		-		-		-		
9	Testing/Finishing work		-		-		-		
ii	<b>Construction of Raw Sewage Pump House</b>				0				
1	Column & Beam		-		-		-		
2	Roof Slab		-		-		-		
3	Brickwork		-		-		-		
4	Plaster		-		-		-		
iii	<b>Construction of Inlet Chamber &amp; Screen Channel</b>				0				
1	Site Clearance		-		-		-		
2	Excavation		-		-		-		
3	PCC	100%	1,84,837.50	100%	1,84,837.50		-		
4	RCC Foundation/Raft	100%	1,84,837.50	100%	1,84,837.50		-		
5	Wall 50% of total lift work		-		-	100%	1,84,837.50	50%	92,418.75
6	Walls (balance 50% of Total Lift work)		-		-	100%	1,84,837.50		
7	Column & Beam		-		-		-		
8	Ground Floor Slab		-		-		-		
9	Walkway/Platform		-		-		-		

S N	Description of Items	Milestone-4 (From 26th Mar'21 to 25th June'21)		Milestone-4 Achieved till 30.06.2021		Milestone-5 (From 26th June'21 to 15th July'21 )		Milestone-5 Achieved till 30.06.2021	
		%	Amount	%	Amount	%	Amount	%	Amount
10	Testing/Finishing work		-		-		-		
<b>D</b>	<b>SEWER SYSTEM AREA (3.2 Km)</b>				0				
1	Site Clearance		-		-		-		
2	Supply of pipes	2%	11,06,234.04	2%	11,06,234.04		-		
3	Excavation and Laying of pipes including bed preparation & backfilling	14%	7,73,901.46	14.0%	7,74,363.83	17%	9,40,298.93	40%	22,12,468.08
4	Manholes	10%	3,68,744.68	10%	3,68,744.68	17%	6,26,319.11		
5	Flow/Hydraulic Testing		-		-	22%	16,22,476.59		
6	Road restoration work		-		-		-		
<b>E</b>	<b>RISING MAIN PIPING WORK (100 m)</b>				0				
1	Site Clearance		-		-	100%	-		
2	Supply of pipes		-		-	100%	5,48,000.00		
3	Cutting,Excavtion,Laying of Pipes, backfilling		-		-		-		
4	Testing		-		-		-		
<b>F</b>	<b>EFFLUENT DISPOSAL SYSTEM</b>				0				
					-				
1	Site Clearance		-		-		-		
2	Construction of Effluent Channel from Distribution Chamber to Agriculture Land		-		-		-		
3	Construction of Rectangular Channel from STP to Distribution Chamber		-		-		-		
4	Construction of Distribution Chamber		-		-		-		
<b>G</b>	<b>E&amp;M WORK</b>				-				
i)	<b>GRIT CHAMBER AREA</b>		-		-		-		
	A.On supply - Grit Scraper Mechanism		-		-		-		
	B.On Installation - Grit Scraper Mechanism		-		-		-		
ii)	<b>SLUDGE THICKENER AREA</b>		-		-		-		

S N	Description of Items	Milestone-4 (From 26th Mar'21 to 25th June'21)		Milestone-4 Achieved till 30.06.2021		Milestone-5 (From 26th June'21 to 15th July'21 )		Milestone-5 Achieved till 30.06.2021	
		%	Amount	%	Amount	%	Amount	%	Amount
	A.Supply - Sludge Thickener		-		-	100%	12,80,000.00		
	B.Installation - Sludge Thickener		-		-		-		
iii )	<b>TRANSFORMER YARD AREA</b>		-		-		-		
	A.Supply - Transformer		-		-		-		
	B.Installation - Transformer		-		-		-		
iv )	<b>DG SHED AREA</b>		-		-		-		
	A.Supply - DG		-		-		-		
	B.Installation - DG		-		-		-		
v)	<b>MEP</b>		-		-		-		
	A.Supply - Screen	100%	60,80,000.00		-		-		
	B.Installation - Screen		-		-		-		
	C.Supply - Hoist		-		-	100%	5,60,000.00	100%	5,60,000.00
	D.Installation - Hoist		-		-		-		
	E.Supply - Pumps & Motors(MEP)	100%	92,80,000.00	75%	69,60,000.00		-		
	F.Installation - Pumps & Motors(MEP)		-		-		-		
	G.Supply - Gate & Valves(MPS)	100%	41,60,000.00		-		-		
	H.Installation - Gate & Valves(MPS)		-		-		-		
	I.Supply Instruments(like flow meter, Guages, level, Transmitter)		-		-		-		
	J.Installation - Instruments(like flow meter, Guages, level, Transmitter)		-		-		-		
vi )	<b>INLET CHAMBER AREA</b>		-		-		-		
	A.Supply - Gate & Valves(STP)		-		-	100%	33,60,000.00		
	B.Installation - Gate & Valves(STP)		-		-		-		
vii	<b>FINE SCREEN AREA</b>		-		-		-		

S N	Description of Items	Milestone-4 (From 26th Mar'21 to 25th June'21)		Milestone-4 Achieved till 30.06.2021		Milestone-5 (From 26th June'21 to 15th July'21 )		Milestone-5 Achieved till 30.06.2021	
		%	Amount	%	Amount	%	Amount	%	Amount
)									
	A.On supply -Fine Screen	100%	25,60,000.00		-		-		
	B.On Installation -Fine Screen		-		-		-		
vii i)	<b>SBR BASIN AREA</b>		-		-		-		
	A..On supply - Decanter Equipment		-		-	100%	154,40,000.00		
	B..Installation - Decanter Equipment		-		-		-		
	C.On supply - Diffuser		-		-		-		
	D.On Installation - Diffuser		-		-		-		
	E.On supply - RAS Pump, SAS Pump	100%	43,20,000.00		-		-		
	F.On Installation - RAS Pump, SAS Pump		-		-		-		
	G.On supply - Chain Pulley Block		-		-		-		
	H.On Installation - Chain Pulley Block		-		-		-		
ix)	<b>AIR BLOWER ROOM</b>		-		-		-		
	A.Supply - Blower		-		-	100%	48,00,000.00		
	B. Installation - Blower		-		-		-		
	C.Supply - Hoist Work		-		-	100%	4,00,000.00		
	D.Installation - Hoist Work		-		-		-		
x)	<b>CHLORINATION ROOM AREA</b>		-		-		-		
	A.Supply - Chlorination system(Dosing pumps, chlorinators, Tonnes, Chemicals & Piping work		-		-	100%	23,20,000.00		
	B. Installation - Chlorination system(Dosing pumps, chlorinators, Tonnes, Chemicals & Piping work		-		-		-		
	C.Supply - Chlorine Nutrilisation Tank		-		-		-		
	D.Installation - Chlorine Nutrilisation tank		-		-		-		
	E.Supply - Hoist Work		-		-	100%	5,60,000.00	100%	5,60,000.00



S N	Description of Items	Milestone-4 (From 26th Mar'21 to 25th June'21)		Milestone-4 Achieved till 30.06.2021		Milestone-5 (From 26th June'21 to 15th July'21 )		Milestone-5 Achieved till 30.06.2021	
		%	Amount	%	Amount	%	Amount	%	Amount
	F.Installation - Hoist Work		-		-		-		
xi)	<b>CENTRIFUGE HOUSE &amp; FEED PUMP AREA</b>		-		-		-		
	A.On supply -Centrifuge & Feed Pump	100%	82,40,000.00	100%	82,40,000.00		-		
	B.On Installation -Centrifuge & Feed Pump		-		-		-		
xii )	<b>t</b>		-		-		-		
	A.Supply - PMCC work		-		-		-		
	B.Installation - PMCC work		-		-		-		
	C.Supply - PLC/SCADA Automation of MPS,STP,D.G set)		-		-		-		
	D.Installation - PLC/SCADA Automation of MPS,STP,D.G set)		-		-		-		
xii i)	<b>TESTING OF E&amp;M EQUIPMENT FOR STP &amp; MPS</b>		-		-		-		
xi v)	<b>EQUIPMENT TOOLS &amp; MISC.</b>		-		-		-		
<b>III</b>	<b>TRIAL RUN &amp; COMMISSIONING</b>				0				
1	Trial Run & Commissioning								
			<b>478,36,250.00</b>		<b>229,59,434.37</b>		<b>478,36,250.00</b>		<b>66,51,941.31</b>

### Summary of Unnao STP Overall Progress till 30.06.2021

Milestone	Milestone Amount	Targeted Progress till 30.06.2021		
		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	478,36,251.06	12.50%	12.50%
4th Milestone	478,36,250.00	229,59,434.37	12.50%	6.00%
5th Milestone	478,36,250.00	66,51,941.31	3.13%	1.74%
6th milestone	478,36,250.00		-	
7th milestone	478,36,250.00		-	
8th milestone	478,36,250.00			
Total	3826,90,000.00	1885,60,126.74	53.13%	45.24%
<b>Overall Progress %</b>	<b>100.00%</b>		<b>53.13%</b>	<b>45.24%</b>

**PHOTOGRAPHS OF UNNAO STP SITE**



**MPS steel binding work**



**CCT Building work**



**1200 mm Sewer Laying works**



**SBR floor curing**



**Safety Awareness Drive**



**Staff Quarter**



**Supernatant Sump**



**Sewer laying**

### 6.3 MILESTONE WISE ACTIVITIES AND PROGRESS: SHUKLAGANJ STP

Milestone wise activities and their progress of work for Unnao STP are given in table 6.3.

**TABLE 6.3: SHUKLAGANJ STP FACILITIES**

Sr. No.	Description of Items	Proposed BOQ Amount	Milestone-1 (From 15th March.'21 to 1st Sep'21)		Achieved in 1st Milestone as on 30.06.2021	
			%	Amount	%	Amount
<b>I</b>	<b>Design &amp; Drawing of STP</b>					
1	On approval of BEP	53,23,755.00	100%	53,23,755.00	100%	53,23,755.00
2	On approval of design & drawings for Civil & Sewerage works	53,23,755.00	90%	47,91,379.50	50%	26,61,877.50
<b>II</b>	<b>CONSTRUCTION</b>					
<b>A</b>	<b>SHUKLAGANJ STP (5 MLD)</b>					
<b>i)</b>	<b>SBR Basin Area</b>					
1	Site Clearance	4,79,137.96	100%	4,79,137.96		
2	Excavation wall footing	19,16,551.84	60%	11,49,931.10		
3	PCC wall footing	23,95,689.80	30%	7,18,706.94		
4	RCC Foundation/Raft of wall	28,74,827.76		-		
5	Wall 50% of total upto base slab	23,95,689.80		-		
6	Walls (balance 50% of upto base slab)	23,95,689.80		-		
7	PCC Base Slab	35,93,534.70		-		
8	RCC Foundation base slab	26,35,258.78		-		
9	Wall 50% of total lift work	23,95,689.80		-		
10	Walls (balance 50% of Total Lift work)	16,76,982.86		-		
13	Hydro Testing /Finishing works	11,97,844.90		-		
<b>ii</b>	<b>Chlorination Tank Area</b>					
1	Site Clearance	47,913.80	100%	47,913.80	100%	47,913.80
2	Excavation	3,11,439.70	100%	3,11,439.70		
3	PCC	3,59,353.50		-		

Sr. No.	Description of Items	Proposed BOQ Amount	Milestone-1 (From 15th March.'21 to 1st Sep'21)		Achieved in 1st Milestone as on 30.06.2021	
			%	Amount	%	Amount
4	RCC Foundation/Raft	5,98,922.50		-		
5	Wall 50% of total lift work	3,59,353.50		-		
6	Walls (balance 50% of Total Lift work)	4,79,138.00		-		
7	Baffle Walls work	1,19,784.50		-		
8	Hydro Testing /Finishing works	1,19,784.50		-		
iii	<b>Chlorination Room Area</b>					
1	Site Clearance	47,913.80	100%	47,913.80	100%	47,913.80
2	Excavation	1,91,655.20	100%	1,91,655.20		
3	PCC	2,39,569.00	100%	2,39,569.00		
4	RCC Foundation/Column footing	5,98,922.50		-		
5	Column & Beam	3,59,353.50		-		
6	Ground floor Slab	2,39,569.00		-		
7	Roof Slab	3,59,353.50		-		
8	Brickwork	1,19,784.50		-		
9	Plaster	1,19,784.50		-		
10	Testing/Finishing works	1,19,784.50		-		
iv	<b>Guard Room Area</b>					
1	Site Clearance	33,539.66	100%	33,539.66	100%	33,539.66
2	Excavation	1,34,158.64	100%	1,34,158.64	100%	1,34,158.64
3	PCC	1,67,698.30	100%	1,67,698.30	100%	1,67,698.30
4	RCC Foundation/column footing	1,67,698.30	52%	87,203.12	52%	87,203.12
5	Column & Beam	2,51,547.45		-		
6	RCC Ground floor Slab	2,51,547.45		-		
7	RCC Roof Slab	83,849.15		-		
8	Brick work	1,67,698.30		-		
9	Plumbing, fixtures	83,849.15		-		
10	Sanitary works	83,849.15		-		



Sr. No.	Description of Items	Proposed BOQ Amount	Milestone-1 (From 15th March.'21 to 1st Sep'21)		Achieved in 1st Milestone as on 30.06.2021	
			%	Amount	%	Amount
11	Electrification work	83,849.15		-		
12	Plaster	83,849.15		-		
13	Finishing works	83,849.15		-		
<b>iv</b>	<b>Admin Bldg Area (G+1)</b>					
1	Site Clearance	1,05,410.34	100%	1,05,410.34		
2	Excavation	2,63,525.85	100%	2,63,525.85		
3	PCC	3,68,936.19	100%	3,68,936.19		
4	Column footings/Foundation	5,27,051.70		-		
5	Column & Beam up to Floor Base slab	7,90,577.55		-		
6	Floor base Slab	7,90,577.55		-		
7	Column & Beam upto Roof Slab	4,21,641.36		-		
8	1st Floor Roof Slab	6,85,167.21				
9	Brickwork	4,21,641.36				
10	Electrification, plumbing, fixtures , sanitary works	3,68,936.19				
11	Plaster	2,63,525.85				
12	finishing works	2,63,525.85				
<b>v</b>	<b>Air Blower Room Area</b>					
1	Site Clearance	95,827.60	100%	95,827.60		
2	Excavation	3,83,310.40	100%	3,83,310.40		
3	PCC	7,18,707.00				
4	RCC Foundation/column footing	7,18,707.00		-		
5	Column & Beam	7,18,707.00		-		
6	RCC Roof Slab	9,58,276.00		-		
7	Cable Trench Work	4,79,138.00		-		
8	Brick work	2,39,569.00		-		
9	Plaster	2,39,569.00		-		
10	Testing/Finishing work	2,39,569.00		-		

Sr. No.	Description of Items	Proposed BOQ Amount	Milestone-1 (From 15th March.'21 to 1st Sep'21)		Achieved in 1st Milestone as on 30.06.2021	
			%	Amount	%	Amount
vi	<b>Staff Quarter Area (G+1)</b>					
1	Site Clearance	33,539.66	100%	33,539.66		
2	Excavation	1,34,158.64	100%	1,34,158.64		
3	PCC	1,67,698.30	100%	1,67,698.30		
4	RCC Foundation/column footing	1,67,698.30		-		
5	Column & Beam upto ground floor slab	2,51,547.45		-		
6	RCC Ground floor Slab (Base floor slab)	1,67,698.30		-		
7	Column upto roof slab & RCC 1st floor Slab	3,35,396.60		-		
8	Brick work	83,849.15		-		
9	Plumbing, fixtures , sanitary works	83,849.15		-		
10	Electrification work	83,849.15		-		
11	Plaster	83,849.15		-		
12	Finishing works	83,849.15		-		
vii	<b>Inlet Chamber Area</b>					
1	Site Clearance	28,748.28		-		
2	Excavation & PCC	1,86,863.82		-		
3	RCC Foundation/Column footing	2,15,612.10		-		
4	Column & Beam	3,59,353.50		-		
5	RCC Slab	2,87,482.80		-		
6	RCC Wall	2,87,482.80		-		
7	Hydro Testing /Finishing works	71,870.70		-		
viii	<b>Manual &amp; Mechanica Fine Bar Screen Chamber AreaArea</b>					
1	Site Clearance	28,748.28				
2	Excavation	1,86,863.82				
3	PCC	2,15,612.10				
4	RCC Foundation	2,87,482.80				
5	Column & Beam	2,15,612.10				

Sr. No.	Description of Items	Proposed BOQ Amount	Milestone-1 (From 15th March.'21 to 1st Sep'21)		Achieved in 1st Milestone as on 30.06.2021	
			%	Amount	%	Amount
6	RCC Slab	2,87,482.80				
7	RCC Wall	71,870.70				
8	Walkway/Platform	71,870.70				
9	Hydro Testing /Finishing works	71,870.70				
ix	<b>Grit Chamber Area</b>					
1	Site Clearance	62,287.94				
2	Excavation	4,04,871.61				
3	PCC	4,67,159.55				
4	RCC Foundation	6,22,879.40				
5	Column & Beam	4,67,159.55				
6	RCC Slab	6,22,879.40				
7	RCC Wall	1,55,719.85				
8	Walkway/Platform	1,55,719.85				
9	Hydro Testing /Finishing works	1,55,719.85				
x	<b>Parshall Flume Channel Area</b>					
1	Site Clearance	62,287.94				
2	Excavation	4,04,871.61				
3	PCC	4,67,159.55				
4	RCC Foundation	4,67,159.55				
5	Column & Beam	4,67,159.55				
6	RCC Slab	6,22,879.40				
7	RCC Wall	1,55,719.85				
8	Walkway/Platform	1,55,719.85				
9	Piping & fitting Work	1,55,719.85				
10	Hydro Testing /Finishing works	1,55,719.85				
xi	<b>Sludge Dewatering System Area (Centrifuge Pump House, Sludge sump &amp; Poly dosing tank)</b>					

Sr. No.	Description of Items	Proposed BOQ Amount	Milestone-1 (From 15th March.'21 to 1st Sep'21)		Achieved in 1st Milestone as on 30.06.2021	
			%	Amount	%	Amount
1	Site Clearance	86,244.84				
2	Excavation	2,15,612.10				
3	PCC	3,44,979.36				
4	RCC Foundation	4,31,224.20				
5	Column & Beam Upto First Floor	4,31,224.20				
6	First Floor Slab	6,46,836.30				
7	Column & Beam First Floor to Roof Slab	4,31,224.20				
8	Roof Slab	6,46,836.30				
9	Brickwork	4,31,224.20				
10	Plaster	2,15,612.10				
11	Piping & fittings Work	2,15,612.10				
12	Hydro Testing /Finishing works	2,15,612.10				
<b>xii</b>	<b>Sludge Thickener Area</b>					
1	Site Clearance	67,079.32	100%	67,079.32	100%	67,079.32
2	Excavation	4,36,015.58	100%	4,36,015.58	100%	4,36,015.58
3	PCC	5,03,094.90	100%	5,03,094.90	100%	5,03,094.90
4	RCC Foundation Wall/base slab	8,38,491.50		-		
5	Wall 50% of total lift work	6,70,793.20		-		
6	Walls (balance 50% of Total Lift work)	6,70,793.20				
7	Hydro Testing /Finishing works	1,67,698.30				
<b>xiii</b>	<b>Supernatant Sump Area</b>					
1	Site Clearance	47,913.80	100%	47,913.80		
2	Excavation	3,11,439.70	100%	3,11,439.70		
3	PCC	3,59,353.50	100%	3,59,353.50		
4	RCC Foundation wall/base slab	5,98,922.50	100%	5,98,922.50		
5	Wall 50% of total lift work	4,79,138.00		-		
6	Walls (balance 50% of Total Lift work)	4,79,138.00		-		

Sr. No.	Description of Items	Proposed BOQ Amount	Milestone-1 (From 15th March.'21 to 1st Sep'21)		Achieved in 1st Milestone as on 30.06.2021	
			%	Amount	%	Amount
7	Hydro Testing /Finishing works	1,19,784.50		-		
xiv	<b>Sludge Storage Platform Area</b>					
1	Site Clearance	95,827.60				
2	Excavation	3,83,310.40				
3	PCC	5,74,965.60				
4	Foundation Work	7,66,620.80				
5	Finishing work	95,827.60				
xv	<b>Transformer Yard Area</b>					
1	Site Clearance	71,870.70				
2	Excavation	2,87,482.80				
3	PCC	4,31,224.20				
4	Foundation Work	6,46,836.30				
xvi	<b>DG Shed Area</b>					
1	Site Clearance	71,870.70				
2	Excavation	2,87,482.80				
3	PCC	4,31,224.20				
4	Foundation Work	6,46,836.30				
xvii	<b>EXTERNAL DEVELOPMENT</b>					
	<b>Boundary Wall with Gate</b>					
1	Site Clearance		100%	-		
2	Excavation	26,99,574.75	40%	10,79,829.90	30%	8,09,872.43
3	PCC	35,99,433.00	30%	10,79,829.90	20%	7,19,886.60
4	RCC Column footing	35,99,433.00	30%	10,79,829.90	0%	-
5	RCC Column & Beam	26,99,574.75	26%	7,01,889.44		
6	Brickwork	26,99,574.75		-		
7	Plaster	17,99,716.50		-		
8	Finishing Work	8,99,858.25				

Sr. No.	Description of Items	Proposed BOQ Amount	Milestone-1 (From 15th March.'21 to 1st Sep'21)		Achieved in 1st Milestone as on 30.06.2021	
			%	Amount	%	Amount
	<b>Earthfilling, Internal Roads ,Landscaping</b>					
1	Earthfilling, Internal Roads ,Landscaping	33,53,966.00				
<b>B</b>	<b>MPS-20 MLD</b>					
	<b>Civil Work</b>					
<b>i</b>	<b>Construction of Raw Sewage Sump</b>					
1	Site Clearance	1,71,655.18	100%	1,71,655.18	100%	1,71,655.18
2	Excavation	8,58,275.90	100%	8,58,275.90		
3	PCC	12,87,413.85		-		
4	RCC Foundation/Raft	17,16,551.80		-		
5	Wall 50% of total lift work	12,87,413.85		-		
6	Walls (balance 50% of Total Lift work)	12,87,413.85		-		
7	Column & Beam	8,58,275.90		-		
8	Ground Floor Slab	6,86,620.72				
9	Hydro Testing /Finishing works	4,29,137.95				
<b>ii</b>	<b>Construction of Raw Sewage Pump House</b>					
1	Column & Beam	2,50,000.00				
2	Roof Slab	2,50,000.00				
3	Brickwork	2,50,000.00				
4	Plaster	2,50,000.00				
<b>iii</b>	<b>Construction of Inlet Chamber &amp; Screen Channel</b>					
1	Site Clearance	57,496.56	100%	57,496.56	100%	57,496.56
2	Excavation	2,87,482.80		-		
3	PCC	4,31,224.20		-		
4	RCC Foundation/Raft	4,31,224.20		-		
5	Wall 50% of total lift work	4,31,224.20		-		
6	Walls (balance 50% of Total Lift work)	4,31,224.20				
7	Column & Beam	2,87,482.80				

Sr. No.	Description of Items	Proposed BOQ Amount	Milestone-1 (From 15th March.'21 to 1st Sep'21)		Achieved in 1st Milestone as on 30.06.2021	
			%	Amount	%	Amount
8	Ground Floor Slab	2,29,986.24		-		
9	Walkway/Platform	1,43,741.40				
10	Hydro Testing /Finishing works	1,43,741.40				
<b>C</b>	<b>SEWER SYSTEM AREA</b>					
1	Site Clearance			-		
2	Supply of pipes	72,53,248.00	55%	39,89,740.22		
3	Excavation and Laying of pipes including bed preparation & backfilling	6,79,992.00		-		
4	Manholes	6,79,992.00		-		
5	Flow Testing	4,53,328.00				
<b>D</b>	<b>I &amp; D Work</b>					
<b>(i)</b>	<b>Approach Channel</b>					
1	Excavation	68,100.00		-		
2	PCC	1,70,000.00		-		
3	RCC Foundation/Raft	2,05,000.00		-		
4	wall	1,70,000.00				
5	Hydro Testing /Finishing works	61,300.00				
<b>(ii)</b>	<b>Inlet Chamber</b>					
1	Excavation	85,900.00		-		
2	PCC	2,15,000.00		-		
3	RCC Foundation/Raft	2,55,000.00		-		
4	wall	2,15,000.00				
5	Hydro Testing /Finishing works	77,300.00				
<b>(iii)</b>	<b>Screen Channel</b>					
1	Excavation	68,700.00		-		
2	PCC	1,71,900.00		-		
3	RCC Foundation/Raft	2,06,370.00		-		
4	wall	1,71,975.00		-		

Sr. No.	Description of Items	Proposed BOQ Amount	Milestone-1 (From 15th March.'21 to 1st Sep'21)		Achieved in 1st Milestone as on 30.06.2021	
			%	Amount	%	Amount
5	Hydro Testing /Finishing works	61,900.00		-		
<b>(iv)</b>	<b>Grit Chamber</b>					
1	Excavation	70,670.00		-		
2	PCC	1,76,675.00		-		
3	RCC Foundation/Raft	2,12,000.00		-		
4	wall	1,75,675.00		-		
5	Hydro Testing /Finishing works	63,600.00		-		
<b>(v)</b>	<b>Collection Chamber</b>					
1	Excavation	13,710.00		-		
2	PCC	34,273.00		-		
3	RCC Foundation/Raft	41,130.00		-		
4	wall	34,273.00		-		
5	Hydro Testing /Finishing works	12,300.00		-		
<b>E</b>	<b>EFFLUENT DISPOSAL SYSTEM</b>					
1	Site Clearance	2,50,000.00				
2	Construction of Effluent Channel	<b>25,30,620.00</b>				
<b>F</b>	<b>E&amp;M WORK</b>					
<b>i)</b>	<b>GRIT CHAMBER AREA</b>					
	A.On supply - Grit Scraper Mechanism	22,85,000.00				
	B.On Installation - Grit Scraper Mechanism					
<b>ii)</b>	<b>SLUDGE THICKENER AREA</b>					
	A.Supply - Sludge Thickener	8,80,000.00		-		
	B.Installation - Sludge Thickener					
<b>iii)</b>	<b>TRANSFORMER YARD AREA</b>					
	A.Supply - Transformer	30,25,000.00				
	B.Installation - Transformer					



Sr. No.	Description of Items	Proposed BOQ Amount	Milestone-1 (From 15th March.'21 to 1st Sep'21)		Achieved in 1st Milestone as on 30.06.2021	
			%	Amount	%	Amount
iv)	<b>DG SHED AREA</b>					
	A.Supply - DG	38,75,000.00				
	B.Installation - DG					
v)	<b>MEP</b>					
	A.Supply - Screen	41,80,000.00				
	B.Installation - Screen					
	C.Supply - Hoist	5,85,000.00				
	D.Installation - Hoist					
	E.Supply - Pumps & Motors(MEP)	86,80,000.00				
	F.Installation - Pumps & Motors(MEP)					
	G.Supply - Gates	14,30,000.00				
	H.Supply - Valves(MPS)	14,30,000.00				
	I.Installation - Gate & Valves(MPS)					
	J.Installation - Gate & Valves(MPS)					
	K.Supply Instruments(like flow meter, Guages, level, Transmitter)	17,60,000.00				
	L.Installation - Instruments(like flow meter, Guages, level, Transmitter)					
vi)	<b>INLET CHAMBER AREA</b>					
	A.Supply - Gates	11,55,000.00				
	B.Supply - Valves(STP)	11,55,000.00				
	C.Installation - Gates					
	D.Installation - Valves(STP)					
vii)	<b>FINE SCREEN AREA</b>					
	A.On supply -Fine Screen	17,60,000.00				
	B.On Installation -Fine Screen					
viii)	<b>SBR BASIN AREA</b>					

Sr. No.	Description of Items	Proposed BOQ Amount	Milestone-1 (From 15th March.'21 to 1st Sep'21)		Achieved in 1st Milestone as on 30.06.2021	
			%	Amount	%	Amount
	A..On supply - Decanter Equipment	93,15,000.00		-		
	B..Installation - Decanter Equipment					
	C.On supply - Diffuser	106,15,000.00		-		
	D.On Installation - Diffuser					
	E.On supply - RAS Pump, SAS Pump	34,70,000.00		-		
	F.On Installation - RAS Pump, SAS Pump					
	G.On supply - Chain Pulley Block	3,85,000.00		-		
	H.On Installation - Chain Pulley Block					
ix)	<b>AIR BLOWER ROOM</b>					
	A.Supply - Blower	38,00,000.00		-		
	B. Installation - Blower					
	C.Supply - Hoist Work	5,75,000.00		-		
	D.Installation - Hoist Work					
x)	<b>CHLORINATION ROOM AREA</b>					
	A.Supply - Chlorination system(Dosing pumps, chlorinators, Tonnes, Chemicals & Piping work	15,95,000.00		-		
	B. Installation - Chlorination system(Dosing pumps, chlorinators, Tonnes, Chemicals & Piping work					
	C.Supply - Chlorine Nutrilisation Tank	2,75,000.00				
	D.Installation - Chlorine Nutrilisation tank					
	E.Supply - Hoist Work	3,85,000.00				
	F.Installation - Hoist Work					
xi)	<b>CENTRIFUGE HOUSE &amp; FEED PUMP AREA</b>					
	A.On supply -Centrifuge	28,32,500.00				
	B.On supply -Centrifuge Feed Pump	28,32,500.00				
	C.On Installation -Centrifuge					
	D.On Installation -Centrifuge Feed Pump					

Sr. No.	Description of Items	Proposed BOQ Amount	Milestone-1 (From 15th March.'21 to 1st Sep'21)		Achieved in 1st Milestone as on 30.06.2021	
			%	Amount	%	Amount
xii)	<b>ADMN BUILDING AREA</b>					
	A.Supply - LT/HT Panel	46,90,000.00				
	B.Installation - LT/HT Panel					
	C.Supply - PLC/SCADA Automation	45,00,000.00				
	D.Installation - PLC/SCADA Automation					
xiii)	<b>Cable Tray &amp; Earthing work</b>					
	A.Supply - cable Tray/Earthing material	10,00,000.00				
	B.Installation - Cable Tray/Earthing material					
xiv)	<b>External Electrification (lighting &amp; Pole)</b>					
	A.Supply	10,00,000.00				
	B.Installation					
xv)	<b>TESTING OF E&amp;M EQUIPMENT FOR STP &amp; MPS</b>	76,48,000.00				
xvi)	<b>EQUIPMENT TOOLS &amp; MISC.</b>	3,70,000.00				
<b>III</b>	<b>TRIAL RUN &amp; COMMISSIONING</b>					
1	Trial Run & Commissioning					
		<b>2129,50,200.00</b>		<b>266,18,775.00</b>		<b>112,69,160.38</b>

### Summary of Shuklaganj STP Overall Progress till 30.06.2021

Milestone	Milestone Amount	Targeted Progress till 30.06.2021		
		Achieved Milestone Amount	% Target	% Achieved
1st milestone	266,18,775.0	112,69,160.38	7.90%	5.29%
2nd milestone	266,18,775.0			
3rd Milestone	266,18,775.0			
4th Milestone	266,18,775.0			
5th Milestone	266,18,775.0			
6th milestone	266,18,775.0			
7th milestone	266,18,775.0			
8th milestone	266,18,775.0			
Total	2129,50,200.0	112,69,160.4	7.90%	5.29%
<b>Overall Progress %</b>	<b>100.00%</b>		<b>7.90%</b>	<b>5.29%</b>

Photographs of Shuklaganj STP facility



Guard Room PCC Works



Sludge Thickener PCC



**Boundary Wall**

## 7. PRESENT STATUS AND ISSUES OF HAM PROJECT KANPUR

### 7.1 PANKHA 30 MLD STP FACILITIES

- Total 100-105 nos. of manpower / workers were deployed at the site. KRMPL need to increase the manpower over 200-250 as directed by the MD UPJN during site visit dated 07.06.2021 to achieve further targets / milestones on time;
- 1<sup>st</sup> and 2<sup>nd</sup> milestone have been completed;
- 3<sup>rd</sup> milestone was due on 25.01.2021 which was completed on 22.02.2021 (37.5%);
- Works of 4<sup>th</sup>, 5<sup>th</sup> & 6<sup>th</sup> milestone are in progress. Till date 50.0% progress out of target of 50.0% has been done.
- Works of sewer laying were 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 4.6 kms lines has been laid against 16.62 Kms;
- NHAI permission regarding road cutting has not received yet; necessary fees is to be submitted
- KRMPL need to expedite construction works to achieve timely completion of the project.

### 7.2 UNNAO 15 MLD STP FACILITIES

- Total 70 nos. of manpower / workers were deployed at the site. The number of workers should be increased up to 200 to achieve further targets / milestones on time.
- 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>th</sup> milestone have been completed;
- 4<sup>th</sup> milestone completion was due on dated 25.06.2021 as per revised approved construction plan (UPJN 1291/M-18/09 dated 31.05.2021). However, individual progress of 4<sup>th</sup> milestone is only 6% against the target of 12.5%. Total progress of works including works of 5<sup>th</sup> milestone till 30.06.2021 is approx 45% out of target of 53.0%.
- The land for proposed I&D works has been acquired on dated 09.06.2021 by UP Jal Nigam;
- Works of sewer laying started from MPS side. Approx 1700m sewer has been laid out of 3.2km.
- KRMPL need to expedite the works to complete the project on time.
- Entrance gates (1 main gate + 1 alternate), Internal roads, staff quarter and labour huts with all basic facilities need to be established by the Concessionaire on urgent basis.
- Number of CCTVs units need to be increased from at present 2 nos. to minimum 4 nos;
- Development of site and plantation work need to be started.

**7.3 05 MLD 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);
- Site clearance has been done on 18.01.2020;
- 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;
- Footing marking completed SBR side;
- BEP vetting and approval is in progress;
- Total Progress till 30.06.2021 against approved construction plan (UPJN no. 1379/WS-97/152 dated 09.06.2021) milestone-1 is 5.3% against target progress of 7.9%.

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

- 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.
- 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.
- Concessionaire has submitted the Advance sludge handling system on which PE has submitted their observations vide STC letter no. 859 dated 22.05.2021. Decision is pending to follow as per CPHEEO manual by KRMPL;
- A meeting was held on 01.06.2021 at the office of General Manager, Kanpur regarding Jajmau STPs. It was decided in the meeting that:
  - i. Concessionaire will rehabilitate the existing Gravity sludge thickener as per provision of the CA;
  - ii. Concessionaire to submit the cost comparison of existing and proposed mixing mechanism along with the credentials and design calculation of proposed mixing system and to reconfirm the number and arrangement of Landia mixing system required for each digester for proper mixing with a guaranteed from vendor for homogenous / effective mixing in existing 29.00m dia of primary sludge digester unit;
  - iii. The Concessionaire will furnish the sludge dewatering units as 100% standby with the operating / working capacity of max. 16 hours per day running as per CA/CPHEEO manual;
  - iv. It has been suggested to replace all DFG at site or to provide Gas Engine along with Diesel Generator of the same capacity each as installed previously ,with agreement cost. It was also directed to the Concessionaire that only gas engine are not substitute of DFG'S.
- An inspection visit was done by MD UPJN, Kanpur on 07.06.2021 at Jajmau campus. It was directed to take over / handing over the plant with rectify all defect on 20.06.2021 and decision will be taken on online monitoring system so not effect on handing over of 43 MLD STP Plant .
- Concessionaire will repair and maintain the camera and flow meter immediately.



- During visits, it was observed that partially treated sewage from STP and untreated sewage from CSPA overflowed to River Ganga through Airforce drain due to inadequate pumping. To address this issue various letters have been submitted by UPJN & PE to the Concessionaire directing to maintain plant properly and to prevent untreated sewage flow to the River Ganga.

#### **REGARDING E&M ITEMS APPROVAL:**

- Concessionaire submitted the LT PMCC Panel on which PE has submitted their observations vide STC letter no. 872 dated 02.06.2021.
- Regarding improper maintenance of plant during renovation on which PE has submitted their observations vide STC letter no. 880 dated 05.06.2021.
- Concessionaire submitted the Horizontal Centrifugal Pump for RASP & TEPH on which PE has submitted their observations vide STC letter no. 886 dated 08.06.2021.
- Concessionaire submitted the Centrifugal & Submersible Pump for IPS on which PE has submitted their observations vide STC letter no. 913 dated 16.06.2021.
- Concessionaire submitted the Submersible pump for supernatant sump on which PE has submitted their observations vide STC letter no. 916 dated 17.06.2021.
- Concessionaire submitted the Renovation Plan on which PE has submitted their observations vide STC letter no. 901 dated 14.06.2021.
- Concessionaire submitted the Data sheet & QAP of Power Cable on which PE has submitted their recommendation vide STC letter no. 912 dated 15.06.2021.
- Concessionaire submitted the pump drawing & documents on which PE has submitted their observations vide STC letter no. 902 dated 11.06.2021.
- Concessionaire submitted the Battery & Battery charger on which PE has submitted their observations vide STC letter no. 927 dated 21.06.2021.

#### **RENOVATION PLAN**

- Concessionaire submitted the Renovation Plan on which PE has submitted their observations vide STC letter no. 931A dated 22.06.2021 (plan approved vide GM UPJN letter no. 1632/W-30/57 dated 24.06.2021).

#### **BIOREMEDIATION PLAN**

- Regarding Bioremediation, in reference of KRMPL letter no. 1188-A & 1191 ,1244 dated 22.04.2021 & 23.04.2021 and 12.05.2021, PE submitted its observation letter vide STC letter no. 941 dated 28.06.2021 and recommended for implementation at 130 MLD STP at Jajmau during renovation period.
- As per meeting held on 29.06.2021 at office of General Manager, GPCU, Kanpur, GM UPJN directed to submit renovation strategy daily / weekly;
- As per meeting held on 29.06.2021 at office of General Manager, Kanpur UPJN agreed to consider belt filter press in place of centrifuge at their own cost as per provision of CA / CPHEEO manual.

## 7.5 43 MLD JAJMAU PHASE II

- Handover of 43 MLD STP & related IPSs are pending, as KRMPL has issues regarding:
  - i. **Separate CODs for 130 MLD and 43 MLD plants** - This issue has been sent to NMCG for further direction.
  - ii. **Deficiencies / Issues to be addressed by UPJN** - Issue has been discussed with KRMPL and UPJN. Joint inspection of the plant to resolve the issues for Takeover / Handover of the plant is already in the process. UPJN has rectified the major issues and has been ready to handover the plant.
- 43 MLD STP plant should be taken immediately on the basis of CA para 3.8 a) “as is where is” basis.

## 7.6 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**

PE inspected 42 MLD STP Sajari on 27.04.2021 and issued inspection note on 13.05.2021 (Inspection report enclosed). Compliance reports of inspection done on 27.04.2021 have been submitted by KRMPL. PE/MD UPJN inspected 42 MLD STP Sajari on 07.06.2021 and issued inspection note on 23.06.2021 (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 June- 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, 09.05.2021 and 26.06.2021 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 programmes for the 2nd year vide letter no.1135 dated 06.04.2021.PE commented on schedule maintenance programmes -2nd year vide letter no.788 dated 12.04.2021.KRMPL has submitted compliance report on schedule maintenance programs -2nd year vide letter no.1266 dated 20.05.2021.

PE/UPJN instructed KRMPL to resubmit revised schedule maintenance program for year-2 for Sajari facilities incorporating the comments of PE vide letter no. UPJN /1489/w-20/102 dated 09.06.2021 and start the works of schedule maintenance by taking shut down of one stream altogether. KRMPL has been operating only one stream from 22.06.2021 with the condition that aerators run on 31 Amp.

#### **xii. KPIs Adherence Report**

KPIs Adherence Report for the month of May-2021 has been submitted by PE vide letter no.936 dated 24.06.2021. Online Analyser report up to January month has been submitted by concessionaire.

#### **7.7 210 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 12.11.2020, 02.01.2021 & 02.02.2021 and issued inspection reports on 21st November 2020, 19th January 2021 & 4th February 2021. Compliance reports of inspection reports of 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.

PE/MD UPJN Inspection done at 210 MLD Bingawan STP on 07.06.2021 and issued inspection report on 23.06.2021. Compliance reports of inspection done on 07.06.2021

have been submitted by KRMPL. PE/ CE UPJN Inspection done at 210 MLD Bingawan STP on 15.06.2021 and issued inspection report on 23.06.2021. Compliance reports of inspection done on 15.06.2021 have not been submitted by KRMPL.

23.06.2021. Compliance reports of inspection done on 15.06.2021 have not 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 June 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 June 2021. Out of 16 reactor 5 nos UASB reactor (reactor no. 1,2,3, 4 & 8) have been cleaned and refilled for reactivation but sludge blanket still not formed. Reactor 5 &6 has been taken up for cleaning from 02.04.2021 but not completed yet. Remaining 09 reactors are filled with sludge. The action plan of cleaning for reactors is 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, 09.05.2021 and 26.06.2021 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. Gas holder painting works ongoing but painting Procedure has not been submitted by KRMPL.

**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 May-2021 submitted by PE ,based on the lab results for the month of May-2021 (which seems to be reliable) are submitted by PE vide letter no. 937 dated 25.06.2021.

## 8. STATUS OF BEP & OTHER DETAILS

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

**Table 8.1: BEPs and Design & Drawings detail**

SN	STP Facility	Status / Remarks				
		BEPs	Structure Design & Drawings	Power Network	Construction Plan	O&M
<b>A Sewerage Treatment Plant Facilities</b>						
i	30 MLD STP - Pankha	Approved	All Approved	Approved	Revised CP (R2) vetted by PE letter no. 832/13.05.2021. Approved by UPJN	-
ii	15 MLD STP - Unnao	Approved	All Approved except I&D	Approved	Revised CP vetted by PE letter no. 826A/10.05.2021. Approved by UPJN letter vide no. 1291/M-18/09 dated 31.05.2021.	-
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. Approved by UPJN letter vide no. 1379/WS-97/152 dated 09.06.2021	-
<b>B Rehabilitation and O&amp;M for 15 years</b>						
i	130 MLD STP - Jajmau (Phase I)	Approved except Control philosophy	GA & RCC design & drawing of CCT & TEPH is approved	-	The Concessionaire has submitted renovation plan on dated 28.05.2021. Approved by UPJN letter no. 1632/W-30/57 dated 24.06.2021 after rectification by KRMPL and STC is recommendation vide letter no. 931A dated 22.06.2021	-
SN	STP Facility	O&M Manual		Schedule Maintenance Programme		Remarks
<b>C O&amp;M for 15 years</b>						
i	43 MLD STP - Jajmau (Phase II)	-		-		Handover pending
ii	42 MLD STP - Sajari	Approved		PE/UPJN instructed KRMPL to resubmit revised schedule maintenance program for year-2 for Sajari facilities incorporating the comments of PE vide letter no. UPJN /1489/w-20/102 dated 09.06.2021		-
iii	210 MLD STP - Bingawan	Approved		Schedule maintenance works are to be started after the plant is fully operational.		-

# **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)
01.06.2021	Submission of hard copy of Monthly Activity Report of Bingawan and Sajari STP for the month of April-2021.	-	01.06.2021 S-867	-	20	-	-	J.P.Tripathi Dr. Giridhar Satendra Vikas Ajay Mahendra Pankaj	1+1+1+1+1 +1+1	-	-	-	Requested UPJN to direct KRMPL to submit the hard copy of documents
01.06.2021	Regarding dispatch Clearance for Submersible Pumps (1 <sup>st</sup> lot) for 15 MLD STP Unnao.	29.05.21 K-email J-email	01.06.2021 S-868	3	20	-	-	C.M.Dimri A.K.Seth Priyesh Ajay Kapil Mahendra	1+1+1+1+1 +1	-	-	-	Review and submit our comment
01.06.2021	Commented on GA & Technical data Sheet along with QAP for Submersible pumps and Coarse screen, Fine screen & Belt conveyor system for 5	27.05.21 J-email 14.05.21 K-1245	01.06.2021 S-870	4	20	-	-	Dr. Giridhar Priyesh Ajay Rahul Kapil	1+1+1+1+1	-	-	-	Requested UPJN to direct KRMPL to submit the compliance of our comment

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	MLD STP Shuklaganj.												
02.06.2021	Recommendation for Approval of GA & Data sheet along with QAP of Mechanical equipments mentioned below for 5 MLD STP Shuklaganj.	27.05.21 J-email 14.05.21 K-1245	02.06.2021 S-871	5	20	-	-	C.M.Dimri Dr. Giridhar Priyesh Satendra Ajay Kapil Mahendra	1+1+1+1+1 +1+1	-	-	-	Recommended for approval
02.06.2021	Submission of GA, Data sheet, SLD, BOM, Wiring Diagram & QAP of LT PMCC Panel, APFC Panel & LPBS for 130 MLD STP Jajmau.	25.05.21 K-1274	02.06.2021 S-872	8	20	-	-	Dr. Giridhar A.K.Seth Vikas Ajay Pankaj Rahul	1+1+1+1+1 +1	-	-	-	Requested UPJN to direct KRMPL to submit the compliance of our comment.
03.06.2021	Submission of Overall Single Line Diagram for IPS Sundar Nagar & ICI	31.05.21 J- 1046/W- 50/76	03.06.2021 S-874	03	20	-	-	Dr. Giridhar A.K.Seth kapil Satendra Priyesh Vikas	1+1+1+1+1 +1+1+1+1+ 1	-	-	-	Recommended for approval.

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	Nallah at 30 MLD STP Pankha.							Pankaj Ajay Rahul Mahendra					
03.06.2021	Regarding painting procedure and approved vendor.	-	03.06.2021 S-875	-	20	-	-	Dr. Giridhar Preetam Rahul Kapil Mahendra	1+1+1+1+1	-	-	-	Requested UPJN to direct KRMPL to Submit the painting procedure and full details.
04.06.2021	Comments on GA & Technical data sheet along with QAP for Agitator for 5 MLD STP Shuklaganj.	27.05.21 J-email K-1245	04.06.2021 S-876	08	20	-	-	Dr. Giridhar Satendra Priyesh Rahul Ajay Kapil Mahendra	1+1+1+1+1 +1+1	-	-	-	Requested UPJN to direct KRMPL to submit the compliance on the said observations.
04.06.2021	Submission of lightning protection layout of buildings at 30 MLD Pankha.	20.05.21 K-1259	04.06.2021 S-877	15	20	-	-	A.K.Seth Satendra Pankaj Vikas Ajay Rahul Mahendra	1+1+1+1+1 +1+1	-	-	-	Review and submit our comment.

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
04.06.2021	Submission of lightning protection layout of buildings at 15 MLD Unnao.	27.05.21 J-email 18.05.21 K-1253	04.06.2021 S-878	08	20	-	-	A.K.Seth Priyesh Vikas Ajay Kapil Rahul	1+1+1+1+1 +1	-	-	-	Review and submit our comment.
04.06.2021	Recommendation for Approval of GA & data sheet along with QAP of Mechanical equipments mentioned below for 05 MLD STP Shuklaganj.	27.05.21 J-email 14.05.21 K-1245	04.06.2021 S-879	08	20	-	-	C.M.Dimri Dr. Giridhar Preetam Priyesh Ajay Pankaj Kapil Rahul Mahendra	1+1+1+1+1 +1+1+1+1	-	-	-	Recommended for approval
05.06.2021	Regarding violation of the CA and improper maintenance of the plant during Renovation at 130 MLD STP Jajmau.	02.06.21 J- 1052/W- 3/69	05.06.2021 S-880	03	20	-	-	C.M.Dimri J.P.Tripathi Satendra Pankaj Vikas Ajay Rahul Mahendra	1+1+1+1+1 +1+1+1	-	-	-	Comments on the improper maintenance of the plant.

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
05.06.2021	Design Mix Concrete for 05 MLD STP Shuklaganj.	02.06.21 K-1316	05.06.2021 S-881	03	20	-	-	C.M.Dimri Dr. Giridhar Sunil Vikas Kapil Mahendra	1+1+1+1+1 +1	-	-	-	Recommended for approval subjected for some conditions
05.06.2021	3 <sup>rd</sup> Milestone completion certificate for 15 MLD STP Unnao.	02.06.21 K-1315	05.06.2021 S-882	03	20	-	-	C.M.Dimri Dr. Giridhar Priyesh Kapil	1+1+1+1	-	-	-	Recommended for approval.
05.06.2021	Submission of revised construction plan for 05 MLD Shuklaganj facilities.		05.06.2021 S-883	-	20	-	-	C.M.Dimri Dr. Giridhar A.K.Seth Priyesh Pankaj Ajay Kapil	1+1+1+1+1 +1+1	-	-	-	Recommended for approval
05.06.2021	Applicable Safety Protocol and Implementation of them at all STP sites.		05.06.2021 S-885	-	20	-	-	C.M.Dimri Dr. Giridhar Priyesh Pankaj Ajay Rahul Kapil Mahendra	1+1+1+1+1 +1+1+1	-	-	-	Requested UPJN to direct KRMPL to follow & Implementation as per CA.
06.06.2021	Sunday												

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1													
07.06.2021	Regarding dispatch clearance for submersible Pumps (1 <sup>st</sup> lot) for 15 MLD STP Unnao.	03.06.21 J-email	07.06.2021 1 S-884	04	20	-	-	C.M.Dimri Dr. Giridhar A.K.Seth Satendra Sunil Priyesh Pankaj Vikas Ajay Rahul Kapil Mahendra	1+1+1+1+1 +1+1+1+1+1 +1+1+1	-	-	-	Review and submit our comment
08.06.2021	Comments on Horizontal Centrifugal Pump for RASP & TEPH at 130 MLD STP Jajmau	01.06.21 K-1310	08.06.2021 1 S-886	07	20	-	-	J.P.Tripathi Sunil Prasoon Vikas Ajay Rahul Mahendra	1+1+1+1+1 +1+1	-	-	-	Requested UPJN to directed KRMPL to comply on the said points.
08.06.2021	Recommendation for Approval of GA & data sheet along with QAP of Decanter diffuser for 05 MLD STP	27.05.21 J-email 14.05.21 K-1245	08.06.2021 1 S-887	12	20	-	-	Dr. Giridhar A.K.Seth Priyesh Pankaj Ajay Rahul Kapil	1+1+1+1+1 +1+1	-	-	-	Recommended for approval.

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	Shuklaganj.												
08.06.2021	Submission of design drawing for SBR at 05 MLD STP Shuklaganj.	-	08.06.2021 S-888	-	20	-	-	C.M.Dimri Dr. Giridhar A.K.Seth Satendra Priyesh Pankaj Vikas Ajay Rahul Kapil	1+1+1+1+1 +1+1+1+1+1 1+1	-	-	-	Requested UPJN to directed KRMPPL to comply on our Observation.
08.06.2021	Recommendation for Approval of Piping GAD for IPS at ICI Nalla & Sundar Nagar for 30 MLD STP Pankha.	21.05.21 J-email	08.06.2021 S-889	18	20	-	-	C.M.Dimri J.P.Tripathi Dr. Giridhar Satendra Ajay Rahul Mahendra	1+1+1+1+1 +1+1	-	-	-	Recommended for approval.
08.06.2021	Non availability of Bingawan STP since Feb-2021.	K-1203 J-928/w-37/68	08.06.2021 S-890	-	20	-	-	J.P.Tripathi Pankaj Ajay	1+1+1	-	-	-	Reviewed and submit the compliance report.
09.06.2021	Recommendation	-	09.06.2021	-	20	-	-	C.M.Dimri	1+1+1+1+1	-	-	-	Reviewed and

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1	on for Approval of GA, Technical data sheet & QAP of Submersible pump for IPS at ICI Nalla & Sundar Nagar for 30 MLD STP Pankha.		1 S-891					A.K.Seth Preetam Sunil Prasoon Satendra Vikas Pankaj Ajay Rahul Mahendra	+1+1+1+1+1+1				recommended for approval.
09.06.2021	Regarding review of TPI (SGS) report for submersible pumps (1 <sup>st</sup> lot) for 15 MLD Unnao.	29.05.21 K-email J-email	09.06.2021 1 S-892	11	20	-	-	C.M.Dimri Dr. Giridhar Priyesh Pankaj Ajay Kapil	1+1+1+1+1+1+1	-	-	-	Reviewed and submit the compliance report.
10.06.2021	Recommendation for Approval of GA & Technical data sheet along with QAP for Agitator for 5 MLD STP Shuklaganj.	07.06.21 K-1332 08.06.21 J-email	10.06.2021 1 S-893	02	20	-	-	C.M.Dimri Dr. Giridhar A.K.Seth Preetam Prasoon Satendra Priyesh Sunil Pankaj Vikas Ajay	1+1+1+1+1+1+1+1+1+1+1	-	-	-	Recommended for approval.



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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
								Rahul Kapil Mahendra					
11.06.2021	Comments on QAP for DI pipes & Fittings for Pankha facilities.	05.06.21 K-1330	11.06.2021 S-894	06	20	-	-	C.M.Dimri Dr. Giridhar Satendra Sunil Ajay Rahul	1+1+1+1+1 +1	-	-	-	Reviewed and submit the compliance report.
11.06.2021	Comments on GA & Technical data sheet along with QAP for Sluice gate for 5 MLD STP Shuklaganj.	31.05.21 K-1306 J-email	11.06.2021 S-896	11	20	-	-	C.M.Dimri Dr. Giridhar Priyesh Rahul Ajay Kapil	1+1+1+1+1 +1	-	-	-	Requested UPJN to direct KRMPL to comply on the said points.
11.06.2021	Recommendation for Approval of QAP for DI pipes & Fittings for 30 MLD STP Pankha.	05.06.21 K-1330	11.06.2021 S-897	06	20	-	-	C.M.Dimri Dr. Giridhar Sunil Satendra Rahul Mahendra	1+1+1+1+1 +1	-	-	-	Recommended for approval.
11.06.2021	Regarding the RTLOMS and DG set for 43 MLD STP Jajmau.	03.06.21 J-898/w-34/14	11.06.2021 S-898	08	20	-	-	J.P.Tripathi A.K.Seth Vikas Rahul	1+1+1+1	-	-	-	Requested UPJN to direct KRMPL do necessary action.

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
11.06.2021	Submission of design drawing for staff quarters at 05 MLD STP Shuklaganj.	-	11.06.21 S-899	-	20	-	-	C.M.Dimri A.K.Seth Preetam Satendra Priyesh Pankaj Vikas Ajay Rahul Kapil Mahendra	1+1+1+1+1 +1+1+1+1+1	-	-	-	Vetted and recommended for approval with the conditions.
11.06.2021	Submission of design drawing for SBR at 05 MLD STP Shuklaganj.	-	11.06.2021 S-900	-	20	-	-	C.M.Dimri Dr. Giridhar Priyesh Rahul Kapil	1+1+1+1+1	-	-	-	Vetted and recommended for approval with the conditions
11.06.2021	Comments on pump drawing & documents for your information for IPS Nawabganj, IPS Guptar ghat, IPS Baba ghat & CSPS(under 130 MLD STP Jajmau)	08.06.21 J-1067/w-3/70	11.06.2021 S-902	03	20	-	-	C.M.Dimri J.P.Tripathi Satendra Pankaj Vikas Ajay	1+1+1+1+1 +1	-	-	-	Reviewed and submit our comments.
12.06.2021	Recommendati	12.06.21	-	-	20	-	-	C.M.Dimri	1+1+1+1+1	-	-	-	Under Review.

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1	on for Approval of QAP for DI pipe & Fitting for 30 MLD STP Pankha.	K-1336						Dr. Giridhar A.K.Seth Satendra Priyesh Pankaj Vikas Ajay Rahul Kapil Mahendra	+1+1+1+1+1+1				
13.06.2021	Sunday												
14.06.2021	Observation on submission of Renovation Plan for 130 MLD STP Jajmau.	28.05.21 K-1297	14.06.2021 S-901	17	20	-	-	C.M.Dimri J.P.Tripathi Pankaj Rahul Kapil Mahendra	1+1+1+1+1+1	-	-	-	Reviewed and submit the observations.
14.06.2021	Submission of Structural drawing for CCT and Chlorination Building at 05 MLD STP Shuklaganj.	11.06.21 J-1402/w.s -97/155	14.06.2021 S-903	03	20	-	-	C.M.Dimri J.P.Tripathi Priyesh Pankaj Vikas Ajay Kapil Mahendra	1+1+1+1+1+1+1	-	-	-	Requested UPJN to direct KRMPL to comply on the said points & correction in drawings.
14.06.2021	Insurances during	10.06.21 J-	14.06.2021 S-904	04	20	-	-	J.P.Tripathi Satendra	1+1+1+1+1+1+1	-	-	-	Reviewed and submit the

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	construction and O&M period under Article 11.2	1495/w-37/89						Priyesh Pankaj Vikas Ajay Rahul					comments.
14.06.2021	Comments on QAP for DI pipes & fittings for Pankha facilities.	12.06.21 K-1356	14.06.2021 S-905	02	20	-	-	C.M.Dimri Sunil A.K.Seth Satendra Vikas Rahul Mahendra	1+1+1+1+1 +1+1	-	-	-	Requested KRMPL to direct KRMPL to provide as required.
14.06.2021	Recommendation for Approval of QAP for DI pipe & Fitting for 15 MLD STP Unnao.	05.06.21 K-1331	14.06.2021 S-906	09	20	-	-	Dr. Giridhar Satendra Priyesh Pankaj Ajay Kapil Rahul	1+1+1+1+1 +1+1	-	-	-	Vetted and recommended for approval.
14.06.2021	Comments on QAP for DI pipes & fittings for Unnao facilities.	05.06.21 K-1331	14.06.2021 S-907	09	20	-	-	C.M.Dimri Dr. Giridhar Priyesh Vikas Ajay	1+1+1+1+1	-	-	-	Requested KRMPL to direct KRMPL to provide as required.
15.06.2021	Approval of Sub-contracting of O&M of Bingawan,	10.06.21 J-1499/w-49/22	15.06.2021 S-909	05	20	-	-	J.P.Tripathi A.K.Seth Vikas Rahul	1+1+1+1+1	-	-	-	Reviewed and submit the observations.

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	Sajari and Jajmau STPs.							Mahendra					
15.06.2021	Submission of Data sheet & QAP for power cable for 130 MLD STP Jajmau.	28.05.21 K-1293	15.06.2021 S-912	18	20	-	-	C.M.Dimri J.P.Tripathi Dr. Giridhar Satendra Sunil Priyesh Pankaj Vikas Rahul Ajay Kapil	1+1+1+1+1 +1+1+1+1+1 1+1	-	-	-	Recommended for approval with the conditions.
16.06.2021	Submission of various electrical Documents for IPS ICI Nalla at 30 MLD Pankha.	12.06.21 K-1358	16.06.2021 S-908	04	20	-	-	C.M.Dimri Dr. Giridhar Satendra Pankaj Ajay Rahul Mahendra	1+1+1+1+1 +1+1	-	-	-	Requested UPJN to direct KRMPL to Submit the various electrical documents.
16.06.2021	Submission of GA, Data Sheet, SLD, BOM and Wiring Diagram & QAP for 11 KVA VCB Panel for 05 MLD STP Shuklaganj.	02.06.21 K-1319	16.06.2021 S-910	14	20	-	-	C.M.Dimri Dr. Giridhar A.K.Seth Priyesh Pankaj Vikas Ajay Rahul	1+1+1+1+1 +1+1+1+1+1 1	-	-	-	Requested UPJN to direct KRMPL to Submit the compliance for said observations.

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
								Kapil Mahendra					
16.06.2021	Painting of Gas Holder at Bingawan Facilities.	10.06.21 J-1495/w-37/90	16.06.2021 S-911	06	20	-	-	J.P.Tripathi Dr. Giridhar Vikas Ajay Pankaj	1+1+1+1+1	-	-	-	Requested UPJN to direct KRMPL to take approval as per CA.
16.06.2021	Submission of Centrifugal & Submersible pump for IPS at 130 MLD Jajmau.	14.06.21 K-1361	16.06.2021 S-913	02	20	-	-	C.M.Dimri J.P.Tripathi Dr. Giridhar Sunil A.K.Seth Satendra Pankaj Vikas Rahul Mahendra	1+1+1+1+1 +1+1+1+1+1	-	-	-	Requested UPJN to direct KRMPL to Submit the compliance report.
17.06.2021	To provide applicable permits for the all existing facilities.	16.06.21 K-1371	17.06.2021 S-914	01	20	-	-	C.M.Dimri J.P.Tripathi Dr. Giridhar Satendra A.K.Seth Vikas Ajay Rahul	1+1+1+1+1 +1+1+1	-	-	-	Reviewed and submit the Comments.
17.06.2021	Comments on GA, Data sheet & QAP of Screen for I&D	28.05.21 K-1295	17.06.2021 S-915	20	20	-	-	Dr. Giridhar Priyesh Pankaj Vikas	1+1+1+1+1 +1	-	-	-	Requested UPJN to direct KRMPL to Submit the comply.

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	work at 15 MLD STP Unnao & 5 MLD STP Shuklaganj.							Ajay Kapil					
17.06.2021	Comments on Submersible pump for supernatant sump for 130 MLD STP Jajmau.	09.06.21 K-1348	17.06.2021 S-916	08	20	-	-	C.M.Dimri J.P.Tripathi A.K.Seth Satendra Pankaj Vikas Rahul	1+1+1+1+1+1+1	-	-	-	Requested UPJN to direct KRMPL to Submit the comply.
18.06.2021	Submission of Load list & SLD for the 15 MLD Unnao facilities.	09.06.21 K-1343 J-email	18.06.2021 S-917	09	20	-	-	Dr. Giridhar A.K.Seth Satish Sunil Satendra Priyesh Pankaj Vikas Rahul Ajay Kapil	1+1+1+1+1+1+1+1+1	-	-	-	Requested UPJN to direct KRMPL to Submit the comply.
19.06.2021	Comments on GA, Datasheet & QAP of Sluice gate for IPS, MPS & 30 MLD STP Pankha.	K-1255	19.06.2021 S-918	-	20	-	-	C.M.Dimri Dr. Giridhar Satendra Ajay Rahul	1+1+1+1+1	-	-	-	Requested UPJN to direct KRMPL to Submit the 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)
19.06.2021	Comments on GA, Datasheet, QAP of Sluice gate (I&D, MPS & STP) for 15 MLD STP Unnao.	31.05.21 K-1308	19.06.2021 S-919	19	20	-	-	C.M.Dimri Dr. Giridhar Priyesh Pankaj Ajay Rahul Kapil	1+1+1+1+1 +1+1	-	-	-	Requested UPJN to direct KRMLP to Submit the comply.
19.06.2021	Compliance of Unnao STP outlet disposal line layout with civil GA of Shaft and Manhole.	-	19.06.2021 S-920	-	20	-	-	C.M.Dimri Dr. Giridhar Satendra Priyesh Rahul	1+1+1+1+1	-	-	-	Reviewed and submit the Comments.
19.06.2021	Compliance of Shuklaganj STP outlet disposal line layout with civil GA of Shaft and Manhole.	05.06.21 K-1329	19.06.2021 S-921	14	20	-	-	C.M.Dimri J.P.Tripathi Dr. Giridhar Satendra Priyesh Pankaj Kapil	1+1+1+1+1 +1+1	-	-	-	Reviewed and submit the Comments.
20.06.2021	Sunday												
21.06.2021	Submission of GAD for I&D work and Process calculation at 05 MLD STP	15.06.21 J-1431/w-s-97/161	21.06.2021 S-922	06	20	-	-	C.M.Dimri Dr. Giridhar Sunil Priyesh Pankaj Ajay	1+1+1+1+1 +1+1+1	-	-	-	Reviewed and submit the Comments.



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.							Rahul Kapil					
21.06.2021	Comments on compliance report for sluice gate at 05 MLD STP Shuklaganj.	12.06.21 K-1354	21.06.2021 S-923	09	20	-	-	C.M.Dimri Dr. Giridhar Satendra Priyesh Pankaj Ajay Rahul Kapil	1+1+1+1+1 +1+1+1	-	-	-	Requested UPJN to direct KRMPL to Submit the comply.
21.06.2021	Submission of RCC design and drawing for Centrifuge Building at 5 MLD STP Shuklaganj.	15.06.21 K-email	21.06.2021 S-924	-	20	-	-	C.M.Dimri Dr. Giridhar Pankaj Ajay Rahul Kapil	1+1+1+1+1 +1	-	-	-	Reviewed and submit the Observation.
21.06.2021	Submission of centrifugal & Submersible pump for IPS at 130 MLD STP Jajmau.	17.06.21 J-1219/w-3/88	21.06.2021 S-925	04	20	-	-	C.M.Dimri J.P.Tripathi Dr. Giridhar Satendra Ajay Rahul	1+1+1+1+1 +1	-	-	-	Requested UPJN to direct KRMPL to Submit the compliance report.
21.06.2021	Submission of GA, Datasheet, BOM, Wiring Diagram & QAP of Battery and	15.06.21 K-1364	21.06.2021 S-926	06	20	-	-	Dr. Giridhar Satendra Priyesh Rahul Ajay	1+1+1+1+1 +1	-	-	-	Requested UPJN to direct KRMPL to Submit the drawing and datasheet.

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)
	Battery Charger for 15 MLD STP Unnao & 05 MLD Shuklaganj.							Kapil					
21.06.2021	Submission of GA, Datasheet, BOM, Wiring Diagram & QAP of Battery and Battery Charger for 30 MLD STP Pankha & 130 MLD Jajmau.	17.06.21 J-1218/w-3/87	21.06.2021 S-927	04	20	-	-	C.M.Dimri Dr. Giridhar Satendra Pankaj Ajay Rahul	1+1+1+1+1+1	-	-	-	Requested UPJN to direct KRMPL to Submit the drawing and datasheet
21.06.2021	Payment for O&M Charges before at Effective date of Contract for Bingawan Facilities.	19.06.21 J-1568/w-37/117	21.06.2021 S-928	02	20	-	-	J.P.Tripathi Satendra Pankaj Ajay	1+1+1+1	-	-	-	Reviewed and submit the Comments.
21.06.2021	Allow SPCPL to buy out the shares held by SSG Infratech Private Limited.	18.06.21 K-1378	21.06.2021 S-929	03	20	-	-	C.M.Dimri J.P.Tripathi Dr. Giridhar Satendra Priyesh Pankaj Ajay	1+1+1+1+1+1+1	-	-	-	Reviewed and submit the Comments.

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)
22.06.2021	Recommendation for Approval of QAP for DI pipes & Fittings (Sri Kalahasthi & Electro steel castings) for 30 MLD STP Pankha.	19.06.21 K-1382	22.06.2021 S-930	03	20	-	-	Dr. Giridhar Satendra Pankaj Ajay Rahul Kapil	1+1+1+1+1+1	-	-		Recommended for approval.
22.06.2021	Submission of Revised Billing Schedule/ Renovation/ Construction plan for 130 MLD Jajmau facilities.	28.05.21 K-1297	22.06.2021 S-931 14.06.2021 S-901	-	20	-	-	C.M.Dimri J.P.Tripathi Prasoon Priyesh Pankaj Rahul Ajay	1+1+1+1+1+1+1	-	-	-	Vetted and recommended for approval.
22.06.2021	Recommendation for Approval of QAP for DI pipes & Fittings (Sri Kalahasthi & Electro steel castings) for Unnao Facilities.	19.06.21 K-1383	22.06.2021 S-932	03	20	-	-	C.M.Dimri Dr. Giridhar Satendra Priyesh Pankaj Ajay Rahul	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)
23.06.2021	Recommendation for Approval of Piping GA drawing for 05 MLD STP Shuklaganj	K-1245	23.06.2021 S-933	-	20	-	-	C.M.Dimri Dr. Giridhar Priyesh Pankaj Kapil	1+1+1+1+1	-	-	-	Recommended for approval.
23.06.2021	Action required on various critical/pending issues.	-	23.06.2021 S-934	-	20	-	-	C.M.Dimri J.P.Tripathi Dr. Giridhar Prasoon Satendra Priyesh Pankaj Ajay Rahul Kapil	1+1+1+1+1 +1+1+1+1+1	-	-	-	As per your direction prepare the various critical issues.
24.06.2021	KPIs Adherence Report of Sajari for the month of May-2021	16.06.21 K-1372	24.06.2021 S-936	08	20	-	-	J.P.Tripathi Prasoon Satendra Priyesh Pankaj Ajay Rahul Kapil	1+1+1+1+1 +1+1+1	-	-	-	KPI adherence report has been prepared and submitted for the month of May 2021
25.06.2021	Submission of GA, Datasheet, & QAP of Cable Tray for 30	21.06.21 K-1396	25.06.2021 S-935	04	20	-	-	C.M.Dimri Dr. Giridhar Prasoon Satendra	1+1+1+1+1 +1+1+1	-	-	-	Requested UPJN to direct KRMPL to Submit the drawing and

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment )	No. of day taken	Time as per contract (days)	Delay if any (No. of days ) [7=6 -5]	Reason for delay*	Key Personnel deployed	Man-days of each Key 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)
	MLD STP Pankha.							Priyesh Rahul Ajay Kapil					datasheet.
25.06.2021	KPIs Adherence Report of Bingawan for the month of May-2021	17.06.21 K-1373	25.06.2021 S-937	08	20	-	-	J.P.Tripathi Pankaj Ajay Rahul	1+1+1+1	-	-	-	KPI adherence report has been prepared and submitted for the month of May 2021
26.06.2021	Shuklaganj STP site inspection Report of dated 24.06.2021.	-	26.06.2021 S-938	-	20	-	-	C.M.Dimri J.P.Tripathi Dr. Giridhar Priyesh Pankaj Ajay Kapil	1+1+1+1+1 +1+1	-	-	-	Inspection report Submitted by PE.
26.06.2021	Submission of GA Drawing for Panel Cum office room at ICI Nalla for 30 MLD STP Pankha.	19.06.21 K-1386	26.06.2021 S-939	07	20	-	-	C.M.Dimri Dr. Giridhar Satendra Pankaj Rahul Ajay	1+1+1+1+1 +1	-	-	-	Requested UPJN to direct KRMPPL to Submit the approved copy of related document.
27.06.2021	<b>SUNDAY</b>												
28.06.2021	Unnao STP site inspection	-	28.06.2021 S-940	-	20	-	-	C.M.Dimri J.P.Tripathi	1+1+1+1+1 +1+1	-	-	-	Inspection report Submitted by PE

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)
	Report of dated 24 <sup>th</sup> & 25 <sup>th</sup> June, 2021.							Dr. Giridhar Satendra Priyesh Pankaj Kapil					
28.06.2021	Bioremediation for 130 MLD STP at Jajmau – Comparison Statement on Quotation received	K-1244	28.06.2021 S-941	-	20	-	-	J.P.Tripathi Dr. Giridhar Satendra Priyesh Pankaj Ajay Rahul	1+1+1+1+1+1+1	-	-	-	Review of comparison statement quotation on bioremediation.
28.06.2021	Delay in power Generation from Bio gas at Sajari facilities.	K-1313	28.06.2021 S-942	-	20	-	-	J.P.Tripathi Pankaj Ajay Rahul	1+1+1+1	-	-	-	Reviewed and submit the Comments.
28.06.2021	Regarding submission of procedure for fabrication/ welding/ erection/ dismantling works as per CA, sub section –C9(Technical specification for fabrication	-	28.06.2021 S-943	-	20	-	-	C.M.Dimri J.P.Tripathi Sunil Linga Rao Pankaj Ajay Kapil	1+1+1+1+1+1+1	-	-	-	Requested UPJN to direct KRMPPL to take approval as per CA and start the work.

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)
	and erection of structural steel works) for renovation at 130 MLD STP Jajmau.												
29.06.2021	GA, Technical Datasheet & QAP Screen & Belt Conveyor System for 05 MLD STP Shuklaganj.	-	-	-	20	-	-	C.M.Dimri Dr. Giridhar Prasoon Satendra LingaRao Priyesh Pankaj Ajay Rahul Kapil	1+1+1+1+1 +1+1+1+1+1	-	-	-	Under review.
30.06.2021	Regarding approved vendors / submission of procedure for painting works, as per CA Schedule 11, Sub section – C8: Technical specification for painting,	-	30.06.2021 S-944	-	20	-	-	C.M.Dimri J.P.Tripathi Dr. Giridhar Prasoon Satendra Linga rao Priyesh Pankaj Ajay Rahul	1+1+1+1+1 +1+1+1+1+1	-	-	-	Requested UPJN to direct KRMPPL to Submit the said subject.

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)
	white washing, etc. for renovation at 130 MLD STP Jajmau.												
30.06.2021	Recommendation for Approval of GA & data sheet along with QAP of Various Mechanical equipments mentioned below for 05 MLD STP Shuklaganj.	26.06.21 K-1417	30.06.2021 S-945	04	20	-	-	J.P.Tripathi Dr. Giridhar Satendra Pankaj Ajay Rahul Kapil	1+1+1+1+1+1+1	-	-	-	Vetted and recommended for approval.



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

SN	Name	Designation	Total Man-days	Input
1.	Dr. Giri Prabhu Kumar	Team Leader cum waste water expert	30	Timesheet attached
2.	Mr. Chandra Mauleshwar Dimri	Senior Civil Engineer	30	Timesheet attached
3.	Mr. Jai Prakash Tripathi	O&M Engineer	30	Timesheet attached
4.	Mr. Anil Kumar Seth	Senior Electrical Engineer	18	Timesheet attached
5.	Mr. Satish kamaraju PE	Senior Process Engineer	01	Timesheet attached
6.	Mr. Sunil Basutkar	Senior Mechanical Engineer	13	Timesheet attached
7.	Mr. Prasoon Bhardwaj	Instrumentation Engineer	08	Timesheet attached
8.	Mr. Preetam Walunjkar	Senior Structure Engineer	05	Timesheet attached
9.	Mr. Linga Krishna Rao	Safety expert	03	Timesheet attached

## Annexure 2: Timesheets of Experts


**Dr. Giridhar Prabhukumar (Team Leader)**

Project Engineer		Shah Technical Consultants Pvt. Limit
<b>NMCG-STP Projects at Kanpur under Hybrid Annuity based PPP Mode</b>		
<b>Daily Report</b>		
Name : Giridhar Prabhukumar		Month/Year: Jun-21
Position: Team Leader & Wastewater Expert		
Date	Description	Location
1	Meeting and discussion with GM, UPJN and KRMPL regarding pending issues at Jajmau 130 MLD (Phase 1)	WFH
2	Letter issued regarding scheduled maintenance for Sajari to GM, UPJN; Prepared and issued status report of Shuklagank, Unnao & Pankha to Mr. Rajat, NMCG	WFH
3	Letter issued regarding non-compliance of Painting for Gas holders at Bingawan STP; review of comments on construction plan for Unnao E&M works.	WFH
4	Preparation of Progress report for all sites for MD (UPJN) visit on 7/6/2021	WFH
5	Preparation of Progress report for all sites for MD (UPJN) visit on 7/6/2021	WFH
6	SUNDAY	
7	Discussions with team regarding MD (UPJN) visit to Jajmau, Bingawan, Sajari, and Pankha STP sites and feedback	WFH
8	Review of progress at Pankha; issue of letters with review comments on GA, Data sheet, QAP of various equipments & piping GAD for 05 MLD STP Shuklaganj	WFH
9	Call with Mr. Rajat and discussion regarding project progress and issues	WFH
10	Discussions with team & Mr. Prasanna regarding Bingawan O&M Charges / LD	WFH
11	Discussions with team & Mr. Prasanna regarding Bingawan O&M Charges / LD	WFH
12	2 <sup>nd</sup> SATURDAY	
13	SUNDAY	
14	Review of O&M of Sajari-42 MLD STP Status of balance points of compliance submitted by KRMPL against various inspection reports	KANPUR
15	Bingwana site visit and joint inspection with CE UPJN; Discussion of Jajmau Site	KANPUR
16	Discussion with site support team on progress at new construction sites	KANPUR
17	Pankha site visit and meeting with Commissioner, GM UPJN and KRMPL site team, Review of comments on GA, Technical Datasheet & QAP of screen for I&D work at 15 MLD STP unnao & 5 MLD STP Shuklaganj; Prepared presentation for NMCG meeting scheduled on 18.06.2021	KANPUR
18	Lead NMCG Meeting over VC	KANPUR
19	Review of construction plan for Shuklaganj	KANPUR
20	SUNDAY	
21	Prepared MoM of 18.6.2021 NMCG meeting	KANPUR
22	Prepared Critical / Pending Tasks at various sites	KANPUR
23	Attended VC with UPJN HO meeting at GM's office; Issued pending and critical tasks list to Mr. Rajat Gupta, NMCG	KANPUR
24	Joint inspection of Unnao STP with UPJN and KRMPL and meeting with village panchayat regarding sewer line routing Review of KPI adherence of Sajari STP	KANPUR
25	Review of KPI adherence of Bingawan STP	KANPUR
26	Issued letter to NMCG regarding responsibility of 44MLD flow out of 130 MLD inflow	KANPUR
27	SUNDAY	
28	Issued letter to GM UPJN regarding delay in power generation from biogas at Sajari; Meeting with PM1 regarding need for bioremediation at Jajmau 130 MLD STP	KANPUR
29	Jajmau Site visit and inspection; Meeting with Mr. Gargh, GM, UPJN to closeout some of the pending issues before his retirement on 30.06.2021	KANPUR
30	Meeting with Mr. Gargh, GM, UPJN to closeout some of the pending issues before his retirement and; Attended retirement program of Mr. Gargh	KANPUR
I hereby certify that the time report above is a true and complete statement of my working time for the		
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		Jun-21
Date	Description		Location
1	Discussion / Meeting with GM UPJN and KRMPL about issues in Jajmau ph 1		Kanpur
2	Discussion with SE 3rd UPJN Lko about progress of works in Unnao and Shuklaganj		Kanpur
3	VETTING OF CONSTRUCTION PLAN Unnao regarding E& M works		Kanpur
4	Discussion with G M UPJN Kanpur about overflowing sewage to Ganga from Jajmau STP ph 1		Kanpur
5	Discussion with PM 4 UPJN Lucknow about construction plan Shuklaganj		Kanpur
6	S u n d a y		Kanpur
7	Appraising progress of Pankha STP according to construction plan revision		Kanpur
8	Vetting of disposal line of Unnao and Shuklaganj STPs		Kanpur
9	Shuklaganj SBR design hard copies appraised		Kanpur
10	Discussion with UPJN about bedding design in Pankha STP AND upgrading it.		Kanpur
11	Recommending hard copies of Shuklaganj STP SBR unit and staff quarter		Kanpur
12	S E C O N D S A T U R D A Y		Kanpur
13	S U N D A Y		Kanpur
14	Discussion with Mr Randhir Jha of KRMPL about construction plan Jajmau ph 1		Kanpur
15	Inspection of Jajmau 130 mid STP Kanpur		Kanpur
16	Appraising progress of STPs for PPT of NMCG meeting Dated 18th June		Kanpur
17	Inspection of Pankha STP regarding visit of Commissioner Kanpur Division		Kanpur
18	Attended NMCG meeting / Video conferencing		Kanpur
19	Meeting with GM UPJN & KRMPL REGARDING 130 MLD Jajmau STP and pending issues		Kanpur
20	S U N D A Y		Kanpur
21	MOM of NMCG meeting Dated 18.06.2021 appraised and discussion with APM KRMPL about CP Jajmau		Kanpur
22	Discussion with Mr R Jha APM KRMPL about Jajmau STP ph 1 construction plan		Kanpur
23	Video-conference Meeting with UPJN Head office , KRMPL & NMCG		Kanpur
24	Joint inspection of UNNAO Facilities sewer line with UPJN KRMPL and village Panchayat Head etc		Kanpur
25	MoM prepared of Joint inspection of UNNAO Facilities sewer line with UPJN KRMPL and village Panchayat		Kanpur
26	Pending Design Drawings discussed with PM 4 UPJN Lucknow		Kanpur
27	S U N D A Y		Kanpur
28	Discussion with UPJN about BIOREMEDIATION in Jajmau STP 130 mid		Kanpur
29	Meeting & Discussion with GM UPJN about HAM Project Kanpur		Kanpur
30	Inspection note of 130 MLD Jajmau STP prepared		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  
07/07/21



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:
Position:	O & M ENGINEER		Jun-21
Date	Description	Location	
1	Attended meeting with GM GPCU UPJN regarding Advance Sludge Handling System for 130 MLD Jajmau plant	Kanpur	
2	Sent draft letter to GM GPCU UPJN regarding Schedule Maintenance Programme of Sajari for year-2	Kanpur	
3	Wrote letter to GM GPCU UPJN regarding painting procedure and approval of vendor for painting of Bingawan gas holders	Kanpur	
4	Got prepared progress report of HAM Project Kanpur for proposed visit of MD UPJN on 07/06/2021	Kanpur	
5	Correcte and Finalized PPTof HAM Project Kanpur for proposed visit of MD UPJN on 07/06/2021	Kanpur	
6	<b>Sunday</b>		
7	Visit and inspection of 130 MLD Jajmau STP, 210 MLD Bingawan STP, 42 MLD Sajari STP & 30 MLD STP Pankha construction works with MD, JMD (Ganga), CE Kanpur & GM UPJN and discussions with MD & JMD UPJN	Kanpur	
8	Sent draft letter on behalf ofGM GPCU UPJN to MD UPJN in reply to NMCG letter	Kanpur	
9	Reveiwed NMCG mails regarding Bingawan O & M charges	Kanpur	
10	Google meeting with Mr. Prasanna Director STC NMCG mails regarding Bingawan O & M charges	Kanpur	
11	Sent CA references to Mr. Prasanna Director STC NMCG mails regarding Bingawan O & M charges	Kanpur	
12	<b>Second Saturday</b>		
13	<b>Sunday</b>		
14	Wrote letter to GM GPCU UPJN regarding insurances during construction and O &M periods as per Article 11.2	Kanpur	
15	Wrote letter to GM GPCU UPJN regarding subcontracting O &M of Bingawan, Sajari and Jajmau STPs to SPCPL and inspection of Bingawan STP with CE UPJN Kanpur in the afternoon	Kanpur	
16	Wrote 2 letters to GM GPCU UPJN regarding applicable permits for all the existing facilities and painting of gas holders at Bingawan	Kanpur	
17	Corrected and finalized PPT for NMCG review meeting proposed on 18/06/2021	Kanpur	
18	Attended google meeting of NMCG Review meeting of HAM Project Kanpur with NMCG	Kanpur	
19	Sent soft copy of KPIs Adherence reports (Jan 2020 to Oct 2020) to GM GPCU UPJN as desired by him	Kanpur	
20	<b>Sunday</b>		
21	Wrote letter to GM GPCU UPJN regarding payment of O & M charges prior to Effective Date for Bingawan facilities	Kanpur	
22	Corrected and finalized MOM for NMCG review meeting dated 18/06/2021 & corrected draft inspection report of CE UPJN Kanpur, inspection done on 15/06/2021	Kanpur	
23	Attended google meeting of NMCG Reveiw meeting of HAM Project Kanpur with NMCG and UPJN HO	Kanpur	
24	Sent KPIs adherence report of Sajari for the month of May 2021	Kanpur	
25	Sent KPIs adherence report of Bingawan for the month of May 2021	Kanpur	
26	Wrote draft letter to NMCGon behalf of GM GPCU UPJN regarding clarification on handling/treatment of 44 MLD flow at 130 MLD Jajmau phase-1 STP	Kanpur	
27	<b>Sunday</b>		
28	Wrote letter to GM GPCU UPJN regarding delay in power generation from biogas at Sajari Plant	Kanpur	
29	Discussed with CE(Ganga) UPJN LKO and sent 4 letters related to performance of Bingawan STP	Kanpur	
30	Discussed with CE(Ganga) UPJN LKO regarding performance of Bingawan STP and sent relevent Articles of CA as desired by him	Kanpur	
I hereby certify that the time report above is a true and complete statement of my working time for the payroll perio			
 Signature of Employee		 Signature of Team Leader	

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

Project Engineer		Shah Technical Consultants Pvt Limited	
NMSG-STP Projects at Kanpur under Hybrid Annuity based PPP Mode			
Daily Report			
Name :	Anil Kumar Seth	Month/Year:	Jun-21
Position:	Senior Electrical Engineer		
Date	Description	Location	
1	Review of load list ,SLD,Transformer /DG set sizing for IPS Sundar Nagar,pankha	Re	
2	Review of LT Panel jajmau 130 MLD letter issue for credential of the vendor ,review of lighting of building pankha	Kanpur	
3	Review of load list ,SLD,Transformer /DG set sizing for IPS ICI Nalla pankha recommendation letter made for ICI Nalla Pankha.	Kanpur	
4	Review of lighting of building of unnao letter prepare for cleanace of building lighting pankha & unnao	Kanpur	
5	Review of main LT PCC Panel & LT Distribution panel for 130 mid jajmau	Kanpur	
6	Sunday	Kanpur	
7	Interim Review of TEPH Panel & 40 kva APFC Panel for 130 MLD jajmau	Kanpur	
8	Interim Review of R.S.P.H Panel & Thickner panel for 130 MLD jajmau	Kanpur	
9	Interim Review of centrifuge & digester and centrate panel for 130 MLD jajmau	Kanpur	
10	Interim Review of Bar screen control panel & LPBS wall mounted panel for 130 MLD jajmau	Kanpur	
11	Review of SLD ,Max demand ,transformer & DG set sizing calculation for 5 MLD shuklaganj.	Kanpur	
12	Secondary Saturday	Kanpur	
13	Sunday	Kanpur	
14	Review of HT Panel for shuklaganj 5 MLD STP	Kanpur	
15	Letter prepare for SLD ,Max demand ,transformer & DG set sizing calculation for 5 MLD Shuklaganj	Kanpur	
16	Review of Power and control cable data sheet for 130 MLD jajmau	Kanpur	
17	Review GA, Data sheet ,BOM,Wiring diagram & QAP of battery charger for 15 MLD Unnao	Kanpur	
18	Review GA, Data sheet ,BOM,Wiring diagram & QAP of battery charger for 30 MLD Pankha & Review of Unnao SLD ,Max	Kanpur	
19		Kanpur	
20		Kanpur	
21		Kanpur	
22		Kanpur	
23		Kanpur	
24		Kanpur	
25		Kanpur	
26		Kanpur	
27		Kanpur	
28		Kanpur	
29		Kanpur	
30		Kanpur	

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


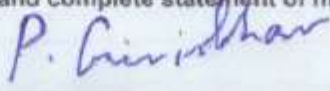
  
Signature of Employee

  
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:	Jun-21
Position:	Mechanical Expert	Location	
Date	Description	Location	
1			
2			
3			
4			
5	Review of Mechanical submittals of 5 MLD STP SHUKLAGANJ	*Pune	
6			
7	Review of Mechanical submittals of 130 MLD STP JAJMAU	*Pune	
8	Review of Mechanical submittals of 130 MLD STP JAJMAU & 5 MLD STP SHUKLAGANJ	*Pune	
9	Review of Mechanical submittals of 5 MLD STP SHUKLAGANJ	*Pune	
10	Review of Mechanical submittals of 15 MLD STP UNNAO & 30 MLD STP PANKHA	*Pune	
11	Review of Mechanical submittals of 130 MLD STP JAJMAU	*Pune	
12			
13			
14	Review of Mechanical submittals of 5 MLD STP SHUKLAGANJ, 15 MLD STP UNNAO & 30 MLD STP PANKHA	*Pune	
15	Review of Mechanical submittals of 15 MLD STP UNNAO	*Pune	
16	Review of Mechanical submittals of 5 MLD STP SHUKLAGANJ	*Pune	
17	Review of Mechanical submittals of 130 MLD STP JAJMAU		
18	Review of Mechanical submittals of 5 MLD STP SHUKLAGANJ, 15 MLD STP UNNAO & 30 MLD STP PANKHA	*Pune	
19			
20			
21	Review of Mechanical submittals of 5 MLD STP SHUKLAGANJ, 15 MLD STP UNNAO & 30 MLD STP PANKHA	*Pune	
22			
23			
24			
25			
26			
27			
28			
29	Review of Mechanical submittals of 5 MLD STP SHUKLAGANJ	*Pune	
30			

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


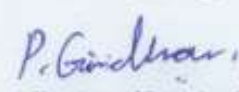
 Signature of Employee	 Signature of Team Leader
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**NOTE - \* Home Office Input**

Mr. Praseon Bhardwaj (Instrumentation Engineer)

Project Engineer		Shah Technical Consultants Pvt Limited	
NMCG-STP Projects at Kanpur under Hybrid Annuity based PPP Mode			
Daily Report			
Name :	Praseon Bhardwaj	Month/Year:	
Position:	Instrumentation Engineer	Jun-21	
Date	Description	Location	
1			
2			
3			
4			
5			
6			
7			
8			
9	Review of construction plan/billing schedule for Instrumentation works for 130 MLD STP at Jajmau.	Jaipur(W/H)	
10	Review of construction plan/billing schedule for Instrumentation works for 130 MLD STP at Jajmau.	Jaipur(W/H)	
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22	Review of Control and operation philosophy for 20 MLD IPS at Sunder Nagar, Pankha, Kanpur.	Jaipur(W/H)	
23	Review of Interlock and P&I diagram for 20 MLD IPS at Sunder Nagar, Pankha, Kanpur.	Jaipur(W/H)	
24	Review of Control and operation philosophy for 25 MLD IPS at ICI Nallah, Pankha, Kanpur.	Jaipur(W/H)	
25	Review of Interlock and P&I diagram for 25 MLD IPS at ICI Nallah, Pankha, Kanpur.	Jaipur(W/H)	
26			
27			
28			
29	Review of Control and operation philosophy (CIP) for 30 MLD STP at Pankha, Kanpur.	Jaipur(W/H)	
30	Review of Control and operation philosophy for 30 MLD STP at Pankha, Kanpur.	Jaipur(W/H)	

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

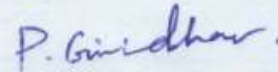
 Signature of Employee	 Signature of Team Leader
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Mr. L.K. Rao (Safety Expert)

<b>Project Engineer</b>	<b>Shah Technical Consultants Pvt Limited</b>	
<b>NMCG-STP Projects at Kanpur under Hybrid Annuity based PPP Mode</b>		
<b>Daily Report</b>		
<b>Name :</b>	Linga Krishna Rao	<b>Month/Year:</b>
<b>Position:</b>	Safety Expert	Jun-21
<b>Date</b>	<b>Description</b>	<b>Location</b>
28	Office work attended, Review and checking of pending works related to Pankha, Unnao, Shuklagung, Sajari, Bingawan and Jajmau plants.	Kanpur
29	Office work attended, Discussed with support engineer Mr.Goyal on the review of non submission of Project ESHS (Environmental, Safety and Health System ) Plan of Jajmau plants 130 MLD hard copy and other complience issues to be pending from KRMPL.Jajmau 130 MLD visited along with TL Sir and Dimri Sir & met the Shapurji company Safety head Mr.Kushalani and discussed about the EHS non complience and not provided PPE's to plant visitors, STC and UPJN. He responded positively to comply the non complience EHS issues at the earliest.	Kanpur
30	Office work attended. Safety PPE's reminder letter No.STC/PE/KNP/885/General Technical of dt.5th June,2021 sent of Shapurji group safety head apart from yesterdays meeting with him at Jajmau plant office along with TL Sir and Dimri Sir. Safety PPE's requirement list and Safety shoes sizes with names taken form the 17 employees (including office boy, drivers etc..) and forwarded to KRMPL Sr.Safety Officer Mr.Dharmender Sharma for providing the PPE's total 17 numbers (each one one number/pair) as below items . 1)Safety shoes 2)Safety helmets-while3)Plain goggles4) Cotton gloves 5)Ear plugs 6)Safety reflecting jackets-blue 7)N-95 Nose masks.	Kanpur



Signature of Employee



Signature of Team Leader

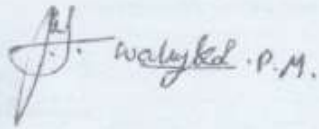




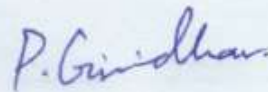
Mr. Preetam Walunjkar (Senior Structural Engineer)

Project Engineer		Shah Technical Consultants Pvt Limited	
NMCg-STP Projects at Kanpur under Hybrid Annuity based PPP Mode			
Daily Report			
Name :	Preetam Walunjkar		Month/Year:
Position:	Senior Structural Engineer		Jun-21
Date	Description		Location
1	Leave		Kanpur
2	Leave		Kanpur
3	Check Design Mix of Shuklaganj for Concrete Grade of M20 & Check Unnao STP outlet disposal line		Kanpur
4	Check Design Mix of Shuklaganj for Concrete Grade of M25 & M30 & Check Unnao STP Manhole RCC & Brick masonry Design		Kanpur
5	Leave		Kanpur
6	Leave		Kanpur
7	Leave		Kanpur
8	Check Centrifuge Building GAD, Staad Pro file & Calculations for Shuklaganj STP		Kanpur
9	Check GAD, Soil Test Report & Staad file for CCT and Chlorination Building & review comments on Staff Quarters for Sulaganj STP		Kanpur
10	Check Calculation Sheet for CCT and Chlorination Building & Compliance on comments over SBR for Sulaganj STP		Kanpur
11	Leave		Kanpur

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



Signature of Employee



Signature of Team Leader

### Annexure 3: Monthly Performance Report of Sajari for June. 2021

42 MLD SEWAGE TREATMENT PLANT, SAJARILKANPUR MONTHLY FLOW & LAB REPORT																	
Jun-2021																	
Date	INLET FLOW in MLD	Plant Run in HRS	RAW SEWAGE					FINAL OUTLET					T.C (< 500)	POWER SHUTDOWN HRS	REMARK		
			Temp	TDS	PH (7-8)	COB (450)	BOD (250)	TSS (400)	Temp	TDS	PH (7-8)	COB (< 100)				BOD (< 50)	TSS (< 50)
			°c	ppm		ppm	ppm	ppm	°c	ppm		ppm				ppm	ppm
01 Jun 2021	22.36	24.00	29	1290	7.6	432	145	325	29	988	7.8	88	21	34	230	1.42	2 STREAM IS UNDER OPERATION
02 Jun 2021	21.86	24.00	29	1295	7.55	496	162	294	29	982	8.0	92	23	36.0	212	0.00	2 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
03 Jun 2021	22.28	24.00	29	1305	7.6	428	160	286	29	995	8.1	96	25	32	240	0.00	2 STREAM IS UNDER OPERATION
04 Jun 2021	21.95	24.00	29	1285	7.5	396	155	273	29	950	7.8	88	22	29.0	210	0.67	2 STREAM IS UNDER OPERATION
05 Jun 2021	21.29	24.00	29	1260	7.7	384	148	291	29	935	7.9	80	21	27	230	0.00	2 STREAM IS UNDER OPERATION
06 Jun 2021	21.45	24.00	29	1340	7.5	432	160	310	29	1020	8.1	96	23	32	260	1.00	2 STREAM IS UNDER OPERATION
07 Jun 2021	21.70	24.00	29	1295	7.6	356	156	277	29	995	7.8	92	22	30	220	0.00	2 STREAM IS UNDER OPERATION
08 Jun 2021	22.19	24.00	29	1320	7.5	428	162	325	29	1040	8.1	97	24	32	212	5.00	2 STREAM IS UNDER OPERATION
09 Jun 2021	22.61	24.00	29	1310	7.6	380	154	279	29	1015	7.8	88	21	30	210	0.00	2 STREAM IS UNDER OPERATION
10 Jun 2021	22.69	24.00	29	1380	7.7	440	165	287	29	1032	8.1	96	23	33	230	0.92	2 STREAM IS UNDER OPERATION
11 Jun 2021	22.03	24.00	29	1320	7.5	408	152	281	29	995	7.9	88	21	32	280	0.00	2 STREAM IS UNDER OPERATION
12 Jun 2021	22.44	24.00	29	1390	7.7	408	184	325	29	1110	8.1	104	24	36	250	7.33	2 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
13 Jun 2021	22.61	24.00	29	1340	7.5	448	165	297	29	1080	8.0	92	22	33	226	0.00	2 STREAM IS UNDER OPERATION
14 Jun 2021	21.95	24.00	29	1295	7.6	380	156	277	29	990	7.8	85	21	27	240	1.17	2 STREAM IS UNDER OPERATION
15 Jun 2021	22.19	24.00	29	1260	7.5	432	168	293	29	1015	8.0	96	24	32	240	0.00	2 STREAM IS UNDER OPERATION
16 Jun 2021	22.19	24.00	29	1380	7.6	554	185	315	29	1046	8.1	104	25	36	310	0.00	2 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
17 Jun 2021	22.36	24.00	29	1320	7.5	448	172	294	29	1015	7.9	92	23	33	280	0.00	2 STREAM IS UNDER OPERATION
18 Jun 2021	21.35	24.00	29	1260	7.6	380	164	276	28	980	8.1	88	22	31	250	3.25	2 STREAM IS UNDER OPERATION
19 Jun 2021	22.09	24.00	28	1260	7.5	336	156	212	28	960	7.8	92	24	34	226	0.00	2 STREAM IS UNDER OPERATION
20 Jun 2021	20.97	24.00	28	1290	7.5	348	160	275	28	953	7.9	88	21	36	240	0.33	2 STREAM IS UNDER OPERATION
21 Jun 2021	21.59	24.00	28	1380	7.6	384	165	271	28	1005	7.8	96	23	34	260	0.00	2 STREAM IS UNDER OPERATION
22 Jun 2021	21.87	24.00	28	1280	7.5	356	162	262	28	990	7.9	90	22	38	230	0.00	1 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
23 Jun 2021	20.56	24.00	28	1345	7.6	496	185	287	28	1030	8.1	112	25	46	280	0.00	1 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
24 Jun 2021	20.38	24.00	28	1390	7.5	464	176	210	28	1028	8.0	110	23	40	310	0.00	1 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
25 Jun 2021	20.82	24.00	28	1345	7.6	512	188	330	28	1030	8.1	115	26	45	270	0.00	1 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
26 Jun 2021	20.63	24.00	28	1340	7.5	480	165	290	28	1025	7.9	112	27	42	255	0.00	1 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
27 Jun 2021	20.87	24.00	28	1310	7.6	453	160	286	28	1018	8.1	104	25	40	280	0.00	1 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
28 Jun 2021	20.96	24.00	28	1360	7.5	496	188	320	28	1030	7.8	116	26	45	260	0.00	1 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
29 Jun 2021	20.46	24.00	28	1358	7.8	480	172	325	28	1018	8.1	110	24	42	234	0.00	1 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
30 Jun 2021	20.71	24.00	28	1365	8.1	528	185	325	28	1030	8.1	118	26	46	280	0.00	1 STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
TOTAL	411.26																
AVG	22.38	24.00	28.60	1,321.60	7.59	438.77	165.83	289.90	28.57	1,009.73	10.41	97.50	23.30	35.43	249.17	21.88 Hrs	

Note : There is ingress of Industrial Waste water [coloured] at STP from Sanigawan area, which was experienced on dates of 2,12,23,24,25,26,27,28,29,30 June, 2021.

KPMPL



## Annexure 3: Site Inspection Report for the Month of June 2021 (Sajari)

**दिनांक 07.06.2021 को प्रबन्ध निदेशक, उ० प्र० जल निगम, लखनऊ द्वारा कानपुर के कार्यों के किये गये निरीक्षण का प्रतिवेदन**

कानपुर नगर में पूर्ण निर्मित अनुरक्षणाधीन जाजमऊ स्थित 130 एमएलडी एसटीपी, सजारी स्थित 43 एमएलडी एसटीपी एवं बिनगवां स्थित 210 एमएलडी एसटीपी तथा नमामि गंगे कार्यक्रम के अन्तर्गत निर्माणाधीन पनका एसटीपी का निरीक्षण किया गया। निरीक्षण के समय निम्नलिखित अधिकारी तथा मेसर्स के०आर०एम०पी०एल के प्रतिनिधि उपस्थित रहे-

1. श्री सुशील कुमार पटेल, संयुक्त प्रबन्ध निदेशक(गंगा), उ० प्र० जल निगम, लखनऊ।
2. श्री अक्षय त्रिपाठी, नगर आयुक्त, नगर निगम, कानपुर।
3. इं० बी०एल० गौतम, मुख्य अभियन्ता (का०क्ष०), उ० प्र० जल निगम, कानपुर।
4. इं० बी०के० गर्ग, महाप्रबन्धक, गंगा प्रदूषण नियन्त्रण इकाई, उ० प्र० जल निगम, कानपुर।
5. इं० रामशरण, अधीक्षण अभियन्ता, चतुर्दश मण्डल, उ० प्र० जल निगम, कानपुर।
6. इं० अरुण कुमार, अधीक्षण अभियन्ता, निर्माण मण्डल (वि०/यौ०), उ० प्र० जल निगम, कानपुर।
7. इं० जे०पी० सिंह, अधीक्षण अभियन्ता (नागर), उ० प्र० जल निगम, लखनऊ।
8. इं० मो० अहसान, परियोजना प्रबन्धक(तृतीय), गं०प्र०नि०ई०, उ० प्र० जल निगम, कानपुर।
9. इं० जी०के० चौधरी, परियोजना प्रबन्धक(प्रथम), गं०प्र०नि०ई०, उ० प्र० जल निगम, कानपुर।
10. इं० मो० माज, परियोजना प्रबन्धक(वि०/यौ०), गं०प्र०नि०ई०, उ० प्र० जल निगम, कानपुर।
11. इं० देवेन्द्र सिंह, परियोजना प्रबन्धक, निर्माण इकाई- द्वितीय, उ० प्र० जल निगम, कानपुर।
12. श्री जे०पी० त्रिपाठी, राष्ट्रीय स्वच्छ गंगा मिशन द्वारा नियुक्त पी०एम०सी० के प्रतिनिधि।
13. श्री मानोबेन्द्र रॉय, परियोजना प्रबन्धक, मेसर्स के०आर०एम०पी०एल, कानपुर।
14. श्री अमित भराम्बे, मेसर्स के०आर०एम०पी०एल, कानपुर।

**1. जाजमऊ एसटीपी परिसर:**

महाप्रबन्धक, गंगा प्रदूषण नियन्त्रण इकाई, उ० प्र० जल निगम, कानपुर द्वारा अवगत कराया गया कि जाजमऊ परिसर में 36 एमएलडी क्षमता का सी०ई०टी०पी०, 5 एमएलडी, 43 एमएलडी एवं 130 एमएलडी क्षमता के एसटीपी निर्मित है। 130 एमएलडी क्षमता का एसटीपी रखरखाव, संचालन एवं रेनोवेशन हेतु नमामि गंगे कार्यकमान्तर्गत मै० के०आर०एम०पी०एल०, कानपुर (मै० शापुरजी पॉलनजी प्रा०लि०, मुम्बई द्वारा गठित एस०पी०वी०) को दिनांक 01.03.2021 को हस्तगत किया गया है। 43 एमएलडी क्षमता का एसटीपी भी मै० के०आर०एम०पी०एल०, कानपुर को हस्तान्तरित किया जाना है। 43 एमएलडी क्षमता के एसटीपी के संयुक्त निरीक्षण रिपोर्ट की कम्पलाएन्स मै० के०आर०एम०पी०एल०, कानपुर को दिनांक 06.05.2021 को उपलब्ध करायी गयी है। इसी प्रकार 130 एमएलडी एसटीपी के 4 नग पम्पिंग स्टेशन भी अभी तक फर्म द्वारा हस्तगत नहीं किये गये हैं।

(अ) श्री मानोबेन्द्र रॉय, परियोजना प्रबन्धक मै०के०आर०एम०पी०एल० द्वारा अवगत कराया गया कि 130 एमएलडी एसटीपी के 4 नग पम्पिंग स्टेशन्स का निरीक्षण किया जा चुका है, जिसे 10.06.2021 तक हस्तगत कर लिया जायेगा। 43 एमएलडी क्षमता के एसटीपी के संबंध में श्री रॉय परियोजना प्रबन्धक मै०के०आर०एम०पी०एल० द्वारा अवगत कराया गया कि सन्दर्भित एसटीपी कुछ कमियों के कारण हस्तगत नहीं हो पा रहा है। एसटीपी की स्लज हैण्डलिंग यूनिट ठीक से क्रियाशील न होने के साथ सीपेज की समस्या है तथा ऑनलाइन मॉनीटरिंग सिस्टम भी नहीं लगा है।

(ब) महाप्रबन्धक कानपुर एवं श्री मानोबेन्द्र रॉय, परियोजना प्रबन्धक मै०के०आर०एम०पी०एल० को निर्देश दिये गये कि इंगित कमियों को यथासम्भव ठीक कराकर दिनांक 20.06.2021 तक प्लान्ट मै० के०आर०एम०पी०एल० को हस्तान्तरित किया जाए। ऑनलाइन मॉनीटरिंग सिस्टम के लिये पृथक से वांछित कार्यवाही की जाये। इसके लिये हस्तान्तरण बाधित नहीं होना चाहिए।

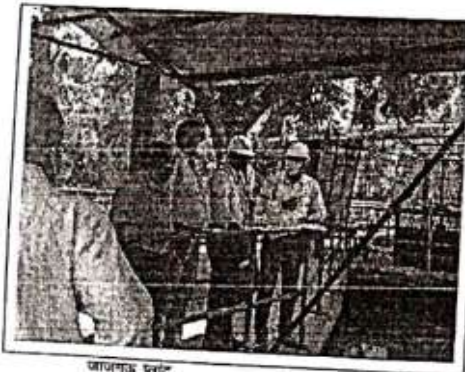
(रा) 130 एमएलडी एसटीपी एवं सीएसपीएस से गंगा नदी में हो रहे ओवरफ्लो के सम्बन्ध में मै० के०आर०एम०पी०एल० को निर्देशित किया गया कि रेनोवेशन/संचालन की अवधि में भी किसी प्रकार का ओवर फ्लो गंगा नदी में नहीं होना चाहिये, जिसे सुनिश्चित कराया जाय। इस सम्बन्ध में कन्ससनेयर एग्रीमेंट के प्राविधानों के अनुरूप मै० के०आर०एम०पी०एल० द्वारा रेनोवेशन के दौरान एक यूनिट बन्द करने के फलस्वरूप अतिरिक्त डिस्चार्ज के शोधन हेतु बायो-रिमेडियेशन का प्रस्तुत प्रस्ताव पर अनुबन्ध के प्राविधानों के अन्तर्गत कार्यवाही की जाये। गंगा नदी में किये जा रहे ओवरफ्लो के दृष्टिगत उ० प्र० प्रदूषण नियन्त्रण बोर्ड द्वारा लगाये गये जुर्माने की राशि की वसूली भी मै० के०आर०एम०पी०एल० से करने के निर्देश महाप्रबन्धक को दिये गये। 130 एमएलडी एसटीपी पर अधिष्ठापित कैमरे एवं फ्लोमीटर क्रियाशील न होने पर मै० के०आर०एम०पी०एल० से अप्रसन्नता व्यक्त करते हुये इन को शीघ्र ठीक कराने के निर्देश भी दिये गये। महाप्रबन्धक कानपुर को मै० के०आर०एम०पी०एल० द्वारा दिनांक 31.05.2021 को प्रस्तुत रेनोवेशन प्लान पर शीघ्र स्वीकृति हेतु कार्यवाही करने के निर्देश दिये गये।

### 2. 36 एमएलडी सी०ई०टी०पी०:

(अ) 36 एमएलडी सी०ई०टी०पी० का संचालन सुचारू रूप से होने परन्तु संचालन हेतु धन प्राप्त न होने के संबंध में महाप्रबन्धक कानपुर द्वारा अवगत कराया गया कि टेनरी स्वामियों एवं नगर निगम द्वारा धन उपलब्ध न कराये जाने के कारण सीईटीपी के संचालन में कठिनाई हो रही है। धन उपलब्ध कराने हेतु नगर आयुक्त कानपुर से अपेक्षा की गयी। महाप्रबन्धक कानपुर द्वारा अवगत कराना गया कि टेनरी स्वामियों को आर०सी० जारी करने हेतु नोटिस जारी किये गये हैं।

(ब) नगर आयुक्त द्वारा अवगत कराया कि पूर्व में प्राप्त विवरण के अनुसार नगर निगम द्वारा टेनरी स्वामियों के सापेक्ष अधिक धन उपलब्ध कराया गया है। अतः टेनरी स्वामियों से वसूली हेतु आर०सी० के माध्यम से वसूली की जाए। यद्यपि नगर निगम द्वारा रू० 3.50 करोड़ अवमुक्त किये जाने हेतु प्रक्रिया प्रारम्भ की दी गयी है।

(स) निर्देश दिये गये कि वसूली हेतु आर०सी० जारी करने के संबंध में कार्यदायी संस्था द्वारा आर०सी० जारी किये जाने की वैधानिकता जांच ली जाए। जिससे बाद में कोई वैधानिक अड़चन संज्ञान में आने पर कठिनाई न हो। तदानुसार ही कार्यवाही की जाये।



आयुक्त प्लांट



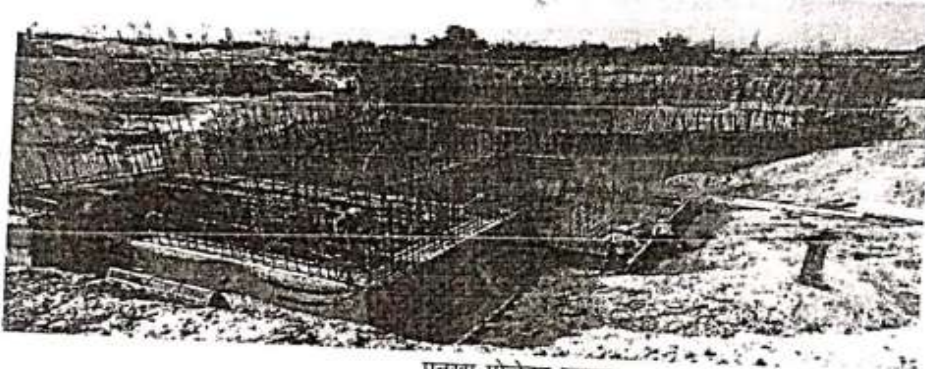
आयुक्त प्लांट सभागार

### 3. 210 एमएलडी एसटीपी विनगर्वो:

(अ) महाप्रबन्धक कानपुर द्वारा सूचित किया गया कि इस एसटीपी पर 130-135 एमएलडी श्राव प्राप्त हो रहा है। एसटीपी का रखरखाव सुचारू रूप से न होने के कारण प्लाण्ट नॉन-कम्प्लायन्ट हो गया है।

**4. 43 एमएलडी एसटीपी सजारी:**

- (अ) महाप्रबन्धक द्वारा अवगत कराया गया कि संदर्भित एसटीपी दिनांक 28.05.2019 को संचालन एवं रखरखाव हेतु मै0 के0आर0एम0पी0एल0 को हस्तान्तरित किया गया है। वर्तमान में प्लाण्ट पर लगभग 21 एमएलडी श्राव का शोधन किया जा रहा है। शोधित श्राव के कै0पी0आई0 मानकानुसार प्राप्त हो रहे हैं। प्रबन्ध निदेशक द्वारा मेसर्स के0आर0एम0पी0एल के प्रतिनिधि से 3 गैस इन्जिन्स में से 2 गैस इन्जिन ही ठीक होने, एक रलज डायजेस्टर ठीक न होने के संबंध में पूछे जाने पर श्री मानोबेन्द्र रॉय परियोजना प्रबन्धक मै0 के0आर0एम0पी0एल0 द्वारा अवगत कराया गया कि एक खराब गैस इन्जिन की मरम्मत हेतु एजेन्सी को कार्यादेश दे दिया गया है, जिसके द्वारा दिनांक 30.06.2021 तक मरम्मत पूर्ण कर दी जायेगी। रलज डायजेस्टर की मरम्मत का कार्य भी 15 जुलाई, 2021 तक पूर्ण कर लिया जायेगा।
- (ब) एसटीपी के प्रतिनिधि श्री जे0पी0 त्रिपाठी द्वारा अवगत कराया गया कि मेसर्स के0आर0एम0पी0एल द्वारा प्रथम वर्ष के शेड्यूल मेन्टेनेन्स कार्य भी पूर्ण नहीं किये गये हैं एवं मेसर्स के0आर0एम0पी0एल द्वारा एयरेटर्स को पूर्ण क्षमता पर भी नहीं चलाया जा रहा है।
- (स) प्रबन्ध निदेशक द्वारा महाप्रबन्धक कानपुर को उक्त विषय पर अपनी विस्तृत रिपोर्ट उपलब्ध कराने हेतु निर्देशित किया गया



पनखा प्रोजेक्ट साइट

**5. 30 एमएलडी निर्माणाधीन एसटीपी पनका:**

- (अ) महाप्रबन्धक द्वारा अवगत कराया गया कि संदर्भित कार्य मै0 के0आर0एम0पी0एल0 द्वारा किया जा रहा है। योजनान्तर्गत 3 नालों की टेपिंग, 2 नग आईपीएस, 1 नग एमपीएस, 30 एमएलडी क्षमता का एस0वी0आर0 तकनीक आधारित एसटीपी का निर्माण एवं लगभग 16 किमी सीवर लाइन बिछाया जाना प्रस्तावित है। योजना पूर्ण करने की पूर्व निर्धारित तिथि 25.08.2021 (ट्रायल रन रहित) प्रस्तुत किया गया है। वर्तमान में चतुर्थ माइलस्टोन के कार्य प्रगति पर हैं। अद्यतन प्रगति 46 प्रतिशत है। चतुर्थ माइलस्टोन दिनांक 25.03.2021 को पूर्ण किया जाना था, जो पुनरीक्षित प्लान के अनुसार 01.07.2021 को अपेक्षित है।
- (ब) एसटीपी के प्रतिनिधि श्री त्रिपाठी द्वारा अवगत कराया गया कि चतुर्थ माइलस्टोन में फर्म द्वारा 3 माह से अधिक का समय प्रस्तावित किया गया है, जबकि इसके आगे के माइलस्टोन में प्रत्येक में लगभग 1 माह का समय प्रस्तावित है। 1 माह में माइलस्टोन पूर्ण किया जाना संदिग्ध है।
- (स) मेसर्स के0आर0एम0पी0एल के प्रतिनिधि द्वारा अवगत कराया गया कि आगे के माइलस्टोन में अधिकांश कार्य विद्युत यंत्रिक से संबंधित है, उनको शीघ्रता से पूर्ण कराया जायेगा। यद्यपि यह Challenging है परन्तु हम इसे करेंगे।

के०पी०आई० प्राप्त न होने के कारण मै० के०आर०एम०पी०एल० के भुगतान से कटौती की गयी है तथा मै० के०आर०एम०पी०एल० को नॉन एवीलिबिलिटी ऑफ प्लान्ट का नोटिस भी दिया गया है।

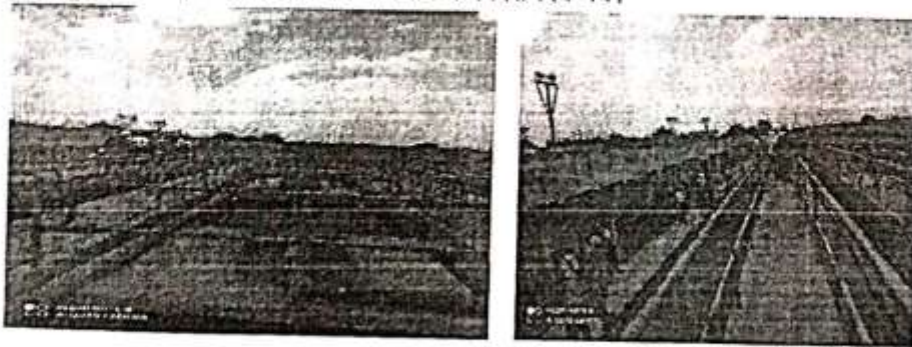
(ब) एसटीसी के प्रतिनिधि श्री त्रिपाठी द्वारा अवगत कराया गया कि मै० के०आर०एम०पी०एल० द्वारा प्लांट पर रखरखाव कार्य ठीक प्रकार न किये जाने, रियेक्टर्स एवं एयरेशन टैंक की सफाई न किये जाने के कारण प्लांट की स्थिति धीरे-धीरे खराब होती चली गई है। 16 रियेक्टर्स में से मात्र 4 रियेक्टर्स ही अभी तक साफ हो सके हैं 3 पर कार्य चल रहा है 9 अभी साफ करने अवशेष है। पूर्व में साफ किये गये रियेक्टर्स में भी स्लज ब्लैकेट नहीं बना है। जिसके कारण रियेक्टर्स की परफोर्मेंस पर्याप्त नहीं है। समस्त रियेक्टर्स एवं एयरेशन टैंक की सफाई होने के उपरान्त ही मानकानुसार के०पी०आई० प्राप्त की जा सकेगी। कार्य की गति धीमी है।

(स) इस संबंध में मै० के०आर०एम०पी०एल० के प्रतिनिधि श्री रॉय, परियोजना प्रबन्धक, द्वारा अवगत कराया गया कि इनपल्यूयेन्ट में सी०ओ०डी० अधिक मात्रा में आने के कारण के०पी०आई० मानकानुसार प्राप्त नहीं हो रहे हैं। रियेक्टर्स की सफाई का कार्य भी समानान्तर रूप से कराया जा रहा है। 4 रियेक्टर्स पूर्व में साफ कर लिये गये हैं। एक रियेक्टर की सफाई की आवश्यकता नहीं है। 1 रियेक्टर जून, 2021 एवं 2 रियेक्टर्स जुलाई, 2021 में साफ करके कमीशन कर दिये जायेंगे। एयरेशन टैंक की सफाई की भी प्लानिंग कर ली गयी है, उसका कार्य भी शीघ्र प्रस्तावित है।

(द) महाप्रबन्धक कानपुर द्वारा अवगत कराया गया कि मानकानुसार के०पी०आई० प्राप्त न होने पर मै० के०आर०एम०पी०एल० के देयकों से कटौती की गयी है। प्लांट पर प्राप्त हो रहे इनपल्यूएन्ट में सी०ओ०डी० एवं अन्य मानकों की मात्रा डिजाइन मानकों से अधिक प्राप्त होने पर के०पी०आई० मद में तदनुसारी कटौती नहीं की गई है। अर्थात् इनपल्यूएन्ट के मानक डिजाइन के अनुसार होने एवं एपलुएन्ट मानकानुसार न होने पर ही कटौती की गयी है।

(य) महाप्रबन्धक कानपुर द्वारा अवगत कराया कि एसटीपी पर प्राप्त हो रहे श्राव में सी०ओ०डी० की मात्रा अधिक होने के कारणों को विन्हित करने हेतु एक टीम गठित की गयी है, जिसमें 02 जू०ई० कार्यालय के हैं तथा 02 कार्मिक संबंधित फर्म मेसर्स के०आर०एम०पी०एल० के हैं। टीम को निर्देश दिये गये हैं कि एसटीपी से आच्छादित क्षेत्र का विस्तृत सर्वेक्षण करते हुये सी०ओ०डी० हेतु जिम्मेदार कारकों के संबंध में शीघ्र ही अवगत करायें।

(व) के०पी०आई० मानकानुसार प्राप्त न होने पर फर्म के देयकों से काटी गयी राशि के सम्बन्ध में एनएमसीजी के पत्र दिनांक 25.05.2021 में दिये गये निर्देशों पर अपनी सुस्पष्ट आख्या देने हेतु महाप्रबन्धक कानपुर को निर्देशित किया गया एवं मुख्य अभियन्ता (का०क्षे०) को प्लांट का विस्तृत निरीक्षण करते हुये आख्या एक सप्ताह में उपलब्ध कराने के निर्देश दिये गये।



बिनगवा प्लांट 210 MLD

(द) प्रबन्ध निदेशक द्वारा महाप्रबन्धक कानपुर को Revised Plan अपनी स्पष्ट संस्तुति सहित मुख्यालय प्रेषित करने के निर्देश दिये गये।

प्रधान कार्यालय, उ० प्र० जल निगम, लखनऊ

पत्रांक:- 484-022-022-23/2021

प्रतिलिपि निम्नलिखित को सूचनार्थ एवं उपरोक्तानुसार आवश्यक कार्यवाही हेतु प्रेषित:-

1. संयुक्त प्रबन्ध निदेशक(गंगा), उ० प्र० जल निगम, लखनऊ।
2. मुख्य अभियन्ता (गंगा), उ० प्र० जल निगम, लखनऊ।
3. मुख्य अभियन्ता (का०के०), उ० प्र० जल निगम, कानपुर।
4. नगर आयुक्त, नगर निगम, कानपुर।
5. महाप्रबन्धक, गंगा प्रदूषण नियन्त्रण इकाई, उ० प्र० जल निगम, कानपुर।
6. श्री जे०पी० त्रिपाठी, राष्ट्रीय स्वच्छ गंगा मिशन द्वारा नियुक्त पी०एम०सी० नै० एस०टी०सी० के प्रतिनिधि।
7. श्री मानोबेन्द्र रॉय, परियोजना प्रबन्धक, मेसर्स के०आर०एम०पी०एल, कानपुर।

(मानिक कुमार)  
प्रबन्ध निदेशक

दिनांक:-23-6-2021

प्रबन्ध निदेशक  
17/6/21



**Annexure 4: Monthly Performance Report of Bingawan for June 2021**

210 MLD SEWAGE TREATMENT PLANT, BINGAWAN, KANPUR																	
MONTHLY FLOW & LAB REPORT																	
Date	INLET FLOW in MLD	Plant Run in HRS	RAW SEWAGE						FINAL OUTLET						MONTH		REMARK
			Temp	TDS	PH (7-8)	COD (520)	BOD (222)	TSS (418)	Temp	TDS	PH (7-8)	COD (<100)	BOD (<30)	TSS (<50)	Sludge Concentration	POWER SHUTDOWN	
			°c	ppm	ppm	ppm	ppm	ppm	°c	ppm	ppm	ppm	ppm	ppm	%	HRS	
1-Jun-21	143.89	24.0	29	1080	7.2	624	175	560	29	1090	7.3	175	48	54	22	0.00	
2-Jun-21	141.98	24.0	29	1040	7.2	648	187	556	30	1080	7.2	182	51	51	20	0.00	
3-Jun-21	144.93	24.0	28	1060	7.2	608	178	548	27	1050	7.3	176	53	52	22	0.00	
4-Jun-21	142.68	24.0	29	1040	7.1	632	184	554	29	1050	7.3	192	56	60	21	0.00	
5-Jun-21	129.14	24.0	28	1070	7.1	616	175	540	27	1080	7.2	188	52	54	21	0.00	
6-Jun-21	150.66	24.0	30	1035	7.3	624	180	552	29	1060	7.5	196	58	57	22	0.00	
7-Jun-21	136.43	24.0	29	1045	7.1	600	185	547	28	1050	7.4	176	49	52	20	0.00	
8-Jun-21	128.44	24.0	28	1060	7.1	620	175	538	27	1070	7.3	208	51	48	20	0.00	
9-Jun-21	133.83	24.0	29	1020	7.3	666	190	548	29	1030	7.3	200	56	57	21	0.00	
10-Jun-21	138.37	24.0	29	1035	7.2	604	170	526	28	1055	7.4	192	52	51	21	0.00	
11-Jun-21	139.03	24.0	28	1040	7.1	624	180	554	28	1050	7.3	216	48	60	22	0.00	
12-Jun-21	168.08	24.0	28	1060	7.1	600	185	527	28	1070	7.3	188	50	54	20	0.00	
13-Jun-21	141.46	24.0	28	1030	7.1	592	175	532	28	1040	7.2	184	47	58	22	0.00	
14-Jun-21	148.41	24.0	29	1050	7.2	608	170	548	29	1060	7.3	176	45	49	21	0.00	
15-Jun-21	143.20	24.0	29	1090	7.1	596	165	560	28	1100	7.3	160	42	47	21	0.00	
16-Jun-21	148.75	24.0	28	1070	7.1	616	168	580	28	1090	7.3	164	43	60	20	0.00	
17-Jun-21	139.20	24.0	28	1060	7.1	600	160	575	28	1080	7.3	168	42	57	21	1.42	33kv Side Fault from KesCO Side
18-Jun-21	159.86	24.0	27	1020	7.0	604	175	560	26	1030	7.2	152	45	58	22	0.00	
19-Jun-21	156.56	24.0	26	1040	7.1	592	165	545	26	1050	7.3	144	43	48	22	0.00	
20-Jun-21	156.22	24.0	27	1050	7.1	608	170	570	27	1070	7.4	160	46	51	21	0.00	
21-Jun-21	64.74	24.0	28	1045	7.2	616	160	535	27	1055	7.4	164	42	49	22	18.83	33kv Side Fault from KesCO Side
22-Jun-21	43.22	24.0	29	1060	7.1	600	165	560	29	1080	7.3	176	44	54	20	24.00	33kv Side Fault from KesCO Side
23-Jun-21	66.99	24.0	29	1020	7.1	584	165	540	29	1130	7.3	140	41	50	20	18.17	33kv Side Fault from KesCO Side
24-Jun-21	144.06	24.0	30	1045	7.1	624	178	520	29	1050	7.3	124	43	48	21	0.00	
25-Jun-21	130.43	24.0	30	1060	7.2	704	190	535	28	1070	7.4	168	45	51	21	0.00	
26-Jun-21	125.70	24.0	30	1090	7.1	600	180	565	29	1100	7.3	144	47	54	21	0.00	
27-Jun-21	138.87	24.0	29	1080	7.0	648	185	545	30	1060	7.2	140	46	51	22	0.00	
28-Jun-21	142.68	24.0	28	1090	7.1	660	190	560	29	1060	7.3	124	41	54	21	0.00	
29-Jun-21	132.10	24.0	29	1100	7.2	648	175	570	30	1070	7.2	144	43	52	21	0.00	
30-Jun-21	137.47	24.0	29	1090	7.1	624	170	560	30	1060	7.2	140	42	49	22	0.92	33kv Side Fault from KesCO Side
1-Jul-21															0.00		
<b>TOTAL</b>	<b>4018.38</b>																
<b>AVG</b>	<b>133.95</b>	<b>24.00</b>	<b>28.57</b>	<b>1044.00</b>	<b>7.13</b>	<b>622.33</b>	<b>174.73</b>	<b>547.80</b>	<b>28.37</b>	<b>1068.00</b>	<b>7.30</b>	<b>168.17</b>	<b>46.77</b>	<b>52.47</b>	<b>21.10</b>	<b>63.33</b>	

**Annexure 5: Site Inspection Reports for the Month of June-2021 (Bingawan)**

**दिनांक 07.06.2021 को प्रबन्ध निदेशक, उ० प्र० जल निगम, लखनऊ द्वारा कानपुर के कार्यों के किये गये निरीक्षण का प्रतिवेदन**

कानपुर नगर में पूर्ण निर्मित अनुरक्षणाधीन जाजमऊ स्थित 130 एमएलडी एसटीपी, सजारी स्थित 43 एमएलडी एसटीपी एवं बिनगयां स्थित 210 एमएलडी एसटीपी तथा नमामि गंगे कार्यक्रम के अन्तर्गत निर्माणाधीन पनका एसटीपी का निरीक्षण किया गया। निरीक्षण के समय निम्नलिखित अधिकारी तथा मेसर्स के०आर०एम०पी०एल के प्रतिनिधि उपस्थित रहे-

1. श्री सुशील कुमार पटेल, संयुक्त प्रबन्ध निदेशक(गंगा), उ० प्र० जल निगम, लखनऊ।
2. श्री अक्षय त्रिपाठी, नगर आयुक्त, नगर निगम, कानपुर।
3. इं० बी०एल० गौतम, मुख्य अभियन्ता (का०क्षे०), उ० प्र० जल निगम, कानपुर।
4. इं० बी०के० गर्ग, महाप्रबन्धक, गंगा प्रदूषण नियन्त्रण इकाई, उ० प्र० जल निगम, कानपुर।
5. इं० रामशरण, अधीक्षण अभियन्ता, चतुर्विंश मण्डल, उ० प्र० जल निगम, कानपुर।
6. इं० अरुण कुमार, अधीक्षण अभियन्ता, निर्माण मण्डल (वि०/यौ०), उ० प्र० जल निगम, कानपुर।
7. इं० जे०पी० सिंह, अधीक्षण अभियन्ता (नागर), उ० प्र० जल निगम, लखनऊ।
8. इं० मो० अहसान, परियोजना प्रबन्धक(तृतीय), गं०प्र०नि०ई०, उ० प्र० जल निगम, कानपुर।
9. इं० जी०के० चौधरी, परियोजना प्रबन्धक(प्रथम), गं०प्र०नि०ई०, उ० प्र० जल निगम, कानपुर।
10. इं० मो० माज, परियोजना प्रबन्धक(वि०/यौ०), गं०प्र०नि०ई०, उ० प्र० जल निगम, कानपुर।
11. इं० देवेन्द्र सिंह, परियोजना प्रबन्धक, निर्माण इकाई- द्वितीय, उ० प्र० जल निगम, कानपुर।
12. श्री जे०पी० त्रिपाठी, राष्ट्रीय स्वच्छ गंगा मिशन द्वारा नियुक्त पी०एम०सी० के प्रतिनिधि।
13. श्री मानोबेन्द्र रॉय, परियोजना प्रबन्धक, मेसर्स के०आर०एम०पी०एल, कानपुर।
14. श्री अमित भराम्बे, मेसर्स के०आर०एम०पी०एल, कानपुर।

**1. जाजमऊ एसटीपी परिसर:**

महाप्रबन्धक, गंगा प्रदूषण नियन्त्रण इकाई, उ० प्र० जल निगम, कानपुर द्वारा अवगत कराया गया कि जाजमऊ परिसर में 36 एमएलडी क्षमता का सी०ई०टी०पी०, 5 एमएलडी, 43 एमएलडी एवं 130 एमएलडी क्षमता के एसटीपी निर्मित है। 130 एमएलडी क्षमता का एसटीपी रखरखाव, संचालन एवं रेनोवेशन हेतु नमामि गंगे कार्यक्रमान्तर्गत मै० के०आर०एम०पी०एल०, कानपुर (मै० शापुरजी पॉलनजी प्र०लि०, मुम्बई द्वारा गठित एस०पी०वी०) को दिनांक 01.03.2021 को हस्तगत किया गया है। 43 एमएलडी क्षमता का एसटीपी भी मै० के०आर०एम०पी०एल०, कानपुर को हस्तान्तरित किया जाना है। 43 एमएलडी क्षमता के एसटीपी के संयुक्त निरीक्षण रिपोर्ट की कम्प्लायन्स मै० के०आर०एम०पी०एल०, कानपुर को दिनांक 06.05.2021 को उपलब्ध करायी गयी है। इसी प्रकार 130 एमएलडी एसटीपी के 4 नग पम्पिंग स्टेशन भी अभी तक फर्म द्वारा हस्तगत नहीं किये गये है।

(अ) श्री मानोबेन्द्र रॉय, परियोजना प्रबन्धक मै०के०आर०एम०पी०एल० द्वारा अवगत कराया गया कि 130 एमएलडी एसटीपी के 4 नग पम्पिंग स्टेशन्स का निरीक्षण किया जा चुका है, जिसे 10.06.2021 तक हस्तगत कर लिया जायेगा। 43 एमएलडी क्षमता के एसटीपी के संबंध में श्री रॉय परियोजना प्रबन्धक मै०के०आर०एम०पी०एल० द्वारा अवगत कराया गया कि सन्दर्भित एसटीपी कुछ कमियों के कारण हस्तगत नहीं हो पा रहा है। एसटीपी की स्लज हैण्डलिंग यूनिट ठीक से क्रियाशील न होने के साथ सीपेज की समस्या है तथा ऑनलाइन मॉनीटरिंग सिस्टम भी नहीं लगा है।

(ब) महाप्रबन्धक कानपुर एवं श्री मानोबेन्द्र रॉय, परियोजना प्रबन्धक मै०के०आर०एम०पी०एल० को निर्देश दिये गये कि इंगित कमियों को यथासम्भव ठीक कराकर दिनांक 20.06.2021 तक प्लान्ट मै० के०आर०एम०पी०एल० को हस्तान्तरित किया जाए। ऑनलाइन मॉनीटरिंग सिस्टम के लिये पृथक से वांछित कार्यवाही की जाये। इसके लिये हस्तान्तरण बाधित नहीं होना चाहिए।

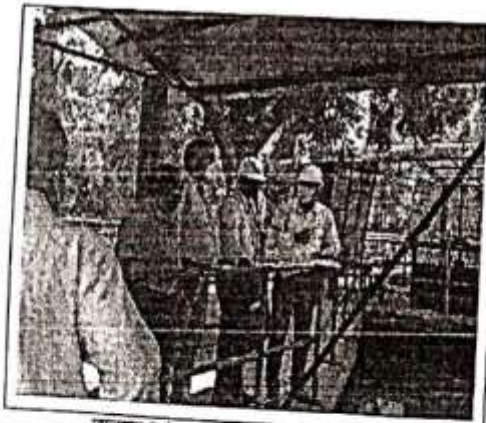
(रा) 130 एमएलडी एसटीपी एवं सीएसपीएस से गंगा नदी में हो रहे ओवरफ्लो के सम्बन्ध में मै0 के0आर0एम0पी0एल0 को निर्देशित किया गया कि रेनोवेशन/संचालन की अवधि में भी किसी प्रकार का ओवर फ्लो गंगा नदी में नहीं होना चाहिये, जिसे सुनिश्चित कराया जाय। इस सम्बन्ध में कन्ससनेयर एग्नीमेंट के प्राविधानों के अनुरूप मै0 के0आर0एम0पी0एल0 द्वारा रेनोवेशन के दौरान एक यूनिट बन्द करने के फलस्वरूप अतिरिक्त डिस्चार्ज के शोघन हेतु बायो-रिमेडियेशन का प्रस्तुत प्रस्ताव पर अनुबन्ध के प्राविधानों के अन्तर्गत कार्यवाही की जाये। गंगा नदी में किये जा रहे ओवरफ्लो के दृष्टिगत उ0 प्र0 प्रदूषण नियन्त्रण बोर्ड द्वारा लगाये गये जुर्माने की राशि की वसूली भी मै0 के0आर0एम0पी0एल0 से करने के निर्देश महाप्रबन्धक को दिये गये। 130 एमएलडी एसटीपी पर अधिष्ठापित कैमरे एवं फ्लोमीटर क्रियाशील न होने पर मै0 के0आर0एम0पी0एल0 से अप्रसन्नता व्यक्त करते हुये इन को शीघ्र ठीक कराने के निर्देश भी दिये गये। महाप्रबन्धक कानपुर को मै0 के0आर0एम0पी0एल0 द्वारा दिनांक 31.05.2021 को प्रस्तुत रेनोवेशन प्लान पर शीघ्र स्वीकृति हेतु कार्यवाही करने के निर्देश दिये गये।

### 2. 36 एमएलडी सी0ई0टी0पी0:

(अ) 36 एमएलडी सी0ई0टी0पी0 का संचालन सुचारू रूप से होने परन्तु संचालन हेतु धन प्राप्त न होने के संबंध में महाप्रबन्धक कानपुर द्वारा अवगत कराया गया कि टैनरी स्वामियों एवं नगर निगम द्वारा धन उपलब्ध न कराये जाने के कारण सी0ई0टी0पी0 के संचालन में कठिनाई हो रही है। धन उपलब्ध कराने हेतु नगर आयुक्त कानपुर से अपेक्षा की गयी। महाप्रबन्धक कानपुर द्वारा अवगत कराना गया कि टैनरी स्वामियों को आर0सी0 जारी करने हेतु नोटिस जारी किये गये है।

(ब) नगर आयुक्त द्वारा अवगत कराया कि पूर्व में प्राप्त विवरण के अनुसार नगर निगम द्वारा टैनरी स्वामियों के सापेक्ष अधिक धन उपलब्ध कराया गया है। अतः टैनरी स्वामियों से वसूली हेतु आर0सी0 के माध्यम से वसूली की जाए। यद्यपि नगर निगम द्वारा रू0 3.50 करोड़ अवमुक्त किये जाने हेतु प्रक्रिया प्रारम्भ की दी गयी है।

(स) निर्देश दिये गये कि वसूली हेतु आर0सी0 जारी करने के संबंध में कार्यदायी संस्था द्वारा आर0सी0 जारी किये जाने की वैधानिकता जांच ली जाए। जिससे बाद में कोई वैधानिक अड़चन संज्ञान में आने पर कठिनाई न हो। तदनुसार ही कार्यवाही की जाये।



जावमऊ प्लांट



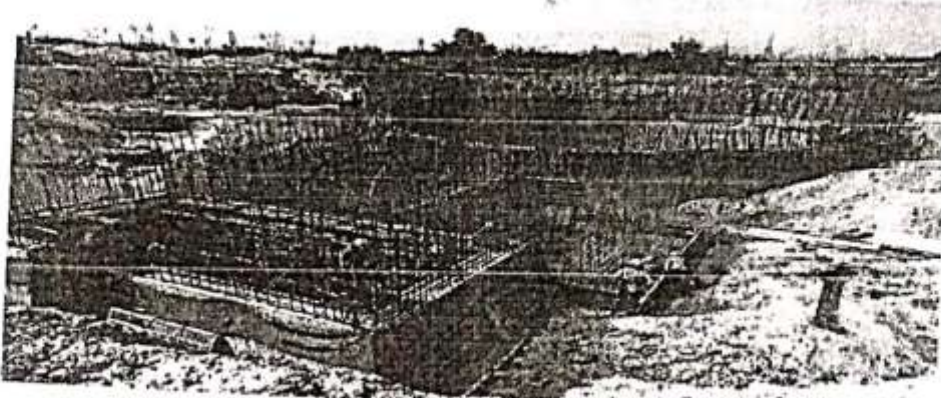
जावमऊ प्लांट सभागार

### 3. 210 एमएलडी एसटीपी बिनगवों:

(अ) महाप्रबन्धक कानपुर द्वारा सूचित किया गया कि इस एसटीपी पर 130-135 एमएलडी श्राव प्राप्त हो रहा है। एसटीपी का रखरखाव सुचारू रूप से न होने के कारण प्लाण्ट नॉन-कम्पलाएन्ट हो गया है।

**4. 43 एमएलडी एसटीपी सजारी:**

- (अ) महाप्रबन्धक द्वारा अवगत कराया गया कि संदर्भित एसटीपी दिनांक 28.05.2019 को संचालन एवं रखरखाव हेतु मै0 के0आर0एम0पी0एल0 को हस्तान्तरित किया गया है। वर्तमान में प्लांट पर लगभग 21 एमएलडी श्राव का शोधन किया जा रहा है। शोधित श्राव के के0पी0आई0 मानकानुसार प्राप्त हो रहे हैं। प्रबन्ध निदेशक द्वारा मेसर्स के0आर0एम0पी0एल के प्रतिनिधि से 3 गैस इन्जिन्स में से 2 गैस इन्जिन ही ठीक होने, एक रलज डायजेस्टर ठीक न होने के संबंध में पूछे जाने पर श्री मानोबेन्द्र रॉय परियोजना प्रबन्धक मै0 के0आर0एम0पी0एल0 द्वारा अवगत कराया गया कि एक खराब गैस इन्जिन की मरम्मत हेतु एजेन्सी को कार्यादेश दे दिया गया है, जिसके द्वारा दिनांक 30.06.2021 तक मरम्मत पूर्ण कर दी जायेगी। रलज डायजेस्टर की मरम्मत का कार्य भी 15 जुलाई, 2021 तक पूर्ण कर लिया जायेगा।
- (ब) एसटीपी के प्रतिनिधि श्री जे0पी0 त्रिपाठी द्वारा अवगत कराया गया कि मेसर्स के0आर0एम0पी0एल द्वारा प्रथम वर्ष के शेड्यूल मेन्टेनेन्स कार्य भी पूर्ण नहीं किये गये हैं एवं मेसर्स के0आर0एम0पी0एल द्वारा एयरेटर्स को पूर्ण क्षमता पर भी नहीं चलाया जा रहा है।
- (स) प्रबन्ध निदेशक द्वारा महाप्रबन्धक कानपुर को उक्त विषय पर अपनी विस्तृत रिपोर्ट उपलब्ध कराने हेतु निर्देशित किया गया



पनखा प्रोजेक्ट साइट

**5. 30 एमएलडी निर्माणाधीन एसटीपी पनका:**

- (अ) महाप्रबन्धक द्वारा अवगत कराया गया कि संदर्भित कार्य मै0 के0आर0एम0पी0एल0 द्वारा किया जा रहा है। योजनान्तर्गत 3 नालों की टैपिंग, 2 नग आईपीएस, 1 नग एमपीएस, 30 एमएलडी क्षमता का एस0वी0आर0 तकनीक आधारित एसटीपी का निर्माण एवं लगभग 16 किमी सीवर लाइन बिछाया जाना प्रस्तावित है। योजना पूर्ण करने की पूर्व निर्धारित तिथि 25.08.2021 (ट्रायल रन रहित) प्रस्तुत किया गया है। वर्तमान में चतुर्थ माइलस्टोन के कार्य प्रगति पर है। अद्यतन प्रगति 46 प्रतिशत है। चतुर्थ माइलस्टोन दिनांक 25.03.2021 को पूर्ण किया जाना था, जो पुनरीक्षित प्लान के अनुसार 01.07.2021 को अपेक्षित है।
- (ब) एसटीपी के प्रतिनिधि श्री त्रिपाठी द्वारा अवगत कराया गया कि चतुर्थ माइलस्टोन में फर्म द्वारा 3 माह से अधिक का समय प्रस्तावित किया गया है, जबकि इसके आगे के माइलस्टोन में प्रत्येक में लगभग 1 माह का समय प्रस्तावित है। 1 माह में माइलस्टोन पूर्ण किया जाना संदिग्ध है।
- (स) मेसर्स के0आर0एम0पी0एल के प्रतिनिधि द्वारा अवगत कराया गया कि आगे के माइलस्टोन में अधिकांश कार्य विद्युत यंत्रिक से संबंधित है, उनको शीघ्रता से पूर्ण कराया जायेगा। यद्यपि यह Challenging है परन्तु हम इसे करेंगे।

कै0पी0आई0 प्राप्त न होने के कारण मै0 कै0आर0एम0पी0एल0 के भुगतान से कटौती की गयी है तथा मै0 कै0आर0एम0पी0एल0 को नॉन एवीलिबिलिटी ऑफ प्लान्ट का नोटिस भी दिया गया है।

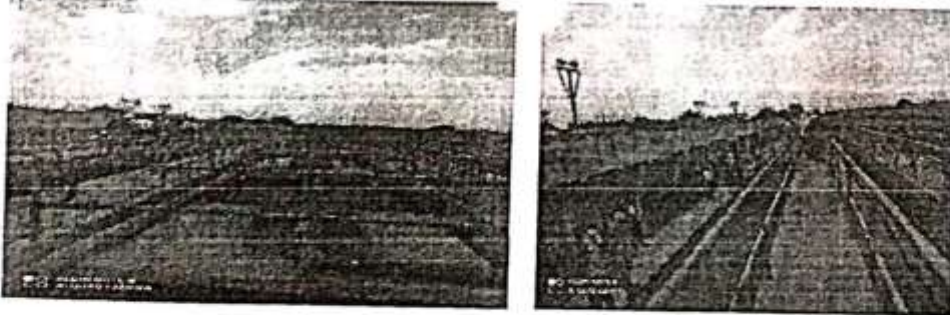
(ब) एसटीसी के प्रतिनिधि श्री त्रिपाठी द्वारा अवगत कराया गया कि मै0 कै0आर0एम0पी0एल0 द्वारा प्लाण्ट पर रखरखाव कार्य ठीक प्रकार न किये जाने, रियेक्टर्स एवं एयरेशन टैंक की सफाई न किये जाने के कारण प्लाण्ट की स्थिति धीरे-धीरे खराब होती चली गई है। 16 रियेक्टर्स में से मात्र 4 रियेक्टर्स ही अभी तक साफ हो सके हैं 3 पर कार्य चल रहा है 9 अभी साफ करने अवशेष है। पूर्व में साफ किये गये रियेक्टर्स में भी स्लज ब्लैकेट नहीं बना है। जिसके कारण रियेक्टर्स की परफोमेंन्स पर्याप्त नहीं है। समस्त रियेक्टर्स एवं एयरेशन टैंक की सफाई होने के उपरान्त ही मानकानुसार कै0पी0आई0 प्राप्त की जा सकेगी। कार्य की गति धीमी है।

(स) इस संबंध में मै0 कै0आर0एम0पी0एल0 के प्रतिनिधि श्री रॉय, परियोजना प्रबन्धक, द्वारा अवगत कराया गया कि इनपल्यूयेन्ट में सी0ओ0डी0 अधिक मात्रा में आने के कारण कै0पी0आई0 मानकानुसार प्राप्त नहीं हो रहे हैं। रियेक्टर्स की सफाई का कार्य भी समानान्तर रूप से कराया जा रहा है। 4 रियेक्टर्स पूर्व में साफ कर लिये गये हैं। एक रियेक्टर की सफाई की आवश्यकता नहीं है। 1 रियेक्टर जून, 2021 एवं 2 रियेक्टर्स जुलाई, 2021 में साफ करके कमीशन कर दिये जायेंगे। एयरेशन टैंक की सफाई की भी प्लानिंग कर ली गयी है, उसका कार्य भी शीघ्र प्रस्तावित है।

(द) महाप्रबन्धक कानपुर द्वारा अवगत कराया गया कि मानकानुसार कै0पी0आई0 प्राप्त न होने पर मै0 कै0आर0एम0पी0एल0 के देयकों से कटौती की गयी है। प्लांट पर प्राप्त हो रहे इनपलूएण्ट में सी0ओ0डी0 एवं अन्य मानकों की मात्रा डिजाइन मानकों से अधिक प्राप्त होने पर कै0पी0आई0 मद में तदनुरूपी कटौती नहीं की गई है। अर्थात् इनपलूएण्ट के मानक डिजाइन के अनुसार होने एवं एपलूएण्ट मानकानुसार न होने पर ही कटौती की गयी है।

(य) महाप्रबन्धक कानपुर द्वारा अवगत कराया कि एसटीपी पर प्राप्त हो रहे श्राव में सी0ओ0डी0 की मात्रा अधिक होने के कारणों को चिन्हित करने हेतु एक टीम गठित की गयी है, जिसमें 02 जू0ई0 कार्यालय के हैं तथा 02 कार्मिक संबंधित फर्म मेसर्स कै0आर0एम0पी0एल के हैं। टीम को निर्देश दिये गये हैं कि एसटीपी से आच्छादित क्षेत्र का विस्तृत सर्वेक्षण करते हुये सी0ओ0डी0 हेतु जिम्मेदार कारकों के संबंध में शीघ्र ही अवगत करायें।

(व) कै0पी0आई0 मानकानुसार प्राप्त न होने पर फर्म के देयकों से काटी गयी राशि के सम्बन्ध में एनएमसीजी के पत्र दिनांक 25.05.2021 में दिये गये निर्देशों पर अपनी सुस्पष्ट आख्या देने हेतु महाप्रबन्धक कानपुर को निर्देशित किया गया एवं मुख्य अभियन्ता (का0क्षे0) को प्लाण्ट का विस्तृत निरीक्षण करते हुये आख्या एक सप्ताह में उपलब्ध कराने के निर्देश दिये गये।



विनगवा प्लांट 210 MLD

(द) प्रबन्ध निदेशक द्वारा महाप्रबन्धक कानपुर को Revised Plan अपनी स्पष्ट संस्तुति सहित मुख्यालय प्रेषित करने के निर्देश दिये गये।

प्रधान कार्यालय, उ० प्र० जल निगम, लखनऊ

पत्रांक:- 484-622-622-23/2021

प्रतिलिपि निम्नलिखित को सूचनार्थ एवं उपरोक्तानुसार आवश्यक कार्यवाही हेतु प्रेषित:-

1. संयुक्त प्रबन्ध निदेशक(गंगा), उ० प्र० जल निगम, लखनऊ।
2. मुख्य अभियन्ता (गंगा), उ० प्र० जल निगम, लखनऊ।
3. मुख्य अभियन्ता (का०क्षे०), उ० प्र० जल निगम, कानपुर।
4. नगर आयुक्त, नगर निगम, कानपुर।
5. महाप्रबन्धक, गंगा प्रदूषण नियन्त्रण इकाई, उ० प्र० जल निगम, कानपुर।
6. श्री जे०पी० त्रिपाठी, राष्ट्रीय स्वच्छ गंगा मिशन द्वारा नियुक्त पी०एम०सी० नो एस०टी०सी० के प्रतिनिधि।
7. श्री नानोबेन्द्र सॉय, परियोजना प्रबन्धक, मेसर्स के०आर०एम०पी०एल, कानपुर।

(अनिल कुमार)  
प्रबन्ध निदेशक

दिनांक:- 23-6-2021

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प्रबन्ध निदेशक  
17/6/21

**Inspection Report of Bingwan 210 MLD STP Kanpur under Namami Gange- HAM Project by Er. B.L. Gautam, Chief Engineer, Kanpur Zone, U.P. Jal Nigam ,Kanpur.**

Date of Site Visit	15.06.2021
Presence	Er. Bijendra Kumar Garg, General Manager, Ganga Pollution Control Unit, U.P. Jal Nigam Kanpur  Er. M. Ahsaan, Project Manager III, Ganga Pollution Control Unit, U.P. Jal Nigam Kanpur Er. Mohd maaz.,Project Manager (E&M) Ganga Pollution Control Unit, U.P. Jal Nigam Kanpur Er.Rajesh Kumar , Project Engineer(E&M), Ganga Pollution Control Unit, U.P. Jal Nigam Kanpur. Dr.Giridhar Prabhukumar ,Team leader ,STC kanpur, Er.J.P.Tripathi ,O&M incharge,STC kanpur, Er.Ajay Kumar Goyal ,Support Engineer(Mech.),STC Kanpur, Mr.Manobendra Roy,Project Manager, Kanpur River Management Private Ltd (KRMPL),Kanpur. Mr.Amit Bharambe,O&M Manager, Kanpur River Management Private Ltd (KRMPL),Kanpur.

**Following points were observed during inspection:-**

1. 210 MLD Bingawan STP and its associated works were handed over by General Manager Ganga pollution control unit U.P. Jal Nigam Kanpur to M/s Kanpur River Management Private Ltd. on 08/07/2019. The Plant performance was satisfactory till Nov 2019 meeting all KPIs except COD for certain days when COD of Influent was beyond prescribed limit. After handover date till Nov 2019 extraction of sludge from UASB Reactors was not proper which resulted reactors getting fully filled with sludge. On account of that KPIs of treated effluent are not within prescribed limits.

**2. Collection Chamber:-**

- Out of 2 nos. of Manual screens installed, 01 no. Manual screen is not in working condition.
- 2 nos. of Mechanical coarse screens installed, both are not in working condition. 01 no. Mechanical screen is out of order. ( Fig 01)

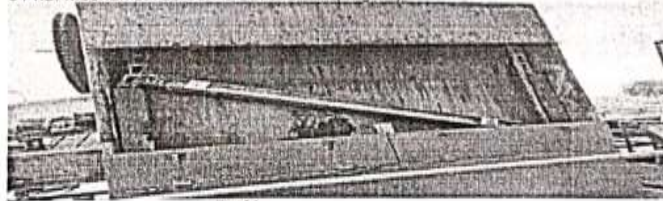


Fig 01

- Pedestal of handrail is having cracks at collection chamber.(fig 02)

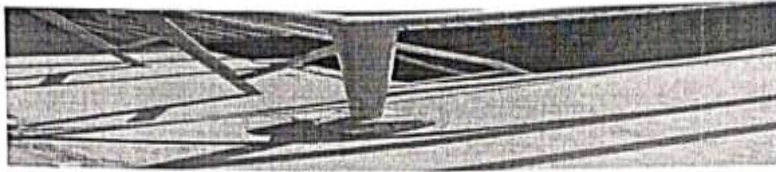


Fig 02

**Electrical Defects:-****Bar Screen Panel**

- Voltmeter / Ammeter and phase light indicator of Bar Screen are not in working condition.
- Panel Earthing has been found damaged.
- Panel indoor light not fixed.
- Some items are missing from panels and panel door has been found damaged.
- Bar Screen panel mounting bolt and fasteners has been found not fixed.

**3. Main Pumping Station:-**

- Out of 12 nos. sewage transfer pumps installed, 02 no. (Pump no.9 & 4) pumps are not in working condition. (fig 03 discussing near inlet chamber)



Fig :03

- 02 Nos. electromagnetic flow meters are installed at the inlet, Both flow meters are not in working condition.
- Butterfly valve chamber was found collapsed. Excavation for construction of damaged Butterfly chamber has been done & left open in hazardous condition.

**4. Inlet Chamber:-**

- Out of 03 nos. installed Mechanical fine screens only 2 nos. are in working condition. Mechanical screen no.2 is not in working from 02/03/2021.(fig.04 & 05)





Fig :04



Fig:05

- Sepage found in civil structure.(Fig 06)

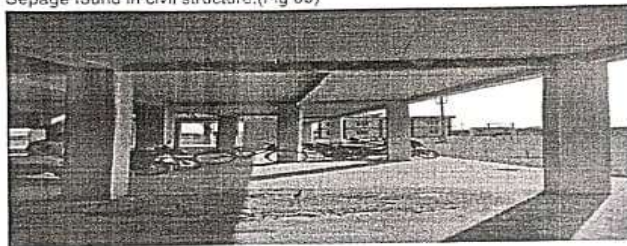


Fig: 06

- **Electrical defects:-**
  - In Inlet Control Panel indicators are not working.
  - Incomer panel Voltmeter and Ammeter are not working.
  - Classifier Drive –MCC Panel (Main drive -2) Ammeter are not in working condition
  - In Inlet control panel ON/OFF push button, Rotary switch of screen no.2 is not in working condition.
  - Cable tray has been found in rusted condition.
  - 8 nos. lights have been found in damaged condition.
  - Organic pump main drive-4 ammeter are not in working condition.
5. **Grit removal assembly:-**
- Out of 4 nos. of Mechanical grit removal systems installed, 01 no.(Grit no.03) Mechanical grit removal system is not in working condition. (Fig 07).



Fig:07

- In Inlet Control Panel indicators are not working.
- Out of 04 agitators installed, 01 no. agitator is not in working condition.
- Grit dumped on the ground and not properly disposed as per Fig.08.No trolley available at site for disposal of grit.



Fig:08 (Grit )

#### 6. UASB Reactors:-

Out of 16 Reactors 4 reactors (Reactors Nos. 1, 2, 4 & 8) have been cleaned and refilled and activated again, 3 reactors (no. 3, 5 & 6) are open for cleaning; remaining 9 reactors are filled with sludge and need cleaning and reactivation.

KRMPL has submitted action plan for cleaning of reactors today which shows that all the remaining reactors are to be cleaned by 31/12/2022 which is a very long time. Hence it is not acceptable. Still there is no any satisfactory improvement in cleaning & reactivation activity of reactors.(Fig09,10 &11).



Fig: (09) Reactor No.03.



Fig: (10) Reactor No.05



Fig:11

#### 7. Belt filter press:-

- All 3 nos installed Belt filter press are in working condition, but only 02 nos. are being operated at a time as per design.
- Out of 3 nos. poly dosing pump installed, leakage was found in 1no. dosing pump. This matter is pending since 07.10.2020 (Fig.12)

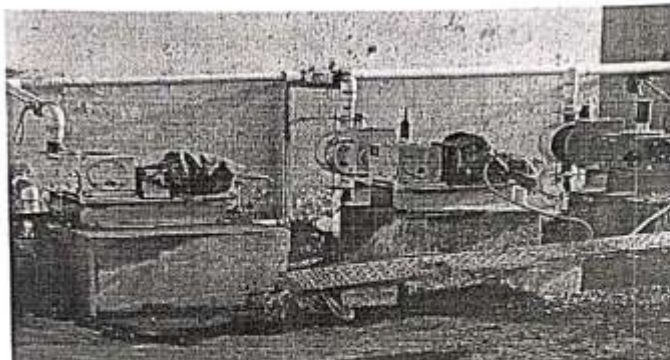


Fig:12 (poly dosing area)

- Only 02 Nos trolleys are available at site for sludge disposal which are not sufficient. As per site requirement minimum 04 nos. trolleys are required for sludge disposal. (3 nos trolleys for sludge disposal at Belt filter press and other 01 no. for grit removal.)
- Sludge Testing Arrangement is not available in the Laboratory. Hence it should be got tested from out side NABL accredited laboratory.
- Sludge disposal is not being done at a proper place behind Polishing pond as instructed by UPJN/ PE, it is being disposed off haphazardly nearby administrative building (fig .13)



Fig:13

#### **B. Aeration pond:-**

- Out of 18 nos. aerators installed, 2 nos. (Aerator no.7 & 18) are not in working condition.
- Painting of panels and hand railing is required to be taken up immediately.

- Most of the cable trays are in corroded condition, which need to be painted/ replaced.

#### 9. Chlorination Building:-

- Out of 20 nos. chlorine tonners, only 17 nos. tonners are available in the chlorine room KRMPL people could not reply about 3nos. missing chlorine tonner.
- Only 2 nos. chlorine tonners were found connected with the system.
- 1 week stock is required to be available all the time.

#### 10. Gas Holder:-

Both gas holders are not in working condition, 01 no. Gas holder is not in proper alignment as per below fig.14. Gas holder no.02 is under repair work but at the time of visit no any manpower engaged by KRMPL.

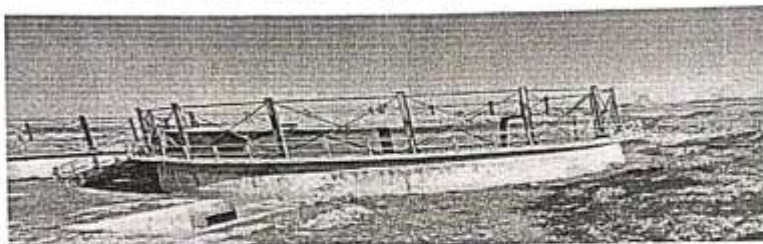


Fig.14

#### 11. Bio gas Scrubber System:

H<sub>2</sub>S scrubber system is not in working condition. Servicing of scrubbing system is required. Due to non-functioning of scrubber system, H<sub>2</sub>S free biogas is not available for operation of DFG sets on Dual fuel.

#### 12. Synchronizing Panel for DFG:

Synchronising panel for DFG sets is not in working condition.

#### 13. IP Camera:

There are two cameras installed at inlet and outlet of the STP. These cameras can be seen on mobile app. Due to problem in static IP connection, cameras are not connected to central server.

#### 14. Housekeeping:

- Around UASB reactors housekeeping is very poor, all garbage near UASB reactors to be cleaned and bushes are to be cut and cleaned ,(fig.15 &16).



Fig 15



Fig 16

• KRMPL was instructed to develop Eco-garden in the campus of Bingawan plant.  
Above observations prove that O & M of the plant is very poor and is in breakdown condition as several components /parts are under maintenance for a long time. KRMPL has been directed to take necessary steps to improve the plant and present a time bound schedule for improvement.

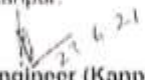
(B.L.Gautam)  
Chief Engineer (Kanpur Zone)

**Office of the Chief Engineer (Kanpur Zone) U.P Jal Nigam Kanpur**

Letter No 1516 / W-23 / 02 dt. 23-6-2021

Copy to the following for information and necessary action:-

1. PS to Managing Director ,UP Jal Nigam Lucknow.
2. Joint Managing Director (Ganga) ,UP Jal Nigam Lucknow.
3. Chief Engineer. (Ganga), UP Jal Nigam Lucknow.
4. General Manger , Ganga Pollution Control Unit, UP Jal Nigam, Kanpur.
- 5. Project Manger-III, Ganga Pollution Control Unit, UP Jal Nigam, Kanpur.
- 6. Project Manger-(E&M) , Ganga Pollution Control Unit, UP Jal Nigam, Kanpur.
- 7. Project Manager Kanpur River Management Private Ltd, Kanpur.
8. Team Leader, STC. Kanpur.

  
Chief Engineer (Kanpur Zone)