

# 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

DECEMBER - 2021



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Uttar Pradesh Jal  
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Uttar Pradesh -  
208002



**Funding Agency**  
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## ABBREVIATIONS

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

# MONTHLY PROGRESS REPORT – HAM KANPUR

## 1. INTRODUCTION

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

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

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

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

- three new STP facilities(30 MLD Pankha, 15 MLD Unnao&5 MLD Shuklaganj)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)

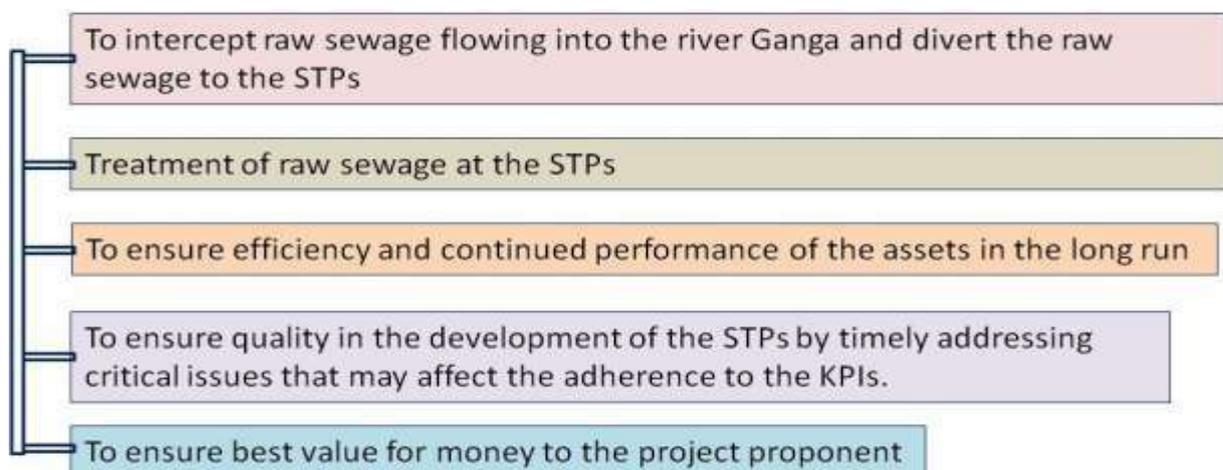
Government of India has approved the Namami Gange program as an integrated approach for effective abatement of pollution in river Ganga and Yamuna. As part of this and to ensure that no untreated domestic sewage flow into the river Ganga and Yamuna, various interventions are planned such as Interception & 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 Facility	Capacity/Dia./Size	Nos./Length
<b>Date of Start- Effective Date (11.10.2019)</b>			
<b>Scope of Work- New Construction and O&amp;M</b>			
1	STP	30 MLD	1
2	MPS	115MLD	1
3	ICI Nala IPS	25 MLD	1
4	Sundar Nagar	20 MLD	1
5	Thermal Nala (A) tapping	22 MLD	1
6	Thermal Nala (B)(tapping)	8 MLD	1
7	ICI Nala (tapping)	7.85 MLD	1
8	Rising main (IC Nala IPS to collection chamber)	800mm- $\phi$	6.450 km
9	Rising main (Sundar Nagar IPS to collection chamber)	800mm- $\phi$	0.547 km
10	Common Gravity main (collection chamber to MPS)	2000mm- $\phi$	1.948Km
11	Sewer network		16.624 km
		350mm- $\phi$	2.258 km
		400 mm- $\phi$	0.611 km
		450 mm- $\phi$	0.704 km
		500 mm- $\phi$	0.718 km
		600 mm- $\phi$	1.046 km
		700 mm- $\phi$	1.079 km
		800 mm- $\phi$	3.226 km
		900 mm- $\phi$	1.171 km
		1000 mm- $\phi$	0.060 km
		1200 mm- $\phi$	2.290 km
		1600 mm- $\phi$	1.635 km
		2000 mm- $\phi$	1.826 km
12	Manhole		308 nos.

## 5.2 UNNAO FACILITIES

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

**Table 5.2: Unnao Facilities**

SN	STP Facility	Capacity/Dia./Size	Nos./Length
<b>Date of Start- Effective Date (11.10.2019)</b>			
<b>Scope of Work- New Construction and O&amp;M</b>			
1.	STP	15 MLD	1
2.	Sump cum Pump house (MPS)	40 MLD	1
3.	I&D works (Nala tapping)	90 MLD	1
4.	Trunk Sewer	1200mm $\phi$	3.6Km
5.	Manholes		46 nos.
6.	Rising main (MPS to STP)	750mm $\phi$	100m
7.	Rising main (bypass)	750mm $\phi$	100m
8.	Effluent gravity channel (STP to discharge point)	1.5m x1.0m	300m
9.	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 Facility	Capacity/Dia./Size	Nos./Length
<b>Date of Start- Effective Date (11.10.2019)</b>			
<b>Scope of Work- New Construction and O&amp;M</b>			
1.	STP	5 MLD	1
2.	Sump cum Pump house (MPS)	20 MLD	1
3.	Connecting sewer (in zone 2)	400-500mm $\phi$	200m
	Effluent Disposal line	400mm $\phi$	310m
	(I&D to STP)	600mm $\phi$	430m
	I&D works (Nala tapping)	45 MLD	1
4.	Collection chamber	3.5mx3.6mx1m	1
5.	Rising main (MPS to STP)	500mm $\phi$	50m
6.	Rising main (bypass)	500mm $\phi$	50m
7.	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 Facility	Capacity/Dia./Size
<b>Date of Start- Effective Date (11.10.2019)</b>		
<b>Scope of Work- Renovation and O&amp;M</b>		
1	STP (ASP) with power Generation	130 MLD
2	Sump cum Pump house (TEPH)	200 MLD
3	CCT	173 MLD
4	Nawabganj IPS	14.35 MLD
	PH1	5.35 MLD
	PH2	9 MLD
7	Parvat IPS	66.67 MLD
	PH1	32.83 MLD
	PH2	21.6 MLD
	PH3	12.4 MLD
11	Baba Ghat / Muar mill IPS	7.42 MLD
	Guptar Ghat IPS	1.44 MLD
	Jajmau CSPA	129.6 MLD

#### 5.5 JAJMAU PHASE II STP FACILITY

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

SN	STP Facility	Capacity/Dia./Size
<b>Date of Start- Effective Date (11.10.2019)</b>		
<b>Scope of Work- Renovation and O&amp;M</b>		
1	Khalasi Lane IPS	50.69 MLD
2	Sanjaypuram IPS	4.03 MLD
3	Jajmau MPS	25 MLD

## 5.6 BINGAWAN FACILITIES

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

**Table 5.5: Bingawan Facilities**

SN	STP Facility	Capacity/Dia./Size
<b>Schedule Handing Over Date- 01.04.2019</b>		
<b>Scope of Work- Renovation and O&amp;M</b>		
1	STP (USAB)	210 MLD
2	Installation of online monitoring system (RTOLMS)	
3	Bingawan MPS	200 MLD
4	Rakhimandi IPS	108 MLD
5	Halwakhanda IPS	69.12 MLD
	Munshipurwa IPS	18.79 MLD
7	Sisamau Nala (tapping)	8 MLD

## 5.7 SAJARI FACILITIES

Project wise component detail of Sajari is given in table 5.6

**Table 5.6: Sajari Facilities**

SN	STP Facility	Capacity/Dia./Size
<b>Schedule Handing Over Date- 11.10.2019</b>		
<b>Scope of Work- O&amp;M for 15 years</b>		
1	STP on ASP Technology	42 MLD
2	MPS	42.24 MLD
3	Chakeri IPS	14.33 MLD
4	Sanigawan IPS	14.33 MLD

## 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 started after effective date 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.

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%. Execution of works of new STP facilities and O&M of existing facilities were hampered because of COVID-19 pandemic. Nationwide lockdown was imposed in April 2020 to June 2020 due to which work progress was affected severely. Again in April 2021, due to second wave of COVID-19 progress of work was again affected as majority of workers, staff and officials were affected by the second wave of COVID pandemic.

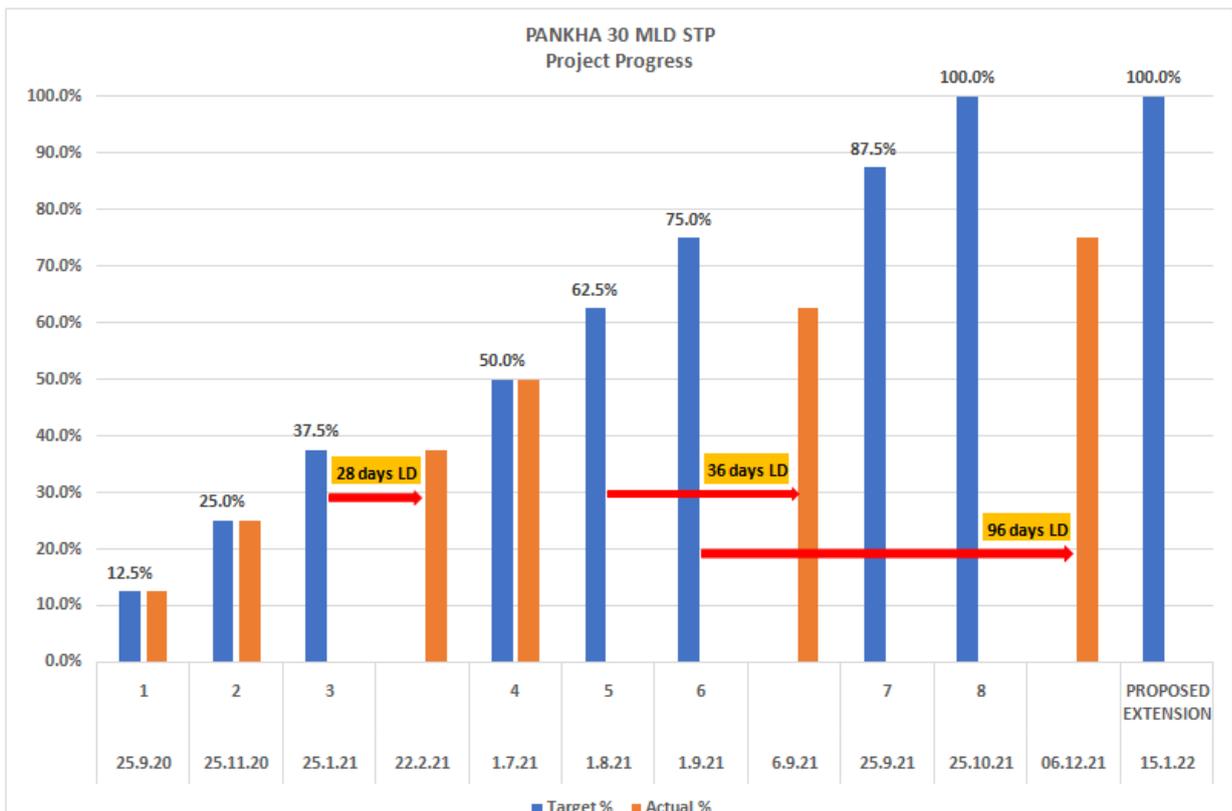
Once process of unlock started, the Concessionaire was asked to speed up the work. The Concessionaire submitted revised construction plans for new STP construction facilities compensating relevant construction milestone works with extended timeline. Originally, the scheduled date of project completion was 10<sup>th</sup> October 2021 i.e. 24 months from the effective date. But due to COVID pandemic and heavy rainfall during monsoon season of 2021, milestone works were lagging far behind the schedule. On dated 03.09.2021, in the JMD UPJN meeting, new target date for completion of balance works of Pankha and Unnao STPs was given i.e. 15<sup>th</sup> Dec. 2021.

But the works of these STPs couldn't be completed on 15<sup>th</sup> Dec. 2021 due to inadequate deployment of manpower and poor work planning / lack of double shift working at these facilities. In the NMCG meeting dated 30.12.2021, the Concessionaire assured to make Pankha plant operational on 15.01.2022 by taking Thermal Nala A flow into the STP. For Unnao STP, NMCG directed the Concessionaire to complete the works of STP by 31.01.2022. The progress of construction of new STP facilities is given in following headings.

### 6.1 MILESTONE WISE ACTIVITIES AND PROGRESS: PANKHA STP FACILITIES

The progress of works related to the 30 MLD STP at Pankha is extremely slow and unsatisfactory. The schedule date for completion of the final 8<sup>th</sup> milestone (25.10.2021) has already been passed but till date only 6 milestones could be completed. In the meeting dated 30.12.2021, KRMPL was directed to make Pankha plant operational by 15.01.2022. Status and progress of Pankha STP is as following:

- Till Dec. 2021 overall progress is approx 77.7% out of target of 100%. During Dec. 2021, manpower deployed at the site was in the range of 250-270. KRMPL need to increase the manpower over 300 and work in night shift as directed in the NMCG meeting dated 17.11.2021 and 30.12.2021 so that simultaneous works on multiple site could be started to complete the STP works at earliest;
- It was noticed by PE and UPJN that at Pankha STP night shift workers are same which work in day shift. Because of this, efficiency and pace of work get negatively affected. In the NMCG meeting dated 30.12.2021, the Concessionaire was directed to submit night shift work plan with separate set of workers from day time for which the Concessionaire agreed;
- 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup> & 6<sup>th</sup> milestone have been completed. LD for 28 days have been imposed for late completion of 3<sup>rd</sup> milestone (schedule date of completion 25.01.2021 while actual completed on 22.02.2021) and LD for 36 days have been imposed for late completion of 5<sup>th</sup> milestone on KRMPL (schedule date of completion 01.08.2021 while actual completed on 06.09.2021). LD for 96 days was imposed for late completion of 6<sup>th</sup> milestone (schedule date of completion 01.09.2021 while actual completed on 06.12.2021);



- Scheduled date for completion of final (8<sup>th</sup>) milestone was 25.10.2021, which is also missed. Presently, works of 6<sup>th</sup>, 7<sup>th</sup> & 8<sup>th</sup> milestones are in progress.
- Status of progress of different STP units till Dec. 2021 are as following:

STP Units	Target %	Achieved %
I&D structure (Thermal nala 50%)	100%	85%
Sewer Laying (12 km of 16.624)	100%	74%
Manholes (215 completed of 308)	100%	72%
Rising Main (1.5 km of 7 km)	100%	25%
MPS	100%	65%
PTU	100%	89%
SBR	100%	90%
Air Blower	100%	53%
CCT	100%	93%
Chlorination Room	100%	60%
Supernatant Sump	100%	94%
Sludge Thickener	100%	98%
Centrifuge Building	100%	66%
Effluent Disposal System	100%	55%
Admin Building	100%	61%
Staff Quarter	100%	69%
Guard Room	100%	75%
Transformer Yard	100%	87%
DG Set	100%	20%
Boundary Wall	100%	85%

**SUMMARY OF MILESTONE WISE PROGRESS AT PANKHA STP**

Milestone	Schedule Completion date	Actual completion date	Milestone Amount (Rs.)	Targeted Progress till 30.11.2021		
				Milestone Amount (Rs.)	% Target	% Achieved
1st milestone	25.09.2020	25.09.2020	12,48,39,750.00	12,48,39,750	12.50%	12.50%
2nd milestone	25.11.2020	25.11.2020	12,48,39,750.00	12,48,39,750	12.50%	12.50%
3rd Milestone	25.01.2021	<b>22.02.2021</b> <b>28 days LD</b>	12,48,39,750.00	12,48,39,750	12.50%	12.50%
4th Milestone	01.07.2021	01.07.2021	12,48,39,750.00	12,45,82,643	12.50%	12.47%
5th Milestone	01.08.2021	<b>06.09.2021</b> <b>36 days LD</b>	12,48,39,750.00	10,00,32,180	12.50%	10.02%
6th milestone	01.09.2021	<b>06.12.2021</b> <b>96 days LD</b>	12,48,39,750.00	8,36,33,748	12.5%	8.37%
7th milestone	25.09.2021	Not completed	12,48,39,750.00	851,20,640	12.5%	8.52%
8th milestone	25.10.2021	Not completed	12,48,39,750.00	84,80,762	12.5%	0.85%
<b>Overall Progress</b>			<b>99,87,18,000.00</b>	77,6369223	<b>100%</b>	<b>77.7%</b>
<b>Total %</b>			<b>100.00%</b>		<b>100%</b>	<b>77.7%</b>

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

**Table 6.1: Milestone wise Progress – 30 MLD Pankha STP**

Sl. No.	Description of Items	Milestone-6 (From 2nd August '21 to 1st Sep. '21)		Achieved against 6th Milestone		Milestone-7 (From 2nd Sep. '21 to 25th Sep. '21)		Achieved against 7th Milestone		Milestone-8 (From 26th Sep. '21 to 25th Oct. '21)		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
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)		-		-		-		-		-		-
	Baffle Walls work		-		-		-		-		-		-
	Walkway/Platform	30%	36,89,400	24.64%	30,29,995		-		-		-		-
	Finishing Work		-		-	30%	43,78,800	30%	43,78,800	70%	102,17,200	20%	29,19,200
	<b>MECHANICAL WORK</b>				-				-				-
	<b>A. DECANTERS</b>				-				-				-
	(i) On supply of machinery/equipment at site				-				-				-
	(ii) On completion of erection works				-		-		-	100%	36,89,400	50%	18,44,700
	(iii) On completion of Testing of equipment				-				-	100%	18,44,700		-
					-				-				-
	<b>B. DIFFUSERS</b>				-				-				-
	(i) On supply of machinery/equipment at site	50%	104,53,300	50%	104,53,300	50%	104,53,300	50%	104,53,300				-
	(ii) On completion of erection works				-		-		-	100%	24,59,600		-
	(iii) On completion of Testing of equipment				-				-	100%	12,29,800		-

Sl. No.	Description of Items	Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)		Achieved against 7th Milestone		Milestone-8 (From 26th Sep.'21 to 25th Oct.'21)		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
					-				-				-
	<b>C. RAS &amp; SAS PUMPS</b>				-				-				-
	(i) On supply of machinery/equipment at site	50%	104,53,300	50%	104,53,300	50%	104,53,300	50%	104,53,300				-
	(ii) On completion of erection works				-		-		-	100%	24,59,600		-
	(iii) On completion of Testing of equipment				-				-	100%	12,29,800		-
					-				-				-
	<b>D. PIPES &amp; FITTINGS</b>				-				-				-
	(i) On supply of machinery/equipment at site		-		-				-				-
	(ii) On completion of erection works				-	100%	12,29,800	100%	12,29,800				-
	(iii) On completion of Testing of equipment				-				-	100%	6,14,900		-
<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		-		-		-		-		-		-
	Finishing Work	100%	27,67,050	50%	13,83,525		-		-		-		-
<b>3</b>	<b>Chlorination House Area</b>				-				-				-
	<b>CIVIL WORK</b>				-				-				-
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-		-		-		-		-

Sl. No.	Description of Items	Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)		Achieved against 7th Milestone		Milestone-8 (From 26th Sep.'21 to 25th Oct.'21)		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	PCC		-		-		-		-		-		-
	RCC Foundation/Column footing		-		-		-		-		-		-
	Column & Beam		-		-		-		-		-		-
	Ground floor Slab		-		-		-		-		-		-
	Column & Beam		-		-		-		-		-		-
	Roof Slab		-		-		-		-		-		-
	Brickwork & Plaster		-		-		-		-		-		-
	Finishing Work	100%	18,44,700		-		-		-		-		-
	<b>MECHANICAL WORK</b>				-		-		-		-		-
	<b>A. CHLORINATION SYSTEM</b>				-		-		-		-		-
	(i) On supply of machinery/equipment at site	100%	31,35,990		-		-		-		-		-
	(ii) On completion of erection works				-	100%	3,68,940		-		-		-
	(iii) On completion of Testing of equipment				-		-		-	100%	1,84,470		-
					-		-		-		-		-
	<b>B. HOIST WORKS</b>				-		-		-		-		-
	(i) On supply of machinery/equipment at site	100%	7,83,998	100%	7,83,998		-		-		-		-
	(ii) On completion of erection works				-	100%	92,235		-		-		-
	(iii) On completion of Testing of equipment				-		-		-	100%	46,118		-
					-		-		-		-		-
	<b>ELECTRICAL &amp; INSTRUMENTATION WORK</b>				-		-		-		-		-
	(i) On supply of machinery/equipment at site	100%	15,67,995		-		-		-		-		-
	(ii) On completion of erection works				-	100%	1,84,470		-		-		-

Sl. No.	Description of Items	Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)		Achieved against 7th Milestone		Milestone-8 (From 26th Sep.'21 to 25th Oct.'21)		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
						0%							
	(iii) On completion of Testing of equipment				-				-	100%	92,235		-
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)		-		-		-		-		-		-
	Finishing Work	100%	18,44,700	90%	16,60,230		-		-		-		-
	<b>MECHANICAL WORK</b>				-				-				-
	<b>SLUDGE THICKENER MECHANISM</b>				-				-				-
	(i) On supply of machinery/equipment at site				-				-				-
	(ii) On completion of erection works				-				-				-
	(iii) On completion of Testing of equipment	100%	2,76,705		-				-				-
5	<b>Inlet / Stilling Chamber Area</b>				-				-				-
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		-
	RCC Foundation/Column footing		-		-		-		-		-		-
	Column & Beam		-		-		-		-		-		-
	RCC Slab		-		-		-		-		-		-
	RCC Wall		-		-		-		-		-		-
	Final finishing including Staircases,Railing,Shade,Painting, etc.	100%	12,29,800	50%	6,14,900		-		-		-		-

Sl. No.	Description of Items	Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)		Achieved against 7th Milestone		Milestone-8 (From 26th Sep.'21 to 25th Oct.'21)		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
6	<b>Manual &amp; Mechanical Fine Bar Screen Chamber Area</b>				-				-				-
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		-
	RCC Foundation		-		-		-		-		-		-
	Column & Beam		-		-		-		-		-		-
	RCC Slab		-		-		-		-		-		-
	RCC Wall	100%	12,29,800	100%	12,29,800		-		-		-		-
	Walkway/Platform		-		-	10%	12,29,800	10%	12,29,800		-		-
	Finishing Work		-		-	20%	2,45,960	20%	2,45,960	80%	9,83,840		-
7	<b>Grit Chamber (Mechanical Cleaned) &amp; (Manually Cleaned)</b>				-				-				-
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		0%
	RCC Foundation		-		-		-		-		-		-
	Column & Beam		-		-		-		-		-		-
	RCC Slab		-		-		-		-		-		-
	RCC Wall	100%	12,29,800	90%	11,06,820		-		-		-		-
	Walkway/Platform		-		-	10%	12,29,800	10%	12,29,800		-		-
	Finishing Work		-		-		-		-	100%	12,29,800		-
	<b>MECHANICAL WORK</b>				-				-				-
	<b>A.MECHANICAL FINE SCREEN</b>				-				-				-

Sl. No.	Description of Items	Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)		Achieved against 7th Milestone		Milestone-8 (From 26th Sep.'21 to 25th Oct.'21)		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	(i) On supply of machinery/equipment at site		-		-		-		-		-		-
	(ii) On completion of erection works				-	100%	2,45,960	100%	2,45,960				-
	(iii) On completion of Testing of equipment				-				-	100%	1,22,980		-
	<b>B.MANUAL FINE SCREEN</b>				-				-				-
	(i) On supply of machinery/equipment at site		-		-		-		-		-		-
	(ii) On completion of erection works				-	100%	3,68,940	100%	3,68,940				-
	(iii) On completion of Testing of equipment				-				-	100%	1,84,470		-
	<b>C.GATES</b>				-				-				-
	(i) On supply of machinery/equipment at site	100%	20,90,660	100%	20,90,660		-		-				-
	(ii) On completion of erection works				-	100%	2,45,960	100%	2,45,960				-
	(iii) On completion of Testing of equipment				-				-	100%	1,22,980		-
	<b>D.CONVEYOR BELTS</b>				-				-				-
	(i) On supply of machinery/equipment at site	100%	20,90,660	100%	20,90,660		-		-				-
	(ii) On completion of erection works				-	100%	2,45,960		-				-
	(iii) On completion of Testing of equipment				-				-	100%	1,22,980		-
	<b>E. GRIT MECHANISM</b>				-				-				-
	(i) On supply of machinery/equipment at site		-		-		-		-		-		-
	(ii) On completion of erection works				-	100%	6,14,900		-				-

Sl. No.	Description of Items	Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)		Achieved against 7th Milestone		Milestone-8 (From 26th Sep.'21 to 25th Oct.'21)		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	(iii) On completion of Testing of equipment				-				-	100%	3,07,450		-
					-				-				-
<b>8</b>	<b>Flow Measurement Channel Area</b>				-				-				-
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		-
	RCC Foundation		-		-		-		-		-		-
	Column & Beam		-		-		-		-		-		-
	RCC Slab		-		-		-		-		-		-
	RCC Wall	100%	24,59,600	100%	24,59,600		-		-		-		-
	Walkway/Platform		-		-	100%	12,29,800	100%	12,29,800		-		-
	Finishing Work		-		-	20%	4,91,920	20%	4,91,920	80%	19,67,680		-
<b>9</b>	<b>Admin Bldg Area</b>				-				-				-
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		-
	Column footings/Foundation		-		-		-		-		-		-
	Column & Beam		-		-		-		-		-		-
	Ground Floor Slab		-		-		-		-		-		-
	1st Floor Slab	100%	18,44,700	100%	18,44,700		-		-		-		-
	Roof Slab		-		-	100%	18,44,700	100%	18,44,700		-		-

Sl. No.	Description of Items	Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)		Achieved against 7th Milestone		Milestone-8 (From 26th Sep.'21 to 25th Oct.'21)		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	Brickwork & Plaster	50%	13,83,525	50%	13,83,525	50%	13,83,525	25%	6,91,763		-		-
	Finishing Work		-		-		-		-	100%	18,44,700		-
	<b>ELECTRICAL WORK</b>				-				-				-
	<b>LT/HT PANEL</b>				-				-				-
	(i) On supply of machinery/equipment at site				-	100%	73,85,990	100%	73,85,990				-
	(ii) On completion of erection works				-				-	100%	13,03,410	50%	6,51,705
	(iii) On completion of Testing of equipment				-				-	100%	4,34,470		-
	<b>PLC/SCADA SYSTEM</b>				-				-				-
	(i) On supply of machinery/equipment at site				-		-		-	100%	73,85,990		-
	(ii) On completion of erection works				-				-	100%	13,03,410		-
	(iii) On completion of Testing of equipment				-				-	100%	4,34,470		-
					-				-				-
10	<b>Air Blower Room Area</b>				-				-				-
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		-
	Column footings/Foundation		-		-		-		-		-		-
	Column & Beam		-		-		-		-		-		-
	RCC Ground Floor Slab		-		-		-		-		-		-
	RCC Roof Slab	100%	15,37,250	100%	15,37,250		-		-		-		-

Sl. No.	Description of Items	Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)		Achieved against 7th Milestone		Milestone-8 (From 26th Sep.'21 to 25th Oct.'21)		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	Brickwork & Plaster	25%	3,84,313	25%	3,84,313	25%	3,84,313	25%	3,84,313	50%	7,68,625	50%	7,68,625
	Finishing Work		-		-		-		-	100%	15,37,250		-
	<b>MECHANICAL WORK</b>				-				-				-
	<b>AIR BLOWER(PUMP)</b>				-				-				-
	(i) On supply of machinery/equipment at site				-	100%	39,19,988	100%	39,19,988				-
	(ii) On completion of erection works				-				-	100%	4,61,175	33%	1,52,188
	(iii) On completion of Testing of equipment				-				-	100%	2,30,588		-
	<b>ELECTRICAL WORK</b>				-				-				-
	<b>AIR BLOWER(MOTOR)</b>				-				-				-
	(i) On supply of machinery/equipment at site				-		-		-	100%	52,26,650		-
	(ii) On completion of erection works				-				-	100%	6,14,900		-
	(iii) On completion of Testing of equipment				-				-	100%	3,07,450		-
11	<b>Staff Quarter Area</b>				-				-				-
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		-
	RCC Foundation/column footing		-		-		-		-		-		-
	Column & Beam		-		-		-		-		-		-
	RCC Ground Floor Slab	100%	12,91,290	100%	12,91,290		-		-		-		-
	RCC Roof Slab		-		-	100%	8,60,860	100%	8,60,860		-		-

Sl. No.	Description of Items	Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)		Achieved against 7th Milestone		Milestone-8 (From 26th Sep.'21 to 25th Oct.'21)		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	Brickwork & Plaster		-		-	40%	3,44,344	40%	3,44,344	60%	5,16,516	40%	3,44,344
	Electrical work		-		-	25%	3,22,823		-	75%	9,68,468		-
	Finishing Work		-		-		-		-	100%	8,60,860		-
12	<b>Guard Room Area</b>				-				-				-
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		-
	RCC Foundation/column footing		-		-		-		-		-		-
	Column & Beam		-		-		-		-		-		-
	RCC Ground Floor Slab	100%	5,53,410	100%	5,53,410		-		-		-		-
	RCC Roof Slab	100%	3,68,940	100%	3,68,940		-		-		-		-
	Brickwork & Plaster	100%	3,68,940	100%	3,68,940		-		-		-		-
	Electrical work		-		-	100%	5,53,410		-		-		-
	Finishing Work		-		-	40%	1,47,576		-	60%	2,21,364		-
13	<b>Sludge Dewatering System Area (Centrifuge Pump House, Sludge sump &amp; Poly dosing tank)</b>				-				-				-
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		-
	RCC Foundation		-		-		-		-		-		-
	1st Column & Beam		-		-		-		-		-		-
	Ground Floor Slab		-		-		-		-		-		-

Sl. No.	Description of Items	Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)		Achieved against 7th Milestone		Milestone-8 (From 26th Sep.'21 to 25th Oct.'21)		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	2nd Column & Beam	50%	15,37,250		-		-		-		-		-
	RCC Roof Slab	100%	30,74,500		-		-		-		-		-
	Brickwork & Plaster		-		-	100%	30,74,500	50%	15,37,250		-		-
	Finishing Work		-		-		-		-	100%	30,74,500		-
	<b>MECHANICAL WORK</b>				-				-				-
	<b>CENTRIFUGE UNIT</b>				-				-				-
	(i) On supply of machinery/equipment at site				-	100%	39,19,988	100%	39,19,988				-
	(ii) On completion of erection works				-				-	100%	4,61,175		-
	(iii) On completion of Testing of equipment				-				-	100%	2,30,588		-
	<b>CENTRIFUGE FEED PUMP</b>				-				-				-
	(i) On supply of machinery/equipment at site				-		-		-				-
	(ii) On completion of erection works				-	100%	3,07,450		-		-		-
	(iii) On completion of Testing of equipment				-				-	100%	1,53,725		-
	<b>POLY DOSING PUMPS</b>				-				-				-
	(i) On supply of machinery/equipment at site				-		-		-		-		-
	(ii) On completion of erection works				-				-	100%	1,53,725		-
	(iii) On completion of Testing of equipment				-				-	100%	76,863		-
14	<b>Supernatant Recirculation Sump Area</b>				-				-				-
	Site Clearance		-		-		-		-		-		-

Sl. No.	Description of Items	Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)		Achieved against 7th Milestone		Milestone-8 (From 26th Sep.'21 to 25th Oct.'21)		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		-
	RCC Foundation wall/base slab		-		-		-		-		-		-
	Wall 50% of total lift work		-		-		-		-		-		-
	Walls (balance 50% of Total Lift work)		-		-		-		-		-		-
	Final finishing including Staircases,Railing,Shade,Painting etc.	100%	18,44,700	75%	13,83,525		-		-		-		-
	<b>MECHANICAL WORK</b>				-				-				-
	<b>PUMPING SYSTEM</b>				-				-				-
	(i) On supply of machinery/equipment at site		-		-		-		-				-
	(ii) On completion of erection works				-	100%	6,45,645	50%	3,22,823				-
	(iii) On completion of Testing of equipment				-				-	100%	3,22,823		-
					-				-				-
15	<b>Transformer Yard Area</b>				-				-				-
	Site Clearance		-		-		-		-		-		-
	Excavation & PCC		-		-		-		-		-		-
	Foundation Work		-		-		-		-		-		-
	Finishing Work	100%	7,37,880		-		-		-		-		-
	<b>ELECTRICAL WORK</b>				-				-				-
	<b>TRANSFORMER</b>				-				-				-
	(i) On supply of machinery/equipment at site	100%	31,35,990	100%	31,35,990				-				-
	(ii) On completion of erection works				-	100%	3,68,940	80%	2,95,152				-
	(iii) On completion of Testing of equipment				-		-		-	100%	1,84,470		-

Sl. No.	Description of Items	Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)		Achieved against 7th Milestone		Milestone-8 (From 26th Sep.'21 to 25th Oct.'21)		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	<b>CABLE &amp; CABLE TRAY</b>				-				-				-
	(i) On supply of machinery/equipment at site	100%	30,31,457	100%	30,31,457				-				-
	(ii) On completion of erection works				-	100%	3,56,642	100%	3,56,642				-
	(iii) On completion of Testing of equipment				-		-		-	100%	1,78,321		-
16	<b>DG Area</b>				-				-				-
	Site Clearance		-		-		-		-		-		-
	Excavation & PCC		-		-		-		-		-		-
	Foundation Work		-		-		-		-		-		-
	Finishing Work		-		-	100%	5,53,410		-		-		-
	<b>ELECTRICAL WORK</b>				-				-				-
	<b>DG SET</b>				-				-				-
	(i) On supply of machinery/equipment at site		-		-	100%	32,92,790		-				-
	(ii) On completion of erection works				-	100%	3,87,387	100%	3,87,387				-
	(iii) On completion of Testing of equipment				-	100%	1,93,694		-				-
	<b>CABLE &amp; CABLE TRAY</b>				-				-				-
	(i) On supply of machinery/equipment at site	100%	16,46,395	100%	16,46,395				-				-
	(ii) On completion of erection works				-	100%	1,93,694		-				-

Sl. No.	Description of Items	Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)		Achieved against 7th Milestone		Milestone-8 (From 26th Sep.'21 to 25th Oct.'21)		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	(iii) On completion of Testing of equipment				-		-		-	100%	96,847		-
17	<b>Sludge Storage Platform</b>				-		-		-				-
	Site Clearance		-		-		-		-		-		-
	Excavation & PCC		-		-		-		-		-		-
	Foundation Work		-		-		-		-		-		-
	Finishing work	100%	1,00,000		-		-		-		-		-
18	<b>EXTERNAL DEVELOPMENT</b>				-		-		-				-
A.	Roads, Storm Water Drain & Miscellaneous work		-		-	40%	50,40,000	30%	37,80,000	60%	75,60,000		-
B.	<b>Compound Wall with Gate</b>		-		-		-		-		-		-
	Excavation & PCC		-		-		-		-		-		-
	RCC Column footing		-		-		-		-		-		-
	RCC Column & Beam		-		-		-		-		-		-
	Brickwork & Plaster	10%	6,14,900	10%	6,14,900	10%	6,14,900		-		-		-
	Finishing Work	20%	12,29,800	20%	12,29,800	30%	18,44,700	30%	18,44,700	30%	18,44,700		-
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	35%	13,42,341	35%	13,42,341		-		-		-		-
	Walls (balance 50% of Total Lift work)	50%	19,17,630	50%	19,17,630		-		-		-		-

Sl. No.	Description of Items	Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)		Achieved against 7th Milestone		Milestone-8 (From 26th Sep.'21 to 25th Oct.'21)		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	Ground Floor Slab	100%	38,35,260	100%	38,35,260		-		-		-		-
	Finishing Work		-		-	50%	12,78,420		-	50%	12,78,420		-
B	<b>Construction of Inlet Chamber &amp; Screen Channel</b>		-		-		-		-		-		-
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		-
	RCC Foundation/Raft		-		-		-		-		-		-
	Wall 50% of total lift work		-		-		-		-		-		-
	Walls (balance 50% of Total Lift work)	75%	12,78,420	75%	12,78,420		-		-		-		-
	Walkway/Platform	100%	17,04,560	100%	17,04,560		-		-		-		-
C	<b>Construction of Raw Sewage Pump House</b>		-		-		-		-		-		-
	Column & Beam	100%	15,98,025	40%	6,39,210		-		-		-		-
	Roof Slab	100%	15,98,025		-		-		-		-		-
	Brickwork & Plaster		-		-	100%	15,98,025	10%	1,59,803		-		-
	Finishing Work		-		-		-		-	100%	15,98,025		-
D	<b>MECHANICAL WORK</b>		-		-		-		-		-		-
	<b>Coarse Screen mechanical &amp; manual</b>		-		-		-		-		-		-
	(i) On supply of machinery/equipment at site		-		-		-		-		-		-
	(ii) On completion of erection works		-		-		-		-	100%	5,32,675		-
	(iii) On completion of Testing of equipment		-		-		-		-	100%	2,66,338		-
	<b>Piping &amp; Support work</b>		-		-		-		-		-		-
	(i) On supply of machinery/equipment at site		-		-	10	45,27,738	10	45,27,738		-		-

Sl. No.	Description of Items	Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)		Achieved against 7th Milestone		Milestone-8 (From 26th Sep.'21 to 25th Oct.'21)		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
						0%		0%					
	(ii) On completion of erection works				-				-	100%	5,32,675		-
	(iii) On completion of Testing of equipment				-				-	100%	2,66,338		-
	<b>Gate Work</b>		-		-				-				-
	(i) On supply of machinery/equipment at site				-		-		-		-		-
	(ii) On completion of erection works				-				-	100%	7,45,745		-
	(iii) On completion of Testing of equipment				-				-	100%	3,72,873		-
	<b>Pumps</b>		-		-				-				-
	(i) On supply of machinery/equipment at site		-		-		-		-		-		-
	(ii) On completion of erection works				-				-	100%	11,71,885		-
	(iii) On completion of Testing of equipment				-				-	100%	5,85,943		-
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		-		-		-		-		-		-
	Column & Beam	75%	19,17,000	15%	3,83,400		-		-		-		-
	Walls (balance 50% of Total Lift work)	40%	10,22,400	40%	10,22,400		-		-		-		-
	Ground Floor Slab	100%	25,56,000		-		-		-		-		-

Sl. No.	Description of Items	Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)		Achieved against 7th Milestone		Milestone-8 (From 26th Sep.'21 to 25th Oct.'21)		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	Finishing Work		-		-	100%	12,78,000		-		-		-
B	<b>Construction of Inlet Chamber &amp; Screen Channel</b>		-		-		-		-		-		-
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		-
	RCC Foundation/Raft		-		-		-		-		-		-
	Wall 50% of total lift work		-		-		-		-		-		-
	Walls (balance 50% of Total Lift work)		-		-		-		-		-		-
	Walkway/Platform	100%	4,26,000		-		-		-		-		-
	Finishing work		-		-	100%	4,26,000		-		-		-
C	<b>Construction of Raw Sewage Pump House</b>		-		-		-		-		-		-
	Column & Beam		-		-	100%	7,99,013		-		-		-
	Roof Slab		-		-	100%	7,99,013		-		-		-
	Brickwork & Plaster		-		-		-		-	100%	7,99,013		-
	Finishing Work		-		-		-		-	100%	7,99,013		-
D	<b>Construction of Office Room</b>		-		-		-		-		-		-
	Site Clearance		-		-		-		-		-		-
	Excavation & PCC		-		-		-		-		-		-
	RCC Foundation/column footing	100%	6,39,000		-		-		-		-		-
	Column & Beam	100%	2,13,000		-		-		-		-		-

Sl. No.	Description of Items	Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)		Achieved against 7th Milestone		Milestone-8 (From 26th Sep.'21 to 25th Oct.'21)		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	RCC Ground floor Slab	100%	2,13,000		-		-		-		-		-
	RCC Roof Slab	100%	2,13,000		-		-		-		-		-
	Brick work & Plaster		-		-	100%	2,13,000		-		-		-
	Electrification, plumbing, fixtures		-		-	50%	1,06,500		-	50%	1,06,500		-
	Finishing work		-		-		-		-	100%	2,13,000		-
E	<b>Construction of Guard Room</b>		-		-		-		-		-		-
	Site Clearance		-		-		-		-		-		-
	Excavation & PCC		-		-		-		-		-		-
	RCC Foundation/column footing	100%	6,39,000		-		-		-		-		-
	Column & Beam	100%	2,13,000		-		-		-		-		-
	RCC Ground floor Slab	100%	2,13,000		-		-		-		-		-
	RCC Roof Slab		-		-	100%	2,13,000		-		-		-
	Brick work & Plaster		-		-	50%	1,06,500		-	50%	1,06,500		-
	Electrification, plumbing, fixtures		-		-	25%	53,250		-	75%	1,59,750		-
	Finishing work		-		-		-		-	100%	2,13,000		-
F	<b>Transformer Yard,DG Yard</b>		-		-		-		-		-		-
	Site Clearance		-		-		-		-		-		-
	Excavation & PCC	100%	6,39,210		-		-		-		-		-
	Foundation Work	100%	15,98,025		-		-		-		-		-
	Finishing Work	100%	9,58,815		-		-		-		-		-
G	<b>MECHANICAL WORK</b>		-		-		-		-		-		-

Sl. No.	Description of Items	Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)		Achieved against 7th Milestone		Milestone-8 (From 26th Sep.'21 to 25th Oct.'21)		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	<b>Piping &amp; Support work</b>				-				-		-		-
	(i) On supply of machinery/equipment at site				-	100%	9,05,548	90%	8,14,993				-
	(ii) On completion of erection works				-				-	100%	1,06,535		-
	(iii) On completion of Testing of equipment				-				-	100%	53,268		-
	<b>Screen Channel</b>		-		-		-		-		-		-
	(i) On supply of machinery/equipment at site				-		-		-		-		-
	(ii) On completion of erection works				-				-	100%	3,40,912		-
	(iii) On completion of Testing of equipment				-				-	100%	1,70,456		-
	<b>Pumps</b>		-		-		-		-		-		-
	(i) On supply of machinery/equipment at site				-				-		-		-
	(ii) On completion of erection works				-				-	100%	3,40,912		-
	(iii) On completion of Testing of equipment				-				-	100%	1,70,456		-
H	<b>ELECTRICAL WORK</b>				-				-				-
	<b>Cable Tray &amp; Earthing Work</b>		-		-				-				-
	(i) On supply of machinery/equipment at site				-	50%	5,43,329		-	50%	5,43,329		-
	(ii) On completion of erection works				-				-	100%	1,27,842		-
	(iii) On completion of Testing of equipment				-				-	100%	63,921		-
	<b>Transformer</b>		-		-				-				-
	(i) On supply of machinery/equipment at site				-		-		-	100%	28,97,752		-
	(ii) On completion of erection works				-				-	100%	3,40,912		-

Sl. No.	Description of Items	Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)		Achieved against 7th Milestone		Milestone-8 (From 26th Sep.'21 to 25th Oct.'21)		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
										%			
	(iii) On completion of Testing of equipment				-				-	100%	1,70,456		-
	<b>DG</b>		-		-				-				-
	(i) On supply of machinery/equipment at site				-		-		-	100%	19,92,205		-
	(ii) On completion of erection works				-				-	100%	2,34,377		-
	(iii) On completion of Testing of equipment				-				-	100%	1,17,189		-
I	<b>Construction of Boundary wall &amp; Internal Road</b>		-		-		-		-	100%	-		-
	Site Clearance		-		-		-		-		-		-
	Excavation & PCC		-		-	70%	2,23,724	40%	1,27,842		-		-
	RCC Column footing		-		-	100%	4,26,140	68%	2,89,775		-		-
	RCC Column & Beam		-		-	100%	3,19,605	68%	2,17,331		-		-
	Brickwork & Plaster		-		-	100%	3,19,605	45%	1,43,822		-		-
	Finishing		-		-		-		-	100%	3,19,605		-
	Construction of Internal road		-		-		-		-	100%	4,26,140		-
21	<b>IPS-6 (Sundar Nagar- 20 MLD)-Pankha Area</b>				-				-				-
	<b>CIVIL</b>		-		-		-		-		-		-
A	<b>Construction of Raw Sewage Sump</b>		-		-		-		-		-		-
	Site Clearance		-		-		-		-		-		-

Sl. No.	Description of Items	Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)		Achieved against 7th Milestone		Milestone-8 (From 26th Sep.'21 to 25th Oct.'21)		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		-
	RCC Foundation/Raft		-		-		-		-		-		-
	Wall 50% of total lift work		-		-		-		-		-		-
	Column & Beam	30%	7,66,800		-		-		-		-		-
	Walls (balance 50% of Total Lift work)	50%	12,78,000	50%	12,78,000		-		-		-		-
	Ground Floor Slab	100%	25,56,000		-		-		-		-		-
	Finishing Work		-		-	100%	12,78,000		-		-		-
<b>B</b>	<b>Construction of Inlet Chamber &amp; Screen Channel</b>		-		-		-		-		-		-
	Site Clearance		-		-		-		-		-		-
	Excavation & PCC		-		-		-		-		-		-
	RCC Foundation/Raft		-		-		-		-		-		-
	Wall 50% of total lift work		-		-		-		-		-		-
	Walls (balance 50% of Total Lift work)		-		-		-		-		-		-
	Walkway/Platform	100%	2,13,000		-		-		-		-		-
	Finishing work		-		-	100%	2,13,000		-		-		-
<b>C</b>	<b>Construction of Raw Sewage Pump House</b>		-		-		-		-		-		-
	Column & Beam	100%	7,99,013		-		-		-		-		-
	Roof Slab		-		-	100%	7,99,013		-		-		-
	Brickwork & Plaster		-		-	100%	7,99,013		-		-		-
	Finishing Work		-		-		-		-	100	7,99,013		-

Sl. No.	Description of Items	Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)		Achieved against 7th Milestone		Milestone-8 (From 26th Sep.'21 to 25th Oct.'21)		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
D	<b>Construction of Office Room</b>		-		-		-		-		-		-
	Site Clearance		-		-		-		-		-		-
	Excavation & PCC		-		-		-		-		-		-
	RCC Foundation/column footing		-		-		-		-		-		-
	Column & Beam		-		-		-		-		-		-
	RCC Ground floor Slab		-		-		-		-		-		-
	RCC Roof Slab	100%	2,13,000		-		-		-		-		-
	Brick work & Plaster		-		-	100%	2,13,000		-		-		-
	Electrification, plumbing, fixtures		-		-	100%	2,13,000		-		-		-
	Finishing work		-		-		-		-	100%	2,13,000		-
E	<b>Construction of Guard Room</b>		-		-		-		-		-		-
	Site Clearance		-		-		-		-		-		-
	Excavation & PCC		-		-		-		-		-		-
	RCC Foundation/column footing		-		-		-		-		-		-
	Column & Beam		-		-		-		-		-		-
	RCC Ground floor Slab	100%	2,13,000		-		-		-		-		-
	RCC Roof Slab		-		-	100%	2,13,000		-		-		-
	Brick work & Plaster		-		-	100%	2,13,000		-		-		-
	Electrification, plumbing, fixtures		-		-	50%	1,06,500		-	50%	1,06,500		-

Sl. No.	Description of Items	Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)		Achieved against 7th Milestone		Milestone-8 (From 26th Sep.'21 to 25th Oct.'21)		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	Finishing work		-		-		-		-	100%	2,13,000		-
F	<b>Transformer Yard,DG Yard</b>		-		-		-		-		-		-
	Site Clearance		-		-		-		-		-		-
	Excavation & PCC		-		-	100%	6,39,210		-		-		-
	Foundation Work		-		-	100%	15,98,025		-		-		-
	Finishing Work		-		-	100%	9,58,815		-		-		-
G	<b>MECHANICAL WORK</b>		-		-		-		-		-		-
	<b>Piping &amp; Support work</b>		-		-		-		-		-		-
	(i) On supply of machinery/equipment at site		-		-	100%	10,86,657	75%	8,14,993		-		-
	(ii) On completion of erection works		-		-		-		-	100%	1,27,842		-
	(iii) On completion of Testing of equipment		-		-		-		-	100%	63,921		-
	<b>Screen Channel</b>		-		-		-		-		-		-
	(i) On supply of machinery/equipment at site		-		-		-		-		-		-
	(ii) On completion of erection works		-		-		-		-	100%	3,40,912		-
	(iii) On completion of Testing of equipment		-		-		-		-	100%	1,70,456		-
	<b>Pumps</b>		-		-		-		-		-		-
	(i) On supply of machinery/equipment at site		-		-	100%	28,97,752	100%	28,97,752		-		-
	(ii) On completion of erection works		-		-		-		-	100%	3,40,912		-

Sl. No.	Description of Items	Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)		Achieved against 7th Milestone		Milestone-8 (From 26th Sep.'21 to 25th Oct.'21)		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
										%			
	(iii) On completion of Testing of equipment				-				-	100%	1,70,456		-
H	<b>ELECTRICAL WORK</b>				-				-				-
	<b>Cable Tray &amp; Earthing Work</b>		-		-				-				-
	(i) On supply of machinery/equipment at site				-		-		-	100%	19,92,205		-
	(ii) On completion of erection works				-				-	100%	2,34,377		-
	(iii) On completion of Testing of equipment				-				-	100%	1,17,189		-
	<b>Transformer</b>		-		-				-				-
	(i) On supply of machinery/equipment at site				-		-		-	100%	28,97,752		-
	(ii) On completion of erection works				-				-	100%	3,40,912		-
	(iii) On completion of Testing of equipment				-				-	100%	1,70,456		-
	<b>DG</b>		-		-				-				-
	(i) On supply of machinery/equipment at site				-		-		-	100%	19,92,205		-
	(ii) On completion of erection works				-				-	100%	2,34,377		-
	(iii) On completion of Testing of equipment				-				-	100%	1,17,189		-
I	<b>Construction of Boundary wall &amp; Internal Road</b>		-		-		-		-		-		-
	Site Clearance		-		-		-		-		-		-
	Excavation & PCC	100%	3,19,605		-		-		-		-		-
	RCC Column footing	100%	4,26,140		-		-		-		-		-
	RCC Column & Beam	100%	3,19,605		-		-		-		-		-
	Brickwork & Plaster		-		-	100	3,19,605		-		-		-

Sl. No.	Description of Items	Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)		Achieved against 7th Milestone		Milestone-8 (From 26th Sep.'21 to 25th Oct.'21)		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
						%							
	Construction of Internal road		-		-		-		-	100%	4,26,140		-
	Finishing		-		-		-		-	100%	3,19,605		-
22	<b>I&amp;D Works</b>				-				-				-
A	<b>ICI Nala</b>		-		-		-		-		-		-
	Construction Work		-		-		-		-		-		-
	Tapping of Nallahs	55%	6,11,600		-		-		-		-		-
	Electro-Mechanical work	50%	8,34,000		-	50%	8,34,000	40%	6,67,200		-		-
	Testing		-		-		-		-	100%	5,56,000		-
B	<b>Thermal Nala -A</b>		-		-		-		-		-		-
	Construction Work		-		-		-		-		-		-
	Tapping of Nallahs	40%	4,44,800	40%	4,44,800		-		-		-		-
	Electro-Mechanical work	50%	8,34,000	40%	6,67,200	50%	8,34,000		-		-		-
	Testing		-		-		-		-	100%	5,56,000		-
C	<b>Thermal Nala -B</b>		-		-		-		-		-		-
	Construction Work	50%	11,12,000		-		-		-		-		-
	Tapping of Nallahs	25%	2,78,000		-	51%	5,67,120		-		-		-
	Electro-Mechanical work		-		-	50%	8,34,000	40%	6,67,200	50%	8,34,000		-
	Testing		-		-		-		-	100%	5,56,000		-
23	<b>Rising Main Works</b>				-				-				-
A	<b>ICI Nala Area</b>		-		-		-		-		-		-
	Site Cleance from Client		-		-		-		-		-		-

Sl. No.	Description of Items	Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)		Achieved against 7th Milestone		Milestone-8 (From 26th Sep.'21 to 25th Oct.'21)		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	Supply of Pipes	25%	12,75,000	25%	12,75,000	25%	12,86,220		-		-		-
	Excavation,Laying & backfilling of Pipes	30%	1,80,000	25%	1,50,000	20%	1,20,000		-	15%	90,000		-
	Testing	50%	1,50,000		-	25%	75,000		-	25%	75,000		-
B	<b>Sundar Nagar IPS Area</b>		-		-		-		-		-		-
	Site Cleance from Client		-		-		-		-		-		-
	Supply of Pipes	30%	15,30,000	30%	15,30,000	40%	20,40,000	40%	20,40,000		-		-
	Excavation,Laying & backfilling of Pipes	37%	2,22,000	35%	2,10,000	38%	2,28,000		-		-		-
	Testing	54%	1,62,000		-	46%	1,38,000		-		-		-
24	<b>Sewer System Area (RCC Pipes-NP3 Types)</b>				-				-				-
	Site Clearance	25%	-		-	15%	-		-	10%	-		-
	Supply of pipes		-		-		-		-		-		-
	Excavation and Laying of pipes including bed preperation & backfilling	10%	10,02,809	10%	10,02,839	26%	26,07,382	26%	26,07,382	23%	23,06,530		-
	Manholes	20%	20,05,678	3%	3,00,852	20%	20,05,678	20%	20,05,678	25%	25,07,098		-
	Testing	20%	20,05,678		-	30%	30,08,518		-	50%	50,14,196		-
	Road Restoration work		-		-	35%	35,09,937		-	65%	65,18,455		-
25	<b>Design ,Supply,Testing &amp; Commissioning of Sewer line (crossing National Highway-2 &amp; Railway Track)</b>				-				-				-
	Statutory approvals from Railway & Road dept		-		-		-		-		-		-
	Supply of Carrier & Casing Pipes	57%	64,11,551	57%	64,11,551	43%	48,36,784	30%	33,74,501		-		-
	Construction of Pit	45.0%	4,21,813	45%	4,21,813	55%	5,15,549	20%	1,87,472		-		-

Sl. No.	Description of Items	Milestone-6 (From 2nd August'21 to 1st Sep.'21)		Achieved against 6th Milestone		Milestone-7 (From 2nd Sep.'21 to 25th Sep.'21)		Achieved against 7th Milestone		Milestone-8 (From 26th Sep.'21 to 25th Oct.'21)		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	Excavation & Laying of Pipes thru Jack push method	30%	16,87,250	30%	16,87,250	30%	16,87,250	20%	11,24,834	40%	22,49,667		-
	Testing		-		-	27%	2,57,205	27%	2,53,088	73%	6,76,400		-
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%	25,20,000	35%	25,20,000	65%	46,80,000	25%	18,00,000
	Testing		-		-		-		-	100%	8,00,000		
	<b>TRIAL RUN &amp; COMMISSIONING</b>												
	Trial Run & Commissioning												

**PHOTOGRAPHS OF PANKHA STP SITE**



**Thermal Nala A I&D works**



**MPS pumping station works**



**Centrifuge**



**Blower Room works**



**PTU grit chamber construction works**



**CCT finishing works**



**SBR basin 1 works**

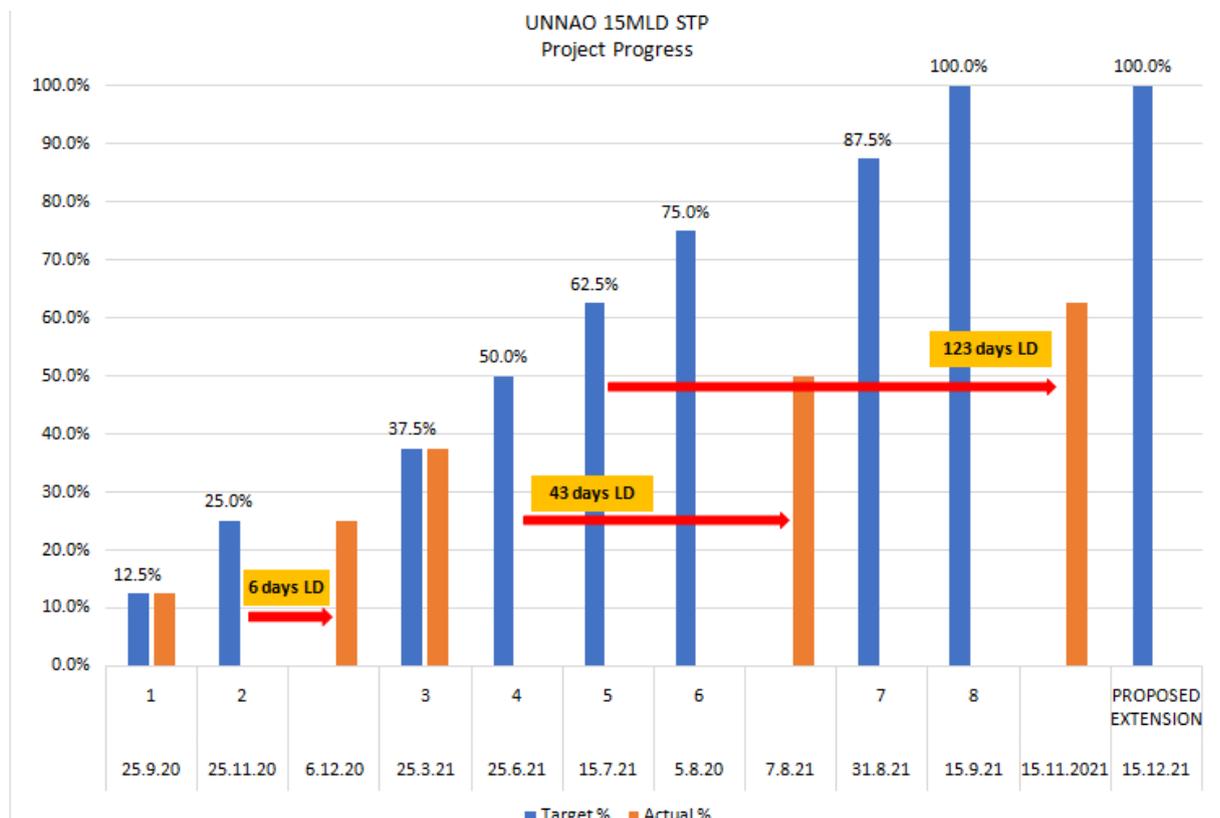


**Sludge Thickener**

## 6.2 MILESTONE WISE ACTIVITIES AND PROGRESS: UNNAO STP

The progress of works related to the 15 MLD STP at Unnao is extremely slow and unsatisfactory. The schedule date for completion of the final 8<sup>th</sup> milestone (15.09.2021) has already been passed but till date only 5 milestones could have been completed by KRMPL. Also, compliance of ED (P) and JMD UPJN directions regarding deployment of adequate manpower and execution of work in double shift is not done by KRMPL. Status and progress of Unnao STP is as following:

- Total progress till Dec. 2021 is only 63.5% against the target of 100%.
- During Dec. 2021, the manpower deployed at the 15 MLD STP Unnao site was 100-120 nos. KRMPL need to increase the manpower up to 250 as directed during NMCG meetings on dated 30.12.2021, 17.11.2021, 28.09.2021 and in JMD meeting at Lucknow on 03.09.2021, so that simultaneous works on multiple site could be started to achieve the target on time;
- It was noticed by PE and UPJN that at STP progress work in night shift is not started by the Concessionaire yet. In the NMCG meeting dated 30.12.2021, the Concessionaire was directed to submit night shift work plan with separate set of workers from day time for which the Concessionaire agreed;
- 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>th</sup>, 4<sup>th</sup> and 5<sup>th</sup> milestone have been completed. 5<sup>th</sup> milestone completion was due on dated 15.07.2021 which was completed on 15.11.2021. LD for 123 days is imposed on KRMPL. 6<sup>th</sup>, 7<sup>th</sup> & 8<sup>th</sup> milestones were due on 05.08.2021, 31.08.2021 and 15.09.2021 which have been missed by KRMPL. In the NMCG meeting dated 30.12.2021, KRMPL was directed to complete the STP works by 31.01.2022 so that plant could be made functional.



- To complete the balance works for any structure/unit of STP; KRMPL has been asked to submit day wise schedule with detail of activities like steel binding, shuttering, concreting and de-shuttering for achieving the balance works of STP on time. STC along with UPJN have provided a format for the same to KRMPL. Signed copy of balance works schedule with day wise activities is still to be submitted by KRMPL.
- Approx 2600m sewer has been laid out of 3.6km. Highway road cutting permission for trenchless laying of sewer has been given by PWD.
- Entrance gates (1 main gate + 1 alternate), Internal roads and development of site and plantation work need to be started.
- Number of CCTVs units need to be increased from at present 2 nos. to minimum 4 nos;
- Status of progress of different STP units till Dec. 2021 are as following:

STP Units	Target %	Achieved %
I&D structure	100%	50%
Sewer Laying (2.6 km of 3.6km)	100%	80%
Manholes (04 completed of 46)	100%	8%
MPS	100%	80%
PTU	100%	10%
SBR	100%	85%
Air Blower	100%	30%
CCT	100%	90%
Chlorination Room	100%	90%
Supernatant Sump	100%	90%
Sludge Thickener	100%	90%
Centrifuge Building	100%	60%
Effluent Disposal System	100%	0%
Admin Building	100%	70%
Staff Quarter	100%	90%
Guard Room	100%	90%
Transformer Yard	100%	20%
DG Set	100%	0%
Boundary Wall	100%	70%

**SUMMARY OF OVERALL PROGRESS AT UNNAO STP**

Milestone	Schedule Completion date	Actual completion date	Milestone Amount (Rs.)	Targeted Progress till 31.10.2021		
				Milestone Amount (Rs.)	% Target	% Achieved
1st milestone	25.09.2020	25.09.2020	4,78,36,250.00	4,78,36,250.00	12.50%	12.50%
2nd milestone	25.11.2020	<b>06.12.2020</b> <b>6 days LD</b>	4,78,36,250.00	4,78,36,250.00	12.50%	12.50%
3rd Milestone	25.03.2021	25.03.2021	4,78,36,250.00	4,78,36,250.00	12.50%	12.50%
4th Milestone	26.06.2021	<b>07.08.2021</b> <b>43 days LD</b>	4,78,36,250.00	4,35,43,462.39	12.50%	11.38%
5th Milestone	15.07.2021	15.11.2021 <b>123 days LD</b>	4,78,36,250.00	3,11,44,910.08	12.50%	8.14%
6th milestone	05.08.2021	Not completed	4,78,36,250.00	2,41,86,337.05	12.5%	6.32%
7th milestone	31.08.2021	Not completed	4,78,36,250.00	16,25,934.76	12.5%	0.42%
8th milestone	15.09.2021	Not completed	4,78,36,250.00	-	12.5%	0.0%
<b>Overall Progress</b>	<b>38,26,90,000.00</b>			<b>24,40,09,394.28</b>	<b>100%</b>	<b>63.5%</b>
<b>Total %</b>	<b>100.00%</b>				<b>100%</b>	<b>63.5%</b>

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

**TABLE 6.2: MILESTONE WISE PROGRESS – 15 MLD UNNAO STP**

Sr · N o.	Description of Items	Milestone-6 (From 16th July'21 to 05th Aug'21 )		Achieved Milestone-6 (From 16th July'21 to 05th Aug'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )	
		%	Amount			%	Amount			%	Amount	%	Amount
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		-										
9	Wall 50% of total lift work		-				-						
4 0	Walls (balance 50% of Total Lift work)		-				-				-		-
1 1	Walkway/Platform		-				-				-		-
1 2	Piping & fitting works	100 %	21,96,910.0 8				-				-		-
1 3	Testing /Finishing works		-			50%	18,40,000.00			50%	18,40,000.0 0		-
ii	<b>Sludge Thickener Area</b>												
1	Site Clearance		-				-				-		-

Sr · No.	Description of Items	Milestone-6 (From 16th July'21 to 05th Aug'21 )		Achieved Milestone-6 (From 16th July'21 to 05th Aug'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )	
		%	Amount			%	Amount			%	Amount	%	Amount
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		-				-				-		-
<b>iii</b>	<b>Supernatant Sump Area</b>												
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		-				-				-		-
<b>iv</b>	<b>Chlorination Tank Area</b>												
1	Site Clearance		-				-				-		-
2	Excavation		-				-				-		-

Sr · No.	Description of Items	Milestone-6 (From 16th July'21 to 05th Aug'21 )		Achieved Milestone-6 (From 16th July'21 to 05th Aug'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )	
		%	Amount			%	Amount			%	Amount	%	Amount
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		-				-				-		-
v	<b>Air Blower Room Area</b>												
1	Site Clearance		-				-				-		-
2	Excavation		-				-				-		-
3	PCC		-				-				-		-
4	RCC Foundation/column footing		-				-				-		-
5	Column & Beam		-				-				-		-
6	RCC Roof Slab		-				-				-		-
7	Cable Trench Work		-				-				-		-
8	RCC Ground floor Grade Slab		-				-				-		-
9	Brick work		-				-				-		-
10	Plaster	100 %	1,71,633.60				-				-		-

Sr · No.	Description of Items	Milestone-6 (From 16th July'21 to 05th Aug'21 )		Achieved Milestone-6 (From 16th July'21 to 05th Aug'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )	
		%	Amount			%	Amount			%	Amount	%	Amount
1 1	Testing/Finishing work		-			100 %	5,83,000.00				-		-
vi	<b>Staff Quarter Area (G+1)</b>												
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		-				-				-		-
1 0	Plaster		-				-				-		-
1 1	Plumbing, fixtures , sanitary works, AC work	100 %	67,000.00				-				-		-
1 2	Electrification work		-			100 %	33,500.00				-		-
1 3	Finishing works		-				-			100%	33,500.00		-
vii	<b>Guard Room Area</b>												
1	Site Clearance		-				-				-		-

Sr · No.	Description of Items	Milestone-6 (From 16th July'21 to 05th Aug'21 )		Achieved Milestone-6 (From 16th July'21 to 05th Aug'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )	
		%	Amount			%	Amount			%	Amount	%	Amount
2	Excavation		-				-				-		-
3	PCC		-				-				-		-
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		-				-				-		-
11	Sanitary works, AC work		-				-				-		-
12	Electrification work		-				-				-		-
13	Finishing works		-				-				-		-
vii	<b>Chlorination Room Area</b>												
1	Site Clearance		-				-				-		-
2	Excavation		-				-				-		-
3	PCC		-				-				-		-
4	RCC Foundation/Column footing		-				-				-		-

Sr · No.	Description of Items	Milestone-6 (From 16th July'21 to 05th Aug'21 )		Achieved Milestone-6 (From 16th July'21 to 05th Aug'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )	
		%	Amount			%	Amount			%	Amount	%	Amount
5	Column & Beam		-				-				-		-
6	Ground floor Slab		-				-				-		-
7	Roof Slab		-				-				-		-
8	Brickwork		-				-				-		-
9	Plaster		-				-				-		-
10	Testing/Finishing works	100 %	4,11,000.00				-				-		-
<b>ix Admin Bldg Area (G+1)</b>													
1	Site Clearance		-				-				-		-
2	Excavation		-				-				-		-
3	PCC		-				-				-		-
4	Column footings/Foundation		-				-				-		-
5	Column & Beam up to First Floor		-				-				-		-
6	1st Floor Slab		-				-				-		-
7	Column & Beam First Floor to Roof Slab	100 %	1,18,438.05	100%	1,18,438.05		-				-		-
8	Roof Slab	100 %	1,35,357.77	100%	1,35,357.77		-				-		-
9	Brickwork		-			100 %	1,35,357.77	70%	94,750.44		-		-
10	Plaster		-			100 %	1,06,594.25	30%	31,978.27		-		-

Sr · No.	Description of Items	Milestone-6 (From 16th July'21 to 05th Aug'21 )		Achieved Milestone-6 (From 16th July'21 to 05th Aug'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )	
		%	Amount			%	Amount			%	Amount	%	Amount
11	Electrification, plumbing, fixtures , sanitary works, AC work		-				-			100%	2,22,249.31		-
12	finishing works		-				-			100%	1,39,000.00		-
x	<b>Sludge Dewatering System Area (Centrifuge Pump House, Sludge sump &amp; Poly dosing tank)</b>												
1	Site Clearance		-				-				-		-
2	Excavation		-				-				-		-
3	PCC		-				-				-		-
4	RCC Foundation		-				-				-		-
5	Column & Beam Upto First Floor		-				-				-		-
6	First Floor Slab		-				-				-		-
7	Column & Beam First Floor to Roof Slab		-				-				-		-
8	Roof Slab		-				-				-		-
9	Brickwork	100%	3,69,576.00				-				-		-
10	Plaster	100%	3,19,576.00				-				-		-
11	Piping & fiittings Work		-			100%	1,84,364.00				-		-
12	Testing/Finishing works		-				-			100%	3,51,000.00		-

Sr · No.	Description of Items	Milestone-6 (From 16th July'21 to 05th Aug'21 )		Achieved Milestone-6 (From 16th July'21 to 05th Aug'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )	
		%	Amount			%	Amount			%	Amount	%	Amount
<b>xi</b>	<b>Inlet Chamber Area</b>												
1	Site Clearance		-				-				-		-
2	Excavation & PCC		-				-				-		-
3	RCC Foundation/Column footing		-				-				-		-
4	Column & Beam		-				-				-		-
5	RCC Slab		-				-				-		-
6	RCC Wall	100 %	2,89,652.40				-				-		-
7	Testing/Finishing works		-			100 %	1,88,000.00				-		-
<b>xii</b>	<b>Manual &amp; Mechanica Fine Bar Screen Chamber Area</b>												
1	Site Clearance		-				-				-		-
2	Excavation		-				-				-		-
3	PCC		-				-				-		-
4	RCC Foundation		-				-				-		-
5	Column & Beam		-				-				-		-
6	RCC Slab		-				-				-		-
7	RCC Wall		-				-				-		-
8	Walkway/Platform	100 %	1,67,633.60				-				-		-

Sr · No.	Description of Items	Milestone-6 (From 16th July'21 to 05th Aug'21 )		Achieved Milestone-6 (From 16th July'21 to 05th Aug'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )	
		%	Amount			%	Amount			%	Amount	%	Amount
9	Testing/Finishing works		-			100 %	1,54,000.00				-		-
xii i	<b>Grit Chamber Area</b>												
1	Site Clearance		-				-				-		-
2	Excavation		-				-				-		-
3	PCC		-				-				-		-
4	RCC Foundation		-				-				-		-
5	Column & Beam		-				-				-		-
6	RCC Slab		-				-				-		-
7	RCC Wall		-				-				-		-
8	Walkway/Platform	100 %	2,28,844.80				-				-		-
9	Testing/Finishing works		-			100 %	1,85,400.00				-		-
xi v	<b>Parshall Flume Channel Area</b>												
1	Site Clearance		-				-				-		-
2	Excavation		-				-				-		-
3	PCC		-				-				-		-
4	RCC Foundation		-				-				-		-
5	Column & Beam		-				-				-		-

Sr · No.	Description of Items	Milestone-6 (From 16th July'21 to 05th Aug'21 )		Achieved Milestone-6 (From 16th July'21 to 05th Aug'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )	
		%	Amount			%	Amount			%	Amount	%	Amount
6	RCC Slab		-				-				-		-
7	RCC Wall		-				-				-		-
8	Walkway/Platform		-				-				-		-
9	Piping & fitting Work	100 %	1,71,633.60				-				-		-
10	Testing		-			100 %	2,57,400.00				-		-
xv	<b>Sludge Storage Platform Area</b>												
1	Site Clearance		-				-				-		-
2	Excavation		-				-				-		-
3	PCC	100 %	2,50,000.00				-				-		-
4	Foundation Work		-			100 %	3,00,000.00				-		-
5	Finishing work		-				-			100%	1,50,000.00		-
xv	<b>Transformer Yard Area</b>												
1	Site Clearance		-				-				-		-
2	Excavation		-				-				-		-
3	PCC	100 %	3,88,045.00	100%	3,88,045.00		-				-		-
4	Foundation Work		-			100 %	3,88,045.00	30%	1,16,413.50		-		-
xv	<b>DG Shed Area</b>												

Sr · No.	Description of Items	Milestone-6 (From 16th July'21 to 05th Aug'21 )		Achieved Milestone-6 (From 16th July'21 to 05th Aug'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )	
		%	Amount			%	Amount			%	Amount	%	Amount
1	Site Clearance		-				-				-		-
2	Excavation		-				-				-		-
3	PCC	100 %	4,36,555.00				-				-		-
4	Foundation Work		-			100 %	4,36,555.00				-		-
xv iii	<b>EXTERNAL DEVELOPMENT</b>												
	<b>Boundary Wall with Gate</b>												
1	Site Clearance		-				-				-		-
2	Excavation		-				-				-		-
3	PCC		-				-				-		-
4	RCC Column footing		-				-				-		-
5	RCC Column & Beam		-				-				-		-
6	Brickwork		-				-				-		-
7	Plaster	15%	75,318.75			22%	1,10,467.50				-		-
8	Retaining wall	13%	2,08,331.50	5%	80,127.50	9.5 %	1,52,242.25			40.5%	6,49,032.75		-
9	Finishing Work		-				-			100%	5,02,125.00		-
	<b>Earthfilling, Internal Roads ,Landscaping</b>		-				-				-		-
1	Earthfilling, Internal Roads ,Landscaping		-			50%	8,74,400.00			50%	8,74,400.00		-

Sr · No.	Description of Items	Milestone-6 (From 16th July'21 to 05th Aug'21 )		Achieved Milestone-6 (From 16th July'21 to 05th Aug'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
<b>B</b>	<b>I &amp; D Work</b>												
<b>(i)</b>	<b>Approach Channel</b>												
1	Excavation	100 %	68,186.60	50%	34,093.30		-				-		-
2	PCC	100 %	1,70,466.50	100%	1,70,466.50		-				-		-
3	RCC Foundation/Raft	100 %	2,04,559.80	50%	1,02,279.90		-				-		-
4	wall		-			100 %	1,70,466.50				-		-
5	Testing/Finishing work		-				-			100%	61,300.00		-
<b>(ii)</b>	<b>Inlet Chamber</b>												
1	Excavation	100 %	85,968.20	100%	85,968.20		-				-		-
2	PCC	100 %	2,14,920.50	100%	2,14,920.50		-				-		-
3	RCC Foundation/Raft	100 %	2,57,904.60	50%	1,28,952.30		-				-		-
4	wall		-			100 %	2,14,920.50				-		-
5	Testing/Finishing work		-				-			100%	77,300.00		-
<b>(ii)</b>	<b>Screen Channel</b>												
1	Excavation	100 %	68,789.70	100%	68,789.70		-				-		-
2	PCC	100 %	1,71,974.25	100%	1,71,974.25		-				-		-
3	RCC Foundation/Raft	100 %	2,06,369.10	50%	1,03,184.55		-				-		-

Sr · No.	Description of Items	Milestone-6 (From 16th July'21 to 05th Aug'21 )		Achieved Milestone-6 (From 16th July'21 to 05th Aug'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )	
		%	Amount			%	Amount			%	Amount	%	Amount
4	wall		-			100 %	1,71,974.25				-		-
5	Testing/Finishing work		-				-			100%	61,900.00		-
(i v)	<b>Grit Chamber</b>												
1	Excavation	100 %	70,669.70	100%	70,669.70		-				-		-
2	PCC	100 %	1,76,674.25				-				-		-
3	RCC Foundation/Raft	100 %	2,12,009.10				-				-		-
4	wall		-			100 %	1,76,674.25				-		-
5	Testing/Finishing work		-				-			100%	63,600.00		-
(v )	<b>Collection Chamber</b>												
1	Excavation	100 %	13,709.20	100%	13,709.20		-				-		-
2	PCC	100 %	34,273.00	100%	34,273.00		-				-		-
3	RCC Foundation/Raft	100 %	41,127.60	50%	20,563.80		-				-		-
4	wall		-			100 %	34,273.00				-		-
5	Testing/Finishing work		-				-			100%	12,300.00		-
C	<b>MPS-40 MLD</b>												
	<b>Civil Work</b>												
i	<b>Construction of Raw Sewage Sump</b>												

Sr · No.	Description of Items	Milestone-6 (From 16th July'21 to 05th Aug'21 )		Achieved Milestone-6 (From 16th July'21 to 05th Aug'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )	
		%	Amount			%	Amount			%	Amount	%	Amount
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)	50%	4,43,610.00	50%	4,43,610.00		-				-		-
7	Column & Beam	100 %	7,87,220.00				-				-		-
8	Ground Floor Slab		-			100 %	5,91,480.00				-		-
9	Testing/Finishing work		-				-			100%	5,91,480.00		-
ii	<b>Construction of Raw Sewage Pump House</b>												
1	Column & Beam		-			100 %	9,24,187.50				-		-
2	Roof Slab		-			100 %	9,24,187.50				-		-
3	Brickwork		-				-			100%	9,24,187.50		-
4	Plaster		-				-			100%	9,24,187.50		-
iii	<b>Construction of Inlet Chamber &amp; Screen Channel</b>												
1	Site Clearance		-				-				-		-
2	Excavation		-				-				-		-

Sr · No.	Description of Items	Milestone-6 (From 16th July'21 to 05th Aug'21 )		Achieved Milestone-6 (From 16th July'21 to 05th Aug'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )	
		%	Amount			%	Amount			%	Amount	%	Amount
3	PCC		-				-				-		-
4	RCC Foundation/Raft		-				-				-		-
5	Wall 50% of total lift work		-				-				-		-
6	Walls (balance 50% of Total Lift work)		-				-				-		-
7	Column & Beam	100 %	1,51,504.17				-				-		-
8	Ground Floor Slab		-			100 %	1,84,837.50				-		-
9	Walkway/Platform		-			100 %	1,84,837.50				-		-
10	Testing/Finishing work		-				-			100%	1,59,500.00		-
<b>D</b>	<b>SEWER SYSTEM AREA (3.2 Km)</b>												
1	Site Clearance		-				-				-		-
			-				-				-		-
2	Supply of pipes		-				-				-		-
3	Excavation and Laying of pipes including bed preparation & backfilling	23%	12,72,169.15	23%	12,72,169.15	15%	8,29,675.53	15%	8,29,675.53	25%	13,82,792.55		-
4	Manholes	25%	9,21,861.70		-	15%	5,53,117.02		-	33%	12,16,857.44		-
5	Flow/Hydraulic Testing	19%	14,01,229.78			15%	11,06,234.04		-	44%	32,58,876.25		
6	Road restoration work	20%	3,68,670.48	20%	3,68,744.68	30%	5,50,829.17	30%	5,53,117.02	50%	9,21,861.70		-
<b>E</b>	<b>RISING MAIN PIPING WORK (100 m)</b>												

Sr · No.	Description of Items	Milestone-6 (From 16th July'21 to 05th Aug'21 )		Achieved Milestone-6 (From 16th July'21 to 05th Aug'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )	
		%	Amount			%	Amount			%	Amount	%	Amount
1	Site Clearance		-				-				-		-
2	Supply of pipes		-				-				-		-
3	Cutting,Excavtion,Laying of Pipes, backfilling	62%	42,470.00			38%	26,030.00				-		-
4	Testing		-				-			100%	68,500.00		-
<b>F</b>	<b>EFFLUENT DISPOSAL SYSTEM</b>												
1	Site Clearance	100%	-				-				-		-
2	Construction of Effluent Channel from Distribution Chamber to Agriculture Land	50%	7,55,999.99			50%	7,55,999.99				-		-
3	Construction of Rectangular Channel from STP to Distribution Chamber	75%	8,50,499.98			25%	2,83,499.99				-		-
4	Construction of Distribution Chamber		-			55%	6,23,699.99			45%	5,10,299.99		-
<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		-			100%	5,40,000.00				-		-
ii)	<b>SLUDGE THICKENER AREA</b>		-				-				-		-
	A.Supply - Sludge Thickener		-				-				-		-

Sr · No.	Description of Items	Milestone-6 (From 16th July'21 to 05th Aug'21 )		Achieved Milestone-6 (From 16th July'21 to 05th Aug'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )	
		%	Amount			%	Amount			%	Amount	%	Amount
	B.Installation - Sludge Thickener		-			100 %	3,20,000.00				-		-
iii )	<b>TRANSFORMER YARD AREA</b>		-				-				-		-
	A.Supply - Transformer		-			100 %	44,00,000.00				-		-
	B.Installation - Transformer		-			100 %	11,00,000.00				-		-
iv )	<b>DG SHED AREA</b>		-				-				-		-
	A.Supply - DG		-			100 %	100,00,000.00				-		-
	B.Installation - DG		-				-			100%	25,00,000.00		-
v)	<b>MEP</b>		-				-				-		-
	A.Supply - Screen		-				-				-		-
	B.Installation - Screen		-			100 %	15,20,000.00				-		-
	C.Supply - Hoist		-				-				-		-
	D.Installation - Hoist		-			100 %	1,40,000.00				-		-
	E.Supply - Pumps & Motors(MEP)		-				-				-		-
	F.Installation - Pumps & Motors(MEP)		-			100 %	23,20,000.00				-		-
	G.Supply - Gate & Valves(MPS)		-				-				-		-
	H.Installation - Gate & Valves(MPS)		-			100 %	10,40,000.00				-		-

Sr · No.	Description of Items	Milestone-6 (From 16th July'21 to 05th Aug'21 )		Achieved Milestone-6 (From 16th July'21 to 05th Aug'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )	
		%	Amount			%	Amount			%	Amount	%	Amount
	I.Supply Instruments(like flow meter, Guages, level, Transmitter)		-			100 %	25,60,000.00				-		-
	J.Installation - Instruments(like flow meter, Guages, level, Transmitter)		-				-			100%	6,40,000.00		-
vi )	<b>INLET CHAMBER AREA</b>		-				-				-		-
	A.Supply - Gate & Valves(STP)		-				-				-		-
	B.Installation - Gate & Valves(STP)		-			100 %	8,40,000.00				-		-
vii )	<b>FINE SCREEN AREA</b>		-				-				-		-
	A.On supply -Fine Screen		-				-				-		-
	B.On Installation -Fine Screen		-			100 %	6,40,000.00				-		-
vii i)	<b>SBR BASIN AREA</b>		-				-				-		-
	A..On supply - Decanter Equipment		-				-				-		-
	B..Installation - Decanter Equipment		-				-			100%	38,60,000.00		-
	C.On supply - Diffuser	100 %	154,40,000.00	100%	154,40,000.00		-				-		-
	D.On Installation - Diffuser		-			100 %	38,60,000.00				-		-
	E.On supply - RAS Pump, SAS Pump		-				-				-		-
	F.On Installation - RAS Pump, SAS Pump		-			100 %	10,80,000.00				-		-

Sr · No.	Description of Items	Milestone-6 (From 16th July'21 to 05th Aug'21 )		Achieved Milestone-6 (From 16th July'21 to 05th Aug'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )	
		%	Amount			%	Amount			%	Amount	%	Amount
	G.On supply - Chain Pulley Block		-				-				-		-
	H.On Installation - Chain Pulley Block		-			100 %	1,40,000.00				-		-
ix)	<b>AIR BLOWER ROOM</b>		-				-				-		-
	A.Supply - Blower		-				-				-		-
	B. Installation - Blower		-				-			100%	12,00,000.0 0		-
	C.Supply - Hoist Work		-				-				-		-
	D.Installation - Hoist Work		-			100 %	1,00,000.00				-		-
x)	<b>CHLORINATION ROOM AREA</b>		-				-				-		-
	A.Supply - Chlorination system (Dosing pumps, chlorinators, Tonnes, Chemicals & Piping work		-				-				-		-
	B. Installation - Chlorination system(Dosing pumps, chlorinators, Tonnes, Chemicals & Piping work		-				-			100%	5,80,000.00		-
	C.Supply - Chlorine Nutrilisation Tank		-			100 %	4,00,000.00				-		-
	D.Installation - Chlorine Nutrilisation tank		-			100 %	1,00,000.00				-		-
	E.Supply - Hoist Work		-				-				-		-

Sr · N o.	Description of Items	Milestone-6 (From 16th July'21 to 05th Aug'21 )		Achieved Milestone-6 (From 16th July'21 to 05th Aug'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-7 (From 6th Aug'21 to 31st Aug.'21 )		Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21 )	
		%	Amount			%	Amount			%	Amount	%	Amount
	F.Installation - Hoist Work		-			100 %	1,40,000.00				-		-
xi)	<b>CENTRIFUGE HOUSE &amp; FEED PUMP AREA</b>		-				-				-		-
	A.On supply -Centrifuge & Feed Pump		-				-				-		-
	B.On Installation -Centrifuge & Feed Pump		-				-			100%	20,60,000.0 0		-
xii )	<b>ADMN BUILDING AREA</b>		-				-				-		-
	A.Supply - PMCC work	100 %	94,40,000.0 0	50%	47,20,000.0 0		-				-		-
	B.Installation - PMCC work		-			100 %	23,60,000.00				-		-
	C.Supply - PLC/SCADA Automation of MPS,STP,D.G set)	100 %	80,00,000.0 0				-				-		-
	D.Installation - PLC/SCADA Automation of MPS,STP,D.G set)		-				-			100%	20,00,000.0 0		-
xii i)	<b>TESTING OF E&amp;M EQUIPMENT FOR STP &amp; MPS</b>		-				-			100%	194,00,000. 00		-
xi v)	<b>EQUIPMENT TOOLS &amp; MISC.</b>		-				-			100%	6,00,000.00		-
<b>III</b>	<b>TRIAL RUN &amp; COMMISSIONING</b>												
1	Trial Run & Commissioning												
			<b>4,78,78,343 .50</b>		<b>2,41,86,337. 05</b>		<b>4,78,36,250.0 0</b>		<b>16,25,934.7 6</b>		<b>4,78,36,250. 00</b>		<b>-</b>

**PHOTOGRAPHS OF UNNAO STP SITE**



**Admin Building works**



**MPS Final Lift Work**



**SBR Works**

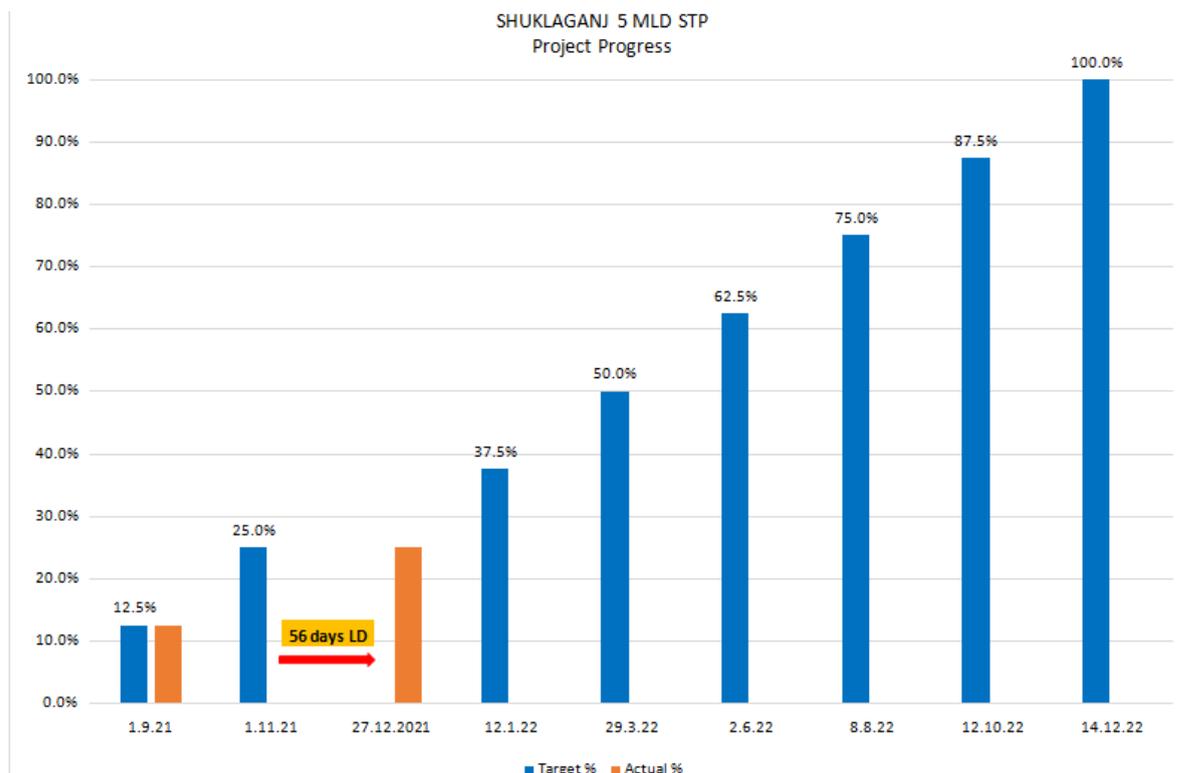


**I&D casting works**

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

Progress of construction works for 05 MLD STP at Shuklaganj is very slow. Total progress till Dec. 2021 is approx 25% against the target of 36%.

- During Dec. 2021, the manpower deployed at the 05 MLD STP site was 30-40 nos. KRMPL need to increase the manpower up to 100 to achieve the target on time;
- Milestone 1 complete on 01.09.2021. 2<sup>nd</sup> milestone was due on 01.11.2021 which was completed on 27.12.2021 by considering overall progress of 3<sup>rd</sup>, 4<sup>th</sup> and 5<sup>th</sup> milestones. Total 56 days LD was imposed on KRMPL for late completion of 2<sup>nd</sup> milestone. At present works of 3<sup>rd</sup>, 4<sup>th</sup> and 5<sup>th</sup> milestones are in progress.
- KRMPL needs to expedite the progress by increasing the manpower and working on multiple fronts.



- During visit, progress of different STP components was checked as per the approved construction plan and it was found that progress of 05 MLD STP is very slow. Detail is given below:

STP Units	Target %	Achieved %
I&D structure	36%	0%
Sewer Laying (12 km of 16.624)	36%	19%
Manholes (215 completed of 308)	36%	0%
Pumping Main (500mm dia, 80 m)	36%	0%
MPS	36%	10%
PTU	36%	0%

SBR	36%	10%
Air Blower	36%	10%
CCT, Chlorination Room	36%	10%
Sludge Thickener, Supernatant Sump	36%	60%
Centrifuge Building	36%	0%
Admin Building	36%	10%
Staff Quarter	36%	10%
Guard Room	36%	60%
Boundary Wall	36%	30%

### SUMMARY OF OVERALL PROGRESS AT Shuklaganj STP

Milestone	Schedule Completion date	Actual completion date	Milestone Amount (Rs.)	Progress till 30.11.2021		
				Milestone Amount (Rs.)	% Target	% Achieved
1st milestone	01.09.2021	01.09.2021	2,66,18775.0	2,55,06,721.09	12.50%	12.0%
2nd milestone	01.11.2021	27.12.2021 56 days LD	2,66,18775.0	1,10,61,504.11	12.50%	5.2%
3rd Milestone	12.01.2022	-	2,66,18775.0	7,25,324.80	12.50%	0.3%
4th Milestone	29.03.2022	-	2,66,18775.0	74,52,000.00	12.50%	3.5 %
5th Milestone	02.06.2022	-	2,66,18775.0	84,92,000.00	12.50%	4.0%
6th milestone	08.08.2022	-	2,66,18775.0		12.5%	
7th milestone	12.10.2022	-	2,66,18775.0		12.5%	
8th milestone	14.12.2022	-	2,66,18775.0		12.5%	
<b>Overall Progress</b>			<b>21,29,50,200.00</b>	<b>5,32,37,550.00</b>	<b>100%</b>	<b>25%</b>
<b>Total %</b>			<b>100.00%</b>		<b>100%</b>	<b>25%</b>

Milestone wise progress of Shuklaganj STP is given in following table:

**TABLE 6.3: MILESTONE WISE PROGRESS – 05 MLD Shuklaganj STP**

Sr. No.	Description of Items	Milestone-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievement of 2nd Milestone		Milestone-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achievement of 3rd Milestone		Milestone-4 (From 13th Jan.'22 to 29th March'22 )		Achievement of 4th Milestone		Milestone-5 (From 30th March'22 to 2nd June'22 )		Achievement of 5th Milestone	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
<b>i) SBR Basin Area</b>																	
1	Site Clearance				-				-								
2	Excavation wall footing	40%	7,66,620.74	40%	7,66,620.74				-								
3	PCC wall footing	50%	11,97,844.90	50%	11,97,844.90	20%	4,79,137.96		-								
4	RCC Foundation/Raft of wall	26%	7,48,039.25		-	74%	21,27,372.54		-								
5	Wall 50% of total upto base slab		-		-	100%	23,95,689.80		-								
6	Walls (balance 50% of upto base slab)		-		-		-		-	100%	23,95,689.80				-		
7	PCC Base Slab		-		-		-		-					100%	35,93,534.70		
8	RCC Foundation base slab		-		-		-		-						-		
9	Wall 50% of total lift work		-		-		-		-						-		
10	Walls (balance 50% of Total Lift work)		-		-		-		-						-		
13	Hydro Testing /Finishing works		-		-		-		-						-		
<b>ii) Chlorination Tank Area</b>																	
1	Site Clearance				-				-								
2	Excavation				-				-								
3	PCC	100%	3,59,353.50		-				-								
4	RCC Foundation/Raft	100%	5,98,922.50		-				-								
5	Wall 50% of total lift work		-		-	100%	3,59,353.50		-								
6	Walls (balance 50% of Total Lift work)		-		-	51%	2,44,360.38		-	49%	2,34,777.62						

Sr. No.	Description of Items	Milestone-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievement of 2nd Milestone		Milestone-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achievement of 3rd Milestone		Milestone-4 (From 13th Jan.'22 to 29th March'22 )		Achievement of 4th Milestone		Milestone-5 (From 30th March'22 to 2nd June'22 )		Achievement of 5th Milestone	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
7	Baffle Walls work		-		-		-		-		-			100%	1,19,784.50		
8	Hydro Testing /Finishing works		-		-		-		-		-				-		
iii	<b>Chlorination Room Area</b>																
1	Site Clearance		-		-		-		-		-						
2	Excavation		-		-		-		-		-						
3	PCC		-		-		-		-		-						
4	RCC Foundation/Column footing	100%	5,98,922.50		-		-		-		-						
5	Column & Beam	100%	3,59,353.50		-		-		-		-						
6	Ground floor Slab		-		-		-		-	100%	2,39,569.00				-		
7	Roof Slab		-		-	100%	3,59,353.50		-		-				-		
8	Brickwork		-		-		-		-	100%	1,19,784.50				-		
9	Plaster		-		-		-		-	100%	1,19,784.50				-		
10	Testing/Finishing works		-		-		-		-		-			100%	1,19,784.50		
iv	<b>Guard Room Area</b>																
1	Site Clearance		-		-		-		-		-						
2	Excavation		-		-		-		-		-						
3	PCC		-		-		-		-		-						
4	RCC Foundation/column footing	48%	80,495.18	48%	80,495.18		-		-		-						
5	Column & Beam	100%	2,51,547.45	100%	2,51,547.45		-		-		-						
6	RCC Ground floor Slab		-		-	100%	2,51,547.45		-		-						

Sr. No.	Description of Items	Milestone-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievement of 2nd Milestone		Milestone-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achievement of 3rd Milestone		Milestone-4 (From 13th Jan.'22 to 29th March'22 )		Achievement of 4th Milestone		Milestone-5 (From 30th March'22 to 2nd June'22 )		Achievement of 5th Milestone	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
7	RCC Roof Slab		-		-		-			100%	83,849.15		-		-		
8	Brick work		-		-		-			100%	1,67,698.30				-		
9	Plumbing, fixtures		-		-		-				-		100%	83,849.15			
10	Sanitary works		-		-		-				-		100%	83,849.15			
11	Electrification work		-		-		-				-			-			
12	Plaster		-		-		-				-			-			
13	Finishing works		-		-		-				-			-			
iv	<b>Admin Bldg Area (G+1)</b>																
1	Site Clearance		-		-		-				-			-			
2	Excavation		-		-		-				-			-			
3	PCC		-		-		-				-			-			
4	Column footings/Foundation	80%	4,21,641.36		-	20%	1,05,410.34				-			-			
5	Column & Beam up to Floor Base slab		-		-		-			74%	5,85,027.39			26%	2,05,550.16		
6	Floor base Slab		-		-		-				-		100%	7,90,577.55			
7	Column & Beam upto Roof Slab		-		-		-				-			-			
8	1st Floor Roof Slab		-		-		-				-			-			
9	Brickwork		-		-		-				-			-			
10	Electrification, plumbing, fixtures , sanitary works		-		-		-				-			-			
11	Plaster		-		-		-				-			-			
12	finishing works		-		-		-				-			-			
v	<b>Air Blower Room Area</b>																

Sr. No.	Description of Items	Milestone-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievement of 2nd Milestone		Milestone-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achievement of 3rd Milestone		Milestone-4 (From 13th Jan.'22 to 29th March'22 )		Achievement of 4th Milestone		Milestone-5 (From 30th March'22 to 2nd June'22 )		Achievement of 5th Milestone	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
1	Site Clearance				-		-										
2	Excavation		-		-		-										
3	PCC	100%	7,18,707.00		-		-				-						
4	RCC Foundation/column footing		-		-	100%	7,18,707.00				-						
5	Column & Beam		-		-		-						100%	7,18,707.00			
6	RCC Roof Slab		-		-		-						100%	9,58,276.00			
7	Cable Trench Work		-		-		-										
8	Brick work		-		-		-										
9	Plaster		-		-		-										
10	Testing/Finishing work		-		-		-										
vi	<b>Staff Quarter Area (G+1)</b>																
1	Site Clearance				-		-										
2	Excavation				-		-										
3	PCC		-		-		-										
4	RCC Foundation/column footing	100%	1,67,698.30	100%	1,67,698.30												
5	Column & Beam upto ground floor slab	100%	2,51,547.45		-		-										
6	RCC Ground floor Slab (Base floor slab)		-		-		-			100%	1,67,698.30						
7	Column upto roof slab & RCC 1st floor Slab		-		-	100%	3,35,396.60										
8	Brick work		-		-	100%	83,849.15										
9	Plumbing, fixtures , sanitary works		-		-	100%	83,849.15										

Sr. No.	Description of Items	Milestone-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievement of 2nd Milestone		Milestone-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achievement of 3rd Milestone		Milestone-4 (From 13th Jan.'22 to 29th March'22 )		Achievement of 4th Milestone		Milestone-5 (From 30th March'22 to 2nd June'22 )		Achievement of 5th Milestone	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
10	Electrification work		-		-	100%	83,849.15				-					-	
11	Plaster		-		-					100%	83,849.15					-	
12	Finishing works		-		-					100%	83,849.15					-	
vii	<b>Inlet Chamber Area</b>																
1	Site Clearance		-			100%	28,748.28										
2	Excavation & PCC					100%	1,86,863.82				-						
3	RCC Foundation/Column footing						-			100%	2,15,612.10						
4	Column & Beam		-				-				-			100%	3,59,353.50		
5	RCC Slab		-				-				-			100%	2,87,482.80		
6	RCC Wall		-				-				-			100%	2,87,482.80		
7	Hydro Testing /Finishing works		-				-				-						
viii	<b>Manual &amp; Mechanical Fine Bar Screen Chamber Area</b>																
1	Site Clearance		-							100%	28,748.28						
2	Excavation						-			100%	1,86,863.82						
3	PCC						-			100%	2,15,612.10					-	
4	RCC Foundation										-			100%	2,87,482.80		
5	Column & Beam										-			100%	2,15,612.10		
6	RCC Slab														-		

Sr. No.	Description of Items	Milestone-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievement of 2nd Milestone		Milestone-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achievement of 3rd Milestone		Milestone-4 (From 13th Jan.'22 to 29th March'22 )		Achievement of 4th Milestone		Milestone-5 (From 30th March'22 to 2nd June'22 )		Achievement of 5th Milestone	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
7	RCC Wall						-									-	
8	Walkway/Platform																
9	Hydro Testing /Finishing works																
ix	<b>Grit Chamber Area</b>																
1	Site Clearance		-							10 0%	62,287.9 4						
2	Excavation						-			10 0%	4,04,871. 61						
3	PCC						-			74 %	3,45,211. 12			26 %	1,21,461. 48		
4	RCC Foundation										-			10 0%	6,22,879. 40		
5	Column & Beam										-			10 0%	4,67,159. 55		
6	RCC Slab														-		
7	RCC Wall						-								-		
8	Walkway/Platform																
9	Hydro Testing /Finishing works																
x	<b>Parshall Flume Channel Area</b>																
1	Site Clearance		-							10 0%	62,287.9 4						
2	Excavation						-			10 0%	4,04,871. 61						
3	PCC						-			50 %	2,33,579. 78			50 %	2,33,579. 78		
4	RCC Foundation										-			10 0%	4,67,159. 55		
5	Column & Beam										-			10 0%	4,67,159. 55		
6	RCC Slab														-		

Sr. No.	Description of Items	Milestone-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievement of 2nd Milestone		Milestone-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achievement of 3rd Milestone		Milestone-4 (From 13th Jan.'22 to 29th March'22 )		Achievement of 4th Milestone		Milestone-5 (From 30th March'22 to 2nd June'22 )		Achievement of 5th Milestone	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
7	RCC Wall						-										
8	Walkway/Platform																
9	Piping & fitting Work																
10	Hydro Testing /Finishing works																
xi	<b>Sludge Dewatering System Area (Centrifuge Pump House, Sludge sump &amp; Poly dosing tank)</b>																
1	Site Clearance		-											100%	86,244.84		
2	Excavation		-											100%	2,15,612.10		
3	PCC		-								-			100%	3,44,979.36		
4	RCC Foundation		-								-			75%	3,23,418.15		
5	Column & Beam Upto First Floor		-								-						
6	First Floor Slab		-								-				-		
7	Column & Beam First Floor to Roof Slab		-				-				-						
8	Roof Slab		-				-				-						
9	Brickwork		-				-				-						
10	Plaster		-				-				-						
11	Piping & fittings Work		-				-				-						
12	Hydro Testing /Finishing works		-				-				-						
xii	<b>Sludge Thickener Area</b>																
1	Site Clearance						-				-						
2	Excavation						-				-						
3	PCC						-				-						
4	RCC Foundation Wall/base slab	100	8,38,491.	100%	8,38,491.						-						

Sr. No.	Description of Items	Milestone-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievement of 2nd Milestone		Milestone-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achievement of 3rd Milestone		Milestone-4 (From 13th Jan.'22 to 29th March'22 )		Achievement of 4th Milestone		Milestone-5 (From 30th March'22 to 2nd June'22 )		Achievement of 5th Milestone	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
		%	50		50												
5	Wall 50% of total lift work					100%	6,70,793.20		-								
6	Walls (balance 50% of Total Lift work)						-		-	50%	3,35,396.60			50%	3,35,396.60		
7	Hydro Testing /Finishing works						-							100%	1,67,698.30		
xiii	<b>Supernatant Sump Area</b>																
1	Site Clearance																
2	Excavation																
3	PCC																
4	RCC Foundation wall/base slab		-														
5	Wall 50% of total lift work	100%	4,79,138.00	100%	4,79,138.00												
6	Walls (balance 50% of Total Lift work)		-			100%	4,79,138.00										
7	Hydro Testing /Finishing works		-				-			100%	1,19,784.50						
xiv	<b>Sludge Storage Platform Area</b>																
1	Site Clearance																
2	Excavation																
3	PCC																
4	Foundation Work																
5	Finishing work																
xv	<b>Transformer Yard Area</b>																
1	Site Clearance																
2	Excavation																
3	PCC																

Sr. No.	Description of Items	Milestone-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievement of 2nd Milestone		Milestone-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achievement of 3rd Milestone		Milestone-4 (From 13th Jan.'22 to 29th March'22 )		Achievement of 4th Milestone		Milestone-5 (From 30th March'22 to 2nd June'22 )		Achievement of 5th Milestone	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
4	Foundation Work																
xvi	<b>DG Shed Area</b>																
1	Site Clearance																
2	Excavation																
3	PCC																
4	Foundation Work																
xvii	<b>EXTERNAL DEVELOPMENT</b>																
	<b>Boundary Wall with Gate</b>																
1	Site Clearance																
2	Excavation	20%	5,39,914.95	15%	4,04,936.21	20%	5,39,914.95		-	20%	5,39,914.95						
3	PCC	20%	7,19,886.60	12.01%	4,32,271.13	20%	7,19,886.60		-	20%	7,19,886.60			10%	3,59,943.30		
4	RCC Column footing	20%	7,19,886.60	10%	3,59,943.30	20%	7,19,886.60		-	10%	3,59,943.30			15%	5,39,914.95		
5	RCC Column & Beam	20%	5,39,914.95	10%	2,69,957.48	20%	5,39,914.95		-	11%	2,96,953.22			10%	2,69,957.48		
6	Brickwork	20%	5,39,914.95	10%	2,69,957.48	15%	4,04,847.78		-	10%	2,69,957.48			10%	2,69,957.48		
7	Plaster	15%	2,69,957.48		-	15%	2,69,957.48			9%	1,61,974.49			14%	2,51,233.08		
8	Finishing Work		-		-		-			5%	44,992.91			10%	89,985.83		
	<b>Earthfilling, Internal Roads ,Landscaping</b>																
1	Earthfilling, Internal Roads ,Landscaping																
B	<b>MPS-20 MLD</b>																
	<b>Civil Work</b>																
i	<b>Construction of Raw Sewage Sump</b>																
1	Site Clearance																

Sr. No.	Description of Items	Milestone-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievement of 2nd Milestone		Milestone-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achievement of 3rd Milestone		Milestone-4 (From 13th Jan.'22 to 29th March'22 )		Achievement of 4th Milestone		Milestone-5 (From 30th March'22 to 2nd June'22 )		Achievement of 5th Milestone	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
2	Excavation		-		-												
3	PCC	100%	12,87,413.85	100%	12,87,413.85												
4	RCC Foundation/Raft	100%	17,16,551.80	100%	17,16,551.80										-		
5	Wall 50% of total lift work		-		-	100%	12,87,413.85								-		
6	Walls (balance 50% of Total Lift work)		-		-	100%	12,87,413.85				-				-		
7	Column & Beam		-		-		-			100%	8,58,275.90				-		
8	Ground Floor Slab													100%	6,86,620.72		
9	Hydro Testing /Finishing works																
ii	<b>Construction of Raw Sewage Pump House</b>																
1	Column & Beam																
2	Roof Slab																
3	Brickwork																
4	Plaster																
iii	<b>Construction of Inlet Chamber &amp; Screen Channel</b>																
1	Site Clearance				-		-				-						
2	Excavation									100%	2,87,482.80						
3	PCC		-		-		-			100%	4,31,224.20						
4	RCC Foundation/Raft		-		-		-			50%	2,15,612.10			50%	2,15,612.10		
5	Wall 50% of total lift work		-		-		-				-			100%	4,31,224.20		
6	Walls (balance 50% of Total Lift work)						-				-				-		

Sr. No.	Description of Items	Milestone-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievement of 2nd Milestone		Milestone-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achievement of 3rd Milestone		Milestone-4 (From 13th Jan.'22 to 29th March'22 )		Achievement of 4th Milestone		Milestone-5 (From 30th March'22 to 2nd June'22 )		Achievement of 5th Milestone	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
7	Column & Beam						-				-					-	
8	Ground Floor Slab		-				-				-					-	
9	Walkway/Platform																
10	Hydro Testing /Finishing works																
<b>C</b>	<b>SEWER SYSTEM AREA</b>																
1	Site Clearance				-												
2	Supply of pipes	35%	25,38,636.80	35%	25,38,636.80	10%	7,25,324.80	10%	7,25,324.80		-					-	
3	Excavation and Laying of pipes including bed preparation & backfilling	20%	1,35,998.40		-	36%	2,44,797.12			30%	2,02,854.81			14%	95,198.88		
4	Manholes		-		-	35%	2,37,997.20			25%	1,69,998.00			25%	1,69,998.00		
5	Flow Testing		-		-									21%	94,925.62		
<b>D</b>	<b>I &amp; D Work</b>																
<b>(i)</b>	<b>Approach Channel</b>																
1	Excavation						-			10%	68,100.00						
2	PCC		-							10%	1,70,000.00						
3	RCC Foundation/Raft		-							10%	2,05,000.00					-	
4	wall													41%	69,700.00		
5	Hydro Testing /Finishing works																
<b>(ii)</b>	<b>Inlet Chamber</b>																
1	Excavation									10%	85,900.00						
2	PCC		-							10%	2,15,000.00						

Sr. No.	Description of Items	Milestone-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievement of 2nd Milestone		Milestone-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achievement of 3rd Milestone		Milestone-4 (From 13th Jan.'22 to 29th March'22 )		Achievement of 4th Milestone		Milestone-5 (From 30th March'22 to 2nd June'22 )		Achievement of 5th Milestone	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
3	RCC Foundation/Raft		-							10 0%	2,55,000. 00						
4	wall													10 0%	2,15,000. 00		
5	Hydro Testing /Finishing works																
<b>(iii)</b>	<b>Screen Channel</b>																
1	Excavation													10 0%	68,700.0 0		
2	PCC		-											10 0%	1,71,900. 00		
3	RCC Foundation/Raft		-											10 0%	2,06,370. 00		
4	wall		-				-										
5	Hydro Testing /Finishing works		-				-				-						
<b>(iv)</b>	<b>Grit Chamber</b>																
1	Excavation													10 0%	70,670.0 0		
2	PCC		-											10 0%	1,76,675. 00		
3	RCC Foundation/Raft		-											10 0%	2,12,000. 00		
4	wall		-				-										
5	Hydro Testing /Finishing works		-				-				-						
<b>(v)</b>	<b>Collection Chamber</b>																
1	Excavation													10 0%	13,710.0 0		
2	PCC		-											10 0%	34,273.0 0		
3	RCC Foundation/Raft		-											10 0%	41,130.0 0		
4	wall		-				-										

Sr. No.	Description of Items	Milestone-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievement of 2nd Milestone		Milestone-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achievement of 3rd Milestone		Milestone-4 (From 13th Jan.'22 to 29th March'22 )		Achievement of 4th Milestone		Milestone-5 (From 30th March'22 to 2nd June'22 )		Achievement of 5th Milestone	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
5	Hydro Testing /Finishing works		-				-				-						
<b>E</b>	<b>EFFLUENT DISPOSAL SYSTEM</b>																
1	Site Clearance																
2	Construction of Effluent Channel																
<b>F</b>	<b>E&amp;M WORK</b>																
i)	<b>GRIT CHAMBER AREA</b>																
	A.On supply - Grit Scraper Mechanism	100 %	18,28,000.00				-				-						
	B.On Installation - Grit Scraper Mechanism																
ii)	<b>SLUDGE THICKENER AREA</b>																
	A.Supply - Sludge Thickener		-			10 0%	7,04,000.00								-		
	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		-			10 0%	33,44,000.00				-				-		
	B.Installation - Screen																
	C.Supply - Hoist	100 %	4,68,000.00												-		
	D.Installation - Hoist																

Sr. No.	Description of Items	Milestone-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievement of 2nd Milestone		Milestone-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achievement of 3rd Milestone		Milestone-4 (From 13th Jan.'22 to 29th March'22 )		Achievement of 4th Milestone		Milestone-5 (From 30th March'22 to 2nd June'22 )		Achievement of 5th Milestone	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
	E.Supply - Pumps & Motors(MEP)	100%	69,44,000.00				-				-						
	F.Installation - Pumps & Motors(MEP)																
	G.Supply - Gates					100%	11,44,000.00				-				-		
	H.Supply - Valves(MPS)						-			100%	11,44,000.00				-		
	I.Installation - Gate & Valves(MPS)																
	J.Installation - Gate & Valves(MPS)																
	K.Supply Instruments(like flow meter, Guages, level, Transmitter)													100%	14,08,000.00		
	L.Installation - Instruments(like flow meter, Guages, level, Transmitter)																
vi)	<b>INLET CHAMBER AREA</b>																
	A.Supply - Gates					100%	9,24,000.00				-						
	B.Supply - Valves(STP)						-			100%	9,24,000.00						
	C.Installation - Gates																
	D.Installation - Valves(STP)																
vii)	<b>FINE SCREEN AREA</b>																
	A.On supply -Fine Screen						-			100%	14,08,000.00						
	B.On Installation -Fine Screen																
viii)	<b>SBR BASIN AREA</b>																
	A..On supply - Decanter Equipment		-				-			100%	74,52,000.00	100%	74,52,000.00		-		
	B..Installation - Decanter Equipment																
	C.On supply - Diffuser		-				-				-			10	84,92,00	10	84,92,00

Sr. No.	Description of Items	Milestone-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievement of 2nd Milestone		Milestone-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achievement of 3rd Milestone		Milestone-4 (From 13th Jan.'22 to 29th March'22 )		Achievement of 4th Milestone		Milestone-5 (From 30th March'22 to 2nd June'22 )		Achievement of 5th Milestone	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
														0%	0.00	0%	0.00
	D.On Installation - Diffuser																
	E.On supply - RAS Pump, SAS Pump		-				-			10%	27,76,000.00				-		
	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		-				-				-				-		
	B. Installation - Blower																
	C.Supply - Hoist Work		-				-			10%	4,60,000.00				-		
	D.Installation - Hoist Work																
x)	<b>CHLORINATION ROOM AREA</b>																
	A.Supply - Chlorination system(Dosing pumps, chlorinators, Tonnes, Chemicals & Piping work		-				-				-				-		
	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										-				-		
	F.Installation - Hoist Work																
xi)	<b>CENTRIFUGE HOUSE &amp; FEED PUMP AREA</b>																
	A.On supply -Centrifuge					10%	22,66,000.00								-		
	B.On supply -Centrifuge Feed Pump					10%	22,66,000.00								-		

Sr. No.	Description of Items	Milestone-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievement of 2nd Milestone		Milestone-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achievement of 3rd Milestone		Milestone-4 (From 13th Jan.'22 to 29th March'22 )		Achievement of 4th Milestone		Milestone-5 (From 30th March'22 to 2nd June'22 )		Achievement of 5th Milestone	
		%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
	C.On Installation -Centrifuge																
	D.On Installation -Centrifuge Feed Pump																
xii)	<b>ADMN BUILDING AREA</b>																
	A.Supply - LT/HT Panel						-				-					-	
	B.Installation - LT/HT Panel																
	C.Supply - PLC/SCADA Automation																-
	D.Installation - PLC/SCADA Automation																
xiii)	<b>Cable Tray &amp; Earthing work</b>																
	A.Supply - cable Tray/Earthing material						-				-					-	
	B.Installation - Cable Tray/Earthing material																
xiv)	<b>External Electrification (lighting &amp; Pole)</b>																
	A.Supply						-				-					-	
	B.Installation																
xv)	<b>TESTING OF E&amp;M EQUIPMENT FOR STP &amp; MPS</b>																
xvi)	<b>EQUIPMENT TOOLS &amp; MISC.</b>																
<b>III</b>	<b>TRIAL RUN &amp; COMMISSIONING</b>																
1	Trial Run & Commissioning																
			266,18,77 5.00		110,61,5 04.11		266,18,7 75.00		7,25,32 4.80		266,18,7 75.00		74,52,00 0.00		266,18,7 75.00		84,92,0 00.00

**Photographs of Shuklaganj STP**



**Steel binding is in progress of MPS**



**PCC of SBR wall done and raft in progress**



**Footing of Staff Quarter & Column casting**



**Sludge Thickener Steel Binding works**

## 7. PRESENT STATUS AND ISSUES OF EXISTING STPS

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

Schedule handing over date for 130 MLD Jajmau phase-I facilities is same as Effective date (11.10.2019) as per CA but the plant could be handed over to KRMPL on 01/03/2021 only for renovation and O & M for 15 years, due to labour problem.

As per CA COD for 130 MLD Jajmau Phase-I and 43 MLD Jajmau phase-II was same as per CA, which has been separated by NMCG vide letter no.F.No.pr-12012/7/2018/PPP/NMCG dated 02.08.2021.

- CSPS Jajmau handed over to KRMPL on 01.03.2021
- Nawabganj IPS handed over to KRMPL on 28.06.2021
- Baba Ghat IPS handed over to KRMPL on 28.06.2021
- Parmat Ghat handed over to KRMPL on 23.07.2021
- Guptar Ghat IPS handed over to KRMPL on 23.07.2021
- **CSPS Jajmau**
  1. KRMPL has not replaced all pumps under renovation plan.
  2. KRMPL is not doing maintain proper O&M during renovation period.
  3. Proper maintenance of CSPS is not doing by KRMPL.
  4. Documentations and Log book of pumps, DG set are not maintaining by KRMPL.
- **Nawabganj IPS**
  1. This IPS is in overflow/Bypass condition since Handover.
  2. KRMPL did not take any necessary action to preventing overflow condition.
  3. Proper maintenance of CSPS is not doing by KRMPL.
  4. KRMPL is not maintaining proper O&M during renovation period.
  5. New pumps should be install.
  6. Documentations and Log book of pumps, DG set are not maintaining by KRMPL.
- **Baba Ghat IPS**
  1. This IPS is not overflow/By pass condition.
  2. Proper maintenance of CSPS is not doing by KRMPL.
  3. Documentations and Log book of pumps, DG set are not maintaining by KRMPL.
- **Guptar Ghat IPS**
  1. This IPS is not overflow/Bypass condition.
  2. Proper maintenance of CSPS is not doing by KRMPL.
  3. Documentations and Log book of pumps, DG set are not maintaining by KRMPL.
- **Parmat IPS**
  1. Proper maintenance of CSPS is not doing by KRMPL.
  2. This IPS is not overflow/Bypass condition.
  3. KRMPL is not maintaining proper O&M during renovation period.

4. Documentation and Log book of pumps, DG set are not maintained
- O&M of 130 MLD STP plant Phase 1 and their facilities found unsatisfactory during site visit of NMCG, SMCG, CPCB, UPPCB, District level Officials UPJN and STC officials and intimate to KRMPL taken necessary action to avoid overflow/Bypass condition.
  - NMCG officials, SMCG and UPJN intimate to KRMPL many time to operate proper 130 MLD plant and their facilities and maintains all records because (Magh Mela) is start from January 2022 to March 2022.

## 7.2 Renovation Work Plan

The KRMPL has submitted a renovation work plan from 10-may-2021 to 9-Aug-2022 which has been approved by UPJN. Milestones are to be completed as below:-

1. 1<sup>ST</sup> Milestone, (Duration 10<sup>th</sup> May 2021 to 15<sup>th</sup> Oct 2021)  
Scheduled Progress Percentage- 25%
2. 2<sup>nd</sup> Milestone, (Duration 16<sup>th</sup> Oct 2021 to 15<sup>th</sup> March 2021)  
Scheduled Progress Percentage- 25%
3. 3<sup>rd</sup> Milestone ,( Duration 16<sup>th</sup> March 2022 to 15<sup>th</sup> June 2022)  
Scheduled Progress Percentage- 25%
4. 4<sup>th</sup> Milestone ,( Duration 16<sup>th</sup> June 2022 to 9<sup>th</sup> August 2022)  
Scheduled Progress Percentage- 25%

## 7.3 O&M Plan

The KRMPL shall submit the draft O&M manual at least 30 days prior to the Scheduled Construction Completion date for its review and approval. The KRMPL has submitted the list of adequate staff deployed for proper renovation and O&M of 130 MLD Jajmau phase-I facilities, which is not properly qualified & experienced.

## 7.4 MILESTONE WISE ACTIVITIES AND PROGRESS

- The Duration of 1<sup>st</sup> milestone was 10<sup>th</sup> may 2021 to 15<sup>th</sup> Oct 2021 as per approved renovation plan.
- KRMPL could not complete the 1<sup>st</sup> milestone as per approved renovation plan. Completion certificate has been recommended form PE for 1<sup>st</sup> milestone with considering part of 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> Milestone vide letter no. STC 1289A dated 27.11.2021
- Total 44 Nos. of manpower/workers for Civil Work and 21 Nos. of Manpower for Mechanical works are deployed at the site for renovation work. KRMPL need to increase manpower over 70 to 90 Nos. to achieve the target on time as per approved renovation plan.
- Till date overall progress is **31.53%** out of target **37.66%** as on 31 Dec 2021.
- Renovation work has not done by KRMPL as per approved renovation plan taken 1 stream at a time.

- NMCG has also instructed KRMPL to follow approved renovation plan or submit revised renovation plan.
- Retrofication of Collection chamber, Fine screen chamber, Grit chamber, Parshall flume, Distribution chamber, Primary sedimentation tank -2 ,Secondary sedimentation tank -2,Blending tank, Sludge Thickener-1,Thickened sludge sump, Secondary sludge digester, Digester pumping station, Distribution chamber for Aeration tank Return sludge sump ,Return sludge pump house ,MCC panel room for civil work and Mechanical work is in progress.
- Utility shifting estimation amount has been already released by NMCG to UPJN with vide NMCG letter No F.No. Pr-12012/7/2018/PPP/NMCG dated 25.11.2021

**Summary of overall progress at 130MLD STP JAJMAU PHASE-1 FACILITIES**

Milestone	Schedule Completion date	Actual Completion date	Milestone Amount	Targeted progress till 30.11.2021		
				Milestone Amount	% Target	% Achieved
1 <sup>st</sup> Milestone	15.10.2021	15.10.2021	240160000.00	151539739.99	25%	15.77%
2 <sup>nd</sup> milestone	15.03.2022		240160000.00	88904254.02	25%	9.25%
3 <sup>rd</sup> milestone	15.06.2022		240160000.00	34043422.31	25%	3.54%
4 <sup>th</sup> milestone	09.08.2022		240160000.00	28415731.20	25%	2.95%
Overall progress		960640000.000		302903147.52	100%	31.53%
<b>Total %</b>		<b>100%</b>			<b>100%</b>	<b>31.53%</b>

Milestone wise activities and their progress of work for 130MLD STP Jajmau Phase-1 facilities are given in above Table.

**Table 7.1: Milestone wise progress – 130 MLD Jajmau Phase I STP**

Sr. No.	Description of Items	BOQ Amount	1st Milestone 10th May'21 to 15th October'21		1st Milestone 10th May'21 to 15th October'21 Achieved		2nd Milestone 16th Oct'21 to 15th March'22		2nd Milestone 16th Oct'21 to 15th March'22 Achieved		3rd Milestone 16th March'22 to 15th June'22		3rd Milestone 16th March'22 to 15th June'22 Achieved		4th Milestone 16th June'22 to 9th Aug'22		4th Milestone 16th June'22 to 9th Aug'22 Achieved	
			%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
<b>I</b>	<b>Design &amp; Drawing of STP</b>																	
i.	On approval of BEP	480,32,00 0.00	100 %	480,32,00 0.00	100 %	48032000. 00				-				-				-
ii.	On approval of design & drawings for Civil works	480,32,00 0.00	25%	120,08,00 0.00	25 %	12008000. 00	75%	360,24,00 0.00	75%	360,24,00 0.00				-				-
										-				-				-
<b>II</b>	<b>REHABILITATION/RENOVATION OF EXISTING STP &amp; IPSS</b>																	
<b>A.</b>	<b>Civil Work</b>																	
i.	Retrofication for Collection chamber	51,87,456. 00	100 %	51,87,456. 00	100 %	5187456.0 0				-				-				-
ii.	Retrofication for Fine Screen Channel(Mechanical)	181,56,09 6.00	35%	63,54,633. 60	35 %	6354633.6 0	30%	54,46,828. 80	30%	54,46,828 .80	35%	63,54,633. 60	35 %	63,54,633 .60				-
iii.	Retrofication for Fine Screen Channel(Manual )	51,87,456. 00	100 %	51,87,456. 00	100 %	5187456.0 0				-				-				-
iv.	Retrofication for Grit Chamber	181,56,09 6.00	35%	63,54,633. 60	35 %	6354633.6 0	30%	54,46,828. 80	30%	54,46,828 .80	35%	63,54,633. 60		-				-
v.	Retrofication for Parshall Flume	51,87,456. 00	100 %	51,87,456. 00	100 %	5187456.0 0		-		-				-				-

Sr. No.	Description of Items	BOQ Amount	1st Milestone 10th May'21 to 15th October'21		1st Milestone 10th May'21 to 15th October'21 Achieved		2nd Milestone 16th Oct'21 to 15th March'22		2nd Milestone 16th Oct'21 to 15th March'22 Achieved		3rd Milestone 16th March'22 to 15th June'22		3rd Milestone 16th March'22 to 15th June'22 Achieved		4th Milestone 16th June'22 to 9th Aug'22		4th Milestone 16th June'22 to 9th Aug'22 Achieved		
			%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	
vi.	Retrofication for Distribution Chamber for Primary Clarifier	51,87,456.00	100%	51,87,456.00	50%	2593728.00		-		-									-
vii.	Retrofication for Primary Sedimentation Tank	181,56,096.00	35%	63,54,633.60	35%	6354633.60	30%	54,46,828.80		-	35%	63,54,633.60		-					-
viii.	Retrofication for Distribution chamber for Aeration Tank	51,87,456.00	100%	51,87,456.00				-		-		-		-					-
ix.	Retrofication for Aeration Tank	181,56,096.00	30%	54,46,828.80			35%	63,54,633.60		-	35%	63,54,633.60		-					-
x.	Retrofication for Distribution Chamber for final Sedimentation Tank	51,87,456.00	100%	51,87,456.00				-		-		-		-					-
xi.	Retrofication for final Sedimentation Tank	181,56,096.00	30%	54,46,828.80	30%	5446828.80	35%	63,54,633.60		-	35%	63,54,633.60		-					-
xii.	Retrofication for Blending Tank	51,87,456.00	100%	51,87,456.00	73%	3786842.88				-		-		-					-
xiii.	Retrofication for Gravity Sludge Thickener	181,56,096.00		-			50%	90,78,048.00	50%	90,78,048.00	50%	90,78,048.00	30%	54,46,828.80					-
xiv.	Retrofication for Thickened Sludge Sump	51,87,456.00		-			100%	51,87,456.00	50%	25,93,728.00		-		-					-
xv.	Retrofication for Primary Sludge	181,56,096.00		-			50%	90,78,048.00	30%	54,46,828.80	50%	90,78,048.00		-					-

Sr. No.	Description of Items	BOQ Amount	1st Milestone 10th May'21 to 15th October'21		1st Milestone 10th May'21 to 15th October'21 Achieved		2nd Milestone 16th Oct'21 to 15th March'22		2nd Milestone 16th Oct'21 to 15th March'22 Achieved		3rd Milestone 16th March'22 to 15th June'22		3rd Milestone 16th March'22 to 15th June'22 Achieved		4th Milestone 16th June'22 to 9th Aug'22		4th Milestone 16th June'22 to 9th Aug'22 Achieved	
			%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
	Digester																	
xvi.	Retrofication for Secondary Digester	77,81,184.00	-				100%	77,81,184.00	-					-				-
xvii.	Retrofication for Digested Sludge Sump	51,87,456.00	-				100%	51,87,456.00	-					-				-
xviii.	Retrofication for Gas Holder	51,87,456.00	-				50%	25,93,728.00	-		50%	25,93,728.00	-					-
xix.	Retrofication for Return Sludge Sump	51,87,456.00	-				100%	51,87,456.00	20%	10,37,491.20			-					-
xx.	Retrofication for Centrate/Supernatant Sump	51,87,456.00	-				100%	51,87,456.00	-				-					-
xxi.	Retrofication for MCC Panel Room	77,81,184.00	-				50%	38,90,592.00	-		50%	38,90,592.00	-					-
xxii.	Retrofication for Gas Engine Room	77,81,184.00	-				50%	38,90,592.00	-		50%	38,90,592.00	-					-
xxiii.	Retrofication for Return Sludge Pump House	77,81,184.00	-				50%	38,90,592.00	20%	15,56,236.80	50%	38,90,592.00	-					-
xxiv.	Retrofication for Thickened Sludge Pumping Station	77,81,184.00	-				50%	38,90,592.00	-		50%	38,90,592.00	-					-
xxv.	Retrofication for Digested Sludge Pump Station	51,87,456.00	-				50%	25,93,728.00	-		50%	25,93,728.00	-					-
xxvi.	Retrofication for Centrifuge	103,74,912.00	-				50%	51,87,456.00	-		50%	51,87,456.00	-					-

Sr. No.	Description of Items	BOQ Amount	1st Milestone 10th May'21 to 15th October'21		1st Milestone 10th May'21 to 15th October'21 Achieved		2nd Milestone 16th Oct'21 to 15th March'22		2nd Milestone 16th Oct'21 to 15th March'22 Achieved		3rd Milestone 16th March'22 to 15th June'22		3rd Milestone 16th March'22 to 15th June'22 Achieved		4th Milestone 16th June'22 to 9th Aug'22		4th Milestone 16th June'22 to 9th Aug'22 Achieved	
			%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
	building/belt filter press bldg																	
xxvii.	Retrofication for Digester Sludge Pumping Station (Building)	51,87,456.00		-			50%	25,93,728.00		-	50%	25,93,728.00		-		-		-
xxviii.	Retrofication for Biogas Compressor Room	51,87,456.00		-				-		-	50%	25,93,728.00		-	50%	25,93,728.00		-
xxix.	Retrofication for Gas Flaring Unit	25,93,728.00		-				-		-	50%	12,96,864.00		-	50%	12,96,864.00		-
xxx.	Retrofication for Cooling Tower	12,96,864.00		-				-		-	50%	6,48,432.00		-	50%	6,48,432.00		-
xxxi.	Retrofication for Scrubber Unit	12,96,864.00		-				-		-	50%	6,48,432.00		-	50%	6,48,432.00		-
<b>B.</b>	<b>Mechanical Work(Renovation/New Procurement)</b>																	
i.	Mechanical Fine Screen - Supply	77,81,184.00	80%	62,24,947.20	80%	62,24,947.20		-		-		-		-		-		-
ii.	Mechanical Fine Screen - Installation		7.0%	5,44,682.88	7%	5,44,682.88	7.0%	5,44,682.88	7%	5,44,682.88	6%	4,66,871.04	6%	4,66,871.04		-		-
iii.	Manual Fine Screen - Supply	51,87,456.00	80%	41,49,964.80	80%	41,49,964.80		-		-		-		-		-		-
iv.	Manual Fine Screen - Installation		20%	10,37,491.20	20%	10,37,491.20		-		-		-		-		-		-
v.	Grit Mechanism - Supply	77,81,184.00	80%	62,24,947.20	53%	41,49,705.43		-		-		-		-		-		-
vi.	Grit Mechanism		7.00	5,44,682.88	7%	5,44,682.88	6.0	4,66,871.0	6%	4,66,871.0	7%	5,44,682.88		-		-		-

Sr. No.	Description of Items	BOQ Amount	1st Milestone 10th May'21 to 15th October'21		1st Milestone 10th May'21 to 15th October'21 Achieved		2nd Milestone 16th Oct'21 to 15th March'22		2nd Milestone 16th Oct'21 to 15th March'22 Achieved		3rd Milestone 16th March'22 to 15th June'22		3rd Milestone 16th March'22 to 15th June'22 Achieved		4th Milestone 16th June'22 to 9th Aug'22		4th Milestone 16th June'22 to 9th Aug'22 Achieved	
			%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
	- Installation		%	8	%	8	%	4	%	04	%	8	%		%		%	
vii.	Primary Clarifier Mechanism - Supply	77,81,184.00		-		-	80%	62,24,947.20	27%	20,74,982.40		-		-		-		-
viii.	Primary Clarifier Mechanism - Installation			-		-	9%	7,00,306.56		-	11%	8,55,930.24		-		-		-
ix.	Surface Aerator - Supply	259,37,280.00	25%	64,84,320.00	25%	64,84,320.00	25%	64,84,320.00	8%	21,60,575.42	30%	77,81,184.00		-		-		-
x.	Surface Aerator - Installation		6.5%	16,86,883.84		-	6.22%	16,11,953.92		-	7.3%	18,88,233.98		-		-		-
xi.	FST Mechanism - Supply	103,74,912.00		-		-	40%	41,49,964.80	26.6%	27,59,726.59	40%	41,49,964.80		-		-		-
xii.	FST Mechanism - Installation			-		-		-		-	20%	20,74,982.40		-		-		-
xiii.	Return Sludge Pumps - Supply	103,74,912.00		-		-	40%	41,49,964.80	40%	41,49,964.80	40%	41,49,964.80		-		-		-
xiv.	Return Sludge Pumps - Installation			-		-		-		-		-		-	20%	20,74,982.40	10%	10,37,491.20
xv.	Gravity Thickener Mechanism - Supply	103,74,912.00		-		-		-		-	80%	82,99,929.60		-		-		-
xvi.	Gravity Thickener Mechanism - Installation			-		-		-		-		-		-	20%	20,74,982.40		-
xvii.	Digester Feed Pumps - Supply	103,74,912.00	60%	62,24,947.20		-	20%	20,74,982.40		-		-		-		-		-
xviii.	Digester Feed Pumps - Installation			-		-	20%	20,74,982.40		-		-		-		-		-

Sr. No.	Description of Items	BOQ Amount	1st Milestone 10th May'21 to 15th October'21		1st Milestone 10th May'21 to 15th October'21 Achieved		2nd Milestone 16th Oct'21 to 15th March'22		2nd Milestone 16th Oct'21 to 15th March'22 Achieved		3rd Milestone 16th March'22 to 15th June'22		3rd Milestone 16th March'22 to 15th June'22 Achieved		4th Milestone 16th June'22 to 9th Aug'22		4th Milestone 16th June'22 to 9th Aug'22 Achieved	
			%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
xix.	Sludge Digester Mixer - Primary - Supply	51,87,456.00	80%	41,49,964.80	-	-	-	-	-	-	-	-	-	-	-	-	-	
xx.	Sludge Digester Mixer - Primary - Installation	-	-	-	-	20%	10,37,491.20	-	-	-	-	-	-	-	-	-	-	
xxi.	Digester Sludge Recirculation Pump - Supply	51,87,456.00	-	-	-	80%	41,49,964.80	-	-	-	-	-	-	-	-	-	-	
xxii.	Digester Sludge Recirculation Pump - Installation	-	-	-	-	-	-	-	-	-	-	-	20%	10,37,491.20	-	-	-	
xxiii.	Digester Sludge Heating System and Ancilliary Equipment-Supply	51,87,456.00	-	-	-	80%	41,49,964.80	-	-	-	-	-	-	-	-	-	-	
xxiv.	Digester Sludge Heating System and Ancilliary Equipment-Installation	-	-	-	-	-	-	-	-	-	-	-	20%	10,37,491.20	-	-	-	
xxv.	Digested Sludge /Centrifuge Feed Pumps - Supply	51,87,456.00	-	-	-	80%	41,49,964.80	-	-	-	-	-	-	-	-	-	-	
xxvi.	Digested Sludge /Centrifuge Feed Pumps - Installation	-	-	-	-	-	-	-	-	20%	10,37,491.20	-	-	-	-	-	-	
xxvii.	Centrifuge Machine - Supply	51,87,456.00	-	-	-	-	-	-	-	80%	41,49,964.80	-	-	-	-	-	-	

Sr. No.	Description of Items	BOQ Amount	1st Milestone 10th May'21 to 15th October'21		1st Milestone 10th May'21 to 15th October'21 Achieved		2nd Milestone 16th Oct'21 to 15th March'22		2nd Milestone 16th Oct'21 to 15th March'22 Achieved		3rd Milestone 16th March'22 to 15th June'22		3rd Milestone 16th March'22 to 15th June'22 Achieved		4th Milestone 16th June'22 to 9th Aug'22		4th Milestone 16th June'22 to 9th Aug'22 Achieved		
			%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	
xxviii.	Centrifuge Machine Installation -			-		-				-				20 %	10,37,491.20				-
xxix.	Supertanant Pumps - Supply	51,87,456.00	80%	41,49,964.80		-		-		-		-		-	-				-
xxx.	Supertanant Pumps Installation -			-		-	20%	10,37,491.20		-		-		-	-				-
xxxi.	Gas Scrubber with ancilliary equipment - Supply	51,87,456.00		-		-		-		-		-		80 %	41,49,964.80				-
xxxii.	Gas Scrubber with ancilliary equipment Installation -			-		-		-		-		-		20 %	10,37,491.20				-
xxxiii.	Gas Engine with ancilliary equipment - Supply	51,87,456.00		-		-		-		-		-		80 %	41,49,964.80				-
xxxiv.	Gas Engine with ancilliary equipment Installation -			-		-		-		-		-		20 %	10,37,491.20				-
xxxv.	Gas Flaring System - Supply	51,87,456.00		-		-		-		-		-		80 %	41,49,964.80				-
xxxvi.	Gas Flaring System Installation -			-		-		-		-		-		20 %	10,37,491.20				-
xxxvii.	Agitator for blending tank - Supply	51,87,456.00	80%	41,49,964.80		-		-		-		-		-	-				-
xxxviii.	Agitator for blending tank -			-		-		-		-	20%	10,37,491.20		-	-				-

Sr. No.	Description of Items	BOQ Amount	1st Milestone 10th May'21 to 15th October'21		1st Milestone 10th May'21 to 15th October'21 Achieved		2nd Milestone 16th Oct'21 to 15th March'22		2nd Milestone 16th Oct'21 to 15th March'22 Achieved		3rd Milestone 16th March'22 to 15th June'22		3rd Milestone 16th March'22 to 15th June'22 Achieved		4th Milestone 16th June'22 to 9th Aug'22		4th Milestone 16th June'22 to 9th Aug'22 Achieved	
			%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
	Installation																	
xxxix.	Agitator for Digester Feed Sump - Supply	51,87,456. 00	80%	41,49,964. 80		-				-				-				-
xxxx.	Agitator for Digester Feed Sump - Installation			-		-				-	20%	10,37,491. 20		-				-
xxxxi.	Agitator for Centrifuge Feed Sump - Supply	51,87,456. 00	80%	41,49,964. 80		-				-				-				-
xxxxi.	Agitator for Centrifuge Feed Sump - Installation			-		-				-	20%	10,37,491. 20		-				-
xxxiii.	Agitator for Poly Dosing Tank - Supply	51,87,456. 00	80%	41,49,964. 80		-				-				-				-
xxxiv.	Agitator for Poly Dosing Tank - Installation			-		-				-	20%	10,37,491. 20		-				-
xxxv.	Poly Dosing Pumps - Supply	51,87,456. 00	80%	41,49,964. 80		-				-				-				-
xxxvi.	Poly Dosing Pumps - Installation			-		-				-	20%	10,37,491. 20		-				-
xxxvii.	Valves - Supply	103,74,91 2.00		-		-				-	80%	82,99,929. 60		-				-
xxxvii i.	Valves - Installation			-		-				-	10%	10,37,491. 20		-	10%	10,37,491. 20		-
xxxix.	Gates (Open Channel ) - Supply	103,74,91 2.00		-		-				-	80%	82,99,929. 60	60%	62,24,947 .20				-

Sr. No.	Description of Items	BOQ Amount	1st Milestone 10th May'21 to 15th October'21		1st Milestone 10th May'21 to 15th October'21 Achieved		2nd Milestone 16th Oct'21 to 15th March'22		2nd Milestone 16th Oct'21 to 15th March'22 Achieved		3rd Milestone 16th March'22 to 15th June'22		3rd Milestone 16th March'22 to 15th June'22 Achieved		4th Milestone 16th June'22 to 9th Aug'22		4th Milestone 16th June'22 to 9th Aug'22 Achieved	
			%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
xxxxx.	Gates (Open Channel ) - Installation			-		-		-		-	10%	10,37,491.20		-	10%	10,37,491.20		-
xxxxxi.	Existing Duel Fuel Generators	51,87,456.00		-		-		-		-		-		-	100%	51,87,456.00		-
xxxxxii.	Gas Holder Dome-Fabrication	51,87,456.00		-		-		-		-		-		-	100%	51,87,456.00		-
xxxxxiii.	Borewell Pump - Supply	51,87,456.00		-		-	80%	41,49,964.80	40%	20,74,982.40		-		-		-		-
xxxxxiv.	Borewell Pump - Installation			-		-		-		-	20%	10,37,491.20	10%	5,18,745.60		-		-
xxxxxv.	Service Water Pump - Supply	51,87,456.00	80%	41,49,964.80		-		-		-		-		-		-		-
xxxxxvi.	Service Water Pump - Installation			-		-	20%	10,37,491.20		-		-		-		-		-
xxxxxvi i.	Overhead Tank - Supply	51,87,456.00		-		-		-		-		-		-	80%	41,49,964.80		-
xxxxxvi ii.	Overhead Tank - Erection			-		-		-		-		-		-	20%	10,37,491.20		-
xxxxxix.	Dewatering Pump for Dry well - Supply	51,87,456.00		-		-	80%	41,49,964.80		-		-		-		-		-
xxxxxx.	Dewatering Pump for Dry well - Erection			-		-	10%	5,18,745.60		-	10%	5,18,745.60		-		-		-
xxxxxxi.	Monorail for lifting arrangement - Supply	51,87,456.00	80%	41,49,964.80	60%	31,12,473.60		-		-		-		-		-		-
xxxxxxi i.	Monorail for lifting		20%	10,37,491.20	12%	6,22,494.72		-		-		-		-		-		-

Sr. No.	Description of Items	BOQ Amount	1st Milestone 10th May'21 to 15th October'21		1st Milestone 10th May'21 to 15th October'21 Achieved		2nd Milestone 16th Oct'21 to 15th March'22		2nd Milestone 16th Oct'21 to 15th March'22 Achieved		3rd Milestone 16th March'22 to 15th June'22		3rd Milestone 16th March'22 to 15th June'22 Achieved		4th Milestone 16th June'22 to 9th Aug'22		4th Milestone 16th June'22 to 9th Aug'22 Achieved	
			%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
	arrangement - Installation																	
xxxxxxi ii.	DI Pipes & Fittings - Supply	51,87,456. 00	-	-	40%	20,74,982. 40	-	-	40%	20,74,982. 40	-	-						
xxxxxxi v.	DI Pipes & Fittings - Installation		-	-			-	-	20%	10,37,491. 20	-	-						
xxxxxx v.	MS Pipes & Fittings - Supply	51,87,456. 00	-	-	40%	20,74,982. 40	-	-	40%	20,74,982. 40	-	-						
xxxxxx vi.	MS Pipes & Fittings - Erection		-	-			-	-	20%	10,37,491. 20	-	-						
xxxxxx vii.	SS Pipes & Fittings - Supply	51,87,456. 00	-	-	40%	20,74,982. 40	-	-	40%	20,74,982. 40	-	-						
xxxxxx viii.	SS Pipes & Fittings - Erection		-	-			-	-	20%	10,37,491. 20	-	-						
xxxxxxi x.	Lab Equipment - Supply	51,87,456. 00	-	-			-	-			-	-	80 %	41,49,964. 80				
xxxxxx x.	Lab equipment- Installation		-	-			-	-			-	-	20 %	10,37,491. 20				
xxxxxx xi.	Testing & Commissioning for Mechanical Items	129,68,64 0.00	-	-			-	-			-	-	100 %	129,68,64 0.00				
<b>C.</b>	<b>Electrical Work(Renovatio n/New Procurement)</b>																	
i.	Supply of DP structure	48,03,200. 00		-		-		-		-		-	80 %	38,42,560. 00	80 %	38,42,560. .00		
ii.	Installation of DP structure			-		-		-		-		-	20 %	9,60,640.0 0	10 %	4,80,320. 00		

Sr. No.	Description of Items	BOQ Amount	1st Milestone 10th May'21 to 15th October'21		1st Milestone 10th May'21 to 15th October'21 Achieved		2nd Milestone 16th Oct'21 to 15th March'22		2nd Milestone 16th Oct'21 to 15th March'22 Achieved		3rd Milestone 16th March'22 to 15th June'22		3rd Milestone 16th March'22 to 15th June'22 Achieved		4th Milestone 16th June'22 to 9th Aug'22		4th Milestone 16th June'22 to 9th Aug'22 Achieved	
			%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
iii.	Supply of HT Metering Panel	48,03,200.00				-				-					80%	38,42,560.00		-
iv.	Installation of HT Metering Panel					-				-					20%	9,60,640.00		-
v.	Supply of HT VCB panel	96,06,400.00				-				-					80%	76,85,120.00	80%	76,85,120.00
vi.	Installation of HT VCB panel					-				-					20%	19,21,280.00		-
vii.	Supply of Transformer	96,06,400.00	80%	76,85,120.00	80%	76,85,120.00				-						-		-
viii.	Installation of Transformer					-				-	20%	19,21,280.00				-		-
ix.	Supply of Main PCC panel	96,06,400.00	80%	76,85,120.00		-				-						-		-
x.	Installation of Main PCC panel					-				-	20%	19,21,280.00				-		-
xi.	Supply of Other equipments panel (MCC-2 PANEL)/Bar screen panel/Thickener Panel	96,06,400.00				-				-					80%	76,85,120.00		-
xii.	Installation of Other equipments panel (MCC-2 PANEL)/Bar screen panel/Thickener Panel					-				-					20%	19,21,280.00		-
xiii.	Supply of Digestor system	96,06,400.00				-				-					80%	76,85,120.00		-

Sr. No.	Description of Items	BOQ Amount	1st Milestone 10th May'21 to 15th October'21		1st Milestone 10th May'21 to 15th October'21 Achieved		2nd Milestone 16th Oct'21 to 15th March'22		2nd Milestone 16th Oct'21 to 15th March'22 Achieved		3rd Milestone 16th March'22 to 15th June'22		3rd Milestone 16th March'22 to 15th June'22 Achieved		4th Milestone 16th June'22 to 9th Aug'22		4th Milestone 16th June'22 to 9th Aug'22 Achieved		
			%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	
	panel (MCC-3 PANEL)																		
xiv.	Installation of Digester system panel (MCC-3 PANEL)					-				-				20 %	19,21,280.00				-
xv.	Supply of APFCR panel with AL reactor	48,03,200.00				-				-				80 %	38,42,560.00				-
xvi.	Installation of APFCR panel with AL reactor					-				-				20 %	9,60,640.00				-
xvii.	Supply of Aerators & Other equipment panel (MCC-1 PANEL)	48,03,200.00				-				-				80 %	38,42,560.00				-
xviii.	Installation of Aerators & Other equipment panel (MCC-1 PANEL)					-				-				20 %	9,60,640.00				-
xix.	Supply of LPBS for Motors	48,03,200.00				-				-				80 %	38,42,560.00				-
xx.	Installation of LPBS for Motors					-				-				20 %	9,60,640.00				-
xxi.	Supply of Cable Tray	48,03,200.00				-				-				80 %	38,42,560.00	80 %	38,42,560.00		.00
xxii.	Installation of Cable Tray					-				-				20 %	9,60,640.00				-
xxiii.	Supply of LT Cable	48,03,200.00				-				-				80 %	38,42,560.00	80 %	38,42,560.00		.00

Sr. No.	Description of Items	BOQ Amount	1st Milestone 10th May'21 to 15th October'21		1st Milestone 10th May'21 to 15th October'21 Achieved		2nd Milestone 16th Oct'21 to 15th March'22		2nd Milestone 16th Oct'21 to 15th March'22 Achieved		3rd Milestone 16th March'22 to 15th June'22		3rd Milestone 16th March'22 to 15th June'22 Achieved		4th Milestone 16th June'22 to 9th Aug'22		4th Milestone 16th June'22 to 9th Aug'22 Achieved	
			%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
xxiv.	Installation of LT Cable					-								20 %	9,60,640.00			-
xxv.	Supply of Street Light Fixture	48,03,200.00				-								80 %	38,42,560.00			-
xxvi.	Installation of Street Light Fixture					-								20 %	9,60,640.00			-
xxvii.	Earthing Work	48,03,200.00				-								100 %	48,03,200.00	80 %	38,42,560.00	
xxviii.	Testing & Commissioning for Electrical Items	48,03,200.00		-		-								100 %	48,03,200.00			-
D.	<b>SUMP CUM PUMP HOUSE (200 MLD)</b>																	
a.	<b>CIVIL WORK</b>																	
i.	Excavation	17,53,168.00	100 %	17,53,168.00				-										
ii.	PCC	35,06,336.00	100 %	35,06,336.00				-										
iii.	Raft Foundation/Raft	52,59,504.00		-			100 %	52,59,504.00										-
iv.	Column & Beam work	52,59,504.00		-			100 %	52,59,504.00										-
v.	Wall 50% of total lift work	52,59,504.00		-				-			100 %	52,59,504.00						-
vi.	Walls (balance 50% of Total Lift work)	52,59,504.00		-				-			100 %	52,59,504.00						-
vii.	Ground Floor Slab	17,53,168.00		-				-			100 %	17,53,168.00						-
viii.	Roof Slab	17,53,168.00		-				-			100 %	17,53,168.00						-

Sr. No.	Description of Items	BOQ Amount	1st Milestone 10th May'21 to 15th October'21		1st Milestone 10th May'21 to 15th October'21 Achieved		2nd Milestone 16th Oct'21 to 15th March'22		2nd Milestone 16th Oct'21 to 15th March'22 Achieved		3rd Milestone 16th March'22 to 15th June'22		3rd Milestone 16th March'22 to 15th June'22 Achieved		4th Milestone 16th June'22 to 9th Aug'22		4th Milestone 16th June'22 to 9th Aug'22 Achieved	
			%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
		00									%	00						
ix.	Brickwork & Plaster	35,06,336.00		-				-							100%	35,06,336.00		
x.	Finishing Work	17,53,168.00		-				-							100%	17,53,168.00		
<b>b.</b>	<b>MECHANICAL WORK</b>																	
	<b>PUMPING SYSTEM</b>																	
	(i) On supply of machinery/equipment at site	230,55,360.00									60%	138,33,216.00	36%	8383767.27	40%	92,22,144.00		
	(ii) On completion of erection works	43,22,880.00													100%	43,22,880.00		
	(iii) On completion of Testing of equipment	14,40,960.00													100%	14,40,960.00		
	<b>EOT/HOIST WORKS</b>																	
	(i) On supply of machinery/equipment at site	61,48,096.00									100%	61,48,096.00	50%	3074048.00				
	(ii) On completion of erection works	11,52,768.00													100%	11,52,768.00		
	(iii) On completion of Testing of equipment	3,84,256.00													100%	3,84,256.00		

Sr. No.	Description of Items	BOQ Amount	1st Milestone 10th May'21 to 15th October'21		1st Milestone 10th May'21 to 15th October'21 Achieved		2nd Milestone 16th Oct'21 to 15th March'22		2nd Milestone 16th Oct'21 to 15th March'22 Achieved		3rd Milestone 16th March'22 to 15th June'22		3rd Milestone 16th March'22 to 15th June'22 Achieved		4th Milestone 16th June'22 to 9th Aug'22		4th Milestone 16th June'22 to 9th Aug'22 Achieved	
			%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
	<b>ELECTRICAL WORK</b>																	
	(i) On supply of machinery/equipment at site	49,95,328.00									100%	49,95,328.00	50%	24,97,664.00				
	(ii) On completion of erection works	9,36,624.00												100%	9,36,624.00			
	(iii) On completion of Testing of equipment	3,12,208.00												100%	3,12,208.00			
										-				-				-
<b>E.</b>	<b>Chlorination Tank Area</b>																	
i.	Excavation	4,80,320.00	100%	4,80,320.00														
i.	PCC	9,60,640.00	100%	9,60,640.00														
ii.	RCC Foundation/Raft	14,40,960.00		-			100%	14,40,960.00										
iii.	Wall 50% of total lift work	19,21,280.00		-			100%	19,21,280.00										
iv.	Walls (balance 50% of Total Lift work)	19,21,280.00		-				-			100%	19,21,280.00						
v.	Baffle Walls work	9,60,640.00		-				-			100%	9,60,640.00						
vi.	Brickwork & Plaster	14,40,960.00		-				-			100%	14,40,960.00						-
ix.	Finishing Work	4,80,320.00		-				-						100%	4,80,320.00			

Sr. No.	Description of Items	BOQ Amount	1st Milestone 10th May'21 to 15th October'21		1st Milestone 10th May'21 to 15th October'21 Achieved		2nd Milestone 16th Oct'21 to 15th March'22		2nd Milestone 16th Oct'21 to 15th March'22 Achieved		3rd Milestone 16th March'22 to 15th June'22		3rd Milestone 16th March'22 to 15th June'22 Achieved		4th Milestone 16th June'22 to 9th Aug'22		4th Milestone 16th June'22 to 9th Aug'22 Achieved	
			%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
F	<b>Chlorination Room Area</b>																	
i.	Excavation	4,80,320.00	100%	4,80,320.00														
i.	PCC	9,60,640.00	100%	9,60,640.00														
ii.	RCC Foundation/Column Footing	14,40,960.00		-			100%	14,40,960.00										
iii.	Column & Beam work	19,21,280.00		-			100%	19,21,280.00										
iv.	Ground Floor Slab	19,21,280.00		-				-			100%	19,21,280.00						
v.	Roof Slab	9,60,640.00		-				-			100%	9,60,640.00						
vi.	Brickwork	9,60,640.00		-				-			100%	9,60,640.00					-	
ix.	Plaster	4,80,320.00		-				-			100%	4,80,320.00					-	
x.	Finishing Work	4,80,320.00		-				-							100%	4,80,320.00		
a.	<b>MECHANICAL WORK</b>																	
	<b>CHLORINATION SYSTEM</b>																	
	(i) On supply of machinery/equipment at site	207,49,824.00														100%	207,49,824.00	
	(ii) On completion of erection works	38,90,592.00														100%	38,90,592.00	
	(iii) On completion of	12,96,864.00														100%	12,96,864.00	

Sr. No.	Description of Items	BOQ Amount	1st Milestone 10th May'21 to 15th October'21		1st Milestone 10th May'21 to 15th October'21 Achieved		2nd Milestone 16th Oct'21 to 15th March'22		2nd Milestone 16th Oct'21 to 15th March'22 Achieved		3rd Milestone 16th March'22 to 15th June'22		3rd Milestone 16th March'22 to 15th June'22 Achieved		4th Milestone 16th June'22 to 9th Aug'22		4th Milestone 16th June'22 to 9th Aug'22 Achieved		
			%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	
	Testing of equipment																		
	<b>HOIST WORKS</b>																		
	(i) On supply of machinery/equipment at site	34,58,304.00									100%	34,58,304.00							
	(ii) On completion of erection works	6,48,432.00												100%	6,48,432.00				
	(iii) On completion of Testing of equipment	2,16,144.00												100%	2,16,144.00				
	<b>ELECTRICAL &amp; INSTRUMENTATION WORK</b>																		
	(i) On supply of machinery/equipment at site	57,63,840.00									100%	57,63,840.00							
	(ii) On completion of erection works	10,80,720.00												100%	10,80,720.00				
	(iii) On completion of Testing of equipment	3,60,240.00												100%	3,60,240.00				
III.	<b>RENOVATION WORK for IPS (4 nos) &amp; CSPS (1no)</b>																		

Sr. No.	Description of Items	BOQ Amount	1st Milestone 10th May'21 to 15th October'21		1st Milestone 10th May'21 to 15th October'21 Achieved		2nd Milestone 16th Oct'21 to 15th March'22		2nd Milestone 16th Oct'21 to 15th March'22 Achieved		3rd Milestone 16th March'22 to 15th June'22		3rd Milestone 16th March'22 to 15th June'22 Achieved		4th Milestone 16th June'22 to 9th Aug'22		4th Milestone 16th June'22 to 9th Aug'22 Achieved		
			%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	
a.i.	<b>Civil Works</b>									-				-					-
	<b>(i) Nawabganj IPS</b>									-				-					-
	a. Retrofication of Inlet Chamber	13,44,896.00	100%	13,44,896.00	90%	1210406.40													
	b. Retrofication of Screen Chamber	13,44,896.00	100%	13,44,896.00	90%	1210406.40													
	c. Retrofication of Wet Well	13,44,896.00					100%	13,44,896.00	80%	1075916.80									
	d. Retrofication of Pump House	13,44,896.00					100%	13,44,896.00	80%	1075916.80									
a. ii.	<b>Mechanical Work(Servicing &amp; Overhauling/Ne w Procurement)</b>																		
	<b>(i) Nawabganj IPS</b>									-				-					-
	a. Supply of Centrifugal Pump	13,44,896.00					80%	10,75,916.80											
	b. Installation of Centrifugal Pump										20%	2,68,979.20							
	c. SS/MS Structural Work - Supply	6,72,448.00					80%	5,37,958.40											
	d. SS/MS Structural Work - Fabrication										20%	1,34,489.60							
	e. Valves and NRV - Supply	13,44,896.00									80%	10,75,916.80							

Sr. No.	Description of Items	BOQ Amount	1st Milestone 10th May'21 to 15th October'21		1st Milestone 10th May'21 to 15th October'21 Achieved		2nd Milestone 16th Oct'21 to 15th March'22		2nd Milestone 16th Oct'21 to 15th March'22 Achieved		3rd Milestone 16th March'22 to 15th June'22		3rd Milestone 16th March'22 to 15th June'22 Achieved		4th Milestone 16th June'22 to 9th Aug'22		4th Milestone 16th June'22 to 9th Aug'22 Achieved	
			%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
	f. Valves and NRV - Installation														20%	2,68,979.20		
	g. Pipe & Fitting - Supply	6,72,448.00									80%	5,37,958.40						
	h. Pipe & Fittings - Erection													20%	1,34,489.60			
	i. Monorail for lifting arrangement - Supply	6,72,448.00	80%	5,37,958.40	60%	403468.80												
	j. Monorail for lifting arrangement - Installation						20%	1,34,489.60	12%	80693.76								
	k. Dewatering Pump for dry well - Supply	6,72,448.00	80%	5,37,958.40														
	l. Dewatering Pump for dry well - Installation						20%	1,34,489.60										
a. iii.	<b>Electrical Work(Servicing &amp; Overhauling/New Procurement)</b>	13,44,896.00		-							50%	6,72,448.00			50%	6,72,448.00		
a. iv.	<b>Testing &amp; Commissioning</b>	13,44,896.00		-											100%	13,44,896.00		
b.i.	<b>Civil Works</b>																	
	<b>(i) Parmat IPS</b>																	
	a. Retrofication of Inlet Chamber	13,44,896.00	100%	13,44,896.00														

Sr. No.	Description of Items	BOQ Amount	1st Milestone 10th May'21 to 15th October'21		1st Milestone 10th May'21 to 15th October'21 Achieved		2nd Milestone 16th Oct'21 to 15th March'22		2nd Milestone 16th Oct'21 to 15th March'22 Achieved		3rd Milestone 16th March'22 to 15th June'22		3rd Milestone 16th March'22 to 15th June'22 Achieved		4th Milestone 16th June'22 to 9th Aug'22		4th Milestone 16th June'22 to 9th Aug'22 Achieved		
			%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	
	b. Retrofication of Screen Chamber	13,44,896.00	100%	13,44,896.00															
	c. Retrofication of Wet Well	13,44,896.00					100%	13,44,896.00											
	d. Retrofication of Pump House	13,44,896.00					100%	13,44,896.00											
ii.	<b>Mechanical Work(Servicing &amp; Overhauling/Ne w Procurement)</b>																		
	<b>(i) Parmat IPS</b>								-					-					-
	a. Supply of Centrifugal Pump	13,44,896.00					80%	10,75,916.80											
	b. Installation of Centrifugal Pump										20%	2,68,979.20							
	c. SS/MS Structural Work - Supply	6,72,448.00					80%	5,37,958.40											
	d. SS/MS Structural Work - Fabrication										20%	1,34,489.60							
	e. Valves and NRV - Supply	13,44,896.00									80%	10,75,916.80							
	f. Valves and NRV - Installation													20%	2,68,979.20				
	g. Pipe & Fitting - Supply	6,72,448.00									80%	5,37,958.40							
	h. Pipe & Fittings													20%	1,34,489.60				

Sr. No.	Description of Items	BOQ Amount	1st Milestone 10th May'21 to 15th October'21		1st Milestone 10th May'21 to 15th October'21 Achieved		2nd Milestone 16th Oct'21 to 15th March'22		2nd Milestone 16th Oct'21 to 15th March'22 Achieved		3rd Milestone 16th March'22 to 15th June'22		3rd Milestone 16th March'22 to 15th June'22 Achieved		4th Milestone 16th June'22 to 9th Aug'22		4th Milestone 16th June'22 to 9th Aug'22 Achieved	
			%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
	- Erection														%	0		
	i. Monorail for lifting arrangement - Supply	6,72,448.00	80%	5,37,958.40	60%	403468.80												
	j. Monorail for lifting arrangement - Installation						20%	1,34,489.60	12%	80693.76								
	k. Dewatering Pump for dry well - Supply	6,72,448.00	80%	5,37,958.40														
	l. Dewatering Pump for dry well - Installation						20%	1,34,489.60										
iii.	<b>Electrical Work(Servicing &amp; Overhauling/New Procurement)</b>	13,44,896.00		-							50%	6,72,448.00			50%	6,72,448.00		
iv.	<b>Testing &amp; Commissioning</b>	13,44,896.00		-											100%	13,44,896.00		
c.i.	<b>Civil Works</b>																	
	<b>(i) Baba Ghat IPS</b>																	
	a. Retrofication of Inlet Chamber	13,44,896.00	100%	13,44,896.00	80%	1075916.80												
	b. Retrofication of Screen Chamber	13,44,896.00	100%	13,44,896.00	90%	1210406.40												
	c. Retrofication of Wet Well	13,44,896.00					100%	13,44,896.00	80%	1075916.80								

Sr. No.	Description of Items	BOQ Amount	1st Milestone 10th May'21 to 15th October'21		1st Milestone 10th May'21 to 15th October'21 Achieved		2nd Milestone 16th Oct'21 to 15th March'22		2nd Milestone 16th Oct'21 to 15th March'22 Achieved		3rd Milestone 16th March'22 to 15th June'22		3rd Milestone 16th March'22 to 15th June'22 Achieved		4th Milestone 16th June'22 to 9th Aug'22		4th Milestone 16th June'22 to 9th Aug'22 Achieved	
			%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
	d. Retrofication of Pump House	13,44,896.00					100%	13,44,896.00	80%	1075916.80								
ii.	<b>Mechanical Work(Servicing &amp; Overhauling/Ne w Procurement)</b>																	
	<b>(i) Baba Ghat IPS</b>									-				-				-
	a. Supply of Submersible Pump alongwith Electric Motor	13,44,896.00					80%	10,75,916.80										
	b. Installation of Submersible Pump alongwith Electric Motor										20%	2,68,979.20						
	c. SS/MS Structural Work - Supply	6,72,448.00					80%	5,37,958.40										
	d. SS/MS Structural Work - Fabrication										20%	1,34,489.60						
	e. Valves and NRV - Supply	13,44,896.00									80%	10,75,916.80	80%	1075916.80				
	f. Valves and NRV - Installation													20%	2,68,979.20			
	g. Pipe & Fitting - Supply	6,72,448.00									80%	5,37,958.40						
	h. Pipe & Fittings - Erection													20%	1,34,489.60			
	i. Monorail for lifting	6,72,448.00	80%	5,37,958.40	60%	403468.80												

Sr. No.	Description of Items	BOQ Amount	1st Milestone 10th May'21 to 15th October'21		1st Milestone 10th May'21 to 15th October'21 Achieved		2nd Milestone 16th Oct'21 to 15th March'22		2nd Milestone 16th Oct'21 to 15th March'22 Achieved		3rd Milestone 16th March'22 to 15th June'22		3rd Milestone 16th March'22 to 15th June'22 Achieved		4th Milestone 16th June'22 to 9th Aug'22		4th Milestone 16th June'22 to 9th Aug'22 Achieved	
			%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
	arrangement - Supply																	
	j. Monorail for lifting arrangement - Installation						20%	1,34,489.6 0	12%	80693.76								
	k. Dewatering Pump for dry well - Supply	6,72,448.0 0	80%	5,37,958.4 0														
	l. Dewatering Pump for dry well - Installation						20%	1,34,489.6 0										
iii.	<b>Electrical Work(Servicing &amp; Overhauling/Ne w Procurement)</b>	13,44,896. 00		-							70%	9,41,427.2 0			30 %	4,03,468.8 0		
iv.	<b>Testing &amp; Commissioning</b>	13,44,896. 00		-											100 %	13,44,896. 00		
d.i.	<b>Civil Works</b>																	
	<b>(i) Guptar Ghat IPS</b>																	
	a. Retrofication of Inlet Chamber	13,44,896. 00	100 %	13,44,896. 00	90 %	1210406.4 0												
	b. Retrofication of Screen Chamber	13,44,896. 00	100 %	13,44,896. 00	90 %	1210406.4 0												
	c. Retrofication of Wet Well	13,44,896. 00					100 %	13,44,896. 00	90%	1210406. 40								
	d. Retrofication of Pump House	13,44,896. 00					100 %	13,44,896. 00	90%	1210406. 40								

Sr. No.	Description of Items	BOQ Amount	1st Milestone 10th May'21 to 15th October'21		1st Milestone 10th May'21 to 15th October'21 Achieved		2nd Milestone 16th Oct'21 to 15th March'22		2nd Milestone 16th Oct'21 to 15th March'22 Achieved		3rd Milestone 16th March'22 to 15th June'22		3rd Milestone 16th March'22 to 15th June'22 Achieved		4th Milestone 16th June'22 to 9th Aug'22		4th Milestone 16th June'22 to 9th Aug'22 Achieved	
			%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
ii.	<b>Mechanical Work(Servicing &amp; Overhauling/New Procurement)</b>																	
	(i) <b>Guptar Ghat IPS</b>								-				-					-
	a. Supply of Centrifugal Pump	13,44,896.00					80%	10,75,916.80										
	b. Installation of Centrifugal Pump										20%	2,68,979.20						
	c. SS/MS Structural Work - Supply	6,72,448.00					80%	5,37,958.40										
	d. SS/MS Structural Work - Fabrication										20%	1,34,489.60						
	e. Valves and NRV - Supply	13,44,896.00									80%	10,75,916.80						
	f. Valves and NRV - Installation													20%	2,68,979.20			
	g. Pipe & Fitting - Supply	6,72,448.00									80%	5,37,958.40						
	h. Pipe & Fittings - Erection													20%	1,34,489.60			
	i. Monorail for lifting arrangement - Supply	6,72,448.00	80%	5,37,958.40														
	j. Monorail for						20%	1,34,489.60										

Sr. No.	Description of Items	BOQ Amount	1st Milestone 10th May'21 to 15th October'21		1st Milestone 10th May'21 to 15th October'21 Achieved		2nd Milestone 16th Oct'21 to 15th March'22		2nd Milestone 16th Oct'21 to 15th March'22 Achieved		3rd Milestone 16th March'22 to 15th June'22		3rd Milestone 16th March'22 to 15th June'22 Achieved		4th Milestone 16th June'22 to 9th Aug'22		4th Milestone 16th June'22 to 9th Aug'22 Achieved	
			%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
	lifting arrangement - Installation							0										
	k. Dewatering Pump for dry well - Supply	6,72,448.00	80%	5,37,958.40														
	l. Dewatering Pump for dry well - Installation						20%	1,34,489.60										
iii.	<b>Electrical Work(Servicing &amp; Overhauling/New Procurement)</b>	13,44,896.00		-				-			50%	6,72,448.00			50%	6,72,448.00		
iv.	<b>Testing &amp; Commissioning</b>	13,44,896.00		-				-							100%	13,44,896.00		
e.i.	<b>Civil Works</b>																	
	<b>(i) CSPS - Jajmau</b>																	
	a. Retrofication of Inlet Chamber	13,44,896.00	100%	13,44,896.00	80%	1075916.80												
	b. Retrofication of Screen Chamber	13,44,896.00	100%	13,44,896.00	80%	1075916.80												
	c. Retrofication of Wet Well	13,44,896.00					100%	13,44,896.00										
	d. Retrofication of Pump House	13,44,896.00					100%	13,44,896.00	80%	1075916.80								
ii.	<b>Mechanical Work(Servicing &amp; Overhauling/New Procurement)</b>																	

Sr. No.	Description of Items	BOQ Amount	1st Milestone 10th May'21 to 15th October'21		1st Milestone 10th May'21 to 15th October'21 Achieved		2nd Milestone 16th Oct'21 to 15th March'22		2nd Milestone 16th Oct'21 to 15th March'22 Achieved		3rd Milestone 16th March'22 to 15th June'22		3rd Milestone 16th March'22 to 15th June'22 Achieved		4th Milestone 16th June'22 to 9th Aug'22		4th Milestone 16th June'22 to 9th Aug'22 Achieved		
			%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	
	<b>(i) CSPS - Jajmau</b>									-				-					-
	a. Supply of Centrifugal Pump	13,44,896.00					80%	10,75,916.80											
	b. Installation of Centrifugal Pump										20%	2,68,979.20							
	c. SS/MS Structural Work - Supply	6,72,448.00					80%	5,37,958.40											
	d. SS/MS Structural Work - Fabrication										20%	1,34,489.60							
	e. Valves and NRV - Supply	13,44,896.00									80%	10,75,916.80							
	f. Valves and NRV - Installation													20%	2,68,979.20				
	g. Pipe & Fitting - Supply	6,72,448.00									80%	5,37,958.40							
	h. Pipe & Fittings - Erection													20%	1,34,489.60				
	i. Monorail for lifting arrangement - Supply	6,72,448.00	80%	5,37,958.40															
	j. Monorail for lifting arrangement - Installation						20%	1,34,489.60											
	k. Dewatering Pump for dry well - Supply	6,72,448.00		-			80%	5,37,958.40											

Sr. No.	Description of Items	BOQ Amount	1st Milestone 10th May'21 to 15th October'21		1st Milestone 10th May'21 to 15th October'21 Achieved		2nd Milestone 16th Oct'21 to 15th March'22		2nd Milestone 16th Oct'21 to 15th March'22 Achieved		3rd Milestone 16th March'22 to 15th June'22		3rd Milestone 16th March'22 to 15th June'22 Achieved		4th Milestone 16th June'22 to 9th Aug'22		4th Milestone 16th June'22 to 9th Aug'22 Achieved	
			%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
	l. Dewatering Pump for dry well - Installation						20%	1,34,489.60										
	k. Mechanical & Manual Bar Screen - Supply	6,72,448.00	80%	5,37,958.40														
	l. Mechanical & Manual Bar Screen - Installation	-		-			20%	1,34,489.60										
iii.	<b>Electrical Work(Servicing &amp; Overhauling/New Procurement)</b>	6,72,448.00		-							51.5%	3,46,214.66			49%	3,26,617.60		
iv.	<b>Testing &amp; Commissioning</b>	13,44,896.00		-										100%	13,44,896.00			
IV.	<b>RTOLM WORK for STP ,IPS &amp; CSPA Aea</b>																	
1	<b>STP Aea</b>	-																
i.	Supply of Local Field Instruments for STP facility	33,62,240.00		-							80%	26,89,792.00						
ii.	Installation of Local Field Instruments for STP facility			-							20%	6,72,448.00						
iii.	Supply of Remote Field Instruments for	33,62,240.00		-							80%	26,89,792.00						

Sr. No.	Description of Items	BOQ Amount	1st Milestone 10th May'21 to 15th October'21		1st Milestone 10th May'21 to 15th October'21 Achieved		2nd Milestone 16th Oct'21 to 15th March'22		2nd Milestone 16th Oct'21 to 15th March'22 Achieved		3rd Milestone 16th March'22 to 15th June'22		3rd Milestone 16th March'22 to 15th June'22 Achieved		4th Milestone 16th June'22 to 9th Aug'22		4th Milestone 16th June'22 to 9th Aug'22 Achieved	
			%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
	STP facility																	
iv.	Installation of Remote Field Instruments for STP facility			-							20%	6,72,448.00					-	
v.	Supply of False Floor at PLC Control Room for STP facility	24,01,600.00		-								80%	19,21,280.00				-	
vi.	Installation of False Floor at PLC Control Room for STP facility			-								20%	4,80,320.00				-	
vii.	Supply of AC at PLC Control Room for STP facility	9,60,640.00		-											80%	7,68,512.00		
viii.	Installation of AC at PLC Control Room for STP facility			-											20%	1,92,128.00		
ix.	Supply of PLC Panel for STP facility	33,62,240.00		-											80%	26,89,792.00		
x.	Installation of PLC Panel for STP facility			-											20%	6,72,448.00		
xi.	Supply of AC at RIO Panel Room for STP facility	9,60,640.00		-											80%	7,68,512.00		
xii.	Installation of AC at RIO Panel			-											20%	1,92,128.00		

Sr. No.	Description of Items	BOQ Amount	1st Milestone 10th May'21 to 15th October'21		1st Milestone 10th May'21 to 15th October'21 Achieved		2nd Milestone 16th Oct'21 to 15th March'22		2nd Milestone 16th Oct'21 to 15th March'22 Achieved		3rd Milestone 16th March'22 to 15th June'22		3rd Milestone 16th March'22 to 15th June'22 Achieved		4th Milestone 16th June'22 to 9th Aug'22		4th Milestone 16th June'22 to 9th Aug'22 Achieved	
			%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
	Room for STP facility																	
xiii.	Supply of RIO Panel for STP facility	24,01,600.00		-										80%	19,21,280.00			
xiv.	Installation of RIO Panel for STP facility			-										20%	4,80,320.00			
xv.	Supply of UPS & UPS ACDB for STP facility	24,01,600.00		-										80%	19,21,280.00			
xvi.	Installation of UPS & UPS ACDB for STP facility			-										20%	4,80,320.00			
xvii.	Supply of Instrument, Control & Bus Cable Work for STP facility	48,03,200.00		-										80%	38,42,560.00	80%	3842560.00	
xviii.	Installation of Instrument, Control & Bus Cable Work for STP facility			-										20%	9,60,640.00			
xix.	Testing & Commissioning of PLC & RIO for STP facility	24,01,600.00		-										100%	24,01,600.00			
<b>2</b>	<b>IPS &amp; CSPS Aea</b>																	
i.	Supply of Local Field Instruments for IPS & CSPS	33,62,240.00		-							80%	26,89,792.00						

Sr. No.	Description of Items	BOQ Amount	1st Milestone 10th May'21 to 15th October'21		1st Milestone 10th May'21 to 15th October'21 Achieved		2nd Milestone 16th Oct'21 to 15th March'22		2nd Milestone 16th Oct'21 to 15th March'22 Achieved		3rd Milestone 16th March'22 to 15th June'22		3rd Milestone 16th March'22 to 15th June'22 Achieved		4th Milestone 16th June'22 to 9th Aug'22		4th Milestone 16th June'22 to 9th Aug'22 Achieved	
			%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
	facility																	
ii.	Installation of Local Field Instruments for IPS & CSPS facility			-							13%	4,37,091.20			7%	2,35,356.80		
iii.	Supply of Remote Field Instruments for IPS & CSPS facility	33,62,240.00		-										80%	26,89,792.00			
iv.	Installation of Remote Field Instruments for IPS & CSPS facility			-										20%	6,72,448.00			
v.	Supply of RTU/RIO Panel for IPS & CSPS facility	28,81,920.00		-										80%	23,05,536.00			
vi.	Installation of RTU/RIO Panel for IPS & CSPS facility			-										20%	5,76,384.00			
vii.	Supply of UPS for IPS & CSPS facility	24,01,600.00		-										80%	19,21,280.00			
viii.	Installation of UPS for IPS & CSPS facility			-										20%	4,80,320.00			
ix.	Supply of Instrument, Control & Bus	48,03,200.00		-										80%	38,42,560.00			

Sr. No.	Description of Items	BOQ Amount	1st Milestone 10th May'21 to 15th October'21		1st Milestone 10th May'21 to 15th October'21 Achieved		2nd Milestone 16th Oct'21 to 15th March'22		2nd Milestone 16th Oct'21 to 15th March'22 Achieved		3rd Milestone 16th March'22 to 15th June'22		3rd Milestone 16th March'22 to 15th June'22 Achieved		4th Milestone 16th June'22 to 9th Aug'22		4th Milestone 16th June'22 to 9th Aug'22 Achieved	
			%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount
	Cable Work for IPS & CSPA facility																	
x.	Installation of Instrument, Control & Bus Cable Work for IPS & CSPA facility			-				-						-	20 %	9,60,640.0 0		
xi.	Testing & Commissioning of RTU/RIO for IPS & CSPA facility	24,01,600. 00		-				-						-	100 %	24,01,600. 00		
xii.	Testing & Commissioning of Cloud based RTOLMS facility	24,01,600. 00		-				-						-	100 %	24,01,600. 00		
				-					-					-				-
<b>V</b>	<b>TRIAL RUN &amp; COMMISSIONIN G</b>																	
1	Trial Run & Commissioning								-					-				-
		<b>9606,40,0 00.00</b>		<b>2401,60,0 00.00</b>		<b>1515,39,7 39.99</b>		<b>2401,60,0 00.00</b>		<b>889,04,25 4.02</b>		<b>2401,60,0 00.00</b>		<b>340,43,42 2.31</b>		<b>2401,60,0 00.00</b>		<b>284,15,73 1.20</b>

130MLD STP JAJMAU Site Pictures during renovation period



Renovation work at Primary Sedimentation Tank



Renovation work at Grit Chamber 03



**Renovation work at Final Sedimentation Tank**



**Renovation work at RSPH**



**Renovation work at Compressor Panel Room**

**Following points are to be addressed by the KRMPL:**

**i. Compliance of Inspection Reports.**

PE/UPJN/NMCG inspected 130 MLD STP Jajmau Phase-I on the following dates:-

1. 02.09.2021- inspection report issued on 06.09.2021
2. 18.09.2021- inspection report issued on 24.09.2021
3. 30.09.2021- inspection report issued on 01.10.2021
4. 07.10.2021 }  
 10.10.2021 }  
 23.10.2021 } inspection report issued on 31.10.2021  
 28.10.2021 }  
 29.10.2021 }
5. 23.11.2021 }  
 6. 27.11.2021 } inspection report issued on 30.11.2021
7. 10.12.2021 }  
 8. 20.12.2021 } inspection report issued on 27.12.2021 for 130MLD STP Jajmau Phase1
9. 15.12.2021 }  
 10. 16.12.2021 } inspection report issued on 27.12.2021 for 130MLD STP Jajmau IPS Facilities Phase 1

Compliance of the above inspection reports have not been submitted by KRMPL yet.

**Unit wise description of 130 MLD JAJMAU Phase -1**

**i. Collection Chamber**

Collection chamber Retrofication work partially completed without testing, commissioning, permission of UP Jal Nigam /STC.

Renovation of free board need to be done for all Collection chamber Area.

## ii. Gates / Valves

Gates/ Valves are painted and Overhauling has been done but as per UP Jal Nigam /PE directed to Concessionaire all gates / valves need to be replaced.

## iii. Fine Screen Chamber (Mechanical / Manual)

Renovation of fine screen chamber partially done. Seepages point rectification work required for civil structure.

- 03 nos. Mechanical Fine screens has been installed by KRMPL without getting checked & taking any permission for installation /Erection work of Mechanical Fine screen system from PE/UPJN.
- 01 no. Manual screen has been installed by KRMPL without getting checked & taking any permission for installation /Erection work of Manual screen system from PE/UPJN.
- Screened material need to be dispose regularly.
- MS shed pipes are corroded & Colour of shed also worn out. UP Jal Nigam /PE directed to Concessionaire need to paint the MS shed pipes.
- Mechanical Screen not working with atomization system and without sensor .Need to be fixed the auto system immediately.
- New Cables for mechanical screen should be laid properly in cable trays.

## iv. Grit Chamber

- Renovation work of Grit chamber 03 done.
- Grit mechanism system No. 3 has not been installed properly.
- Classifier no.01 & 02 Concessionaire promises to rectify the grit classifier defects within 2 days but KRMPL has not been rectifying till dated.
- Organic pump no.01 & 02 has not been installed as per approved drawing. Organic system shall be replaced as per approved drawing.
- Regarding E&M equipments installation works, KRMPL is required to schedule inspection of E&M works with PE and further obtain approval of UPJN before testing, commissioning and charging the raw sewage in respective E&M equipments. Only upon inspection and witnessing dry runs by PE and satisfactory completion of proposed works.

## v. Inlet Flow meter

- Channel renovation work done but hydro test of this channel is pending.
- Inlet flow meter has been installed by KRMPL without getting checked & taking any permission for installation /Erection work of Inlet flow meter from PE/UPJN.

## vi. Primary Sedimentation Tank

- Renovation in base slab and central shaft need to be done at PST 02.
- Hydro test need to be done by KRMPL before charging the PST 02.
- Interconnection pipeline work needs to be renovated.
- Concessionaire also promised to complete the equipment installation work of PST 02 by December end. But installation of Mechanical equipments yet not completed.
- Dry run has not been conducted by KRMPL as on date for PST 02.

- PST 01 and 03 renovation work not started by KRMPL at site.
- Concessionaire has submitted and PE approved their submitted datasheet for Primary Sedimentation mechanism vide STC Letter No 505 dated 19.09.2020. KRMPL has not supplied the mechanical equipments for PST 01 and 03 till date.

#### **vii. Sludge thickener Tank**

- Renovation work of Sludge thickener 02 partially done by Concessionaire.
- Cleaning work of tank and sump need to be done.
- All cracks, repairing work Need to be renovate.
- Epoxy paint need to be done as per approved specification.
- Hydro test need to be done under this renovation period.
- Sludge line for Inlet and Outlet flow need to be clean and repaired.
- Concessionaire has submitted and PE approved their submitted datasheet vide STC Letter No 505 dated 19.09.2020. KRMPL has not supplied Sludge Thickener till date.
- Sludge thickener no.1 dismantling work not started by KRMPL by till date.

#### **viii. Blending tank agitator**

- Concessionaire has submitted and PE approved their submitted datasheet vide STC Letter No 1265 dated 16.11.2021, but installation work didn't started.
- Concessionaire needs to be clean upto bottom of tank.
- After cleaning of tank completely required renovation work need to be done by KRMPL.
- Incoming and outgoing sludge line need to be clean and repaired if required.

#### **ix. Aeration Tank**

- Civil structure found in poor condition and need to be rehabilitated.
- KRMPL done renovation work only Outer face of RCC wall and RCC channel.
- Incoming line of sewage need to be clean and repaired if required.
- Outlet line of sludge to blending tank need to be cleaned and repaired.
- Concessionaire promised to replace all 18 nos. of aerators. 06 nos. of new aerators has been installed at aeration chamber and PE & UPJN has been submitted observation vide PE letter no.1287 dated 26.11.2021 but KRMPL has not submitted any compliance report as same. Remaining 12 nos. of aerators will be ordered by 18th Oct. 2021, but till date 12 Nos. Aerators not reached at site. PO order has submitted by KRMPL vide their letter No 2054 dated 30.12.2021.

#### **x. Return sludge pump House**

- Plastering work, Painting work of outer surface of Pump house done by Concessionaire.
- Sump cleaning work done by KRMPL partially.
- Concessionaire fixed 2 nos. of new RSPH pumps, which will reach site on 15th Oct. 2021 and 2 nos. of overhauling pump. Concessionaire will keep repairing the old pumps in a proper manner so that the functioning will not be disturbed till remaining 2 nos. of new pump. 2 nos. new pumps has been installed BY KRMPL at site but KRMPL without getting checked & taking any permission for installation /Erection work of RSPH pumps from PE/UPJN.
- PO order has submitted by KRMPL vide their letter No 2054 dated 30.12.2021.

#### **xi. Treated effluent pump house:**

- Out of 11 Nos. pumps in TEPH, 04 nos. pumps are received at site. 2 Nos. of Pump has been installed at site without getting checked & taking any permission for installation /Erection work of RSPH pumps from PE/UPJN
- New TEPH construction work has not started by KRMPL.

#### **xii. Centrifuge System**

- UP Jal Nigam has directed to Concessionaire to replace 4 Nos. Centrifuges from approved vendors as per CA and approved BEP. Any alternate technology, including Belt Filter Press, may be considered by Concessionaire at no additional cost and the same will be designed as per CPHEEO guidelines, and procured from only approved vendors.
- PE has been recommended vendor for Belt Filter Press vide Letter No. 1362 dated 30.12.2021. But KRMPL has not submitted any revised Technical Data sheet for Approval.

#### **xiii. Supernatant pumps**

- KRMPL has submitted the Technical data sheet of supernatant pumps vide their letter No.2059 dated 31.12.2021 and It is under review of PE.

#### **xiv. Sludge Digester**

- Concessionaire has done partially cleaning work of primary digester tank.
- KRMPL has been started the cleaning of the Secondary digester tank.
- Concessionaire need to arrange sufficient Nos. of labour for renovate the work.
- Concessionaire has submitted the technical data sheet of sludge digester as per their letter No.1979 dated 02.12.2021 and PE has commented vide Letter No 1305 dated 03.12.2021 and KRMPL has been submitted the compliance report vide Letter No 2038 dated 22.12.2021 and It in under review.

#### **xv. Final Sedimentation Tank**

- Concessionaire done plastering and finishing work partially as per approved procedure at FST2.
- Concessionaire has submitted and PE approved their submitted datasheet for Final Sedimentation mechanism vide STC Letter No 505 dated 19.09.2020.KRMPL has not supplied the mechanical equipments for FST 01,02 and 03 till date.
- Concessionaire promised that the equipment of 130 MLD FST no. 1 will be inspected tomorrow i.e, on 11<sup>th</sup> Oct. 2021 & will reach site by 20th Oct. 2021. The Equipment of 130 MLD FST will reach site till 20th Oct. 2021. Concessionaire also promised to complete the equipment installation work of FST by December end. But FST no.1,2 & 3 yet not supplied & their installation work of Mechanical equipment has not started till date.

#### **xvi. Dual Fuel Generator (DFG)**

- It has been decided and agreed by KRMPL that two gas engines of 800Kw will provided and as remaining requirement. KRMPL to provide the Technical Data Sheet of DG set.

#### **xvii. Scrubbing & Flaring System**

- Concessionaire has been submitted the QAP and datasheet of scrubbing and flaring system as per KRMPL letter No. 1972 dated 01.12.2021 and PE recommended for

approval for Gas flaring unit as per STC letter No 1326 dated 13.12.2021 and for Gas scrubber system as per STC letter No 1329 dated 14.12.2021. KRMPL has not been supplied the equipments.

- Plastering work, Painting work done by KRMPL under renovation work.

**xviii. Combined sewage pumping station(CSPS Jajmau)**

- Concessionaire has been submitted the QAP and datasheet of CSPS and PE has been recommended vide STC letter No 1286 dated 12.11.2021.

**xix. Substation**

- DP structure has been erected by KRMPL without getting approval of Drawing and layout plan & taking any permission for installation /Erection work of DP structure work from PE/UPJN.

## 7.5 43 MLD JAJMAU PHASE II

Schedule handing over date for 43 MLD Jajmau phase-II facilities was 1.10.2019 as per CA. As per CA COD for 130 MLD Jajmau Phase-I and 43 MLD Jajmau phase-II was same as per CA, therefore the Concessionaire was reluctant to take over 43 MLD Jajmau phase-II. NMCG has separated COD of Jajmau by NMCG letter no.F.No.pr-12012/7/2018/PPP/NMCG dated 02.08.2021. Ultimately 43 MLD Jajmau phase-II facilities were takeover by KRMPL conditionally on 25.08.2021.

COD for 43 MLD Jajmau phase-II has been declared as per UPJN letter No 144/M-23/4 dated 14.12.2021. The KRMPL has submitted the list of staff deployed for proper O&M of 43 MLD Jajmau phase-II facilities as per KRMPL letter No 1920 dated 16.11.2021 and PE STC commented for manpower qualification & experience for plants under O&M as per STC letter No 1272 dated 18.11.2021.

It has been observed that O&M of 43 MLD Jajmau phase-II is not up to the mark from handover date.

- **Parmiya Nala IPS 3.5 MLD** Handover Date-25.08.2021
- **Shishamau IPS (Khalasi Lane Chouraha) 45 MLD** Handover Date- 25.08.2021

- **Parmiya Nala IPS**

- This IPS is in overflow/Bypass condition since Handover.
- KRMPL did not take any necessary action to preventing overflow condition.
- KRMPL is not maintaining proper O&M during renovation period.
- Documentations and Log book of pumps, DG set are not maintaining by KRMPL.

- **Shishamau IPS (Khalasi Lane Chouraha)**

This IPS is in overflow/Bypass condition during peak hour.

- KRMPL did not operate IPS pumps properly during peak hour.
- Documentations and Log book of pumps, DG set are not maintaining by KRMPL.
- O&M of 130 mld stp plant Phase 1 and their facilities found unsatisfactory during site visit of NMCG, SMCG, CPCB, UPPCB, District level Officials UPJN and STC officials and intimate to KRMPL taken necessary action to avoid overflow/ByPass condition..
- NMCG has instructed to KRMPL that “MAGH MELA” is ongoing to start from Jan 2022, No untreated sewage should be flow to river Ganga.

**Following points are to be addressed by the KRMPL:-****i. Compliance of Inspection Reports.**

PE/UPJN/NMCG inspected 43 MLD STP Jajmau Phase-II on the following dates:-

1. 21.09.2021- inspection report issued on 30.09.2021
2. 30.09.2021-inspection report issued on 01.10.2021
3. 08.10.2021, 25.10.2021& 28.10.2021 - inspection report issued on 30.10.2021
4. 27.11.2021-inspection report issued on 30.11.2021(enclosed)
5. ED (Technical) Mr. D.P Mathuria inspected on 08.10.2021 and ED(Project) Mr. Ashok Kumar Singh, IAS inspected on 10.10.2021.MOM of Both inspection has been issued by STC Letter No.1215 dated 27.10.2021
6. Ms. Nidhi Dwivedi, Project Officer (Technical), NMCG, Mr. Bhaskar Ray, TL and Mr. Dinesh Chamoli, O&M Expert, PMC inspected site on 28.10.2021.
7. 15.12.2021 }  
8. 21.12.2021 } Inspection report issued on 27.12.2021 for 43 MLD STP IPS facilities Jajmau Phase II
9. 10.12.2021 }  
10. 16.12.2021 } Inspection report issued on 27.12.2021 for 43 MLD STP Jajmau Phase II
11. 20.12.2021 }  
12. 21.12.2021 }

Compliance of the above inspection reports have not been submitted by KRMPL yet.

**ii. O&M Manual**

- KRMPL submitted O&M Manual vide KRMPL letter no.1816 dated 18.10.2021.After review PE has given comments on O&M Manual vide PE letter no.1239 dated 01.11.2021. KRMPL has resubmitted only soft copy by Email on 30.12.2021 of O&M manual for 43 MLD STP Jajmau Phase-II without any covering letter & Compliance report. KRMPL need to resubmit O&M manual as per STC letter No 1363 dated 31.12.2021;
- KRMPL has submitted Schedule Maintenance plan for first year of 43 MLD Jajmau Phase-II facilities vide KRMPL letter no.1909 dated 12.11.2021,PE reviewed and submitted comments on Schedule Maintenance plan vide PE letter no.1262 dated 12.11.2021.KRMPL is yet to resubmit Schedule Maintenance plan after incorporating comments given by PE.

**iii. Insurance Policies**

- UPJN provided insurance appreciated value of 43 MLD Jajmau Facilities Phase II for the year of 2021-2022 is Rs 6675.10 Lakh as per UPJN vide Letter No 180/w-4/42 dated 29.12.2021.
- KRMPL has not submitted industrial all risk insurance policies for replacement value of 43 MLD Jajmau Phase-II facilities yet as per STC letter no. 1109 dated 02/09/2021.

**iv. Monthly Activity Report**

- KRMPL has submitted Monthly performance report for 43 MLD Jajmau Phase-II for the

Month of Nov-2021. (enclosed with annexure 1 )

- After review PE has given comments on Monthly performance report for 43 MLD Jajmau Phase-II vide PE letter no.1339 dated 24.12.2021.KRMPL is yet to resubmit Monthly performance report for the month of Nov-2021 after incorporating comments given by PE.
- KPIs were within prescribing limit during the month of Nov-2021 except one day (30th Nov 2021).

**v. Mechanical Screens (Fine Screens)**

- Both Mechanical screens & conveyer belt found non operational every time when officials of PE/UPJN visited the site. It was started when asked by the visiting team.
- Auto System of both Mechanical Screens has not been repaired by KRMPL yet.
- Concessionaire promised automation of mechanical screens of 43 MLD STP within a week during the visit of ED (technical) on 08.10.2021. But no action has been taken up by KRMPL.

**vi. Grit removal System**

- Grit removal system is functional but classifier system is not functional since handover.
- Most of the time it was found that total flow was being bypassed. Concessionaire promised to rectify the grit classifier of 43 MLD STP within 7 days during the visit of ED (technical) on 08.10.2021. But no action has been taken up by KRMPL.

**vii. Primary sedimentation Tank**

- Cleaning work of PST need to be done.
- Cracks repairing work need to be done.
- Painting work needs to be done.
- "V" notch need to replace.
- Hand railing work needs to be paint.
- Alignment need to be rectified for PST.
- Log book need to be maintained.

**viii. Sludge Digester System**

- Sludge digested system is not in working condition since handover.
- Digester Need to be cleaned.
- Civil Leakage need to be repaired.
- Pressure relives valve need to be calibration.
- All four nos. of motors need to be repaired.
- Canopies need to be replaced.
- HDPE gas pipe line need to be proper support.

**ix. Air Blower system**

- PE informed ED (Projects) that out of 3 nos. of air blower, Blower no. 02 is not working after handing over to the concessionaire and till date the concessionaire has not been overhauling the blower. If the blower will not be overhauled then at the time of malfunctioning of running blowers, it can't be replaced by standby blower and the

system running may hamper. On such note, ED (Projects) directed the concessionaire to overhaul the standby blower at the earliest. But blower will not be overhauled by KRMPL yet.

**x. Centrifuge system**

- Both Centrifuges needs to be repair.
- Need to be overhauled & servicing.
- Dosing of PACL in sludge feed line not properly tapping according to design .Therefore dosing line tapping from upward to downward direction. KRMPL has not taken action as same
- Dosing line has not been connected with sludge feed line of centrifuge No 1 and 2 properly.
- Pipe support shall be installed properly for sludge feed line and dosing line.

**xi. Sludge Thickener**

- Need to be Overhaul and servicing.
- Need to be Clean weir plates
- Sludge cleaning need to be done.
- Need to be painted.

**xii. Final Sedimentation Tank**

- Cleaning work need to be done.
- Painting work needs to be done.
- Alignment of Mechanism needs to be rectified.
- "V" notch need to be replaced.

**xiii. Disposal Sludge**

- Disposal of sludge is to be done by the KRMPL as per UPPCB norms.

**xiv. DG set**

- PE has submitted their suggestion to UP Jal Nigam to direct the concessionaire to installed DG set & RTLOMS system vide STC letter no. 898 dated 11.06.2021.

**xv. Joint sampling and testing by NABL Lab**

- Testing reports from NABL accredited Laboratory Spectro Research Lab Ventures (P) Ltd of joint samples taken on 5.11.2021, 12.11.2021, 21.11.2021 and 26.11.2021 for month of November.
- Testing reports from Spectra research Lab ventures (P) Ltd. of the Joint sample taken on 12.11.2021 and 21.11.2021 have been submitted by concessionaire (Reports are enclosed).
- Testing reports from Spectra research Lab ventures (P) Ltd. of the Joint sample taken on 05.11.2021 and 26.11.2021 test report yet not submitted by concessionaire.

**xvi. KPIs Adherence Report**

- Out of 4 weeks NABL reports, 2 week NABL report is still pending to submit from KRMPL. Therefore, KPIs Adherence Report for the month of Nov-2021 will be submitted by PE only after receiving at NABL reports from KRMPL.

## 7.6 210 MLD Bingawan STP

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.

Renovation (Installation of RTOLMS 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 RTOLMS. It is not calibrated. Calibration report needs to be provided. Another 2<sup>nd</sup> no. electro-magnetic flow meters has not been installed yet.

### Following points need to be addressed:-

#### I. Compliance of Inspection Reports

- PE/UPJN inspected 210 MLD Bingawan facilities on the following dates
    1. 12.11.2020- Inspection report issued on 21.11.2020
    2. 02.01.2021- Inspection report issued on 19.01.2021
    3. 02.02.2021- Inspection report issued on 04.02.2021
    4. 15.06.2021- Inspection report issued on 23.06.2021
    5. 12.07.2021- Inspection report issued on 20.07.2021
    6. 06.08.2021- Inspection report issued on 10.08.2021
    7. 18.08.2021
    8. 25.08.2021
    9. 26.08.2021
    10. 31.08.2021
    11. 10.10.2021
    12. 26.10.2021
    13. 29.10.2021
    14. 24.11.2021 IPS Inspection reports issued on 29.11.2021.
    15. 16.12.2021 - STP Inspection report issued on 24.12.2021.
    16. 14.12.2021
    17. 29.12.2021
- } Inspection reports issued on 31.08.2021  
 } Inspection reports issued on 31.10.2021.  
 } IPS Inspection report issued on 30.12.2021.

Compliance of the above inspection reports have not been submitted by KRMPL yet.

18. STC inspection done on 26.11.2021 and inspection report issued on 29.11.2021  
Compliance of the above inspection report was submitted by KRMPL vide KRMPL letter no. 2056 dated 30.12.2021 (received on 31.12.2021) which will be verified by PE in Jan. 2022 month's inspection.

- Since 28<sup>th</sup> 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 November 2021 of Bingawan facilities is enclosed.

## II. O&M Manual

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

## III. Insurance Policies

- STC insurance expert report has been submitted and KRMPL was required to submit all insurance policies according to advice of STC insurance expert.
- Again, KRMPL has submitted industrial all risk insurance policy vide its letter no. 1958 dated 18.11.2021 for year 2<sup>nd</sup> (i.e, Nov. 2020 to Nov. 2021) without enhancement of the insured amount by 5 % and without including the cost of RTOLMS.
- KRMPL has not yet submitted the revised Insurance Policies for year 2<sup>nd</sup> (i.e, Nov. 2020 to Nov. 2021) incorporating the points raised in STC letter no. 1325A.
- KRMPL has submitted industrial all risk insurance policy vide its letter no. 2009 for year 3<sup>rd</sup> (i.e, Nov. 2021 to Nov. 2022). On a total, the value of IAR policy has to be increased to Rs 284,00,40,000/- (i.e, 10.25 % to that of 1st yr. value, considering 5% increment to 1st yr value & then 5% increment to that of 2nd yr. value) excluding RTOLMS value but the submitted IAR policy value is Rs 280,65,44,000/- which is only 8.95% to that of 1st yr. value. Apart from the above, the cost of RTOLMS was to be included in the industrial all risk insurance policy but not included yet. On this, STC has issued a letter no. 1351 for compliance.

## IV. MPS

- Both mechanical coarse screens are only running but not functional since 28.01.2020. Screens are to be aligned completely which is still to be done.
- Out of 12 nos. pumps installed, 10 pumps are working properly and out of the rest 2 nos. pumps, pump no. 4 is not pumping sewage and pump no. 8 is not working. For 130 MLD flow, at least 5 pumps are required to be operated during peak periods but KRMPL is operation only 4 pumps resulting in reverse flow and only 100 MLD sewage is being treated in the plant.
- KRMPL had promised to complete Butterfly valve chamber near MPS by 15.08.2021 but not completed yet. Some finishing works is still pending.
- Main pump house sump has been filled with floating garbage since both mechanical screens are not working. Manual cleaning is also not being done.

## V. Inlet Chamber

- Out of 3 nos. fine mechanical screen, all are non functional since 28.01.2020.
- Out of 04 grit removal system, the ORP of two grit classifier are not working and Grit classifier no. 1, 2 & 3 are not functioning properly.
- Many of the outdoor lights are not working which has not been replaced yet.

- Parshall flume ultrasonic level sensor along with measuring scale had not been installed yet since handover dated 08.07.2019
- Some of the leakages in Civil Structure have not been attended by KRMPL.

#### **VI. Cleaning and reactivation of UASB Reactors**

All the KPIs excluding TSS are not being met during the month of Nov. 2021 as per KRMPL reports. There is huge difference between KRMPL lab results and NABL lab results. Out of 16 reactors, 9 nos. UASB reactors (reactor no. 1, 2, 3, 4, 8, 5, 12, 9 & 10) have been cleaned & refilled for reactivation. Sludge blankets are still not formed in the above reactors. Reactor no. 6 was taken up for cleaning from April 2021, Reactors no. 9, 10, 11 were taken up for cleaning from July 2021, Reactor no. 16 has been taken up for cleaning from Sept. 2021, Reactor no. 14 has been taken up for cleaning from 30.11.2021 (Nov. 2021). Remaining 03 reactors are filled with sludge. KRMPL had promised during NMCG team visit in July 2021 to clean 1 reactor each month but failed to comply.

From July-2021 only four reactors i.e, reactor no. 5, 12, 9 & 10 have been cleaned till date. Reactor no. 9 & 10 were cleaned in Dec. 2021.

#### **VII. Belt Filter Press**

Out of 3 nos. of Belt Filter Press (BEP) system, 1<sup>st</sup> one is non-operational since 23.09.2021 and rest 2 nos. BFP are operational. Only 02 nos. trolleys are available at site. One no. spare trolley is also required. Out of 3 nos. poly dosing pumps installed, 1 no. is not in working condition due to diaphragm portion fully damaged. This matter has been pending since 07.10.2020.

#### **VIII. Chlorination System**

- 3nos. out of 20 nos. chlorine tonners are missing from the site after handover dated 08.07.2019.
- Chlorine dosing is not found proper as per the flow. In the month of Oct. 2021, 6055.3 kg of chlorine has been consume less than required.

#### **IX. Sludge Disposal**

As instructed by ED (Technical) on 08.10.2021 that sludge disposal is to be done as per norms of UPPCB. KRMPL and UPJN are required to follow the norms of UPPCB for disposal of sludge. Before disposal, analysis of sludge is to be done for heavy metals as directed by ED (Technical).

#### **X. Joint Sampling and Testing by NABL Lab.**

- Testing report from Spectra research Lab ventures (P) Ltd. of the Joint sample taken on 29.09.2020, 16.10.2020, 18.03.2021, 09.04.2021, 15.07.2021, 30.07.2021, 21.08.2021, 28.08.2021 and 17.09.2021 has not been submitted by concessionaire.
- KRMPL has started taking weekly samples from August 2021.
- Testing report from Spectra research Lab ventures (P) Ltd. of the Joint sample taken on 26.06.2021, 02.10.2021, 09.10.2021, 16.10.2021 & 23.10.2021 have been submitted by KRMPL (Reports are enclosed).
- Now, KRMPL has started weekly sample testing by NABL accredited Sri Ram Labs from Dec. 2021.

**XI. Gas Holder**

- Out of 2 nos. gas holder installed, one gas holder is not in working condition since 23.09.2021.

**XII. Gas Scrubber Unit**

- Scrubber is not working since 28.01.2020.

**XIII. Housekeeping:-**

- Even after instructions by NMCG team on 08.07.2021 there is not any improvement in housekeeping and still in very bad condition.
- Also in Oct. 2021, ED (Technical), ED (Projects) & Project Officer (T) of NMCG have visited the site and raised concern over not deploying enough man power for housekeeping works.
- Improvement has been made in the housekeeping works and still a lot work has to be done.

**XIV. Schedule Maintenance Works for 1<sup>st</sup> & 2<sup>nd</sup> year**

- Schedule maintenance works as per approved O&M manual were to be started from 1/08/2020, but not started yet.
- KRMPL has not done any schedule maintenance works for year-1 as approved.
- 2<sup>nd</sup> 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. Now again KRMPL has submitted the schedule maintenance plan for year 2<sup>nd</sup> vide KRMPL letter no. 1782 dated 29.09.2021 which is not to be considered till the plant is fully operational as the plant is in breakdown condition at present.
- Again KRMPL has submitted a letter no. 1887 dated 02.11.2021 for schedule maintenance programme on which we have issued a letter no. 1249 dated 09.11.2021, for making revision and resubmission of schedule maintenance programme year 02 after excluding breakdown maintenance items. KRMPL has not submitted the revised schedule maintenance programme year 02 yet.

**XV. KPIs Adherence Report**

- KPIs Adherence Report for the month of Oct.-2021 submitted by PE (based on NABL lab results for the month of Oct.-2021) vide STC letter no. 1279 dated 22.11.2021.

## 7.7 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 declared 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:-

#### ii. Compliance of Inspection Reports.

- PE/UPJN Inspected 42 MLD Sajari facilities on the following dates
  1. 20.10.2021- IPS Inspection report issued on 25.10.2021
  2. 18.11.2021- IPS Inspection report issued on 27.11.2021
  3. 14.12.2021- IPS Inspection report issued on 24.12.2021
  4. 21.12.2021 } STP Inspection report issued on 30.12.2021
  5. 22.12.2021 }

Compliance of the above inspection reports have not been submitted by KRMPL yet.

6. STC inspection done on 12.10.2021, 27.10.2021, 29.10.2021 & 18.11.2021 and inspection reports issued on 31.10.2021 & 27.11.2021 respectively.

Compliance of the above inspection reports was submitted by KRMPL vide KRMPL letter no. 2037 & 2041 dated 23.12.2021 & 24.12.2021 (received on 28.12.2021) respectively, which was verified by STC and it was found that various items informed rectified by KRMPL, found not rectified. It shows that KRMPL submitting false and misleading compliance report. This has also been informed vide STC letter no. 1361 dated 30.12.2021.

7. 31.07.2021, 18.08.2021 & 21.09.2021- Inspection report issued on 04.08.2021, 27.08.2021 & 29.09.2021 respectively.

Compliance of the above inspection reports was submitted by KRMPL vide KRMPL letter no. 1807, 1814 & 1815 dated 18.10.2021 & 19.10.2021 (received on 20.10.2021) respectively, which was verified by STC and it was found that some of the items informed rectified by KRMPL, found not rectified. It shows that KRMPL submitting false and misleading compliance report.

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.

### iii. O&M Manual

O&M Manual already approved by UP Jal Nigam.

### iv. Insurance Policies

- STC insurance expert report has been submitted and KRMPL was required to submit all insurance policies according to advice of STC insurance expert.
- Again, KRMPL has submitted industrial all risk insurance policy vide its letter no. 1958 for year 2<sup>nd</sup> (i.e, Nov. 2020 to Nov. 2021). Previously it was taken for 68.8 crore that was to be increased by 5% and cost of DG set and online monitoring system was to be included but instead of increasing and including the cost of DG set and online monitoring system, the insured value has been decreased from 68.8 crore to 49.19 crore, which is not acceptable.
- KRMPL has not yet submitted the revised Insurance Policies for year 2<sup>nd</sup> (i.e, Nov. 2020 to Nov. 2021) incorporating the points raised in STC letter no. 1325A.
- KRMPL has submitted industrial all risk insurance policy vide its letter no. 2009 for year 3<sup>rd</sup> (i.e, Nov. 2021 to Nov. 2022). In which, whether 5% increment to 1st yr value & then 5% increment to that of 2nd yr. value is considered or not in the submitted 3rd yr. IAR policy, is not clear from the submittal. Also, the value addition for DG set & OCEMS is not given separately and whether 5% increment was made or not on 2nd yr. value for DG set & OCEMS, is not clear. On this, STC has issued a letter no. 1351 for compliance.

### v. Performance of Plant

All KPIs were within prescribed limit since 04.01.2020 but concessionaire started operating one stream from 22.06.2021. KPIs are coming within prescribed limit from the month of Oct. 2021. KRMPL has started operating both the stream from 18.10.2021. Now, KRMPL started operating only one stream from 06.12.2021.

### vi. Mechanical Screens (Coarse & Fine Screens)

Auto system of one mechanical coarse screen has been installed but not functioning properly. Auto system of 2<sup>nd</sup> no. mechanical coarse screen is not installed yet. Auto system of both fine mechanical screens is not functional.

### vii. Main pumping Station

Pressure gauges of 2<sup>nd</sup> no. pump was not available and rest pressure gauges needs to be changed.

**viii. Inlet Chamber**

- Level sensors are not provided yet for mechanical fine screen atomization.
- Out of 02 grit removal system, Grit classifier no. 1 is not functioning properly.
- Parshall flume ultrasonic level sensor along with flow measuring chart had not been installed yet since handover dated 11.10.2019.

**ix. Return Sludge Pump House**

Return sludge pump no. 1 is non-operational since 03.03.2021 and the pressure gauge of pump no. 3 is not available and the pressure gauge of rest pumps needs to be changed.

Return sludge pump no. 3 is non-operational since 09.12.2021.

**x. Chlorination System**

The missing tonners were finally brought at site on 11.12.2021 which were missing since 04.01.2020.

**xi. Sludge Thickener**

Sludge thickener no. 2 is non-operational since 03.03.2021.

**xii. Gas Generators**

All 3 nos. of Gas Generators are in working condition.

**xiii. 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.

**xiv. Joint Sampling and Testing by NABL Lab.**

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, 13.11.2021 & 27.11.2021 have not been received yet.

Testing reports from Spectra research Lab ventures (P) Ltd. of the Joint sample taken on Feb. 2021, May 2021, June 2021, 21.08.2021, 28.08.2021, 18.09.2021, 09.10.2021, 23.10.2021, 06.11.2021 & 20.11.2021 have been submitted by concessionaire (Reports are enclosed).

Now, KRMPL has started weekly sample testing by NABL accredited Sri Ram Labs from Dec. 2021.

**xv. 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.

**xvi. Sludge Disposal**

As instructed by ED (Technical) on 08.10.2021 that sludge disposal is to be done as per norms of UPPCB. KRMPL and UPJN are required to follow the norms of UPPCB for disposal of sludge. Before disposal, analysis of sludge is to be done for heavy metals as

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directed by ED (Technical).

**xvii. Submission of Schedule Maintenance Programme**

KRMPL has not done any schedule maintenance works as per approved O&M manual for the first year. KRMPL has submitted the schedule maintenance programmes for the 2<sup>nd</sup> year vide letter no.1135 dated 06.04.2021. PE commented on schedule maintenance programmes -2<sup>nd</sup> year vide letter no.788 dated 12.04.2021. KRMPL has submitted compliance report on schedule maintenance programmes -2<sup>nd</sup> year vide letter no.1266 dated 20.05.2021. UPJN instructed KRMPL to resubmit revised schedule maintenance program for year-2 for Sajari facilities incorporating the comments of PE vide letter no.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 but no labour force has been deployed to start schedule maintenance work yet.

Both the streams had been started by KRMPL since 18.10.2021 without doing any schedule maintenance works. Now, KRMPL started operating only one stream from 06.12.2021.

**xviii. KPIs Adherence Report**

KPIs Adherence Report for the month of Nov.-2021 has not been submitted by PE because KRMPL has not yet submitted all weeks NABL lab reports for Nov. 2021 of Sajari STP. Out of 4 weeks NABL reports, 2 weeks NABL reports are still pending for submission from KRMPL.

**8. STATUS OF BEP & OTHER DETAILS**

Status of BEPs &amp; other detail are given in following table 8.1:

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

SN	STP Facility	Status / Remarks				
		BEPs	Structure Design & Drawings	Sewer Network	Construction Plan	O&M
<b>A</b>	<b>New 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	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, GR, BW, SBR, SQ, CCT, Admin Building, Blower Room & Centrifuge vetted by PE & IIT (R), under approval at UPJN;	Vetted by STC letter no. 1052 dated 12.08.2021	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</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</b>	<b>O&amp;M for 15 years</b>					
i	43 MLD STP - Jajmau (Phase II)	KRMPL submitted O&M Manual vide KRMPL letter no.1816 dated 18.10.2021. After review PE has given comments on O&M Manual vide PE letter no.1239 dated 01.11.2021.KRMPL is yet to resubmit O&M manual after incorporating comments given by PE. KRMPL has submitted Schedule Maintenance plan for first year of 43 MLD Jajmau Phase-II facilities vide KRMPL letter no.1909 dated 12.11.2021, PE reviewed and submitted comments on Schedule Maintenance plan vide PE letter no.1262 dated 12.11.2021. KRMPL is yet to resubmit Schedule Maintenance plan after incorporating comments given by PE.				Handover Done

ii	42 MLD STP - Sajari	Approved	<p>KRMPL has taken closure of 1 stream for schedule maintenance works of year-1 and year-2 from 22.06.2021. But no labour force has been deployed to start schedule maintenance works yet. Both the streams had been started by KRMPL since 18.10.2021 without doing any schedule maintenance works. Now, KRMPL started operating only one stream from 06.12.2021. Housekeeping is not proper and needs improvement.</p>	-
iii	210 MLD STP - Bingawan	Approved	<p>Schedule maintenance works as per approved O&amp;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.</p> <p>Again KRMPL has submitted a letter no. 1887 dated 02.11.2021 for schedule maintenance programme on which we have issued a letter no. 1249 dated 09.11.2021, for making revision and resubmission of schedule maintenance programme year 02 after excluding breakdown maintenance items. KRMPL has not submitted the revised schedule maintenance programme year 02 yet.</p>	-

# 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)
01.12.2021	Un-ethical behavior of KRMPL Site Incharge of 210 MLD Bingawan facilities.	-	01.12.2021 S-1298	-	20	-	-	J.P.Tripathi Satish Sunil Prasoon Pankaj Rohit Ajay Rahul Anuj	1+1+1+1+1+1+1+1+1	-	-	-	Inform UPJN about Un-ethical behavior of KRMPL Site Incharge.
01.12.2021	5 <sup>th</sup> Milestone completion certificate for 15 MLD Unnao STP.	29.11.21 K-1978	01.12.2021 S-1298A	02	20	-	-	Dr. Giridhar Priyesh Satendra Karamveer	1+1+1+1	-	-	-	Request UPJN for necessary action.
02.12.2021	Resubmission of GA, Datasheet and QAP of DG set for 15 MLD Unnao STP.	26.11.21 K-1962	02.12.2021 S-1299	06	20	-	-	Dr. Giridhar Priyesh Satendra Ajay Rahul Karamveer	1+1+1+1+1+1	-	-	-	Recommended for Approval with conditions.
02.12.2021	Recommendation for Approval of GA, Technical datasheet &	23.11.21 K-1950	02.12.2021 S-1300	09	20	-	-	Dr. Giridhar J.P.Tripathi Priyesh Satendra Rohit	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)
	QAP of submersible pump at 05 MLD Shuklaganj.							Rahul Anuj					
02.12.2021	Election scheme, Manual and commissioning plan for Pankha and Unnao STP facilities.	-	02.12.2021 S-1301	00	20	-	-	Dr. Giridhar Satish Satendra Pankaj Ajay Rahul	1+1+1+1+1+1	-	-	-	Request UPJN to direct KRMPL to submit the erection scheme, etc and get approval from PE and UPJN.
02.12.2021	Election scheme, Manual and commissioning plan for Pankha and Unnao STP facilities.	-	02.12.2021 S-1302	00	20	-	-	Dr. Giridhar J.P.Tripathi Sunil Priyesh Anuj Karamveer	1+1+1+1+1+1	-	-	-	Request UPJN to direct KRMPL to submit the erection scheme, etc and get approval from PE and UPJN.
03.12.20	Unnao 15 MLD	-	03.12.20	00	20	-	-	Dr. Giridhar	1+1+1+1	-	-	-	Inspection

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)
21	STP Inspection Report of dated 11 <sup>th</sup> , 12 <sup>th</sup> , 23 <sup>rd</sup> , 24 <sup>th</sup> and 25 <sup>th</sup> November 2021.		21 S-1303					Priyesh Satendra Karamveer					report submitted by PE.
03.12.20 21	Submission of revised IC&A documents for both 5 MLD STP & MPS at Shuklaganj.	1837	03.12.20 21 S-1303A	-	20	-	-	Dr. Giridhar Priyesh Satendra Pankaj Ajay Rahul Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitting our expert's comments.
03.12.20 21	Recommendation for Approval of GA, Technical datasheet & QAP of Valves (1 <sup>st</sup> Lot) at 05 MLD Shuklaganj.	22.11.21 K-1943	03.12.20 21 S-1304	11	20	-	-	Dr. Giridhar Sunil Priyesh Satendra Ajay Rahul Karamveer	1+1+1+1+1+1+1	-	-	-	Vetted and recommended for Approval.
03.12.20 21	Comments on compliance for gas mixing system for 130 MLD STP	02.12.21 K-1979	03.12.20 21 S-1305	01	20	-	-	J.P.Tripathi Pankaj Ajay Rahul Anuj	1+1+1+1+1	-	-	-	PE submitting our comments.

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	Jajmau Phase-1.												
03.12.2021	Observation on installation of RSPH & TEPH pumps at 130 MLD STP Jajmau Phase- 1.	22.11.21 K-RFI	03.12.2021 S-1306	11	20	-	-	J.P.Tripathi Satish Rohit Ajay Rahul Anuj	1+1+1+1+1+1	-	-	-	PE submitting our comments.
03.12.2021	Comments on Piping GAD for new TEPH for 130 MLD STP Jajmau Phase-1.	K-1711	03.12.2021 S-1307	-	20	-	-	Dr. Giridhar J.P.Tripathi Ajay Rahul Anuj	1+1+1+1+1	-	-	-	PE submitting our comments.
04.12.2021	Regarding Submission of Monthly Progress Report Status on 30.11.2021 for 130 MLD Jajmau and IPS facilities.	18.11.21 K-1934	04.12.2021 S-1308	16	20	-	-	J.P.Tripathi Pankaj Ajay Rahul Anuj	1+1+1+1+1	-	-	-	Request UPJN to instruct KRMPL to submit progress report as per achieved progress work done at site.
04.12.2021	Inspection report of UASB	02.12.21 K-RFI	04.12.2021 S-	02	20	-	-	Dr. Giridhar Satish	1+1+1+1	-	-	-	Inspection report

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	Reactor No. 9 at 210 MLD Bingawan STP.		1309					Pankaj Rohit					submitted by PE.
04.12.2021	Comments on GAD, technical data sheet & QAP of Electrical hoist for Chlorine tonner room & TEPH at 130 MLD STP Jajmau Phase-1.	K-1723	04.12.2021 S-1310	-	20	-	-	J.P.Tripathi Sunil Prasoon Ajay Rahul Anuj	1+1+1+1+1+1	-	-	-	PE submitting our comments.
04.12.2021	05 MLD STP Shuklaganj Site inspections Report of dated 9 <sup>th</sup> & 17 <sup>th</sup> November 2021.	-	04.12.2021 S-1311	-	20	-	-	Dr. Giridhar Priyesh Satendra Karamveer	1+1+1+1	-	-	-	Inspection report submitted by PE.
04.12.2021	Comments on Compliance report for supernatant Pumps at 130 MLD STP Jajmau Phase-	K-1677	04.12.2021 S-1312	-	20	-	-	J.P.Tripathi Pankaj Rohit Ajay Rahul Anuj	1+1+1+1+1+1	-	-	-	PE submitting our comments.

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	1												
05.12.2021	Review of revised documents along with compliance report for PLC IO assignment, Basic system architecture, ON-Line Monitoring Scheme for 05 MLD STP Shuklaganj.	-	-	-	20	-	-	Prasoon	1	-	-	-	Under Review.
06.12.2021	Recommendation for Approval of GA, Technical datasheet & QAP of Valves (2 <sup>nd</sup> Lot for IPS & I&D) for 30 MLD STP Pankha.	01.12.21 K-1971	06.12.2021 S-1313	05	20	-	-	Dr. Giridhar J.P.Tripathi A.K.Seth Prasoon Priyesh Satendra Pankaj Rohit Ajay Rahul Anuj	1+1+1+1+1+1+1+1+1+1	-	-	-	Vetted and recommended for Approval.

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
								Karamveer					
07.12.2021	Submission of cost implication for engineering fill at 05 MLD STP at Shuklaganj.	20.11.21 K-1942	-	-	20	-	-	Dr. Giridhar J.P.Tripathi A.K.Seth Prasoon Priyesh Satendra Pankaj Rohit Ajay Rahul Anuj Karamveer	1+1+1+1+1+1+1+1+1+1	-	-	-	Under Review.
08.12.2021	Submission of cost implication for engineering fill at 05 MLD STP at Shuklaganj.	20.11.21 K-1942	08.12.2021 S-1314	18	20	-	-	Dr. Giridhar J.P.Tripathi A.K.Seth Satish Prasoon Priyesh Satendra Pankaj Rohit Ajay Rahul Anuj Karamveer	1+1+1+1+1+1+1+1+1+1	-	-	-	Request UPJN for necessary action.
09.12.2021	Regarding submission of drawing datasheet &	20.11.21 K-1944	09.12.2021 S-1315	19	20	-	-	J.P.Tripathi Prasoon Pankaj Rohit	1+1+1+1+1+1+1	-	-	-	Request to UPJN to direct KRMPL to

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	QAP for Belt filter press (BFP) for approval at 130 MLD STP Jajmau Phase-1.							Ajay Rahul Anuj					submit the compliance ASAP.
09.12.2021	Inspection Report of 30 MLD Pankha STP, inspection done on 07/12/2021.	-	09.12.2021 S-1316	-	20	-	-	Dr. Giridhar A.K.Seth Priyesh Satendra Ajay Rahul Karamveer	1+1+1+1+1+1+1	-	-	-	Inspection report submitted by PE.
09.12.2021	Submission of MPR for the month of November 2021 for NMCG Project.	-	09.12.2021 S-1317	-	20	-	-	Dr. Giridhar J.P.Tripathi Priyesh Satendra Pankaj Rohit Ajay Rahul Anuj Karamveer	1+1+1+1+1+1+1+1+1+1	-	-	-	MPR for the month of November 2021 submit by PE.
10.12.2021	Submission of revised IC&A documents for 30 MLD STP	K-1869	-	-	20	-	-	Dr. Giridhar J.P.Tripathi A.K.Seth Prasoon Priyesh	1+1+1+1+1+1+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)
	and ICI Nallah IPS & Sundar nagar IPS.							Satendra Pankaj Rohit Ajay Rahul Anuj Karamveer					
11.12.2021	Submission of (1) monthly Invoice of construction period for the month of July 2021 to September 2021.	-	11.12.2021 S-1318	-	20	-	-	Dr. Giridhar J.P.Tripathi A.K.Seth Prasoon Priyesh Satendra Pankaj Rohit Ajay Rahul Anuj Karamveer	1+1+1+1+1+1+1+1+1+1	-	-	-	Monthly invoice submit by PE.
12.12.2021	Review of revised documents along with compliance report for PLC IO assignment, Basic system architecture, ON-Line	-	-	-	20	-	-	Prasoon	1	-	-	-	Under Review.

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	Monitoring Scheme, ON-LINE Monitoring System Architecture, instrumentation Cable Schedule for 15 MLD STP Unnao.												
13.12.2021	Submission of GA, Data sheet & QAP for open channel flow meter, Ultrasonic level transmitter, Pressure Switch, Water quality analyzer, conductivity type level switch, DO analyzer & hydrostatic	K-1902	13.12.2021 S-1319	-	20	-	-	Dr. Giridhar A.K.Seth Priyesh Satendra Karamveer	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)
	level transmitter at ICI Nallah IPS and Sundar nagar IPS for 30 MLD Pankha.												
13.12.2021	KPIs adherence report of 42 MLD Sajari STP for the month of October 2021.	06.12.21 K-1985	13.12.2021 S-1320	07	20	-	-	J.P.Tripathi Pankaj Rohit	1+1+1	-	-	-	KPI adherence report has been prepared and submitted for the month of October-2021.
13.12.2021	KPIs adherence report for Bingawan and Sajari for the month of October 2021.	K-1949	13.12.2021 S-1321	-	20	-	-	Dr. Giridhar Pankaj Rohit	1+1+1	-	-	-	Request UPJN to NABL Lab report will be considered in preparing KPIs adherence report.

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
13.12.2021	Submission of revised IC&A documents for 30 MLD STP and ICI Nallah IPS & Sundar nagar IPS.	K-1869	13.12.2021 S-1322	-	20	-	-	Dr. Giridhar Priyesh Satendra Ajay Rahul Karamveer	1+1+1+1+1+1	-	-	-	Recommended for approval.
13.12.2021	Submission of revised IC&A documents for 30 MLD STP.	K-1869	13.12.2021 S-1323	-	20	-	-	Dr. Giridhar Priyesh Satendra Ajay Rahul Karamveer	1+1+1+1+1+1	-	-	-	PE submitting our expert comments.
13.12.2021	Submission of Earthing layout for 130 MLD STP at Jajmau.	27.11.21 K-1965	13.12.2021 S-1324	16	20	-	-	J.P.Tripathi Ajay Rahul Anuj	1+1+1+1	-	-	-	Request to UPJN to direct KRMPL to submit the compliance ASAP.
13.12.2021	Insurance Bingawan and Sajari IAR from Nov. 2020 to Nov. 2021.	24.11.21 K-1958	13.12.2021 S-1325	19	20	-	-	J.P.Tripathi Pankaj Rohit	1+1+1	-	-	-	Request UPJN to instruct KRMPL to resubmit 2 <sup>nd</sup> year IAR policies & submit 3 <sup>rd</sup>

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
													year IAR policies at the earliest.
13.12.2021	Insurance Bingawan and Sajari IAR from Nov. 2020 to Nov. 2021.	24.11.21 K-1958	13.12.2021 S-1325A	19	20	-	-	Dr. Giridhar Pankaj Rohit	1+1+1	-	-	-	Request UPJN to instruct KRMPL to resubmit 2 <sup>nd</sup> year IAR policies & submit 3 <sup>rd</sup> year IAR policies at the earliest.
13.12.2021	Recommendation for approval of GA, technical data sheet & QAP of Gas flaring system for 130 MLD STP Jajmau Phase- 1.	09.12.21 K-1993	13.12.2021 S-1326	04	20	-	-	Dr. Giridhar L.K.Rao Ajay Rahul Anuj	1+1+1+1+1	-	-	-	Recommended for Approval.
13.12.2021	Comments on submersible Mixer GAD,	04.12.21 K-1981	13.12.2021 S-1327	09	20	-	-	Dr. Giridhar A.K.Seth Prasoan	1+1+1+1+1+1	-	-	-	PE submitting our

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	Datasheet, QAP for Thicken Sludge sump & Digested sludge Sump at 130 MLD Jajmau Phase-1.							Ajay Rahul Anuj					comments.
13.12.2021	O&M of 130 & 43 MLD STPs at Jajmau, 42 MLD STP at Sajari and 210 MLD STP at Bingawan	24.11.21 K-1957	13.12.2021 S-1328	19	20	-	-	J.P.Tripathi Pankaj Rohit Ajay Rahul Anuj	1+1+1+1+1+1	-	-	-	Request UPJN to instruct KRMPL to take action.
14.12.2021	Recommendation for approval of GA, technical data sheet & QAP of Gas Scrubber & Ancillary equipment for 130 MLD STP Jajmau Phase-1.	01.12.21 K-1972	14.12.2021 S-1329	13	20	-	-	J.P.Tripathi A.K.Seth Pankaj Rohit Ajay Rahul Anuj Karamveer	1+1+1+1+1+1+1+1	-	-	-	Vetted & recommended for approval.

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
14.12.2021	Recommendation for approval of GA, technical data sheet & QAP of Gas Engine & Ancillary equipment for 130 MLD STP Jajmau Phase-1.	01.12.21 K-1972	14.12.20 21 S-1330	13	20	-	-	Dr. Giridhar A.K.Seth Priyesh Satendra Ajay Rahul Anuj	1+1+1+1+1+1+1	-	-	-	Vetted & recommended for approval.
15.12.2021	Submission of GA, Data sheet & QAP for open channel flow meter, Ultrasonic level transmitter, Pressure Switch, Water quality analyzer, conductivity type level switch, DO analyzer &	K-1926	15.12.20 21 S-1331	-	20	-	-	Dr. Giridhar J.P.Tripathi L.K.Rao Priyesh Satendra Pankaj Rohit Ajay Rahul Anuj Karamveer	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)
	hydrostatic level transmitter for 15 MLD STP at Unnao and 05 MLD STP at Shuklaganj.												
15.12.2021	Submission of revised IC&A documents for 15 MLD STP at Unnao.	K-1867	15.12.2021 S-1332	-	20	-	-	Dr. Giridhar Priyesh Satendra Ajay Rahul	1+1+1+1+1	-	-	-	Recommended for Approval.
15.12.2021	Submission of revised SBR PLC Documents for 30 MLD STP Pankha.	14.12.21 K-2006	15.12.2021 S-1333	01	20	-	-	Dr. Giridhar Priyesh Satendra Ajay Rahul	1+1+1+1+1	-	-	-	Recommended for Approval.
15.12.2021	Submission of revised SBR PLC Documents for 15 MLD STP Unnao and 5 MLD STP Shuklaganj.	14.12.21 K-2007	15.12.2021 S-1334	01	20	-	-	Dr. Giridhar Priyesh Satendra Ajay Rahul Karamveer	1+1+1+1+1+1	-	-	-	Recommended for Approval.
15.12.2021	Tests to be conducted at	K-1898	15.12.2021 S-	-	20	-	-	J.P.Tripathi A.K.Seth Pankaj	1+1+1+1	-	-	-	Request UPJN to





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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
								Rahul Anuj Karamveer					
21.12.2021	Recommendation of approval for Vendor of Belt filter Press & Gas dome (Membrane type) for HAM Kanpur Project.	18.12.21 J-2730/w-3/253	-	-	20	-	-	Dr. Giridhar J.P.TripathiA.K.Seth Prasoon Satish L.K.Rao Priyesh Satendra Pankaj Rohit Ajay Rahul Anuj Karamveer	1+1+1+1+1+1+1+1+1+1+1+1	-	-	-	Under Review.
22.12.2021	Comments on submersible mixer for 130 MLD STP Jajmau Phase-1.	16.12.21 K-2016	-	-	20	-	-	Dr. Giridhar J.P.TripathiA.K.Seth L.K.Rao Priyesh Satendra Pankaj Rohit Ajay Rahul Anuj Karamveer	1+1+1+1+1+1+1+1+1+1+1	-	-	-	Under Review.
23.12.20	Monthly	08.12.21	-	-	20	-	-	Dr. Giridhar	1+1+1+1+1+1+1+1+1+1+1	-	-	-	Under

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
21	activity report of 130 MLD Jajmau facilities for the month of Nov- 2021.	K-1989						J.P.Tripathi A.K.Seth Satish Prasoon Sunil L.K.Rao Priyesh Satendra Pankaj Rohit Ajay Rahul Anuj Karamveer	1+1+1				Review.
24.12.2021	Observation on Monthly activity report of 130 MLD Jajmau facilities for the month of Nov- 2021.	08.12.21 K-1989	24.12.20 21 S- 1338A	16	20	-	-	Dr. Giridhar J.P.Tripathi Sunil Ajay Rahul Anuj Karamveer	1+1+1+1+1+1+1	-	-	-	Directed KRMPL to resubmit the monthly performance report for November 2021 incorporating the said points.
24.12.2021	Observation on Monthly activity report of 43 MLD	08.12.21 K-1991	24.12.20 21 S- 1339	16	20	-	-	Dr. Giridhar L.K.Rao Priyesh Satendra Ajay	1+1+1+1+1+1+1	-	-	-	Directed KRMPL to resubmit the monthly

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	Jajmau Phase II for the month of Nov-2021.							Rahul Anuj					performance report for November 2021 incorporating the said points.
24.12.2021	Inspection report of associated works of 42 MLD Sajari STP (IPS Chakeri and Sanigawan) for the inspection done on 14.12.2021.	-	24.12.2021 S-1340	-	20	-	-	Dr. Giridhar J.P.Tripathi Pankaj Rohit	1+1+1+1	-	-	-	Inspection report Submitted by PE.
24.12.2021	Inspection report of 210 MLD Bingawan facilities, inspection done on 16.12.2021.	-	24.12.2021 S-1341	-	20	-	-	J.P.Tripathi L.K.Rao Pankaj Rohit	1+1+1+1	-	-	-	Inspection report Submitted by PE.
24.12.2021	Comments on Observation on Monthly	13.12.21 K-2003	24.12.2021 S-1342	11	20	-	-	Dr. Giridhar Pankaj Rohit	1+1+1	-	-	-	Comments on MAR submitting

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)
	activity report of 42 MLD Sajari facilities for the month of October-2021.												by PE.
24.12.2021	Observation on Monthly activity report of 210 MLD Bingawan facilities for the month of November-2021.	13.12.21 K-1990	24.12.2021 S-1343	11	20	-	-	J.P.Tripathi Pankaj Rohit	1+1+1	-	-	-	Directed KRMPL to resubmit the monthly performance report for November 2021 incorporating the said points.
24.12.2021	Observation on Monthly activity report of 42 MLD Sajari facilities for the month of November-2021.	13.12.21 K-1992	24.12.2021 S-1344	11	20	-	-	Dr. Giridhar J.P.Tripathi Pankaj Rohit	1+1+1+1	-	-	-	Directed KRMPL to resubmit the monthly performance report for November 2021 incorporating the said points.

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)
25.12.2021	Christmas (Holiday)												
26.12.2021	Sunday												
27.12.2021	Inspection Report of 43 MLD IPS facilities Phase II, Inspection done on 15/12/2021 and 21/12/2021.	-	27.12.2021 S-1345	-	20	-	-	Dr. Giridhar J.P.Tripathi L.K.Rao Ajay Rahul Anuj	1+1+1+1+1+1	-	-	-	Inspection report Submitted by PE.
27.12.2021	Inspection Report of 43 MLD STP Jajmau Phase II, Inspection done on 10 <sup>th</sup> , 16 <sup>th</sup> , 20 <sup>th</sup> and 21 <sup>st</sup> December 2021.	-	27.12.2021 S-1346	-	20	-	-	Dr. Giridhar J.P.Tripathi Satendra Ajay Rahul Anuj Karamveer	1+1+1+1+1+1+1	-	-	-	Inspection report Submitted by PE.
27.12.2021	Inspection report of 130 MLD Jajmau Facilities	-	27.12.2021 S-1347	-	20	-	-	Dr. Giridhar Priyesh Ajay Rahul	1+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)
	Phase- I IPS, inspection done on 15/12/2021 and CSPS inspection date on 16/12/2021.							Anuj Pankaj Rohit Karamveer					
27.12.2021	Inspection Report of 130 MLD STP Jajmau Phase-I, Inspection done on 10/12/2021 and 20/12/2021.	-	27.12.2021 S-1348	-	20	-	-	J.P.Tripathi L.K.Rao Ajay Rahul Anuj	1+1+1+1+1	-	-	-	Inspection report Submitted by PE.
28.12.2021	Bioremediation for 130 MLD STP at Jajmau Phase-1.	24.12.21 K-2038	28.12.2021 S-1350	04	20	-	-	Dr. Giridhar Ajay Rahul Anuj	1+1+1+1	-	-	-	PE submitting our comments.
28.12.2021	IAR policy for Bingawan and Sajari from Nov. 2021 to Nov. 2022.	14.12.21 K-2009	28.12.2021 S-1351	14	20	-	-	J.P.Tripathi L.K.Rao Pankaj Rohit	1+1+1+1	-	-	-	Request UPJN to instruct KRMPL to resubmit 2 <sup>nd</sup> year IAR policies &

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)
													resubmit 3 <sup>rd</sup> year IAR policies at the earliest.
28.12.2021	Request for Inspection (RFI) for Digester no. 2 at Sajari STP.	27.12.21 K-2039	28.12.2021 S-1352	01	20	-	-	Dr. Giridhar Pankaj Rohit	1+1+1	-	-	-	Request UPJN to Instruct KRMPL to submit the drawing and reports as early as possible.
28.12.2021	Comments on submersible mixer for 130 MLD STP Jajmau Phase-1.	16.12.21 K-2016	28.12.2021 S-1353	12	20	-	-	Dr. Giridhar Ajay Rahul Anuj	1+1+1+1	-	-	-	PE submitting our comments.
28.12.2021	Comments on Credential of Belt filter Press and Gas Dome/holder (membrane type) for 130 MLD STP Jajmau Phase-	16.12.21 K-2017	28.12.2021 S-1354	12	20	-	-	J.P.Tripathi Ajay Rahul Anuj	1+1+1+1	-	-	-	PE submitting our 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)
	1.												
28.12.2021	Submission of Internal illumination drawing & documents for 25 MLD ICI Nallah IPS & 20 MLD Sundar nagar IPS.	15.12.21 K-2013	28.12.2021 S-1355	13	20	-	-	Dr. Giridhar Priyesh Satendra	1+1+1	-	-	-	Recommended for approval with conditions.
28.12.2021	Recommendation for approval of typical Sketch for trenchless work 15 MLD STP Unnao.	28.12.21 K-2045	28.12.2021 S-1356	-	20	-	-	Dr. Giridhar Priyesh Satendra Karamveer	1+1+1+1	-	-	-	Vetted and recommended for approval.
29.12.2021	Recommendation for approval of billing breakup for trenchless work 15 MLD STP Unnao.	K-1987	29.12.2021 S-1357	-	20	-	-	Dr. Giridhar L.K.Rao Priyesh Satendra Karamveer	1+1+1+1+1	-	-	-	Vetted and recommended for approval.
29.12.2021	Submission of Revised C&I documents for	22.12.21 K-2031	29.12.2021 S-1358	07	20	-	-	Dr. Giridhar Priyesh Satendra	1+1+1+1	-	-	-	Recommended for approval.

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	05 MLD STP & MPS at Shuklaganj facility.							Karamveer					
29.12.2021	Estimation of the fencing work around the Mazzar area within the premise of Bingawan STP.	K-1882	29.12.2021 S-1359A	-	20	-	-	Dr. Giridhar J.P.Tripathi Pankaj Rohit	1+1+1+1	-	-	-	Inform UPJN estimation is not within scope of the CA and STC to review.
29.12.2021	Comments on revised documents for supernatant pumps at 130 MLD STP Jajmau Phase-1.	22.12.21 K-2035	29.12.2021 S-1360	07	20	-	-	Dr. Giridhar J.P.Tripathi Ajay Rahul Anuj	1+1+1+1+1	-	-	-	Request UPJN to direct KRMPPL to complying each comments of STC Process Expert letter no. 1312.
30.12.2021	Inspection report of 42 MLD Sajari facilities, inspection done on	28.12.21 K-2041	30.12.2021 S-1361	02	20	-	-	J.P.Tripathi L.K.Rao Pankaj Rohit	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)
	21.12.2021 & 22.12.2021.												
30.12.2021	Recommendation of approval for Vendor of Belt filter Press & Gas dome (Membrane type) for HAM Kanpur Project.	18.12.21 J-2730/w-3/253	30.12.2021 S-1362	12	20	-	-	Dr. Giridhar Priyesh Prason Satendra Ajay Rahul Anuj Karamveer	1+1+1+1+1+1+1+1	-	-	-	Recommended for approval.
30.12.2021	Inspection report of associated works of 210 MLD Bingawan STP (IPS Rakhimandi, Munsipurwa and Halwakanda) for the inspection done on 14.12.2021 & 29.12.2021.	-	30.12.2021 S-1364	-	20	-	-	J.P.Tripathi L.K.Rao Pankaj Rohit	1+1+1+1	-	-	-	Inspection report Submitted by PE.
31.12.20	Regarding	30.12.21	31.12.20	01	20	-	-	J.P.Tripathi	1+1+1+1+1+1	-	-	-	Request

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)
21	O&M Manual for 43 MLD STP Jajmau Phase-II.	K-email	21 S-1363					Pankaj Rohit Ajay Rahul Anuj					UPJN to instruct KRMPL to submit the required documents.
31.12.20 21	05 MLD STP Shuklaganj Site inspection Report of dated 27 <sup>th</sup> Dec- 2021.	-	31.12.20 21 S-1365	-	20	-	-	Dr. Giridhar L.K.Rao Priyesh Satendra Karamveer	1+1+1+1+1	-	-	-	Inspection report Submitted by PE.
31.12.20 21	Meeting cum inspection for 15 MLD STP and I&D Structure at Unnao.	-	31.12.20 21 S-1366	-	20	-	-	Dr. Giridhar Satish L.K.Rao Priyesh Satendra Karamveer	1+1+1+1+1+1	-	-	-	Request UPJN to direct KRMPL officials to join the meeting with relevant information and records.

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

<b>SN</b>	<b>Name</b>	<b>Designation</b>	<b>Total Man-days</b>	<b>Input</b>
1.	Dr. Giri Prabhu Kumar	Team Leader cum waste water expert	31	Timesheet attached
2.	Mr. Jai Prakash Tripathi	O&M Engineer	31	Timesheet attached
3.	Mr. Anil Kumar Seth	Senior Electrical Engineer	18	Timesheet attached
4.	Mr. Satish kamaraju PE	Senior Process Engineer	08	Timesheet attached
5.	Mr. Sunil Basutkar	Senior Mechanical Engineer	07	Timesheet attached
6.	Mr. Prasoon Bhardwaj	Instrumentation Engineer	14	Timesheet attached
7.	Mr. Linga Krishna Rao	Safety expert	19	Timesheet attached

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## **Annexure 2: Timesheets of Experts**

(Attached Separately)

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**Annexure 3.1: Inspection Report of 130 MLD Jajmau STP I**

(Attached Separately)

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**Annexure 3.2: Inspection Report of 130 MLD All IPS & CSPA**

(Attached Separately)

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**Annexure 3.3: NABL Report of 130 MLD Jajmau STP I**

(Attached Separately)

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**Annexure 3.4: KPI Report – 130 MLD STP**

(Attached Separately)

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**Annexure 4.1: Inspection Report 43 MLD Jajmau STP II**

(Attached Separately)

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**Annexure 4.2: Inspection Report 43 MLD Jajmau II IPS Facilities**

(Attached Separately)

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**Annexure 4.3: NABL Report 43 MLD Jajmau II**

(Attached Separately)

**Annexure 4.4: KPI Report 43 MLD Jajmau II**

(Attached Separately)

**Annexure 5.1: Inspection Report 210 MLD Bingawan**

(Attached Separately)

**Annexure 5.2: Inspection Report 210 MLD Bingawan IPS Facilities**

(Attached Separately)

**Annexure 5.3: 210 MLD Bingawan KPI**

(Attached Separately)

**Annexure 5.4: SPECTRO Report 210 MLD Bingawan (13<sup>th</sup> Nov. 2021)**

(Attached Separately)

**Annexure 5.5: SPECTRO Report 210 MLD Bingawan (6<sup>th</sup> Nov. 2021)**

(Attached Separately)

**Annexure 6.1: Sajari STP Inspection Report**

(Attached Separately)

**Annexure 6.2: Sajari IPS Inspection Report**  
(Attached Separately)

**Annexure 6.3: Sajari KPI Report**

(Attached Separately)

**Annexure 6.4: Sajari SPECTRO Report (6<sup>th</sup> Nov. 2021)**

(Attached Separately)

**Annexure 6.5: Sajari SPECTRO Report (21<sup>st</sup> Nov. 2021)**

(Attached Separately)

**Annexure 7: Pankha Inspection Report**

(Attached Separately)

**Annexure 8: Unnao Inspection Report**

(Attached Separately)

**Annexure 9: Shuklaganj Inspection Report**

(Attached Separately)

