

**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**

**JANUARY - 2022**



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## ABBREVIATIONS

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

## MONTHLY PROGRESS REPORT – HAM KANPUR

### 1. INTRODUCTION

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

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

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

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

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

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

## 2. HYBRID ANNUITY MODEL (HAM)

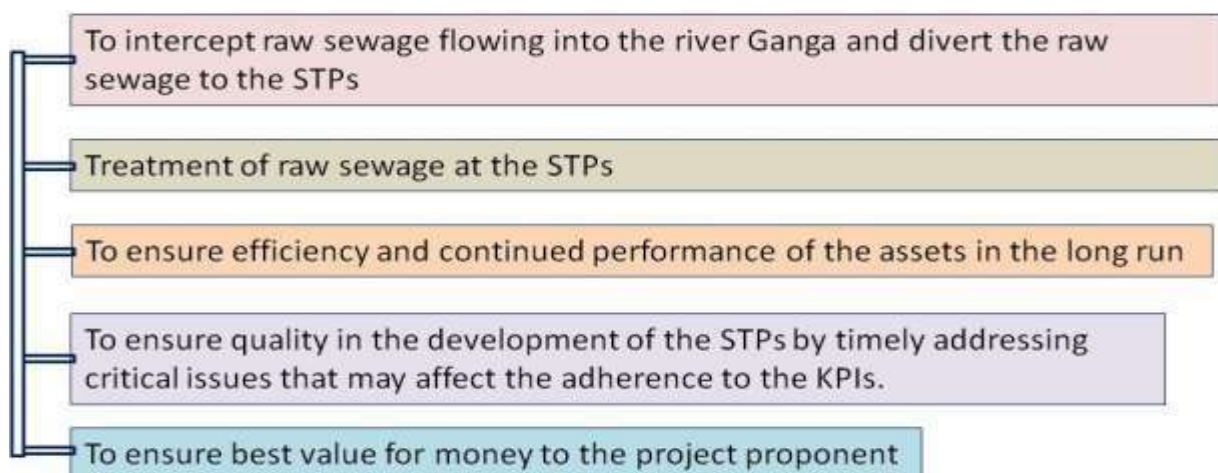
Government of India has approved the Namami Gange program as an integrated approach for effective abatement of pollution in river Ganga and Yamuna. As part of this and to ensure that no untreated domestic sewage flow into the river Ganga and Yamuna, various interventions are planned such as Interception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

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

NMCG & UPJN appointed M/s. Shah Technical Consultant Pvt. Ltd., as third party engineering firm as Project Engineer for this project through tendering process. Letter of Award is issued dated 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-φ	6.450 km
9	Rising main (Sundar Nagar IPS to collection chamber)	800mm-φ	0.547 km
10	Common Gravity main (collection chamberto MPS)	2000mm- φ	1.948Km
11	Sewer network	16.624 km	
		350mm-φ	2.258 km
		400 mm-φ	0.611 km
		450 mm-φ	0.704 km
		500 mm-φ	0.718 km
		600 mm-φ	1.046 km
		700 mm-φ	1.079 km
		800 mm-φ	3.226 km
		900 mm-φ	1.171 km
		1000 mm- φ	0.060 km
		1200 mm-φ	2.290 km
		1600 mm-φ	1.635 km
		2000 mm-φ	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. KRMPL has requested 6 months EOT as per GOI order till 25.04.2022 due to hindrances in works caused by COVID 1<sup>st</sup> and 2<sup>nd</sup> wave. EOT has been recommended by PE and UPJN for proposed date. Status and progress of Pankha STP is as following:



- Till Jan 2022 overall progress is approx 81% out of target of 100%. During Jan 2022, manpower deployed at the site was in the range of 200-250. 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);

- Status of progress of different STP units till Jan. 2022 are as following:

STP Units	Target %	Achieved %
I&D structure (Thermal nala 50%)	100%	95%
Sewer Laying (12.9 km of 16.624)	100%	77%
Manholes (221 completed of 308)	100%	72%
Rising Main (1.78 km of 7 km)	100%	25%
MPS	100%	88%
PTU	100%	90%
SBR	100%	90%
Air Blower	100%	85%
CCT	100%	93%
Chlorination Room	100%	90%
Supernatant Sump	100%	94%
Sludge Thickener	100%	98%
Centrifuge Building	100%	85%
Effluent Disposal System	100%	95%
Admin Building	100%	85%
Staff Quarter	100%	85%
Guard Room	100%	85%
Transformer Yard	100%	88%
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 31.01.2022		
				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	12,45,28,603	12.50%	12.47%
5th Milestone	01.08.2021	<b>06.09.2021</b> <b>36 days LD</b>	12,48,39,750.00	11,80,56,537	12.50%	11.82%
6th milestone	01.09.2021	<b>06.12.2021</b> <b>96 days LD</b>	12,48,39,750.00	9,95,07,528	12.5%	9.96%
7th milestone	25.09.2021	Not completed	12,48,39,750.00	9,33,18,030	12.5%	9.34%
8th milestone	25.10.2021	Not completed	12,48,39,750.00	2,72,44,335	12.5%	2.73%
<b>Overall Progress</b>	<b>99,87,18,000.00</b>			83,747,4283	100%	81%
<b>Total %</b>	<b>100.00%</b>				100%	<b>81%</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

SN	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.)
A	Design & Drawing & STP & Sewer Laying works												
B	CONSTRUCTION												-
	STP (30 MLD)												-
1	SBR Basin Area												-
	CIVIL WORK				-				-				-
	Finishing Work		-		-	30%	43,78,800	30%	43,78,800	70%	102,17,200	10%	14,59,600
	MECHANICAL WORK				-				-				-
	A. DECANTERS				-				-				-
	(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. DIFFUSERS				-				-				-
	(ii) On completion of erection works				-		-		-	100%	24,59,600	50%	12,29,800
	(iii) On completion of Testing of equipment				-				-	100%	12,29,800		-
					-				-				-
	C. RAS & SAS PUMPS				-				-				-
	(iii) On completion of Testing of equipment				-				-	100%	12,29,800		-
					-				-				-
	D. PIPES & FITTINGS				-				-				-



SN	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.)
	(ii) On completion of erection works				-	100 %	12,29,800	80 %	9,83,840				-
	(iii) On completion of Testing of equipment				-				-	100 %	6,14,900		-
2	<b>Chlorine Contact Tank Area</b>				-				-				-
	Finishing Work	100%	27,67,050	80%	22,13,640		-		-		-		-
3	<b>Chlorination House Area</b>				-				-				-
	<b>CIVIL WORK</b>				-				-				-
	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	90%	28,22,391				-				-
	(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>				-				-				-
	(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	50%	7,83,998				-				-
	(ii) On completion of erection works				-	100 %	1,84,470		-				-
	(iii) On completion of Testing of equipment				-				-	100 %	92,235		-

SN	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.)
4	<b>Sludge Thickener Area</b>				-				-				-
	<b>CIVIL WORK</b>				-				-				-
	Finishing Work	100%	18,44,700	90%	16,60,230		-		-		-		-
	<b>MECHANICAL WORK</b>				-				-				-
	<b>SLUDGE THICKENER MECHANISM</b>				-				-				-
	(iii) On completion of Testing of equipment	100%	2,76,705		-				-				-
5	<b>Inlet / Stilling Chamber Area</b>				-				-				-
	Final finishing including Staircases,Railing,Shade,Painting, etc.	100%	12,29,800	80%	9,83,840		-		-		-		-
6	<b>Manual &amp; Mechanical Fine Bar Screen Chamber Area</b>				-				-				-
	Finishing Work		-		-	20%	2,45,960	20%	2,45,960	80%	9,83,840	60%	7,37,880
7	<b>Grit Chamber (Mechanical Cleaned) &amp; (Manually Cleaned)</b>				-				-				-
	Finishing Work		-		-		-		-	100%	12,29,800	80%	9,83,840
	<b>MECHANICAL WORK</b>				-				-				-
	<b>A.MECHANICAL FINE SCREEN</b>				-				-				-
	(ii) On completion of erection works				-	100%	2,45,960		-				-
	(iii) On completion of Testing of equipment				-				-	100%	1,22,980		-
	<b>B.MANUAL FINE SCREEN</b>				-				-				-
	(iii) On completion of Testing of equipment				-				-	100%	1,84,470		-
	<b>C.GATES</b>				-				-				-
	(iii) On completion of Testing of equipment				-				-	100%	1,22,980		-
	<b>D.CONVEYOR BELTS</b>				-				-				-

SN	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.)
	(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>				-				-				-
	(ii) On completion of erection works				-	100 %	6,14,900		-				-
	(iii) On completion of Testing of equipment				-				-	100 %	3,07,450		-
					-				-				-
8	<b>Flow Measurement Channel Area</b>				-				-				-
	Finishing Work		-		-	20%	4,91,920	20 %	4,91,920	80%	19,67,680	60 %	14,75,760
9	<b>Admin Bldg Area</b>				-				-				-
	Brickwork & Plaster	50%	13,83,525	50%	13,83,525	50%	13,83,525	48 %	13,28,184		-		-
	Finishing Work		-		-		-		-	100 %	18,44,700		-
	<b>ELECTRICAL WORK</b>				-				-				-
	<b>LT/HT PANEL</b>				-				-				-
	(ii) On completion of erection works				-				-	100 %	13,03,410	80 %	10,42,728
	(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		-

SN	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.)
					-				-				-
10	<b>Air Blower Room Area</b>				-				-				-
	Brickwork & Plaster	25%	3,84,313	25%	3,84,313	25%	3,84,313	25%	3,84,313	50%	7,68,625	40%	6,14,900
	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	30%	11,75,996				-
	(ii) On completion of erection works				-				-	100%	4,61,175	30%	1,38,353
	(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	30%	15,67,995
	(ii) On completion of erection works				-				-	100%	6,14,900	30%	1,84,470
	(iii) On completion of Testing of equipment				-				-	100%	3,07,450		-
11	<b>Staff Quarter Area</b>				-				-				-
	Brickwork & Plaster		-		-	40%	3,44,344	40%	3,44,344	60%	5,16,516	55%	4,73,473
	Electrical work		-		-	25%	3,22,823		-	75%	9,68,468		-
	Finishing Work		-		-		-		-	100%	8,60,860		-
12	<b>Guard Room Area</b>				-				-				-
	Electrical work		-		-	100%	5,53,410		-		-		-

SN	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		-		-	40%	1,47,576		-	60%	2,21,364		-
13	<b>Sludge Dewatering System Area (Centrifuge Pump House, Sludge sump &amp; Poly dosing tank)</b>				-				-				-
	Brickwork & Plaster		-		-	100 %	30,74,500	80 %	24,59,600		-		-
	Finishing Work		-		-		-		-	100 %	30,74,500		-
	<b>MECHANICAL WORK</b>				-				-				-
	<b>CENTRIFUGE UNIT</b>				-				-				-
	(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>				-				-				-
	(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>				-				-				-
	(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>				-				-				-
	Final finishing including Staircases,Railing,Shade,Painting etc.	100%	18,44,700	80%	14,75,760		-		-		-		-
	<b>MECHANICAL WORK</b>				-				-				-
	<b>PUMPING SYSTEM</b>				-				-				-
	(iii) On completion of Testing of equipment				-				-	100 %	3,22,823		-
					-				-				-

SN	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.)
15	<b>Transformer Yard Area</b>				-				-				-
	Site Clearance		-		-		-		-		-		-
	Finishing Work	100%	7,37,880		-		-		-		-		-
	<b>ELECTRICAL WORK</b>				-				-				-
	<b>TRANSFORMER</b>				-				-				-
	(ii) On completion of erection works				-	100%	3,68,940		-				-
	(iii) On completion of Testing of equipment				-		-		-	100%	1,84,470		-
	<b>CABLE &amp; CABLE TRAY</b>				-				-				-
	(ii) On completion of erection works				-	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		-				-
	(iii) On completion of Testing of equipment				-	100%	1,93,694		-				-
	<b>CABLE &amp; CABLE TRAY</b>				-				-				-

SN	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.)
	(ii) On completion of erection works				-	100 %	1,93,694		-				-
	(iii) On completion of Testing of equipment				-		-		-	100 %	96,847		-
17	<b>Sludge Storage Platform</b>				-				-				-
	Site Clearance		-		-		-		-		-		-
	Foundation Work		-		-		-		-		-		-
	Finishing work	100%	1,00,000		-		-		-		-		-
18	<b>EXTERNAL DEVELOPMENT</b>				-				-				-
A.	Roads, Storm Water Drain & Miscellaneous work		-		-	40%	50,40,000	40 %	50,40,000	60%	75,60,000		-
B.	<b>Compound Wall with Gate</b>		-		-		-		-		-		-
	Brickwork & Plaster	10%	6,14,900	10%	6,14,900	10%	6,14,900	5%	3,07,450		-		-
	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>		-		-		-		-		-		-
B	<b>Construction of Inlet Chamber &amp; Screen Channel</b>		-		-		-		-		-		-
C	<b>Construction of Raw Sewage Pump House</b>		-		-		-		-		-		-
	Brickwork & Plaster		-		-	100 %	15,98,025	50 %	7,99,013		-		-
	Finishing Work		-		-		-		-	100 %	15,98,025		-
D	<b>MECHANICAL WORK</b>		-		-		-		-		-		-
	<b>Coarse Screen mechanical &amp; manual</b>		-		-		-		-		-		-
	(ii) On completion of erection works				-				-	100 %	5,32,675		-
	(iii) On completion of Testing of equipment				-				-	100	2,66,338		-

SN	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>		-		-				-				-
	(iii) On completion of Testing of equipment				-				-	100 %	2,66,338		-
	<b>Gate Work</b>		-		-				-				-
	(iii) On completion of Testing of equipment				-				-	100 %	3,72,873		-
	<b>Pumps</b>		-		-				-				-
	(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>		-		-		-		-		-		-
	Column & Beam	75%	19,17,000	15%	3,83,400		-		-		-		-
	Ground Floor Slab	100%	25,56,000		-		-		-		-		-
	Finishing Work		-		-	100 %	12,78,000		-		-		-
B	<b>Construction of Inlet Chamber &amp; Screen Channel</b>		-		-		-		-		-		-
	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		-



SN	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>		-		-		-		-		-		-
	RCC Foundation/column footing	100%	6,39,000	50%	3,19,500		-		-		-		-
	Column & Beam	100%	2,13,000		-		-		-		-		-
	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>		-		-		-		-		-		-
	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>		-		-		-		-		-		-
	<b>Piping &amp; Support work</b>		-		-		-		-		-		-

SN	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.)
	(ii) On completion of erection works				-				-	100 %	1,06,535		-
	(iii) On completion of Testing of equipment				-				-	100 %	53,268		-
	<b>Screen Channel</b>		-		-				-		-		-
	(ii) On completion of erection works				-				-	100 %	3,40,912		-
	(iii) On completion of Testing of equipment				-				-	100 %	1,70,456		-
	<b>Pumps</b>		-		-				-		-		-
	(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		-
	(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		-

SN	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.)
	(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 %	-		-
	Excavation & PCC		-		-	70%	2,23,724	50 %	1,59,803		-		-
	RCC Column footing		-		-	100 %	4,26,140	70 %	2,98,298		-		-
	RCC Column & Beam		-		-	100 %	3,19,605	70 %	2,23,724		-		-
	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>		-		-		-		-		-		-
	Column & Beam	30%	7,66,800		-		-		-		-		-
	Ground Floor Slab	100%	25,56,000		-		-		-		-		-
	Finishing Work		-		-	100 %	12,78,000		-		-		-
B	<b>Construction of Inlet Chamber &amp; Screen Channel</b>		-		-		-		-		-		-
	Walkway/Platform	100%	2,13,000		-		-		-		-		-
	Finishing work		-		-	100 %	2,13,000		-		-		-
C	<b>Construction of Raw Sewage Pump House</b>		-		-		-		-		-		-
	Column & Beam	100%	7,99,013		-		-		-		-		-

SN	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.)
	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		-		-		-		-		-		-
	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		-		-		-		-		-		-
	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		-
	Finishing work		-		-		-		-	100 %	2,13,000		-
F	<b>Transformer Yard,DG Yard</b>		-		-		-		-		-		-

SN	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.)
	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>		-		-				-				-
	(ii) On completion of erection works				-				-	100 %	1,27,842		-
	(iii) On completion of Testing of equipment				-				-	100 %	63,921		-
	<b>Screen Channel</b>		-		-				-		-		-
	(ii) On completion of erection works				-				-	100 %	3,40,912		-
	(iii) On completion of Testing of equipment				-				-	100 %	1,70,456		-
	<b>Pumps</b>		-		-				-		-		-
	(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				-		-		-	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		-

SN	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>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		-		-		-
	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>		-		-		-		-		-		-
	Tapping of Nallahs	55%	6,11,600		-		-		-		-		-
	Electro-Mechanical work	50%	8,34,000	50%	8,34,000	50%	8,34,000	30 %	5,00,400		-		-

SN	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.)
	Testing		-		-		-		-	100 %	5,56,000		-
B	<b>Thermal Nala -A</b>		-		-		-		-		-		-
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	50 %	8,34,000	50%	8,34,000	30 %	5,00,400
	Testing		-		-		-		-	100 %	5,56,000		-
23	<b>Rising Main Works</b>				-				-				-
A	<b>ICI Nala Area</b>		-		-		-		-		-		-
	Site Cleance from Client		-		-		-		-		-		-
	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		-		-		-		-		-		-
	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				-	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	3%	3,00,852
	Manholes	20%	20,05,678	20%	20,05,678	20%	20,05,678	20 %	20,05,678	25%	25,07,098		-

SN	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.)
	Testing	20%	20,05,678		-	30%	30,08,518		-	50%	50,14,196		-
	Road Restoration work		-		-	35%	35,09,937	35%	35,09,937	65%	65,18,455		-
25	Design ,Supply,Testing & Commissioning of Sewer line (crossing National Highway-2 & Railway Track)				-				-				-
	Statutory approvals from Railway & Road dept		-		-		-		-		-		-
	Testing		-		-	27%	2,57,205	27%	2,53,088	73%	6,76,400	23%	2,15,593
26	Design ,Supply,Testing & Commissioning of Treated Effluent line from STP to River Pandu				-				-				-
	Site Clearance		-		-		-		-		-		-
	<b>TRIAL RUN &amp; COMMISSIONING</b>												
	Trial Run & Commissioning												
	<b>Total Amount</b>		<b>1248,39,750</b>		<b>995,07,528</b>		<b>1248,39,750</b>		<b>933,18,030</b>		<b>1248,39,750</b>		<b>272,44,335</b>



**PHOTOGRAPHS OF PANKHA STP SITE****MPS final works****MPS pump installation**



PLC works



Thermal Nala A Gate Installation





**PTU construction works**



**2 nos. Blower Installation**



**SBR basin 1 works**

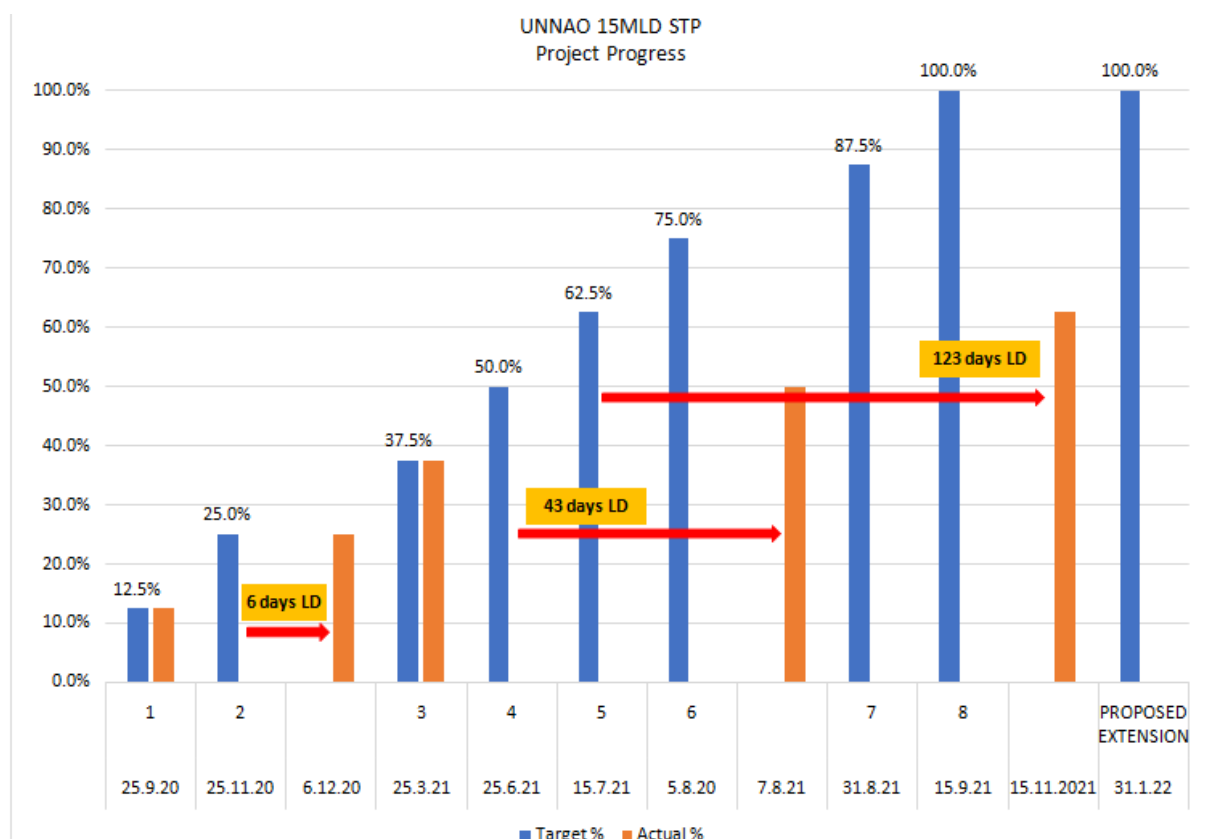


**SBR Basin 2 works**

## 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. Status and progress of Unnao STP is as following:

- Total progress till Jan 2022 is only 65% against the target of 100%. During Jan 2022, 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;
- 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</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.
- KRMPL requested 6 months EOT as per GOI order till 15.03.2022 due to hindrances in works caused by COVID 1st and 2nd wave. In the EE Unnao meeting dated 27.01.2022, KRMPL again requested to provide extra time till 30.05.2022 to complete the extra works (variation) activities for 230m trenchless sewer laying and STP campus backfilling. EOT is in under review and discussion with PE and UPJN for proposed date.



- In EE, Unnao meeting followed by STP progress inspection at the site on dated 27.01.2022, it was noticed that maximum civil structures are 85-90% ready. With E&M erection and installation, plant could be completed for operation by 15/04/2022. Only

STP campus backfilling permission from DM office is pending. UPJN is pursuing the matter for early permission.

- 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;
- Approx 2800m 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 Jan 2022 are as following:

STP Units	Target %	Achieved %
I&D structure	100%	60%
Sewer Laying (2.6 km of 3.6km)	100%	80%
Manholes (04 completed of 46)	100%	8%
MPS	100%	85%
PTU	100%	20%
SBR	100%	85%
Air Blower	100%	80%
CCT	100%	90%
Chlorination Room	100%	90%
Supernatant Sump	100%	90%
Sludge Thickener	100%	90%
Centrifuge Building	100%	80%
Effluent Disposal System	100%	75%
Admin Building	100%	90%
Staff Quarter	100%	90%
Guard Room	100%	90%
Transformer Yard	100%	75%
DG Set	100%	50%
Boundary Wall	100%	85%

### SUMMARY OF OVERALL PROGRESS AT UNNAO STP

Milestone	Schedule Completion date	Actual completion date	Milestone Amount (Rs.)	Targeted Progress till 31.01.2022		
				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	4,44,45,832.95	12.50%	11.38%
5th Milestone	15.07.2021	15.11.2021 <b>123 days LD</b>	4,78,36,250.00	3,37,83,538.10	12.50%	8.83%
6th milestone	05.08.2021	Not completed	4,78,36,250.00	2,53,10,738.35	12.5%	6.61%
7th milestone	31.08.2021	Not completed	4,78,36,250.00	18,82,740.89	12.5%	0.49%
8th milestone	15.09.2021	Not completed	4,78,36,250.00	8,375.00	12.5%	0.0%
<b>Overall Progress</b>	<b>38,26,90,000.00</b>			<b>2489,39,975.29</b>	<b>100%</b>	<b>65%</b>
<b>Total %</b>	<b>100.00%</b>				<b>100%</b>	<b>65%</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**

SN	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
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		-				-						
40	Walls (balance 50% of Total Lift work)		-				-				-		-
11	Walkway/Platform		-				-				-		-
12	Piping & fitting works	100 %	21,96,910.08				-				-		-
13	Testing /Finishing works		-			50%	18,40,000.00			50%	18,40,000.00		-
ii	<b>Sludge Thickener Area</b>												
1	Site Clearance		-				-				-		-



SN	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
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		-				-				-		-
iii	<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		-				-				-		-
iv	<b>Chlorination Tank Area</b>												
1	Site Clearance		-				-				-		-
2	Excavation		-				-				-		-

SN	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
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				-				-		-

SN	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
11	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		-				-				-		-
10	Plaster		-				-				-		-
11	Plumbing, fixtures , sanitary works, AC work	100 %	67,000.00				-				-		-
12	Electrification work		-			100 %	33,500.00				-		-
13	Finishing works		-				-			100%	33,500.00	25 %	8,375.00
vii	<b>Guard Room Area</b>												
1	Site Clearance		-				-				-		-

SN	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
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		-				-				-		-
viii	<b>Chlorination Room Area</b>												
1	Site Clearance		-				-				-		-
2	Excavation		-				-				-		-
3	PCC		-				-				-		-
4	RCC Foundation/Column footing		-				-				-		-

SN	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
5	Column & Beam		-				-				-		-
6	Ground floor Slab		-				-				-		-
7	Roof Slab		-				-				-		-
8	Brickwork		-				-				-		-
9	Plaster		-				-				-		-
10	Testing/Finishing works	100 %	4,11,000.00				-				-		-
ix	<b>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	100 %	1,35,357.77		-		-
10	Plaster		-			100 %	1,06,594.25	90%	95,934.82		-		-

SN	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
11	Electrification, plumbing, fixtures , sanitary works, AC work		-				-			100%	2,22,249.31		-
12	finishing works		-				-			100%	1,39,000.00		-
x	Sludge Dewatering System Area (Centrifuge Pump House, Sludge sump & Poly dosing tank)												
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	25%	92,394.00		-				-		-
10	Plaster	100 %	3,19,576.00	25%	79,894.00		-				-		-
11	Piping & fiittings Work		-			100 %	1,84,364.00				-		-
12	Testing/Finishing works		-				-			100%	3,51,000.00		-

SN	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
xi	<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				-		-
xii	<b>Manual &amp; Mechanical 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				-				-		-

SN	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
9	Testing/Finishing works		-			100 %	1,54,000.00				-		-
xiii	<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				-		-
xiv	<b>Parshall Flume Channel Area</b>												
1	Site Clearance		-				-				-		-
2	Excavation		-				-				-		-
3	PCC		-				-				-		-
4	RCC Foundation		-				-				-		-
5	Column & Beam		-				-				-		-



SN	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
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		-
xvi	<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		-		-
xvii	<b>DG Shed Area</b>												

SN	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
1	Site Clearance		-				-				-		-
2	Excavation		-				-				-		-
3	PCC	100 %	4,36,555.00				-				-		-
4	Foundation Work		-			100 %	4,36,555.00				-		-
xvii i	<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	15%	75,318.75	22%	1,10,467.50				-		-
8	Retaining wall	13%	2,08,331.50	13%	2,08,331.50	9.5%	1,52,242.25	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		-

SN	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	100%	2,04,559.80		-				-		-
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	100%	2,57,904.60		-				-		-
4	wall		-			100 %	2,14,920.50				-		-
5	Testing/Finishing work		-				-			100%	77,300.00		-
<b>(iii)</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	100%	2,06,369.10		-				-		-

SN	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
4	wall		-			100%	1,71,974.25				-		-
5	Testing/Finishing work		-				-			100%	61,900.00		-
(iv)	<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	100%	41,127.60		-				-		-
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>												

SN	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
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	25%	2,21,805.00				-		-
7	Column & Beam	100%	7,87,220.00	50%	3,93,610.00		-				-		-
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		-				-				-		-

SN	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
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/Hydroulic 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>												

SN	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
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>		-				-				-		-

SN	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
	A.Supply - Sludge Thickener		-				-				-		-
	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				-		-



SN	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
	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				-		-
viii )	<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				-		-

SN	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
	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%	12,00,000.00		-
	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		-				-				-		-

SN	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
	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%	20,60,000.00		-
xii)	<b>ADMN BUILDING AREA</b>		-				-				-		-
	A.Supply - PMCC work	100 %	94,40,000.00	50%	47,20,000.00		-				-		-
	B.Installation - PMCC work		-			100 %	23,60,000.00				-		-
	C.Supply - PLC/SCADA Automation of MPS,STP,D.G set)	100 %	80,00,000.00				-				-		-
	D.Installation - PLC/SCADA Automation of MPS,STP,D.G set)		-				-			100%	20,00,000.00		-
xiii)	<b>TESTING OF E&amp;M EQUIPMENT FOR STP &amp; MPS</b>		-				-			100%	194,00,000.00		-
xiv)	<b>EQUIPMENT TOOLS &amp; MISC.</b>		-				-			100%	6,00,000.00		-
<b>III</b>	<b>TRIAL RUN &amp; COMMISSIONING</b>												
1	Trial Run & Commissioning												

SN	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
			478,78,343.50		253,10,738.35		480,58,055.00		18,82,740.89		478,36,250.00		8,375.00

## PHOTOGRAPHS OF UNNAO STP SITE



**Admin Building works**



**MPS Final Lift Work**



**Column and staging works at PTU**



**SBR Works**





**I&D casting works**

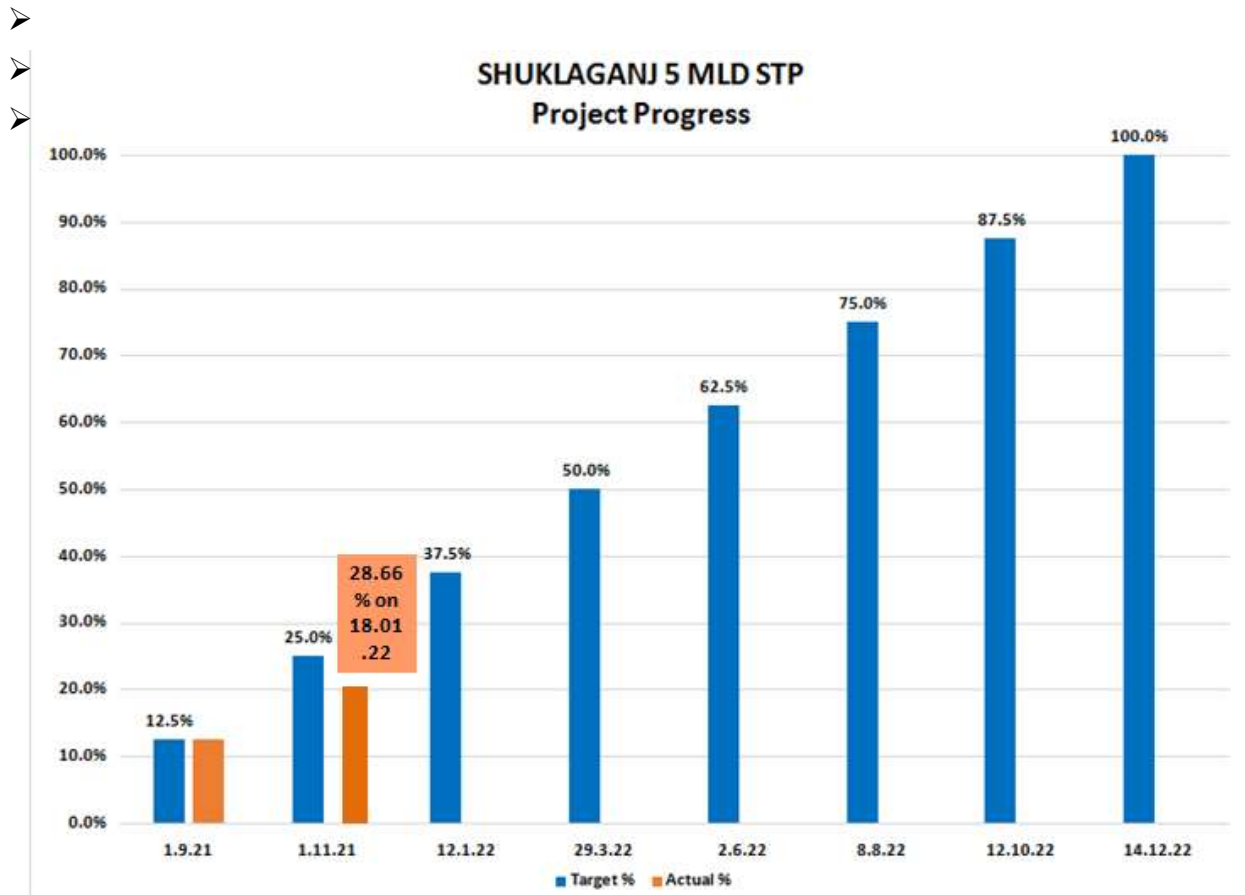


**PTU Works**

### 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 Jan 2022 is approx 28.6% against the target of 40.5%.

- During Jan 2022, the manpower deployed at the 05 MLD STP site was 30-40 nos. KRMPPL 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 KRMPPL 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.



- KRMPPL 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	40%	0%
Sewer Laying (12 km of 16.624)	40%	18%
Manholes (215 completed of 308)	40%	0%
Pumping Main (500mm dia, 80 m)	40%	0%



MPS	40%	15%
PTU	40%	0%
SBR	40%	15%
Air Blower	40%	10%
CCT, Chlorination Room	40%	10%
Sludge Thickener, Supernatant Sump	40%	70%
Centrifuge Building	40%	0%
Admin Building	40%	10%
Staff Quarter	40%	15%
Guard Room	40%	70%
Boundary Wall	40%	30%

### SUMMARY OF OVERALL PROGRESS AT Shuklaganj STP

Milestone	Schedule Completion date	Actual completion date	Milestone Amount (Rs.)	Progress till 31.01.2022		
				Milestone Amount (Rs.)	% Target	% Achieved
1st milestone	01.09.2021	01.09.2021	2,66,18775.0	255,06,721.09	12.50%	11.98%
2nd milestone	01.11.2021	27.12.2021 56 days LD	2,66,18775.0	131,94,882.68	12.50%	6.20%
3rd Milestone	12.01.2022	-	2,66,18775.0	49,40,973.54	12.50%	2.32%
4th Milestone	29.03.2022	-	2,66,18775.0	86,35,470.79	12.50%	4.06%
5th Milestone	02.06.2022	-	2,66,18775.0	84,92,000.00	12.50%	3.99%
6th milestone	08.08.2022	-	2,66,18775.0	-	12.5%	0.00%
7th milestone	12.10.2022	-	2,66,18775.0	-	12.5%	0.00%
8th milestone	14.12.2022	-	2,66,18775.0	2,55,200.00	12.5%	0.12%
Overall Progress			21,29,50,200.00	5,32,37,550.00	100%	28.6%
Total %			100.00%		100%	28.6%

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

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

Sr · N o.	Description of Items	Mileston e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Mileston e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Mileston e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Mileston e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Mileston e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Milest one		Mileston e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Milest one		Mileston e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Milesto ne	
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Am ount
1	Site Clearance				-				-																				
2	Excavation wall footing	40%	7,66,620.74	40%	7,66,620.74				-																				
3	PCC wall footing	50%	11,90,784.490	50%	11,90,784.490	20%	4,79,0137.96	20%	4,79,0137.96																				
4	RCC Foundation/Raft of wall	26%	7,48,039.25	26%	7,48,039.25	74%	21,27,372.54	48%	13,78,991.732																				
5	Wall 50% of total upto base slab		-		-	100%	23,90,568.980	50%	11,90,784.490		-																		
6	Walls (balance 50% of upto base slab)		-		-		-		-	100%	23,90,568.980	38%	8,98,383.68		-														
7	PCC Base Slab		-		-		-		-		-			100%	35,93,534.70														
8	RCC Foundation base slab		-		-		-		-		-				-			100%	26,35,258.78										

Sr · No.	Description of Items	Mileston e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Mileston e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Mileston e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Mileston e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Mileston e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Milest one		Mileston e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Milest one		Mileston e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Milesto ne	
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Am ount
9	Wall 50% of total lift work		-		-		-		-		-				-				-			100%	23,95,689.80						
10	Walls (balance 50% of Total Lift work)		-		-		-		-		-				-				-			50%	8,38,491.43			50%	8,38,491.43		
13	Hydro Testing /Finishing works		-		-		-		-		-				-				-				-			100%	11,97,844.90		
ii	Chlorination Tank Area																												
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.		-	49	2,34,777.																		

Sr · No.	Description of Items	Mileston e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Mileston e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Mileston e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Mileston e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Mileston e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Milest one		Mileston e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Milest one		Mileston e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Milesto ne	
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Am ount
						%	38			%	62																		
7	Baffle Walls work		-		-		-		-		-			1 0 0 %	1,19, 784. 50														
8	Hydro Testing /Finishing works		-		-		-		-		-				-			1 0 0 %	1,19, 784. 50										
iii	Chlorination Room Area																												
1	Site Clearance		-		-				-																				
2	Excavation		-		-				-																				
3	PCC		-		-				-																				
4	RCC Foundation/Column footing	1 0 0 %	5,98, 922. 50		-		-		-																				
5	Column & Beam	1 0 0 %	3,59, 353. 50		-		-		-						-														
6	Ground floor Slab		-		-		-		-	1 0 0 %	2,39, 569. 00				-														
7	Roof Slab		-		-	1 0	3,59, 353.		-		-				-														

Sr · N o.	Description of Items	Mileston e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Mileston e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Mileston e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Mileston e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Mileston e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Milest one		Mileston e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Milest one		Mileston e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Milesto ne	
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Am ount
						0 %	50																						
8	Brickwork		-		-		-		-	1 0 0 %	1,19, 784. 50				-				-										
9	Plaster		-		-		-		-	1 0 0 %	1,19, 784. 50				-				-								-		
10	Testing/Finishing works		-		-		-		-		-			1 0 0 %	1,19, 784. 50				-								-		
iv	Guard Room Area																												
1	Site Clearance				-				-																				
2	Excavation		-		-				-																				
3	PCC		-		-				-																				
4	RCC Foundation/column footing	4 8 %	80,4 95.1 8	4 8 %	80,4 95.1 8		-		-																				
5	Column & Beam	1 0 0 %	2,51, 547. 45	1 0 0 %	2,51, 547. 45		-				-																		
6	RCC Ground floor Slab		-		-	1 0	2,51, 547.	1 0	2,51 ,547		-																		

Sr · N o.	Description of Items	Mileston e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Mileston e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Mileston e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Mileston e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Mileston e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Milest one		Mileston e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Milest one		Mileston e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Milesto ne	
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Amo unt
						0 %	45	0 %	.45																				
7	RCC Roof Slab		-		-		-			1 0 0 %	83,8 49.1 5	1 0 0 %	83,8 49.1 5		-														
8	Brick work		-		-		-			1 0 0 %	1,67, 698. 30				-														
9	Plumbing, fixtures		-		-		-				-			1 0 0 %	83,8 49.1 5														
10	Sanitary works		-		-		-				-			1 0 0 %	83,8 49.1 5									-				-	
11	Electrification work		-		-		-				-				-			1 0 0 %	83,8 49.1 5					-				-	
12	Plaster		-		-		-				-				-			1 0 0 %	83,8 49.1 5					-				-	
13	Finishing works		-		-		-				-				-			1 0 0 %	83,8 49.1 5					-				-	

Sr · No.	Description of Items	Mileston e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Mileston e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Mileston e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Mileston e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Mileston e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Milest one		Mileston e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Milest one		Mileston e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Milesto ne	
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Am ount
																		%											
iv	Admin Bldg Area (G+1)																												
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		-		-		-				-				-			100 %	4,21,641.36				-				-		
8	1st Floor Roof Slab				-										-			100 %	6,85,167.21				-						
9	Brickwork				-										-				-			100 %	4,21,641.36				-		

Sr · N o.	Description of Items	Milestone e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Milestone e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Milestone e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Milestone e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Milestone e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Milest one		Milestone e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Milest one		Milestone e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Milesto ne	
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Am oun t
10	Electrification, plumbing, fixtures , sanitary works				-									-					-			1 0 0 %	3,68, 936. 19				-		
11	Plaster				-									-					-							1 0 0 %	2,63, 525. 85		
12	finishing works				-									-					-							1 0 0 %	2,63, 525. 85		
v	Air Blower Room Area																												
1	Site Clearance				-		-																						
2	Excavation		-		-		-																						
3	PCC	1 0 0 %	7,18, 707. 00		-		-				-																		
4	RCC Foundation/column footing		-		-	1 0 0 %	7,18, 707. 00				-			-															
5	Column & Beam		-		-		-							1 0 0 %	7,18, 707. 00														



Sr · N o.	Description of Items	Mileston e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Mileston e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Mileston e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Mileston e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Mileston e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Milest one		Mileston e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Milest one		Mileston e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Milesto ne	
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Am ount
6	RCC Roof Slab		-		-		-				-			1 0 0 %	9,58, 276. 00				-										
7	Cable Trench Work		-		-		-				-				-			1 0 0 %	4,79, 138. 00										
8	Brick work		-		-		-				-				-				-			1 0 0 %	2,39, 569. 00						
9	Plaster		-		-		-				-				-				-			1 0 0 %	2,39, 569. 00				-		
10	Testing/Finishing work		-		-		-				-				-				-				-			1 0 0 %	2,39, 569. 00		
vi	Staff Quarter Area (G+1)																												
1	Site Clearance				-		-																						
2	Excavation				-		-																						
3	PCC		-		-		-				-																		
4	RCC Foundation/column footing	1 0 0	1,67, 698. 30	1 0 0	1,67, 698. 30						-																		

Sr · N o.	Description of Items	Mileston e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Mileston e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Mileston e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Mileston e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Mileston e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Milest one		Mileston e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Milest one		Mileston e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Milesto ne	
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Am ount
		%		%																									
5	Column & Beam upto ground floor slab	1 0 0 %	2,51, 547. 45	2 5 %	62,8 86.8 6		-				-				-														
6	RCC Ground floor Slab (Base floor slab)		-		-		-			1 0 0 %	1,67, 698. 30				-				-										
7	Column upto roof slab & RCC 1st floor Slab		-		-	1 0 0 %	3,35, 396. 60				-				-				-										
8	Brick work		-		-	1 0 0 %	83,8 49.1 5				-				-				-				-				-		
9	Plumbing, fixtures , sanitary works		-		-	1 0 0 %	83,8 49.1 5				-				-				-				-				-		
10	Electrification work		-		-	1 0 0 %	83,8 49.1 5				-				-				-				-				-		
11	Plaster		-		-		-			1 0 0 %	83,8 49.1 5				-				-				-				-		

Sr . N o.	Description of Items	Milestone e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Milestone e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Milestone e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Milestone e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Milestone e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Milest one		Milestone e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Milest one		Milestone e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Milesto ne	
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Amoun t
12	Finishing works		-		-		-			100%	83,849.15				-				-				-				-		
vii	Inlet Chamber Area																												
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				-					-						

Sr · No.	Description of Items	Milestone e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Milestone e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Milestone e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Milestone e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Milestone e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Milest one		Milestone e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Milest one		Milestone e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Milesto ne		
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Am ount	
7	Hydro Testing /Finishing works		-				-				-							1 0 0 %	71,8 70.7 0				-				-			
vii i	Manual & Mechanical Fine Bar Screen Chamber AreaArea																													
1	Site Clearance		-							1 0 0 %	28,7 48.2 8								-											
2	Excavation						-			1 0 0 %	1,86, 863. 82								-											
3	PCC						-			1 0 0 %	2,15, 612. 10			-					-								-			
4	RCC Foundation										-			1 0 0 %	2,87, 482. 80				-				-				-			
5	Column & Beam										-			1 0 0 %	2,15, 612. 10				-				-				-			
6	RCC Slab														-			1 0	2,87, 482.				-				-			

Sr · N o.	Description of Items	Milestone e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Milestone e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Milestone e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Milestone e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Milestone e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Milest one		Milestone e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Milest one		Milestone e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Milesto ne	
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Amo unt
																		0 %	80										
7	RCC Wall						-								-			7 5 %	53,9 03.0 3			2 5 %	17,9 67.6 8				-		
8	Walkway/Platform																		-			1 0 0 %	71,8 70.7 0				-		
9	Hydro Testing /Finishing works																		-				-			1 0 0 %	71,8 70.7 0		
ix	Grit Chamber Area																												
1	Site Clearance		-							1 0 0 %	62,2 87.9 4								-								-		
2	Excavation						-			1 0 0 %	4,04, 871. 61								-								-		
3	PCC						-			7 4 %	3,45, 211. 12			2 6 %	1,21, 461. 48				-								-		
4	RCC Foundation										-			1 0 0 %	6,22, 879. 40				-				-				-		

Sr · N o.	Description of Items	Milestone e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Mileston e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Mileston e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Mileston e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Mileston e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Milest one		Mileston e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Milest one		Mileston e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Milesto ne	
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Am ount
5	Column & Beam										-			1 0 0 %	4,67, 159. 55				-				-				-		
6	RCC Slab														-			1 0 0 %	6,22, 879. 40				-				-		
7	RCC Wall						-								-			7 5 %	1,16, 789. 89			2 5 %	38,9 29.9 6				-		
8	Walkway/Platform																		-			1 0 0 %	1,55, 719. 85				-		
9	Hydro Testing /Finishing works																		-				-			1 0 0 %	1,55, 719. 85		
x	Parshall Flume Channel Area																												
1	Site Clearance		-							1 0 0 %	62,2 87.9 4								-										
2	Excavation						-			1 0 0 %	4,04, 871. 61								-								-		

Sr · N o.	Description of Items	Milestone e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Milestone e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Milestone e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Milestone e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Milestone e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Milest one		Milestone e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Milest one		Milestone e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Milesto ne	
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Am ount
3	PCC						-			5 0 %	2,33, 579. 78			5 0 %	2,33, 579. 78				-								-		
4	RCC Foundation													1 0 0 %	4,67, 159. 55				-								-		
5	Column & Beam													1 0 0 %	4,67, 159. 55				-								-		
6	RCC Slab														-			1 0 0 %	6,22, 879. 40							-			
7	RCC Wall						-								-				-			1 0 0 %	1,55, 719. 85				-		
8	Walkway/Platform														-				-			1 0 0 %	1,55, 719. 85				-		
9	Piping & fitting Work																		-							1 0 0 %	1,55, 719. 85		
10	Hydro Testing /Finishing works																		-							1 0	1,55, 719.		

Sr . No.	Description of Items	Milestone e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Milestone e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Milestone e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Milestone e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Milestone e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Milest one		Milestone e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Milest one		Milestone e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Milesto ne	
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Amo unt
																										0 %	85		
xi	Sludge Dewatering System Area (Centrifuge Pump House, Sludge sump & Poly dosing tank)																												
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				25 %	1,07,806.05									
5	Column & Beam Upto First Floor		-																100 %	4,31,224.20									
6	First Floor Slab		-												-				100 %	6,46,836.30				-					



Sr · N o.	Description of Items	Milestone e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Milestone e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Milestone e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Milestone e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Milestone e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Milest one		Milestone e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Milest one		Milestone e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Milesto ne	
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Amo unt
																		%											
7	Column & Beam First Floor to Roof Slab		-				-				-											100%	4,31,224.20						
8	Roof Slab		-				-				-											100%	6,46,836.30				-		
9	Brickwork		-				-				-														100%	4,31,224.20			
10	Plaster		-				-				-														100%	2,15,612.10			
11	Piping & fiittings Work		-				-				-														100%	2,15,612.10			
12	Hydro Testing /Finishing works		-				-				-														100%	2,15,612.10			
xii	Sludge Thickener Area																												
1	Site Clearance				-				-										-										

Sr · N o.	Description of Items	Mileston e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Mileston e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Mileston e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Mileston e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Mileston e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Milest one		Mileston e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Milest one		Mileston e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Milesto ne	
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Am ount
2	Excavation				-				-										-										
3	PCC				-				-										-										
4	RCC Foundation Wall/base slab	1 0 0 %	8,38, 491. 50	1 0 0 %	8,38, 491. 50				-																				
5	Wall 50% of total lift work					1 0 0 %	6,70, 793. 20	5 0 %	3,35 ,396 .60						-														
6	Walls (balance 50% of Total Lift work)						-		-	5 0 %	3,35, 396. 60			5 0 %	3,35, 396. 60				-									-	
7	Hydro Testing /Finishing works						-							1 0 0 %	1,67, 698. 30													-	
xii i	Supernatant Sump Area																												
1	Site Clearance																		-										
2	Excavation																		-										
3	PCC																		-										
4	RCC Foundation wall/base slab		-																-										
5	Wall 50% of total lift work	1 0 0 %	4,79, 138. 00	1 0 0 %	4,79, 138. 00																								

Sr · N o.	Description of Items	Milestone e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Milestone e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Milestone e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Milestone e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Milestone e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Milest one		Milestone e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Milest one		Milestone e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Milesto ne	
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Amo unt
		%		%																									
6	Walls (balance 50% of Total Lift work)		-			1 0 0 %	4,79, 138. 00																-				-		
7	Hydro Testing /Finishing works		-				-			1 0 0 %	1,19, 784. 50																-		
xiv	Sludge Storage Platform Area																												
1	Site Clearance													-			1 0 0 %	95,8 27.6 0					-				-		
2	Excavation													-			5 0 %	1,91, 655. 20			5 0 %	1,91, 655. 20				-			
3	PCC													-				-			1 0 0 %	5,74, 965. 60				-			
4	Foundation Work													-				-			1 0 0 %	7,66, 620. 80				-			
5	Finishing work													-				-					-			1 0 0	95,8 27.6 0		

Sr · N o.	Description of Items	Milestone e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Milestone e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Milestone e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Milestone e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Milestone e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Milest one		Milestone e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Milest one		Milestone e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Milesto ne	
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Amo unt
																										%			
xv	Transformer Yard Area																												
1	Site Clearance													-			1 0 0 %	71,8 70.7 0				-				-			
2	Excavation													-			1 0 0 %	2,87, 482. 80				-				-			
3	PCC													-			1 0 0 %	4,31, 224. 20				-				-			
4	Foundation Work													-				-			5 0 %	3,23, 418. 15				5 0 %	3,23, 418. 15		
xv i	DG Shed Area																												
1	Site Clearance													-			1 0 0 %	71,8 70.7 0				-				-			
2	Excavation													-							1 0 0 %	2,87, 482. 80				-			
3	PCC													-				-			1	4,31,				-			

Sr · N o.	Description of Items	Mileston e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Mileston e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Mileston e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Mileston e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Mileston e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Milest one		Mileston e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Milest one		Mileston e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Milesto ne	
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Am oun t
																						0 0 %	224. 20						
4	Foundation Work													-					-			1 0 0 %	6,46, 836. 30				-		
xv ii	EXTERNAL DEVELOPMENT																												
	Boundary Wall with Gate				-																								
1	Site Clearance				-																								
2	Excavation	2 0 %	5,39, 914. 95	2 0 %	5,39, 914. 95	2 0 %	5,39, 914. 95	7 %	37,7 94.0 5	2 0 %	5,39, 914. 95			-					-										
3	PCC	2 0 %	7,19, 886. 60	2 0 %	7,19, 886. 60	2 0 %	7,19, 886. 60	7 %	50,3 92.0 6	2 0 %	7,19, 886. 60			1 0 %	3,59, 943. 30				-										
4	RCC Column footing	2 0 %	7,19, 886. 60	2 0 %	7,19, 886. 60	2 0 %	7,19, 886. 60	6 %	43,1 93.2 0	1 0 %	3,59, 943. 30			1 5 %	5,39, 914. 95			5 %	1,79, 971. 65				-						
5	RCC Column & Beam	2 0 %	5,39, 914. 95	2 0 %	5,39, 914. 95	2 0 %	5,39, 914. 95	6 %	32,3 94.9 0	1 0 %	2,96, 953. 22			1 0 %	2,69, 957. 48			8 %	2,15, 965. 98			5 %	1,34, 978. 74						
6	Brickwork	2 0 %	5,39, 914. 95	2 0 %	5,39, 914. 95	1 5 %	4,04, 847. 78	1 0 %	53,9 91.5 0	1 0 %	2,69, 957. 48			1 0 %	2,69, 957. 48			1 7 %	4,60, 083. 40			1 8 %	4,85, 923. 46			1 0 %	2,69, 957. 48		
7	Plaster	1	2,69,		-	1	2,69,			9	1,61,			1	2,51,			1	2,51,			1	2,69,			1	3,23,		

Sr · N o.	Description of Items	Mileston e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Mileston e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Mileston e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Mileston e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Mileston e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Milest one		Mileston e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Milest one		Mileston e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Milesto ne	
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Am ount
		5 %	957. 48			5 %	957. 48			%	974. 49			4 %	233. 08			4 %	960. 31			5 %	957. 48			8 %	948. 97		
8	Finishing Work		-		-		-			5 %	44,9 92.9 1			1 0 %	89,9 85.8 3			2 0 %	1,79, 971. 65			3 4 %	3,05, 951. 81			3 1 %	2,78, 956. 06		
	Earthfilling, Internal Roads ,Landscaping				-																								
1	Earthfilling, Internal Roads ,Landscaping				-						-				-							2 9 %	9,72, 650. 14			7 1 %	23,8 1,31 5.86		
B	MPS-20 MLD																												
	Civil Work																												
i	Construction of Raw Sewage Sump																												
1	Site Clearance				-				-																				
2	Excavation		-		-																								
3	PCC	1 0 0 %	12,8 7,41 3.85	1 0 0 %	12,8 7,41 3.85																								
4	RCC Foundation/Raft	1 0 0 %	17,1 6,55 1.80	1 0 0 %	17,1 6,55 1.80										-														
5	Wall 50% of total lift work		-		-	1 0 0	12,8 7,41 3.85	2 8 %	3,54 ,038 .81						-														

Sr · N o.	Description of Items	Milestone e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Milestone e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Milestone e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Milestone e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Milestone e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Mileston e		Milestone e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Mileston e		Milestone e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Mileston e	
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Amo unt
						%																							
6	Walls (balance 50% of Total Lift work)		-		-	1 0 0 %	12,8 7,41 3.85				-				-				-										
7	Column & Beam		-				-			1 0 0 %	8,58, 275. 90				-				-										
8	Ground Floor Slab													1 0 0 %	6,86, 620. 72				-										
9	Hydro Testing /Finishing works																	1 0 0 %	4,29, 137. 95										
ii	Construction of Raw Sewage Pump House																												
1	Column & Beam																		-			1 0 0 %	2,50, 000. 00				-		
2	Roof Slab																		-			1 0 0 %	2,50, 000. 00				-		
3	Brickwork																									1 0	2,50, 000.		

Sr · No.	Description of Items	Milestone e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Milestone e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Milestone e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Milestone e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Milestone e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Milest one		Milestone e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Milest one		Milestone e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Milesto ne		
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Amo unt	
4	Plaster																													
iii	Construction of Inlet Chamber & Screen Channel																													
1	Site Clearance				-		-		-		-																			
2	Excavation						-			100%	2,87,482.80	70%	2,01,237.96																	
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)						-				-				-			100%	4,31,224.20											



Sr · N o.	Description of Items	Milestone e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Milestone e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Milestone e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Milestone e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Milestone e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Milest one		Milestone e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Milest one		Milestone e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Milesto ne	
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Amoun t
7	Column & Beam						-				-				-			1 0 0 %	2,87, 482. 80				-						
8	Ground Floor Slab		-				-				-				-				-			1 0 0 %	2,29, 986. 24				-		
9	Walkway/Platform																		-			1 0 0 %	1,43, 741. 40				-		
10	Hydro Testing /Finishing works																		-				-			1 0 0 %	1,43, 741. 40		
C	SEWER SYSTEM AREA																												
1	Site Clearance				-																								
2	Supply of pipes	3 5 %	25,3 8,63 6.80	3 5 %	25,3 8,63 6.80	1 0 %	7,25, 324. 80	1 0 %	7,25 ,324 .80		-				-				-				-				-		
3	Excavation and Laying of pipes including bed preperation & backfilling	2 0 %	1,35, 998. 40		-	3 6 %	2,44, 797. 12			3 0 %	2,02, 854. 81			1 4 %	95,1 98.8 8				-				-				-		
4	Manholes		-		-	3 5 %	2,37, 997. 20			2 5 %	1,69, 998. 00			2 5 %	1,69, 998. 00			1 0 %	67,9 99.2 0			5 %	33,9 99.6 0				-		
5	Flow Testing		-		-									2	94,9			3	1,35,			1	87,0			3	1,35,		

Sr · N o.	Description of Items	Mileston e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Mileston e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Mileston e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Mileston e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Mileston e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Milest one		Mileston e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Milest one		Mileston e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Milesto ne	
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Am ount
														1 %	25.6 2			0 %	998. 40			9 %	94.1 3			0 %	561. 71		
D	I & D Work																												
(i)	Approach Channel																												
1	Excavation						-			1 0 0 %	68,1 00.0 0																		
2	PCC		-							1 0 0 %	1,70, 000. 00																		
3	RCC Foundation/Raft		-							1 0 0 %	2,05, 000. 00				-														
4	wall													4 1 %	69,7 00.0 0			4 0 %	68,0 00.0 0			1 9 %	32,3 00.0 0						
5	Hydro Testing /Finishing works																				1 0 0 %	61,3 00.0 0							
(ii )	Inlet Chamber																												
1	Excavation									1 0 0 %	85,9 00.0 0																		

Sr . N o.	Description of Items	Milestone e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Mileston e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Mileston e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Mileston e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Mileston e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Milest one		Mileston e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Milest one		Mileston e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Milesto ne	
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Amoun t
										%																			
2	PCC		-							100%	2,15,000.00																		
3	RCC Foundation/Raft		-							100%	2,55,000.00																		
4	wall													100%	2,15,000.00														
5	Hydro Testing /Finishing works																	100%	77,300.00										
(ii i)	Screen Channel																												
1	Excavation													100%	68,700.00														
2	PCC		-											100%	1,71,900.00														
3	RCC Foundation/Raft		-											100	2,06,370.														

Sr . N o.	Description of Items	Milestone e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Milestone e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Mileston e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Mileston e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Mileston e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Milest one		Mileston e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Milest one		Mileston e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Milesto ne	
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Amoun t
														0 %	00														
4	wall		-				-											1 0 0 %	1,71, 975. 00										
5	Hydro Testing /Finishing works		-				-				-										1 0 0 %	61,9 00.0 0							
(i v)	Grit Chamber																												
1	Excavation													1 0 0 %	70,6 70.0 0														
2	PCC		-											1 0 0 %	1,76, 675. 00														
3	RCC Foundation/Raft		-											1 0 0 %	2,12, 000. 00														
4	wall		-				-											1 0 0 %	1,75, 675. 00										
5	Hydro Testing /Finishing		-				-				-										1	63,6							

Sr · N o.	Description of Items	Mileston e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Mileston e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Mileston e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Mileston e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Mileston e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Milest one		Mileston e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Milest one		Mileston e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Milesto ne	
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Am ount
	works																					0 0 %	00.0 0						
(v)	Collection Chamber																												
1	Excavation													1 0 0 %	13,7 10.0 0														
2	PCC		-											1 0 0 %	34,2 73.0 0														
3	RCC Foundation/Raft		-											1 0 0 %	41,1 30.0 0														
4	wall		-				-											1 0 0 %	34,2 73.0 0										
5	Hydro Testing /Finishing works		-				-				-											1 0 0 %	12,3 00.0 0						
E	EFFLUENT DISPOSAL SYSTEM																												

Sr · N o.	Description of Items	Milestone e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Milestone e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Milestone e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Milestone e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Milestone e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Milest one		Milestone e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Milest one		Milestone e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Milesto ne		
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Amo unt	
1	Site Clearance																	1 0 0 %	2,50, 000. 00				-				-			
2	Construction of Effluent Channel																	5 1 %	12,9 0,61 6.20			4 9 %	12,4 0,00 3.80				-			
F	E&M WORK																													
i)	GRIT CHAMBER AREA																													
	A.On supply - Grit Scraper Mechanism	1 0 0 %	18,2 8,00 0.00				-				-												-				-			
	B.On Installation - Grit Scraper Mechanism																	1 0 0 %	4,57, 000. 00											
ii)	SLUDGE THICKENER AREA																													
	A.Supply - Sludge Thickener		-			1 0 0 %	7,04, 000. 00								-															
	B.Installation - Sludge Thickener																					1 0 0 %	1,76, 000. 00							

Sr · N o.	Description of Items	Milestone e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Milestone e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Milestone e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Milestone e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Milestone e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Milest one		Milestone e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Milest one		Milestone e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Milesto ne	
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Am ount
iii)	TRANSFORMER YARD AREA																												
	A.Supply - Transformer																		-			1 0 0 %	24,2 0,00 0.00				-		
	B.Installation Transformer																									1 0 0 %	6,05, 000. 00		
iv)	DG SHED AREA																												
	A.Supply - DG																					1 0 0 %	31,0 0,00 0.00				-		
	B.Installation - DG																					1 0 0 %	7,75, 000. 00						
v)	MEP																												
	A.Supply - Screen		-			1 0 0 %	33,4 4,00 0.00				-				-												-		
	B.Installation - Screen																									1 0 0 %	8,36, 000. 00		

Sr · N o.	Description of Items	Milestone e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Milestone e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Milestone e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Milestone e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Milestone e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Mileston e		Milestone e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Mileston e		Milestone e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Mileston e		
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Amo unt	
	C.Supply - Hoist	1 0 0 %	4,68, 000. 00												-													-		
	D.Installation - Hoist																									1 0 0 %	1,17, 000. 00			
	E.Supply - Pumps & Motors(MEP)	1 0 0 %	69,4 4,00 0.00				-				-								-									-		
	F.Installation - Pumps & Motors(MEP)																									1 0 0 %	17,3 6,00 0.00			
	G.Supply - Gates					1 0 0 %	11,4 4,00 0.00				-				-				-									-		
	H.Supply - Valves(MPS)						-			1 0 0 %	11,4 4,00 0.00				-				-									-		
	I.Installation - Gate & Valves(MPS)																									1 0 0 %	2,86, 000. 00			
	J.Installation - Gate &																									1	2,86,			



Sr · N O.	Description of Items	Milestone e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Milestone e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Milestone e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Milestone e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Milestone e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Milest one		Milestone e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Milest one		Milestone e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Milesto ne		
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Amo unt	
	Valves(MPS)																									0 0 %	000. 00			
	K.Supply Instruments(like flow meter, Guages, level, Transmitter)													1 0 0 %	14,0 8,00 0.00				-									-		
	L.Installation - Instruments(like flow meter, Guages, level, Transmitter)																									1 0 0 %	3,52, 000. 00			
vi)	INLET CHAMBER AREA																													
	A.Supply - Gates					1 0 0 %	9,24, 000. 00				-													-				-		
	B.Supply - Valves(STP)						-			1 0 0 %	9,24, 000. 00													-				-		
	C.Installation - Gates																	1 0 0 %	2,31, 000. 00											
	D.Installation - Valves(STP)																	1 0 0 %	2,31, 000. 00											

Sr · N o.	Description of Items	Mileston e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Mileston e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Mileston e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Mileston e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Mileston e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Milest one		Mileston e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Milest one		Mileston e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Milesto ne	
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Amo unt
vii )	FINE SCREEN AREA																												
	A.On supply -Fine Screen						-			1 0 0 %	14,0 8,00 0.00								-				-				-		
	B.On Installation -Fine Screen																	1 0 0 %	3,52, 000. 00										
vii i)	SBR BASIN AREA																												
	A..On supply - Decanter Equipment		-				-			1 0 0 %	74,5 2,00 0.00	1 0 0 %	74,5 2,00 0.00		-				-				-				-		
	B..Installation - Decanter Equipment																	1 0 0 %	18,6 3,00 0.00										
	C.On supply - Diffuser		-				-				-			1 0 0 %	84,9 2,00 0.00	1 0 0 %	84,9 2,00 0.00		-			-					-		
	D.On Installation - Diffuser																	1 0 0 %	21,2 3,00 0.00										
	E.On supply - RAS Pump,		-				-			1	27,7				-				-								-		

Sr · N o.	Description of Items	Milestone e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Milestone e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Milestone e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Milestone e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Milestone e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Milest one		Milestone e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Milest one		Milestone e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Milesto ne	
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Am ount
	SAS Pump									0 0 %	6,00 0.00																		
	F.On Installation - RAS Pump, SAS Pump																	1 0 0 %	6,94, 000. 00										
	G.On supply - Chain Pulley Block		-				-				-							1 0 0 %	3,08, 000. 00				-				-		
	H.On Installation - Chain Pulley Block																								1 0 0 %	77,0 00.0 0			
ix)	AIR BLOWER ROOM																												
	A.Supply - Blower		-				-				-							1 0 0 %	30,4 0,00 0.00				-				-		
	B. Installation - Blower																					1 0 0 %	7,60, 000. 00						
	C.Supply - Hoist Work		-				-			1 0 0 %	4,60, 000. 00								-				-						

Sr · N o.	Description of Items	Mileston e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Mileston e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Mileston e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Mileston e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Mileston e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Milest one		Mileston e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Milest one		Mileston e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Milesto ne	
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Am oun t
	D.Installation - Hoist Work																								100%	1,15,000.00			
x)	CHLORINATION ROOM AREA																												
	A.Supply - Chlorination system(Dosing pumps, chlorinators, Tonnes, Chemicals & Piping work		-				-				-				-				-						100%	12,76,000.00	20%	2,55,200.00	
	B. Installation - Chlorination system(Dosing pumps, chlorinators, Tonnes, Chemicals & Piping work																								100%	3,19,000.00			
	C.Supply - Chlorine Nutrilisation Tank														-				-						100%	2,20,000.00			
	D.Installation - Chlorine Nutrilisation tank																								100%	55,000.00			
	E.Supply - Hoist Work										-				-				100%	3,08,000.00									
	F.Installation - Hoist Work																								100%	77,000.00			

Sr · N o.	Description of Items	Milestone e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Milestone e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Milestone e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Milestone e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Milestone e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Milest one		Milestone e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Milest one		Milestone e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Milesto ne	
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Am ount
																										0 %	0		
xi)	CENTRIFUGE HOUSE & FEED PUMP AREA																												
	A.On supply -Centrifuge					1 0 0 %	22,6 6,00 0.00								-														
	B.On supply -Centrifuge Feed Pump					1 0 0 %	22,6 6,00 0.00								-														
	C.On Installation - Centrifuge																								1 0 0 %	5,66, 500. 00			
	D.On Installation - Centrifuge Feed Pump																								1 0 0 %	5,66, 500. 00			
xii )	ADMN BUILDING AREA																												
	A.Supply - LT/HT Panel						-				-				-				-			1 0 0 %	37,5 2,00 0.00				-		
	B.Installation - LT/HT Panel																								1 0 0 %	9,38, 000. 00			

Sr · N o.	Description of Items	Milestone e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Milestone e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Milestone e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Milestone e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Milestone e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Milest one		Milestone e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Milest one		Milestone e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Milesto ne			
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Amo unt		
	C.Supply - PLC/SCADA Automation														-			1 0 0 %	36,0 0,00 0.00									%			
	D.Installation - PLC/SCADA Automation																										1 0 0 %	9,00, 000. 00			
xii i)	Cable Tray & Earthing work																														
	A.Supply - cable Tray/Earthing material																					1 0 0 %	8,00, 000. 00								
	B.Installation - Cable Tray/Earthing material																										1 0 0 %	2,00, 000. 00			
xi v)	External Electrification (lighting & Pole)																														
	A.Supply																					1 0 0 %	8,00, 000. 00								
	B.Installation																										1 0 0 %	2,00, 000. 00			

Sr · N o.	Description of Items	Milestone e-2 (From 2nd Sep'21 to 1st Nov.'21 )		Achievem ent of 2nd Mileston e		Milestone e-3 (From 2nd Nov'21 to 12th Jan.'22 )		Achieve ment of 3rd Mileston e		Milestone e-4 (From 13th Jan.'22 to 29th March'22 )		Achieve ment of 4th Mileston e		Milestone e-5 (From 30th March'22 to 2nd June'22 )		Achieve ment of 5th Mileston e		Milestone e-6 (From 3rd June'22 to 8th Aug'22 )		Achiev ement of 6th Milest one		Milestone e-7 (From 9th Aug'22 to 12th Oct'22 )		Achiev ement of 7th Milest one		Milestone e-8 (From 13th Oct'22 to 14th Dec.'22 )		Achieve ment of 8th Milesto ne		
i)	SBR Basin Area	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	Amo unt	%	A m ou nt	%	Amo unt	%	A m ou nt	%	Amo unt	%	Amoun t	
xv )	TESTING OF E&M EQUIPMENT FOR STP & MPS										-							-									1 0 0 %	76,4 8,00 0.00		
xv i)	EQUIPMENT TOOLS & MISC.										-							-									1 0 0 %	3,70, 000. 00		
III	TRIAL RUN & COMMISSIONING																													
1	Trial Run & Commissioning																													
			266, 18,7 75.0 0		131, 94,8 82.6 8		266, 18,7 75.0 0		49,4 0,97 3.54		266, 18,7 75.0 0		86,3 5,47 0.79		266, 18,7 75.0 0		84,9 2,00 0.00		266, 18,7 75.0 0		-		266, 18,7 75.0 0		-		266, 18,7 75.0 0		2,5 5,2 00. 00	

## Photographs of Shuklaganj STP



**Steel binding is in progress of MPS**



**SBR wall Steel binding work**





**Staff Quarter Column casting**



**Supernatant Sump 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. Mechanical screen no. 02 is not functional since 23.11.2021 and needs to be replaced.
  2. CCTV cameras need to be installed at site.
  3. Out of 7 pumps installed at CSPS 1 no. is not in working condition.
  4. KRMPL has not replaced all pumps under renovation plan.
  5. KRMPL is not doing maintain proper O&M during renovation period.
  6. Proper maintenance of CSPS is not doing by KRMPL.
  7. Documentations and Log book of pumps, DG set are not maintaining by KRMPL.
  8. Transformer foundation for 630KVA work is completed without getting permission or drawing design approval from UPJN/STC.
- **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. Pumps have received on 31.12.2021 at site for pump house 02. During site visit at 18.01.2022 it was found that raw sewage pumps are unavailable. KRMPL operator informed to UPJN/STC team that raw sewage pumps got submerge during the installation period. KRMPL has not informed to UPJN/STC in this matter. Installation without information to UPJN/STC is not acceptable and completion certificate will not be issued.
  4. New pumps for pump house no. 2 should be installed at site on urgent basis.
  5. Pumps for pump house no. 1 need to be supplied and installed.
  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. 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 Guptar Ghat IPS is not doing by KRMPL.
3. Documentations and Log book of pumps, DG set are not maintaining by KRMPL.

- **Parmat IPS**

1. Under renovation work plastering work, painting work, cracks repairing work are being done by KRMPL for Inlet chamber, Pump house no.1 and no. 2, DG set room and Panel room, but quality of work is very poor.
2. Proper maintenance of Parmat IPS is not doing by KRMPL.
3. This IPS is not overflow/Bypass condition.
4. KRMPL is not maintaining proper O&M work during renovation period.
5. Documentation and Log book of pumps, DG set are not maintained

#### **JAJMAU (PHASE – 1) 130 MLD STP**

- 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.

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%

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. KRMPL has submitted Shriram lab result for 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> week enclosed separately. Shriram lab result for 4<sup>th</sup> week has not submitted by KRMPL for month of December 2021

## MILESTONE WISE ACTIVITIES AND PROGRESS: - RENOVATION OF 130MLD STP JAJMAU FACILITIES

- 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.
- Overall progress up to 31th January 2022 is **41.42%** against target of **42.84%**
- Bio-remediation work started form 28.1.2022 by KRMPL.
- PST no. 02 commissioned on 29.01.2022 after completion of Civil and Mechanical works.
- FST no. 1 Mechanical Bridge collapsed on 15.01.2022 needs to renovate on urgent basis by KRMPL.
- 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, DFG panel room, Centrifuge building 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
- KRMPL has not started utility shifting work although Utility shifting work should be done on urgent basis for execution of new TEPH, Chlorination facilities

- **Summary and Milestone wise activities and their progress of work for 130MLD STP Jajmau Phase-1 facilities are given in below table**

### 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	165406837.76	25%	17.218%
2 <sup>nd</sup> milestone	15.03.2022		240160000.00	130734650.37	25%	13.607%
3 <sup>rd</sup> milestone	15.06.2022		240160000.00	67504434.79	25%	7.025%
4 <sup>th</sup> milestone	09.08.2022		240160000.00	34256422.40	25%	3.57%
Overall progress	960640000.000			397902345.32	100%	41.42%
<b>Total %</b>	<b>100%</b>				<b>100%</b>	<b>41.42%</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
I	Design & Drawing of STP																	
i.	On approval of BEP	480,32,000.00	100%	480,32,000.00	100%	48032000.00				-				-				-
ii.	On approval of design & drawings for Civil works	480,32,000.00	25%	120,08,000.00	25%	12008000.00	75%	360,24,000.00	75%	360,24,000.00				-				-
										-				-				-
II	REHABILITATION/ RENOVATION OF EXISTING STP & IPSs																	
A.	Civil Work																	
i.	Retrofication for Collection chamber	51,87,456.00	100%	51,87,456.00	100%	5187456.00				-				-				-
ii.	Retrofication for Fine Screen Channel(Mechanical)	181,56,096.00	35%	63,54,633.60	35%	6354633.60	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%	5187456.00				-				-				-

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
iv.	Retrofication for Grit Chamber	181,56,096.00	35 %	63,54,633.60	35 %	6354633.60	30 %	54,46,828.80	30 %	54,46,828.80	35 %	63,54,633.60	35 %	63,54,633.60				-
v.	Retrofication for Parshall Flume	51,87,456.00	10 0%	51,87,456.00	10 0 %	5187456.00		-		-			-					-
vi.	Retrofication for Distribution Chamber for Primary Clarifier	51,87,456.00	10 0%	51,87,456.00	70 %	3631219.20		-		-			-					-
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	10 0%	51,87,456.00	40 %	2074982.40		-		-			-					-
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	10 0%	51,87,456.00	70 %	3631219.20		-		-			-					-
xi.	Retrofication for final Sedimentation Tank	181,56,096.00	30 %	54,46,828.80	30 %	5446828.80	35 %	63,54,633.60	5%	9,07,804.80	35 %	63,54,633.60	-					-

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
	on Tank																	
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 Digester	181,56,096.00		-			50%	90,78,048.00	30%	54,46,828.80	50%	90,78,048.00		-		-		-
xvi.	Retrofication for Secondary Digester	77,81,184.00		-			100%	77,81,184.00	50%	38,90,592.00		-		-		-		-
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	50%	25,93,728.00		-		-		-
xix.	Retrofication for Return Sludge Sump	51,87,456.00		-			100%	51,87,456.00	50%	25,93,728.00		-		-		-		-
xx.	Retrofication for	51,87,456.00		-			100%	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
	Centrate/Su pernatant Sump																	
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	50 %	38,90,592.00	10 %	7,78,118.40	-		-	
xxiii.	Retrofication for Return Sludge Pump House	77,81,184.00	-				50 %	38,90,592.00	50 %	38,90,592.00	50 %	38,90,592.00	40 %	31,12,473.60			-	
xxiv.	Retrofication for Thickened Sludge Pumping Station	77,81,184.00	-				50 %	38,90,592.00	50 %	38,90,592.00	50 %	38,90,592.00	40 %	31,12,473.60	-		-	
xxv.	Retrofication for Digested Sludge Pump Station	51,87,456.00	-				50 %	25,93,728.00	50 %	25,93,728.00	50 %	25,93,728.00	40 %	20,74,982.40	-		-	
xxvi.	Retrofication for Centrifuge building/belt filter press bldg	103,74,912.00	-				50 %	51,87,456.00		-	50 %	51,87,456.00	-				-	
xxvii.	Retrofication for Digester Sludge Pumping	51,87,456.00	-				50 %	25,93,728.00	50 %	25,93,728.00	50 %	25,93,728.00	50 %	25,93,728.00	-		-	

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
	Station (Building)																	
xxviii.	Retrofication for Biogas Compressor Room	51,87,456.00	-				-		-		50 %	25,93,728.00	50 %	25,93,728.00	50 %	25,93,728.00	20 %	10,37,491.20
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>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	80 %	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
vi.	Grit Mechanism - Installation		7.00%	5,44,682.88	7%	5,44,682.88	6.0%	4,66,871.04	6%	4,66,871.04	7%	5,44,682.88	7%	5,44,682.88		-		-
vii.	Primary Clarifier Mechanism - Supply	77,81,184.00	-	-	-	-	80%	62,24,947.20	80%	62,24,947.20	-	-	-	-	-	-	-	-
viii.	Primary Clarifier Mechanism - Installation		-	-	-	-	9%	7,00,306.56	9%	7,00,306.56	11%	8,55,930.24	9%	7,00,306.56	-	-	-	-
ix.	Surface Aerator - Supply	259,37,280.00	25%	64,84,320.00	25%	64,84,320.00	25%	64,84,320.00	25%	64,84,320.00	30%	77,81,184.00	30%	77,81,184.00		-		-
x.	Surface Aerator - Installation		6.5%	16,86,883.84	6.5%	16,85,923.20	6.22%	16,11,953.92	6%	16,13,298.82	7.3%	18,88,233.98	7.3%	18,93,421.44	-	-	-	-
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		-	-	-	-	-	-	-	-	-	-	-	-	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
	- Installation																	
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	-		-		-		-		-	
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 Ancillary Equipment-Supply	51,87,456.00		-	-		80 %	41,49,964.80	-		-		-		-		-	
xxiv.	Digester Sludge Heating			-	-		-		-		-		-		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
	System and Ancillary Equipment-Installation																	
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	-		-		-	
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 ancillary equipment - Supply	51,87,456.00	-		-		-		-		-		-		80 %	41,49,964.80	-	
xxxii.	Gas Scrubber with ancillary equipment - Installation		-		-		-		-		-		-		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
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	-	
xxxvi i.	Agitator for blending tank - Supply	51,87,456.00	80 %	41,49,964.80	-				-				-				-	
xxxvi ii.	Agitator for blending tank - Installation		-		-		-		-		20 %	10,37,491.20	-				-	
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 i.	Agitator for Centrifuge		-		-		-		-		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
	Feed Sump - Installation																	
xxxxi ii.	Agitator for Poly Dosing Tank - Supply	51,87,456.00	80 %	41,49,964.80	-	-	-	-	-	-	20 %	10,37,491.20	-	-	-	-	-	-
xxxxi v.	Agitator for Poly Dosing Tank - Installation		-	-	-	-	-	-	-	-	20 %	10,37,491.20	-	-	-	-	-	-
xxxx v.	Poly Dosing Pumps - Supply	51,87,456.00	80 %	41,49,964.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-
xxxx vi.	Poly Dosing Pumps - Installation		-	-	-	-	-	-	-	-	20 %	10,37,491.20	-	-	-	-	-	-
xxxx vii.	Valves - Supply	103,74,912.00	-	-	-	-	-	-	-	-	80 %	82,99,929.60	-	-	-	-	-	-
xxxx viii.	Valves - Installation		-	-	-	-	-	-	-	-	10 %	10,37,491.20	-	-	10 %	10,37,491.20	-	-
xxxxi x.	Gates (Open Channel ) - Supply	103,74,912.00	-	-	-	-	-	-	-	-	80 %	82,99,929.60	60 %	62,24,947.20	-	-	-	-
xxxx x.	Gates (Open Channel ) - Installation		-	-	-	-	-	-	-	-	10 %	10,37,491.20	-	-	10 %	10,37,491.20	-	-
xxxx xi.	Existing Duel Fuel Generators	51,87,456.00	-	-	-	-	-	-	-	-	-	-	-	-	100 %	51,87,456.00	-	-
xxxx xii.	Gas Holder Dome-Fabrication	51,87,456.00	-	-	-	-	-	-	-	-	-	-	-	-	100 %	51,87,456.00	-	-
xxxx xiii.	Borewell Pump - Supply	51,87,456.00	-	-	-	80 %	41,49,964.80	40 %	20,74,982.40	-	-	-	-	-	-	-	-	-
xxxx xiv.	Borewell Pump -		-	-	-	-	-	-	-	-	20 %	10,37,491.20	10 %	5,18,745.60	-	-	-	-

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
	Installation																	
xxxx xv.	Service Water Pump - Supply	51,87,456.00	80 %	41,49,964.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-
xxxx xvi.	Service Water Pump - Installation		-	-	-	-	20 %	10,37,491.20	-	-	-	-	-	-	-	-	-	-
xxxx xvii.	Overhead Tank - Supply	51,87,456.00	-	-	-	-	-	-	-	-	-	-	-	-	80 %	41,49,964.80	-	-
xxxx xviii.	Overhead Tank - Erection		-	-	-	-	-	-	-	-	-	-	-	-	20 %	10,37,491.20	-	-
xxxx xix.	Dewatering Pump for Dry well - Supply	51,87,456.00	-	-	-	-	80 %	41,49,964.80	-	-	-	-	-	-	-	-	-	-
xxxx xx.	Dewatering Pump for Dry well - Erection		-	-	-	-	10 %	5,18,745.60	-	-	10 %	5,18,745.60	-	-	-	-	-	-
xxxx xxi.	Monorail for lifting arrangement - Supply	51,87,456.00	80 %	41,49,964.80	60 %	31,12,473.60	-	-	-	-	-	-	-	-	-	-	-	-
xxxx xxii.	Monorail for lifting arrangement - Installation		20 %	10,37,491.20	12 %	6,22,494.72	-	-	-	-	-	-	-	-	-	-	-	-
xxxx xxiii.	DI Pipes & Fittings - Supply	51,87,456.00	-	-	-	-	40 %	20,74,982.40	-	-	40 %	20,74,982.40	-	-	-	-	-	-
xxxx xxiv.	DI Pipes & Fittings -		-	-	-	-	-	-	-	-	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																	
xxxx xxv.	MS Pipes & Fittings - Supply	51,87,456.00	-		-		40 %	20,74,982.40	-		40 %	20,74,982.40	-				-	
xxxx xxvi.	MS Pipes & Fittings - Erection		-		-				-		20 %	10,37,491.20	-				-	
xxxx xxvii.	SS Pipes & Fittings - Supply	51,87,456.00	-		-		40 %	20,74,982.40	-		40 %	20,74,982.40	-				-	
xxxx xxviii.	SS Pipes & Fittings - Erection		-		-				-		20 %	10,37,491.20	-				-	
xxxx xxix.	Lab Equipment - Supply	51,87,456.00	-		-				-				-		80 %	41,49,964.80		-
xxxx xxx.	Lab equipment-Installation		-		-				-				-		20 %	10,37,491.20		-
xxxx xxxi.	Testing & Commissioning for Mechanical Items	129,68,640.00	-		-				-		-		-		100 %	129,68,640.00		-
C.	Electrical Work(Renovation/New Procurement)																	
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 %	9,60,640.00	100 %	4,80,320.00
iii.	Supply of HT Metering	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
	Panel																	
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	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/Thick ener Panel	96,06,400.00				-				-				-	80 %	76,85,120.00		-
xii.	Installation of Other equipments panel (MCC-2 PANEL)/Bar					-				-				-	20 %	19,21,280.00		-

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
	screen panel/Thick ener Panel																	
xiii.	Supply of Digestor system panel (MCC-3 PANEL)	96,06,400.00				-				-				-	80 %	76,85,120.00		-
xiv.	Installation of Digestor 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					-		-		-				-	20 %	9,60,640.00		-

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
	Motors																	
xxi.	Supply of Cable Tray	48,03,200.00				-				-		-		-	80 %	38,42,560.00	80 %	38,42,560.00
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
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	80 %	38,42,560.00
xxvi.	Installation of Street Light Fixture					-				-		-		-	20 %	9,60,640.00	100 %	4,80,320.00
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/	52,59,504.00		-			100 %	52,59,504.00								-		

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
	Raft																	
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			-			
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>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		

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>EOT/HOIST WORKS</b>																	
	(i) On supply of machinery/ equipment at site	61,48,096.00									10 0%	61,48,096.00	50 %	3074048.00				
	(ii) On completion of erection works	11,52,768.00													10 0 %	11,52,768.00		
	(iii) On completion of Testing of equipment	3,84,256.00													10 0 %	3,84,256.00		
	<b>ELECTRICAL WORK</b>																	
	(i) On supply of machinery/ equipment at site	49,95,328.00									10 0%	49,95,328.00	50 %	2497664.00				
	(ii) On completion of erection works	9,36,624.00													10 0 %	9,36,624.00		
	(iii) On completion of Testing of equipment	3,12,208.00													10 0 %	3,12,208.00		
										-				-				-
E.	<b>Chlorination Tank Area</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
i.	Excavation	4,80,320.00	10 0%	4,80,320.00														
i.	PCC	9,60,640.00	10 0%	9,60,640.00														
ii.	RCC Foundation/ Raft	14,40,960.00		-			10 0%	14,40,960.00										
iii.	Wall 50% of total lift work	19,21,280.00		-			10 0%	19,21,280.00										
iv.	Walls (balance 50% of Total Lift work)	19,21,280.00		-				-			10 0%	19,21,280.00						
v.	Baffle Walls work	9,60,640.00		-				-			10 0%	9,60,640.00						
vi.	Brickwork & Plaster	14,40,960.00		-				-			10 0%	14,40,960.00				-		
ix.	Finishing Work	4,80,320.00		-											10 0 %	4,80,320.00		
F	<b>Chlorination Room Area</b>																	
i.	Excavation	4,80,320.00	10 0%	4,80,320.00														
i.	PCC	9,60,640.00	10 0%	9,60,640.00														
ii.	RCC Foundation/ Column Footing	14,40,960.00		-			10 0%	14,40,960.00										
iii.	Column & Beam work	19,21,280.00		-			10 0%	19,21,280.00										
iv.	Ground Floor Slab	19,21,280.00		-				-			10 0%	19,21,280.00						
v.	Roof Slab	9,60,640.00		-				-			10 0%	9,60,640.00						

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
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 Testing of equipment	12,96,864.00													100%	12,96,864.00		
	<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														10			



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
	completion of Testing of equipment	2,16,144.00													0 %	2,16,144.00		
	<b>ELECTRICAL &amp; INSTRUMENTATION WORK</b>																	
	(i) On supply of machinery/ equipment at site	57,63,840.00									10 0%	57,63,840.00						
	(ii) On completion of erection works	10,80,720.00													10 0 %	10,80,720.00		
	(iii) On completion of Testing of equipment	3,60,240.00													10 0 %	3,60,240.00		
III.	<b>RENOVATION WORK for IPS (4 nos) &amp; CSPS (1no)</b>																	
a.i.	<b>Civil Works</b>									-				-				-
	<b>(i) Nawabganj IPS</b>									-				-				-
	a. Retrofication of Inlet Chamber	13,44,896.00	10 0%	13,44,896.00	10 0 %	1344896.00												
	b.		10		10	1344896.00												

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
	Retrofication of Screen Chamber	13,44,896.00	0%	13,44,896.00	0%													
	c. Retrofication of Wet Well	13,44,896.00					100%	13,44,896.00	100%	1344896.00								
	d. Retrofication of Pump House	13,44,896.00					100%	13,44,896.00	100%	1344896.00								
a. ii.	<b>Mechanical Work(Servicing &amp; Overhauling /New Procurement)</b>																	
	(i) Nawabganj IPS									-				-				-
	a. Supply of Centrifugal Pump	13,44,896.00					80%	10,75,916.80	80%	1075916.80								
	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	30%	201734.40								
	d. SS/MS Structural Work - Fabrication										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
	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	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.	Electrical Work(Servicing & Overhauling /New Procurement)	13,44,896.00		-				-			50 %	6,72,448.00			50 %	6,72,448.00		

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
a. iv.	Testing & Commissioning	13,44,896.00		-											100%	13,44,896.00		
b.i.	Civil Works																	
	(i) Parmat IPS																	
	a. Retrofication of Inlet Chamber	13,44,896.00	100%	13,44,896.00	70%	941427.20												
	b. Retrofication of Screen Chamber	13,44,896.00	100%	13,44,896.00	70%	941427.20												
	c. Retrofication of Wet Well	13,44,896.00					100%	13,44,896.00	75%	1008672.00								
	d. Retrofication of Pump House	13,44,896.00					100%	13,44,896.00	75%	1008672.00								
ii.	Mechanical Work(Servicing & Overhauling /New Procurement)																	
	(i) Parmat IPS									-				-				-
	a. Supply of Centrifugal Pump	13,44,896.00					80%	10,75,916.80	40%	537958.40								
	b. Installation of										20%	2,68,979.20						

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
	Centrifugal Pump																	
	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	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						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
	Pump for dry well - Installation																	
iii.	Electrical Work(Servicing & Overhauling /New Procurement)	13,44,896.00		-				-			50 %	6,72,448.00			50 %	6,72,448.00		
iv.	Testing & Commissioning	13,44,896.00		-				-				-			100 %	13,44,896.00		
c.i.	Civil Works																	
	(i) Baba Ghat IPS																	
	a. Retrofication of Inlet Chamber	13,44,896.00	100 %	13,44,896.00	100 %	1344896.00												
	b. Retrofication of Screen Chamber	13,44,896.00	100 %	13,44,896.00	100 %	1344896.00												
	c. Retrofication of Wet Well	13,44,896.00					100 %	13,44,896.00	100 %	1344896.00								
	d. Retrofication of Pump House	13,44,896.00					100 %	13,44,896.00	100 %	1344896.00								
ii.	Mechanical Work(Servicing & Overhauling /New																	

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>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 -														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																	
	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.	Electrical Work(Servicing & Overhauling /New Procurement)	13,44,896.00		-				-			70 %	9,41,427.20			30 %	4,03,468.80		
iv.	Testing & Commissioning	13,44,896.00		-				-				-			100 %	13,44,896.00		
d.i.	Civil Works																	
	(i) Guptar Ghat IPS																	
	a. Retrofication of Inlet	13,44,896.00	100 %	13,44,896.00	100 %	1344896.00												



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
	Chamber																	
	b. Retrofication of Screen Chamber	13,44,896.00	100%	13,44,896.00	100%	1344896.00												
	c. Retrofication of Wet Well	13,44,896.00					100%	13,44,896.00	100%	1344896.00								
	d. Retrofication of Pump House	13,44,896.00					100%	13,44,896.00	100%	1344896.00								
ii.	Mechanical Work(Servicing & Overhauling /New Procurement)																	
	(i) Guptar Ghat IPS								-				-					-
	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 -										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
	Fabrication																	
	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														
	l. Dewatering Pump for dry well - Installation						20 %	1,34,489.60										
iii.	Electrical Work(Servicing & Overhauling /New	13,44,896.00		-				-			50 %	6,72,448.00			50 %	6,72,448.00		

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
	Procurement)																	
iv.	Testing & Commissioning	13,44,896.00		-				-				-			100%	13,44,896.00		
e.i.	Civil Works																	
	(i) CSPS - Jajmau																	
	a. Retrofication of Inlet Chamber	13,44,896.00	100%	13,44,896.00	100%	1344896.00												
	b. Retrofication of Screen Chamber	13,44,896.00	100%	13,44,896.00	100%	1344896.00												
	c. Retrofication of Wet Well	13,44,896.00					100%	13,44,896.00	100%	1344896.00								
	d. Retrofication of Pump House	13,44,896.00					100%	13,44,896.00	100%	1344896.00								
ii.	Mechanical Work(Servicing & Overhauling /New Procurement)																	
	(i) CSPS - Jajmau									-				-				-
	a. Supply of Centrifugal Pump	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
	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 -	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
	Supply																	
	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.	Electrical Work(Servicing & Overhauling /New Procurement)	6,72,448.00		-				-			51.5 %	3,46,214.66			49 %	3,26,617.60		
iv.	Testing & Commissioning	13,44,896.00		-				-					-		100 %	13,44,896.00		
IV.	RTOLM WORK for STP ,IPS & CSPA Aea																	
1	STP Aea	-																
i.	Supply of Local Field Instruments for STP facility	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
ii.	Installation of Local Field Instruments for STP facility			-							20 %	6,72,448.00				-		
iii.	Supply of Remote Field Instruments for STP facility	33,62,240.00		-							80 %	26,89,792.00				-		
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			-								-			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																	
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 Room for STP facility			-								-			20 %	1,92,128.00		
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		

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
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	10 %	480320.00
xix.	Testing & Commissioning of PLC & RIO for STP facility	24,01,600.00	-								-				100 %	24,01,600.00		
2	<b>IPS &amp; CSPS Aea</b>																	
i.	Supply of Local Field Instruments for IPS & CSPS facility	33,62,240.00	-								80 %	26,89,792.00						
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		



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
iv.	Installation of Remote Field Instruments for IPS & CSPA facility			-								-			20 %	6,72,448.00		
v.	Supply of RTU/RIO Panel for IPS & CSPA facility	28,81,920.00		-								-			80 %	23,05,536.00		
vi.	Installation of RTU/RIO Panel for IPS & CSPA facility			-								-			20 %	5,76,384.00		
vii.	Supply of UPS for IPS & CSPA facility	24,01,600.00		-											80 %	19,21,280.00		
viii.	Installation of UPS for IPS & CSPA facility			-											20 %	4,80,320.00		
ix.	Supply of Instrument, Control & Bus Cable Work for IPS & CSPA facility	48,03,200.00		-				-				-			80 %	38,42,560.00		
x.	Installation of Instrument, Control & Bus Cable Work for IPS & CSPA			-				-				-			20 %	9,60,640.00		

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																	
xi.	Testing & Commissioning of RTU/RIO for IPS & COPS 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		
				-						-			-					-
V	TRIAL RUN & COMMISSIONING																	
1	Trial Run & Commissioning									-			-					-
		9606,40,000.00		2401,60,000.00		1654,06,837.76		2401,60,000.00		1307,34,650.37		2401,60,000.00		675,04,434.79		2401,60,000.00		342,56,422.40

## 130MLD STP JAJMAU Site Pictures during renovation period



**Primary Sedimentation Tank 02 renovation work completed 29.1.22**



**Bio-remediation started on 28.1.2022****Secondary sedimentation tank 02 under renovation****Distribution chamber for primary sedimentation tank is in under renovation**



**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
11. 4.01.2022 }  
CSPS Jajmau } Inspection report issued on 10.1.2022 for 130 MLD STP, IPSs and

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

- Grit classifier 02 found un-operational due to improper installation.
- Renovation work of Grit chamber 03 done.
- Grit mechanism system No. 3 has been installed and is in running condition but there are some defects to be rectified which has been indicated by PE vide STC letter no 1378 dated 10.1.2022.
- Classifier no.01 & 02 Concessionaire promises to rectify the grit classifier defects within dec 2021 month but KRMPL has not been rectifying till dated.
- Organic pump no.01, 02 and 03 have 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.
- Power backup and CCTV cameras need to be installed on urgent basis.

#### vi. Primary Sedimentation Tank

- STC team along with UPJN visited 130 MLD STP Jajmau Phase-1 on 28.01.2022 & 29.01.2022 for inspection of Primary Clarifier Mechanism no.2 which was informed by KRMPL that it's ready in all respects for charge UPJN&PE are providing conditional clearance to charge sewage in to Primary sedimentation tank vide STC letter no.1408 dated 29.01.2022.
- Clarifier Mechanism no.2 with the following conditions. Hydro test need to be done by KRMPL before charging the PST 02.
- PST 01 and 03 renovation work has 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.
- PE has recommended the TEPH piping GAD vide Letter No. 1414 dated 31.1.2022. KRMPL has not started the works yet.

**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 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.
- PE has recommended the technical data sheet; GAD and QAP for approval submersible mixer vide Letter No. 1413 dated 31.1.2022. Approval from UPJN is pending.

**xiii. Supernatant pumps**

- KRMPL has submitted the Technical data sheet of supernatant pumps vide their letter No.2059 dated 31.12.2021 and PE commented on Technical data sheet of supernatant pumps vide STC letter no. 1384 dated 11.1.2022.Compliance from KRMPL is awaited.

#### **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 PE commented on compliance report vide STC letter no 1367 dated 04.01.2022.

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

- Concessionaire done plastering and finishing work as per approved procedure at FST2.
- KRMPL need to renovate the inlet and outlet valve chamber with all respects.
- KRMPL need to renovate the effluent channel with all respects under renovation.
- 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.
- Plaster work is doing by KRMPL in DFG room.

#### **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.

#### **vii. Joint sampling and testing by NABL Lab**



- Testing reports from Spectra research Lab ventures (P) Ltd. of the Joint sample taken on 02.10.2021, 27.11.2021 test reports yet not submitted by concessionaire.
- Shri Ram Institute for Industrial Research New Delhi of the joint sample taken on 3-4<sup>th</sup> Dec 2021, 16-17<sup>th</sup> Dec 2021, 22-23<sup>th</sup> Dec 2021 and 31<sup>st</sup> Dec 2021 with UPJN, STC and KRMPL representatives.
  - Test results reports for samples taken by Shri Ram Institute for Industrial Research New Delhi on 3-4<sup>th</sup> Dec 2021, 16-17<sup>th</sup> Dec 2021, and 22-23<sup>th</sup> Dec 2021 and reports of 31<sup>st</sup> Dec 2021 is awaited from KRMPL.

• **Chlorination facilities to 130 MLD STP Jajmau Phase 1:-**

As per applicable laws of the land KRMPL is not allowed to dispose of untreated effluent without chlorination. Yet chlorination system is not available at site KRMPL is required to provide a temporary arrangement for chlorination.

**Monthly Activity Report of 130 MLD STP Jajmau and facilities Phase 1 for December**

Attached separately

**Site Inspection Reports for the Month of January 2022 (130 MLD STP Jajmau Phase 1)**

Attached separately

**Site Inspection Reports for the Month of January 2022 (130 MLD STP IPS Jajmau Phase 1)**

Attached separately

**Test Result of Shriram lab New Delhi Joint Sampling Report of Influent & Treated Effluent**

Attached separately

## 7.2 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 not in overflow/Bypass condition.
  - 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 43 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 } Inspection report issued on 27.12.2021 for 43 MLD STP IPS facilities Jajmau
8. 21.12.2021 } Phase II
9. 10.12.2021 } Inspection report issued on 27.12.2021 for 43 MLD STP Jajmau Phase II
10. 16.12.2021 }
11. 20.12.2021 }
12. 21.12.2021 }

13. 18.01.2022- inspection report issued on 31.01.2022 for 43 MLD STP Jajmau Phase II.

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

## ii. O&M Manual

- KRMPL has resubmitted the O&M manual for 43 MLD STP Jajmau Phase 2 vide KRMPL letter no 2080 dated 10.01.2022 in compliance of PE comments 1239 dated 01.11.2021 ,which had again reviewed by PE and comments has been issued vide STC letter no 1411 dated 31.01.2022. Compliances by KRMPL are awaited.
- 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 vide KRMPL letter no 2083 dated on 10.01.2022 for the month of December for 43 MLD Jajmau Phase-II
- After review PE has given comments on Monthly performance report for 43 MLD Jajmau Phase-II vide PE letter no. 1405 dated 22.01.2022.KRMPL has submitted compliance to PE comments vide KRMPL letter no 2133 dated 27.01.2022.PE reviewed and issued a letter to KRMPL vide STC letter no 1415 dated 31.1.2022. KRMPL is yet to resubmit Monthly performance report for the month of Dec 2021 after incorporating comments on compliance report given by PE.
- KPIs were within prescribing limit during the month of Dec-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.

#### **viii. 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.

#### **ix. 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.

#### **x. Air Blower system**

- Air blower no 2 has been repaired by KRMPL on 29.01.2022. Now all 3 Nos. blowers are in working condition.

#### **xi. Centrifuge system**

- Both Centrifuges needs to be repair.
- Need to be overhauled & servicing.
- Pipe support shall be installed properly for sludge feed line and dosing line.

#### **xii. Sludge Thickener**

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

#### **xiii. 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.
- xiv. **Disposal Sludge**
- Disposal of sludge is to be done by the KRMPL as per UPPCB norms.
- xv. **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.
- xvi. **Chlorination facilities to 130 MLD STP Jajmau Phase 1:-**As per applicable laws of the land KRMPL is not allowed to dispose of untreated effluent without chlorination. Yet chlorination system is not available at site KRMPL is required to provide a temporary arrangement for chlorination.

**Joint sampling and testing by NABL Lab**

- Testing reports from Spectra research Lab ventures (P) Ltd. of the Joint sample taken on 28.08.2021,04.09.2021,11.09.2021,18.09.2021,25.09.2021,02.10.2021,09.10.2021,16.10.2021, 23.10.2021,06.11.2021 and 27.11.2021 test report yet not submitted by concessionaire.
  - Shri Ram Institute for Industrial Research New Delhi of the joint sample taken on 3-4<sup>th</sup> Dec 2021,16-17<sup>th</sup> Dec 2021,22-23<sup>th</sup> Dec 2021 and 31<sup>th</sup> Dec 2021 with UPJN,STC and KRMPL representatives.
  - Test results reports for samples taken by Shri Ram Institute for Industrial Research New Delhi on on 3-4<sup>th</sup> Dec 2021, 16-17<sup>th</sup> Dec 2021, and 22-23<sup>th</sup> Dec 2021 and reports of 31<sup>st</sup> Dec 2021 is awaited from KRMPL.
- xvii. **KPIs Adherence Report**
- Out of 4 weeks NABL reports, 1 week NABL report is still pending to submit from KRMPL. Therefore, KPIs Adherence Report for the month of Dec-2021 will be submitted by PE only after receiving at NABL reports from KRMPL.

**Monthly Activity Report of 43 MLD STP Jajmau and facilities Phase II for December 2021**

Attached separately

**Site Inspection Reports for the Month of January -2022 (43 MLD STP Jajmau Phase II)**

Attached separately

**Site Inspection Reports for the Month of January-2022 (43 MLD STP IPS Jajmau Phase II)**

Attached separately

**Test Result of Shriram lab new delhi Joint Sampling Report of Influent & Treated Effluent**

Attached separately

### 7.3 210 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. 16.12.2021 - STP Inspection report issued on 24.12.2021.
  15. 22.01.2022
  16. 25.01.2022
  17. 27.01.2022
  18. 20.01.2022- IPS Inspection report issued on 31.01.2022.

Inspection report issued on 31.08.2021

Inspection report issued on 31.10.2021.

STP Inspection report issued on 31.01.2022.

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

19. Bingawan STP's 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 was verified by PE & UPJN and it was found that some of the items informed rectified by KRMPL but found not rectified. It shows that KRMPL submitting false and misleading compliance report.

20. Bingawan IPS's inspection done on 24.11.2021 & 14.12.2021, 29.12.2021 and inspection reports issued on 29.11.2021 & 30.12.2021 respectively.

Compliance of the above inspection reports was submitted by KRMPL vide KRMPL letter no. 2123 & 2127 which was verified by PE and it was found that only dates are being proposed by KRMPL and compliance still pending.

Since 28<sup>th</sup> January 2020 rectifications of various 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 January 2022 of Bingawan facilities are 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.
- Again KRMPL has submitted letter no. 2069 on which PE has issued a detailed explanation letter no. 1387 along with detailed attachment for compliance. All the issues had already been thoroughly mentioned in past PE's letter no. 1325A & 1351 but instead of complying them, KRMPL is providing misleading information.

**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, 9 pumps are working properly and out of the rest 3 nos. pumps, pump no. 4 is not pumping sewage and pump no. 7 & 8 are not working. For 130 MLD flow, at least 5 pumps are required to be operated during peak periods but KRMPL is operation only 2 to 3 pumps till 11:00am and 4 pumps after 11:00 am, 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 still some finishing works etc are pending.
- Main pump house sump is still filled with some floating garbage since both mechanical screens are not working properly. Manual cleaning needs to be 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, 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 Dec. 2021 as per KRMPL's report. There is huge difference between KRMPL lab results and NABL lab results. Out of 16 reactors, 10 nos. UASB reactors (reactor no. 1, 2, 3, 4, 8, 5, 12, 9, 10 & 6) 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 and has finally been cleaned in Jan. 2022. Reactors no. 9, 10, 11 were taken up for cleaning from July 2021, from which Reactor no. 9 & 10 were cleaned in Dec. 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), Reactor no. 15 has been taken up for cleaning from 03.01.2022 (Jan. 2022). Remaining 02 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 five reactors i.e, reactor no. 5, 12, 9, 10 & 6 have been cleaned till date.

**VII. Aeration Lagoon & Final Polishing Unit**

Aeration lagoons are filled with sludge and now the sludge can be seen above the surface water level of aeration lagoon also which is clearly mentioned and shown with picture in PE's Jan. 2022 inspection report.

Final polishing units are completely filled with sludge and it can be clearly seen above



surface water level of the unit.

#### **VIII. 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. 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.

#### **IX. Chlorination System**

- The missing tonners were finally brought at site on 11.12.2021 which were missing after handover dated 08.07.2019.
- Chlorine dosing is not found proper as per the flow. In the month of Oct., Nov. & Dec. 2021, 6055.3 kg, 4885.95 Kg & 1250.75 kg respectively of chlorine has been consumed less than required. As of now, chlorine dosing has not been improved yet and the same was observed by CE, UPJN also during his visit to 210 MLD Bingawan STP on 29.01.2022 and he also observed that the chlorine dosing is not proper. Mr Ajay Kanaujia (Chemist, UPJN) get the chlorine tested in his presence on 19.01.2022 & 25.01.2022 and found zero chlorine in the treated effluent (PE's letter no. 1406 dated 25.01.2022 may be referred regarding this issue). Also on 02.02.2022, chlorine concentration was checked in presence of UPJN & PE officials and still found zero chlorine in the treated effluent.

#### **X. 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).

KRMPL was given the place of disposal by UPJN behind Polishing pond but KRMPL is disposing sludge near BFP and at other locations inside the plant without any permission.

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

- Testing reports 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 & 27.11.2021 have not been submitted by concessionaire.

Testing reports from Shriram Institute for Industrial Research New Delhi, of the Joint sample taken on 31.12.2021 have not been submitted by concessionaire.

- KRMPL has started taking weekly samples from August 2021.
- Now, KRMPL has started weekly sample testing by NABL accredited Sri Ram Labs from Dec. 2021.
- Testing report from Shriram labs of the Joint sample taken on 04.12.2021, 17.12.2021 & 23.12.2021 have been submitted by KRMPL (Reports are enclosed).
- Joint sampling of Inflow and treated effluent has also been done by SMCG UP and IIT Kanpur in the presence of SMCG/ UPJN & PE team and samples have been sent to IIT Kanpur for testing.

**XII. Gas Holder**

- Out of 2 nos. gas holder installed, one gas holder is not in working condition since 23.09.2021.
- On 27.01.2022, PE along with UPJN officials visited Bingawan STP for the inspection but none of KRMPL's technical personnel including the plant in-charge were present at the site because of which inspection could not being done.

**XIII. Gas Scrubber Unit**

- Scrubber is not working since 28.01.2020.
- On 27.01.2022, PE & UPJN officials visited Bingawan STP and it was found that blower was not working because of which inspection of scrubber could not being possible.

**XIV. 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.

**XV. 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.

**XVI. KPIs Adherence Report**

- Out of 4 weeks NABL reports, 1 week NABL report is still pending to submit from KRMPL. Therefore, KPIs Adherence Report for the month of Dec.-2021 will be submitted by PE only after receiving all NABL reports from KRMPL.
- Now the testings of KPIs are being done through M/s Shriram Labs, New Delhi and the results of M/s Shriram Labs are also not matching with the results of KRMPL lab and UPPCB test results.

## Monthly Activity Report of Bingawan for December 2021

210 MLD SEWAGE TREATMENT PLANT,BINGAWAN,KANPUR																									
MONTHLY FLOW & LAB REPORT																									
MONTH-DEC-2021																									
Date	INLET FLOW in MLD	Plant Run in HRS	RAW SEWAGE						AFTER UASB REACTOR						FINAL OUTLET						Sludge Concentration	FECAL COLIFORM (<1000)	POWER SHUTDOWN		REMARK
			Temp	TDS	PH	COD (52mg /l)	BOD (322mg /l)	TSS (418mg /l)	Temp	TDS	PH	COD	BOD	TSS	Temp	TDS	PH (6.5-9.5)	COD (<100 mg/l)	BOD (<30mg /l)	TSS (<50mg /l)			HRS	MINS	
			°c	ppm	ppm	ppm	ppm	ppm	°c	ppm	ppm	ppm	ppm	ppm	°c	ppm	ppm	ppm	ppm	ppm	%	mpn			
1-Dec-21	129.31	24.0	22	820	7.2	544	175	527	22	830	7.2	240	78	240	22	800	7.4	128	33	42	33.68	610			
1-Dec-21	129.31	24.0	22	810	7.2	616	180	500	22	820	7.2	264	87	180	21	800	7.4	112	34	42	33.67	620			
3-Dec-21	135.56	24.0	23	830	7.2	576	165	536	23	840	7.1	200	78	186	22	820	7.4	104	32	56	33.84	620			
4-Dec-21	126.54	24.0	23	820	7.3	560	160	505	23	830	7.3	208	80	190	22	820	7.5	120	36	48	33.1	600	11	25	
5-Dec-21	127.22	24.0	23	800	7.3	552	155	504	22	810	7.2	216	78	196	22	800	7.4	112	37	46	32.37	620	12	0	
6-Dec-21	131.39	24.0	23	810	7.3	632	185	528	22	820	7.2	256	84	176	22	805	7.4	112	35	34	32.94	600			
7-Dec-21	127.75	24.0	23	820	7.2	536	160	510	23	830	7.2	232	75	186	23	820	7.4	120	36	36	31.84	620			
8-Dec-21	144.24	24.0	23	830	7.2	528	155	500	23	840	7.2	256	80	180	22	820	7.4	128	38	37	30.88	640			
9-Dec-21	131.04	24.0	23	820	7.1	560	170	460	22	830	7.1	240	78	192	22	800	7.3	144	39	36	30.73	620			
10-Dec-21	131.56	24.0	22	810	7.2	576	180	482	22	820	7.1	256	84	184	21	800	7.3	152	40	42	34.11	610			
11-Dec-21	134.35	24.0	22	838	7.3	582	185	480	22	840	7.3	272	84	164	22	820	7.4	160	38	34	33.86	600			
12-Dec-21	128.10	24.0	22	850	7.3	544	165	495	21	860	7.2	240	78	180	21	840	7.4	144	36	40	33.73	590			
13-Dec-21	118.54	24.0	22	840	7.3	568	170	502	21	850	7.2	248	80	204	21	830	7.5	152	35	42	36.48	570	12	50	
14-Dec-21	118.73	24.0	22	838	7.3	608	180	516	22	840	7.2	256	87	210	21	820	7.4	160	36	44	35.81	580	14	0	
15-Dec-21	131.38	24.0	21	830	7.3	576	170	506	21	850	7.1	240	80	206	20	800	7.4	136	33	40	37.76	590			
16-Dec-21	136.60	24.0	21	820	7.3	580	165	467	21	830	7.1	224	75	182	21	820	7.4	112	32	36	34.81	580			
17-Dec-21	134.52	24.0	21	840	7.2	544	160	480	21	850	7.1	230	78	186	21	830	7.3	104	30	34	33.55	590			
18-Dec-21	139.20	24.0	21	810	7.2	552	170	476	21	830	7.2	216	72	184	20	800	7.4	96	29	38	36.49	600			
19-Dec-21	132.43	24.0	21	820	7.3	544	165	482	21	840	7.2	224	75	190	20	820	7.4	112	31	36	35.05	620			
20-Dec-21	124.79	24.0	22	800	7.3	560	175	464	22	820	7.1	208	72	196	21	790	7.5	104	30	44	36.58	610			
21-Dec-21	129.14	24.0	22	840	7.3	560	170	458	21	850	7.2	240	78	194	21	820	7.4	112	32	42	36.41	600			
22-Dec-21	134.02	24.0	22	820	7.2	568	175	470	21	830	7.0	232	78	188	21	800	7.3	96	29	38	33.21	620			
23-Dec-21	139.20	24.0	21	838	7.2	552	170	466	21	840	6.9	216	75	182	20	820	7.3	104	30	40	35.28	650			
24-Dec-21	142.33	24.0	21	810	7.2	576	180	474	21	820	6.9	227	80	188	21	790	7.4	100	29	36	36.76	640			
25-Dec-21	128.96	24.0	21	800	7.2	547	165	480	21	810	7.0	224	78	200	20	790	7.4	96	29	42	36.07	613			
26-Dec-21	131.04	24.0	21	820	7.3	608	190	477	20	830	7.0	240	84	197	20	800	7.4	112	31	37	36.71	642			
27-Dec-21	135.24	24.0	20	780	7.3	582	185	487	20	800	6.9	240	84	194	20	760	7.3	104	30	38	36.27	590			
28-Dec-21	136.43	24.0	20	770	7.3	580	160	480	20	790	7.1	227	75	197	20	750	7.3	96	31	37	36.09	620			
29-Dec-21	120.10	24.0	20	780	7.4	576	155	473	20	800	7.2	240	78	188	19	760	7.5	144	35	34	36.83	640			
30-Dec-21	126.54	24.0	20	800	7.4	582	165	465	20	810	7.1	232	80	180	20	790	7.5	128	34	32	35.81	645			
31-Dec-21	127.58	24.0	20	810	7.3	640	180	484	20	830	7.0	240	80	196	20	800	7.4	112	31	36	36.68	640			
TOTAL	4063.15	24.00																							
AVG	131.07	24.00	21.61	816.13	7.26	571.58	170.48	488.19	21.35	828.71	7.12	234.97	79.35	191.48	20.90	803.06	7.39	119.87	33.25	39.32	34.79	613.87	49	45	

### Enclosure: Site Inspection Reports for the Month of January-2021 (Bingawan STP)

Attached separately

### Enclosure: Site Inspection Reports for the Month of January-2021 (Bingawan IPS)

Attached separately

### Enclosure: Test Result of Joint Sampling Report of Influent & Treated Effluent (Bingawan)

Attached separately

**7.4 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 }
  6. 11.01.2022- STP Inspection report issued on 17.01.2022.
  7. 20.01.2022- IPS Inspection report issued on 31.01.2022.

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

8. 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.

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.
- Again KRMPL has submitted letter no. 2069 on which PE has issued a detailed explanation letter no. 1387 along with detailed attachment for compliance. All the issues had already been thoroughly mentioned in past PE's letter no. 1325A & 1351 but instead of complying them, KRMPL is providing misleading information.

### 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. 3 is non-operational since 09.12.2021 and the pressure gauge of pump no. 3 is not available.

**x. Chlorination System**

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

**xi. Sludge Thickener**

- After around 10 months of non-operational since 03.03.2021, Sludge thickener no. 2 was made operational on 07.01.2022.
- Sludge thickener no. 1 is only rotating but not thickening properly. No supernatant was being observed during PE's inspections.

**xii. Gas Generators**

All 3 nos. of Gas Generators are in working condition but gas is available to operate only one gas generator for 3 to 4 hours a week.

**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.
- PE along with UPJN has inspected digester no. 2 on 11.01.2022 (PE's Letter no. 1385 should be referred regarding Digester no. 2 inspection) and it was found that the replaced impeller is colliding with the surrounding DI pipe which means installation work is not properly done which is required to be rectified. This is producing noise which may result in breakdown.

**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.
- Now, KRML has started weekly sample testing by NABL accredited Sri Ram Labs from Dec. 2021.
- Testing reports from Sri Ram Institute for Industrial Research New Delhi, of the Joint sample taken on 31.12.2021 have not been submitted by concessionaire.

- Testing report from Sri Ram labs of the Joint sample taken on 04.12.2021, 17.12.2021 & 23.12.2021 have been submitted by KRMPL (Reports are enclosed).
- Joint sampling of Inflow and treated effluent has also been done by SMCG UP and IIT Kanpur in the presence of SMCG/ UPJN & PE team and samples have been sent to IIT Kanpur for testing.

#### **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 directed by ED (Technical).
- Sludge drying beds are not being emptied as per cycle and sludge is not been disposed off regularly.
- From Nov.2021, KRMPL has emptied only 3 beds and one bed is under process of emptying.

#### **xvii. 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. Still KRMPL has not started schedule maintenance works.

#### **xviii. KPIs Adherence Report**

- KPIs Adherence Report for the month of Dec.-2021 has not been submitted by PE because KRMPL has not yet submitted all weeks NABL lab reports for Dec. 2021 of Sajari STP. Out of 4 weeks NABL reports, 1 week NABL report is still pending for submission from KRMPL.
- Now the testings of KPIs are being done through M/s Shriram Labs, New Delhi and the results of M/s Shriram Labs are also not matching with the results of KRMPL lab and UPPCB test results.

## Monthly Activity Report of Sajari for December 2021

42 MLD SEWAGE TREATMENT PLANT, SAJARI, KANPUR MONTHLY FLOW & LAB REPORT																			
Dec-2021																			
Date	INLET FLOW in MLD	Plant Run in Hrs	INFLUENT						EFFLUENT						T.C (+300) MPN/100ml	SLUDGE ANALYSIS		POWER SHUTDOWN hrs	REMARK
			Temp	TSS	pH	COO (+50)	BOO (+25)	TSS (+500)	Temp	TSS	pH	COO (+100)	BOO (+50)	TSS (+50)		Grav (+25%)	Grav (+2000 00)		
			%	ppm		ppm	ppm	ppm	%	ppm		ppm	ppm	ppm		%	(NPK/g)		
01 Dec 2021	18.72	24.00	26	1230	7.5	488	189	320	26	1050	7.9	92	23	36	124			0.00	TWO STREAM IS UNDER OPERATION Plant Dye color in Raw Sewage
02 Dec 2021	19.06	24.00	26	1270	7.6	512	185	350	26	1070	8.0	104	24	35.0	115			0.00	TWO STREAM IS UNDER OPERATION Plant Dye color in Raw Sewage
03 Dec 2021	20.54	24.00	26	1250	7.7	464	155	320	26	1030	8.1	96	22	36	127			0.00	TWO STREAM IS UNDER OPERATION Plant Dye color in Raw Sewage
04 Dec 2021	19.97	24.00	26	1180	7.5	416	170	298	26	990	8.1	88	25	28.0	115			0.00	TWO STREAM IS UNDER OPERATION
05 Dec 2021	19.47	24.00	25	1220	7.6	448	165	310	25	980	8.1	96	23	32	126			0.00	TWO STREAM IS UNDER OPERATION Plant Dye color in Raw Sewage
06 Dec 2021	19.97	24.00	25	1310	7.6	528	180	370	26	1080	8.1	104	25	35	119			0.00	ONE STREAM IS UNDER OPERATION Plant Dye color in Raw Sewage
07 Dec 2021	18.89	24.00	25	1330	7.5	480	185	380	26	990	8.1	96	26	38	407			0.00	ONE STREAM IS UNDER OPERATION Plant Dye color in Raw Sewage
08 Dec 2021	19.21	24.00	24	1310	7.6	512	170	340	25	995	8.0	110	25	40	126			0.00	ONE STREAM IS UNDER OPERATION Plant Dye color in Raw Sewage
09 Dec 2021	19.98	24.00	24	1320	7.6	504	175	317	25	1005	8.1	104	24	35	407			0.00	ONE STREAM IS UNDER OPERATION Plant Dye color in Raw Sewage
10 Dec 2021	19.47	24.00	24	1230	7.4	464	165	295	25	980	7.8	96	23	37	406			0.00	ONE STREAM IS UNDER OPERATION Plant Dye color in Raw Sewage
11 Dec 2021	18.65	24.00	24	1205	7.5	480	195	340	24	975	7.9	104	26	38	440			0.00	ONE STREAM IS UNDER OPERATION Plant Dye color in Raw Sewage
12 Dec 2021	18.98	24.00	24	1200	7.4	472	180	360	24	970	7.6	104	24	41	477			0.00	ONE STREAM IS UNDER OPERATION Plant Dye color in Raw Sewage
13 Dec 2021	19.97	24.00	24	1220	7.5	488	170	340	24	1000	7.7	96	26	42	452			0.00	ONE STREAM IS UNDER OPERATION Plant Dye color in Raw Sewage
14 Dec 2021	19.31	24.00	24	1190	7.6	512	165	365	24	1020	8.1	112	25	45	460			0.00	ONE STREAM IS UNDER OPERATION Plant Dye color in Raw Sewage
15 Dec 2021	18.65	24.00	24	1230	7.6	504	170	330	24	1016	8.0	104	26	40	452			0.00	ONE STREAM IS UNDER OPERATION Plant Dye color in Raw Sewage
16 Dec 2021	19.47	24.00	23	1220	7.5	448	180	350	23	1025	7.9	96	24	42	407			0.00	ONE STREAM IS UNDER OPERATION
17 Dec 2021	18.15	24.00	22	1230	7.5	488	175	370	22	1028	8.0	104	25	46	438			0.00	ONE STREAM IS UNDER OPERATION Plant Dye color in Raw Sewage
18 Dec 2021	18.85	24.00	22	1240	7.5	528	185	335	22	1034	8.1	112	24	42	425			0.00	ONE STREAM IS UNDER OPERATION Plant Dye color in Raw Sewage
19 Dec 2021	17.90	24.00	21	1252	7.5	480	195	320	21	1038	8.0	104	26	39	504			0.00	ONE STREAM IS UNDER OPERATION Plant Dye color in Raw Sewage
20 Dec 2021	17.82	24.00	21	1250	7.6	544	180	365	21	1005	8.0	112	27	42	450			0.00	ONE STREAM IS UNDER OPERATION Plant Dye color in Raw Sewage
21 Dec 2021	18.32	24.00	21	1265	7.7	480	180	325	21	995	8.1	104	24	38	483			0.00	ONE STREAM IS UNDER OPERATION Plant Dye color in Raw Sewage
22 Dec 2021	17.99	24.00	21	1260	7.7	416	182	310	21	980	7.9	96	25	35	407			0.00	ONE STREAM IS UNDER OPERATION
23 Dec 2021	18.48	24.00	22	1285	7.6	528	185	335	22	1020	8.1	112	26	39	472			0.00	ONE STREAM IS UNDER OPERATION Plant Dye color in Raw Sewage
24 Dec 2021	17.80	24.00	22	1240	7.6	488	170	320	22	1015	8.0	104	23	32	452			0.00	ONE STREAM IS UNDER OPERATION Plant Dye color in Raw Sewage
25 Dec 2021	17.74	24.00	22	1310	7.7	416	182	295	22	1015	8.1	96	26	30	504			0.00	ONE STREAM IS UNDER OPERATION
26 Dec 2021	18.07	24.00	22	1296	7.6	512	190	340	22	1030	7.9	104	25	38	438			0.00	ONE STREAM IS UNDER OPERATION Plant Dye color in Raw Sewage
27 Dec 2021	18.48	24.00	22	1285	7.6	544	185	365	22	1060	8.1	112	26	44	521			0.00	ONE STREAM IS UNDER OPERATION Plant Dye color in Raw Sewage
28 Dec 2021	19.06	24.00	22	1280	7.4	520	205	360	21	1040	8.0	104	27	45	440			0.00	ONE STREAM IS UNDER OPERATION Plant Dye color in Raw Sewage
29 Dec 2021	18.65	24.00	21	1235	7.5	432	182	325	21	1025	7.9	96	25	36	521			0.00	ONE STREAM IS UNDER OPERATION Plant Dye color in Raw Sewage
30 Dec 2021	17.90	24.00	21	1320	7.6	512	180	368	21	985	8.1	104	26	41	452	68	5.8x10 <sup>4</sup>	0.00	ONE STREAM IS UNDER OPERATION
31 Dec 2021	18.07	24.00	21	1231	7.5	384	155	340	21	970	7.9	88	23	35	472			0.00	ONE STREAM IS UNDER OPERATION
TOTAL	588.52																		
Avg	18.82	24.00	22.14	1,257.10	7.56	482.58	177.45	337.08	22.26	1,018.74	7.99	100.74	24.81	37.81	418.35	68	5.8x10 <sup>4</sup>	0.00 hrs	

Note: There is a sign of trouble. Reduce water (colours) at 17th Jan (larger area) which was experienced on dates of 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31 Dec 2021.

KRMPL

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### Enclosure: Site Inspection Report for the Month of January 2021 (Sajari STP)

Attached separately

### Enclosure: Site Inspection Report for the Month of January 2021 (Sajari IPS)

Attached separately

### Enclosure: Test Result of Joint Sampling Report of Influent & Treated Effluent (Sajari)

Attached separately



## 8. STATUS OF BEP & OTHER DETAILS

Status of BEPs & 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
A	New Facilities					
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	Rehabilitation and O&M for 15 years					
i	130 MLD STP - Jajmau (Phase I)	Approved except Control philosophy	GA & RCC design & drawing of CCT & TEPH is approved	-	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
C	O&M for 15 years					
i	43 MLD STP - Jajmau (Phase II)	<ul style="list-style-type: none"><li>KRMPL has resubmitted the O&amp;M manual for 43 MLD STP Jajmau Phase 2 vide KRMPL letter no 2080 dated 10.01.2022 in compliance of PE comments 1239 dated 01.11.2021 ,which had again reviewed by PE and comments has been issued vide STC letter no 1411 dated 31.01.2022. Compliances by KRMPL are awaited.</li><li>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</li></ul>				Handover Done

		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.		
ii	42 MLD STP - Sajari	Approved	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.	-
iii	210 MLD STP - Bingawan	Approved	Schedule maintenance works as per approved O&M manual were to be started from 1/08/2020, but not started yet. 2nd year Schedule maintenance submitted by KRMPL vide letter no.936 dated 19.02.2021. STC commented on Schedule maintenance vide letter no.795 dated 15.04.2021. Schedule maintenance works are to be started after the plant is fully operational.  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.	-

## **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)
01.01.2022	Submission of Datasheet, GA, Wiring Diagram & QAP of Transformer under 20 MLD IPS Sundar Nagar & 25 MLD IPS ICI Nalla Kanpur.	24.12.21 J-2813/w-21/294	-	-	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	-	-	-	Under Review.
02.01.2022	Sunday												
03.01.2022	Regarding O&M Manual for 43 MLD STP Jajmau Phase-II.	03.01.22 K-2060	03.01.2022 S-1366A	00	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	-	-	-	Request UPJN to instruct KRMPL to submit the compliance on PE comments.
04.01.2022	Comments on Compliance for Gas mixing system for 130 MLD STP Jajmau Phase-1.	22.12.21 K-2032	04.01.2022 S-1367	13	20	-	-	Dr. Giridhar L.K.Rao Ajay Rahul Anuj	1+1+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)
								Karamveer					
04.01.2022	IAR policy for Bingawan and Sajari.	03.01.22 K-2053	04.01.2022 S-1368	01	20	-	-	J.P.Tripathi A.K.Seth Priyesh Satendra Pankaj Rohit	1+1+1+1+1+1	-	-	-	Request UPJN to instruct KRMPL to submit the compliance on PE comments.
05.01.2022	Submission of Datasheet, GA, Wiring Diagram & QAP of Transformer under 20 MLD IPS Sundar Nagar & 25 MLD IPS ICI Nalla Kanpur.	24.12.21 J-2813/w-21/294	05.01.2022 S-1369	12	20	-	-	Dr. Giridhar L.K.Rao Ajay Rahul Anuj Karamveer	1+1+1+1+1+1	-	-	-	PE submitting our expert's comments and Request UPJN to direct KRMPL to submit the compliance.
05.01.2022	Submission of Datasheet, GA, Wiring Diagram & QAP of Transformer and datasheet, GA, wiring diagram & QAP of DG set under 05 MLD STP Shuklaganj.	21.12.21 K-2028	05.01.2022 S-1370	15	20	-	-	J.P.Tripathi A.K.Seth L.K.Rao Prasoon Priyesh Satendra Pankaj Rohit	1+1+1+1+1+1+1+1	-	-	-	PE submitting our expert's comments and Request UPJN to direct KRMPL to submit the compliance.
06.01.2022	Submission of Instrument datasheet of Electromagnetic flow meter for 20	22.12.21 K-2030	06.01.2022 S-1371	15	20	-	-	Dr. Giridhar A.K.Seth Ajay Rahul	1+1+1+1+1+1	-	-	-	Recommended for Approval.

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Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	Bingawan site.												
10.01.2022	Submission of MPR for the month of December 2021 for NMCG Project.	-	10.01.2022 S-1374	-	20	-	-	Dr. Giridhar J.P.Tripathi Priyesh Satendra Pankaj Rohit Ajay Rahul Anuj Karamveer	1+1+1+1+1+1+1+1+1	-	-	-	MPR for the month of December 2021 submit by PE.
10.01.2022	Inspection Report of 130 MLD STP Jajmau Phase-I, Inspection done on 04.01.2022.	-	10.01.2022 S-1375	-	20	-	-	J.P.Tripathi Pankaj Rohit Ajay Rahul Anuj	1+1+1+1+1+1	-	-	-	Inspection report submitted by PE.
10.01.2022	Inspection report of 130 MLD Jajmau Facilities Phase- I IPS and CSPS inspection done on 04.01.2022.	-	10.01.2022 S-1376	-	20	-	-	J.P.Tripathi Pankaj Rohit Ajay Rahul Anuj	1+1+1+1+1+1	-	-	-	Inspection report submitted by PE.
10.01.2022	Submission of internal illumination documents of 05 MLD STP Shuklaganj.	04.01.22 K-2047	10.01.2022 S-1377	06	20	-	-	Dr. Giridhar A.K.Seth Satish Priyesh Satendra Karamveer	1+1+1+1+1+1	-	-	-	PE submitting our comments.
10.01.2022	Comments on Installation of Grit	06.01.22 K-RFI	10.01.2022 S-1378	04	20	-	-	Dr. Giridhar	1+1+1+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)
	Mechanism no. 3 for 130 MLD STP Jajmau Phase- 1.							Sunil Pankaj Rohit Ajay Rahul Anuj					
10.01.2022	Inspection report of 30 MLD STP Pankha.	05.01.22 K-RFI	10.01.2022 S-1379	05	20	-	-	Dr. Giridhar A.K.Seth Priyesh Satendra Karamveer	1+1+1+1	-	-	-	Inspection report submitted by PE.
10.01.2022	Inspection Report of UASB Reactor No. 06 at 210 MLD Bingawan STP.	05.01.22 K-RFI	10.01.2022 S-1380	05	20	-	-	J.P.Tripathi Pankaj Rohit	1+1+1	-	-	-	Inspection report of UASB Reactor Submitted by PE.
11.01.2022	Recommendation for Approval of GA, Technical datasheet & QAP of Electrical hoist for TEPH & Chlorine tonner room at 130 MLD STP Jajmau Phase- 1.	10.01.22 K-2076	11.01.2022 S-1381	01	20	-	-	Dr. Giridhar A.K.Seth Pankaj Rohit Ajay Rahul Anuj	1+1+1+1+1+1+1	-	-	-	Vetted and recommended for Approval.
11.01.2022	Submission of Datasheet, GA, Wiring Diagram & QAP of Transformer and datasheet, GA, wiring diagram &	08.01.22 K-2073	11.01.2022 S-1382	03	20	-	-	Dr. Giridhar A.K.Seth Priyesh Satendra Karamveer	1+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)
	QAP of DG set under 05 MLD STP Shuklaganj.												
11.01.2022	Reminder- Erection scheme, Manual, Testing & commissioning plan for 30 MLD STP Pankha.	10.01.22 K-RFI	11.01.2022 S-1383	01	20	-	-	Dr. Giridhar Sunil Priyesh Satendra Karamveer	1+1+1+1+1	-	-	-	Request UPJN to instruct KRMPL to submit the compliance on PE comments.
11.01.2022	Submission of Datasheet, GA, Wiring Diagram & QAP of Transformer under 20 MLD IPS Sundar Nagar & 25 MLD IPS ICI Nalla Kanpur.	05.01.22 K-2065	11.01.2022 S-1383A	06	20	-	-	Dr. Giridhar A.K.Seth Priyesh Satendra Karamveer	1+1+1+1+1	-	-	-	PE submitting our comments.
11.01.2022	Comments on revised documents for supernatant pumps at 130 MLD STP Jajmau Phase- 1	05.01.22 J-13/w-03/1	11.01.2022 S-1384	06	20	-	-	J.P.Tripathi Pankaj Rohit Ajay Rahul Anuj	1+1+1+1+1+1	-	-	-	PE submitting our comments.
11.01.2022	Inspection of Digester no. 02 at Sajari STP.	-	11.01.2022 S-1385	-	20	-	-	J.P.Tripathi Pankaj Rohit Ajay Rahul Anuj	1+1+1+1+1+1	-	-	-	Request UPJN to instruct KRMPL to rectify the defects.

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)
12.01.2022	Comments of compliance to review of Jajmau Facilities by ED (Projects).	28.12.21 K-2055	12.01.2022 S-1386	15	20	-	-	Dr. Giridhar J.P.Tripathi Prasoon Sunil A.K.Seth Priyesh Satendra Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitting our comments.
12.01.2022	IAR policy for Bingawan and Sajari.	07.01.22 K-2069	12.01.2022 S-1387	05	20	-	-	Dr. Giridhar J.P.Tripathi Pankaj Rohit Ajay Rahul Anuj	1+1+1+1+1+1+1	-	-	-	PE submitting our comments & Request UPJN to instruct KRMPL as recommended.
13.01.2022	Submission of DG set documents for ICI Nallah and Sundar Nagar IPS under Pankha STP.	11.01.22 K-2090	-	-	20	-	-	Dr. Giridhar J.P.Tripathi A.K.Seth Prasoon Sunil Priyesh Satendra Pankaj Rohit Ajay Rahul Anuj Karamveer	1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1	-	-	-	Under Review.
14.01.2022	Compliance of TEPH piping GA drawing at 130	10.01.22 S-2079	-	-	20	-	-	Dr. Giridhar J.P.Tripathi	1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1	-	-	-	Under Review.

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	MLD STP Jajmau Phase-1.							A.K.Seth Sunil Priyesh Satendra Pankaj Rohit Ajay Rahul Anuj Karamveer					
15.01.2022	Submission of DG set documents for ICI Nallah and Sundar Nagar IPS under Pankha STP.	11.01.22 K-2090	15.01.2022 S-1389	04	20	-	-	Dr. Giridhar J.P.Tripathi A.K.Seth Priyesh Satendra Pankaj Rohit Ajay Rahul Anuj Karamveer	1+1+1+1+1+1+1+1+1+1	-	-	-	Recommended for approval.
16.01.2022	Sunday												
17.01.2022	Inspection Report of 42 MLD Sajari facilities, inspection done on 11.01.2022	-	17.01.2022 S-1390	-	20	-	-	J.P.Tripathi Pankaj Rohit Ajay Rahul Anuj	1+1+1+1+1+1	-	-	-	Inspection report submitted by PE.
17.01.2022	Comments on compliance of TEPH piping GA drawing at 130 MLD STP Jajmau	10.01.22 S-2079	17.01.2022 S-1391	07	20	-	-	J.P.Tripathi Pankaj Rohit Ajay Rahul	1+1+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)
	Phase-1.							Anuj					
17.01.2022	Regarding submission of credentials of Mr.Anirban Mukherjee O&M Incharge.	10.01.22 K-2085	17.01.2022 S-1392	07	20	-	-	J.P.Tripathi Pankaj Rohit Ajay Rahul Anuj	1+1+1+1+1+1	-	-	-	Request UPJN to instruct KRMPL to submit the credentials of Mr. Anirban Mukherjee O&M Incharge.
17.01.2022	Comments on QAP for Ductile Iron pressure pipes for 30 MLD STP Pankha Facilities.	04.01.22 K-2061	17.01.2022 S-1393	13	20	-	-	Dr. Giridhar Priyesh Satendra Karamveer	1+1+1+1	-	-	-	Request UPJN to instruct KRMPL to resubmit the QAP and drawing at earliest.
17.01.2022	Extra claim for earth filling work at 15 MLD STP Unnao.	14.01.22 K-2101	17.01.2022 S-1394	03	20	-	-	Dr. Giridhar Priyesh Satendra Karamveer	1+1+1+1	-	-	-	Inform UPJN for necessary action.
18.01.2022	Regarding Comments on compliance report submitted by KRMPL for Monthly performance report of 43 MLD Jajmau Phase II for the month of Nov- 2021.	13.01.22 J-51/w-34/02	18.01.2022 S-1395	05	20	-	-	J.P.Tripathi A.K.Seth Prasoon Pankaj Rohit Ajay Rahul Anuj	1+1+1+1+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)
18.01.2022	Observation on Monthly activity report of 43 MLD Jajmau Phase II for the month of Sep- 2021.	06.01.22 K-2068	18.01.2022 S-1396	12	20	-	-	J.P.Tripathi Pankaj Rohit Ajay Rahul Anuj	1+1+1+1+1+1	-	-	-	Directed KRMPL to resubmit the monthly performance report for September 2021 incorporating the said points.
18.01.2022	Observation on Monthly activity report of 130 MLD Jajmau Phase- I for the month of Dec- 2021.	10.01.22 K-2084	18.01.2022 S-1397	08	20	-	-	Dr. Giridhar Pankaj Rohit Ajay Rahul Anuj	1+1+1+1+1+1	-	-	-	Directed KRMPL to resubmit the monthly performance report for December 2021 incorporating the said points.
18.01.2022	Observation on Monthly activity report of 210 MLD Bingawan facilities for the month of Dec- 2021.	10.01.22 K-2081	18.01.2022 S-1398	08	20	-	-	Dr. Giridhar Pankaj Rohit Priyesh Satendra Karamveer	1+1+1+1+1+1	-	-	-	Directed KRMPL to resubmit the monthly performance report for December 2021 incorporating the said points.
18.01.2022	Observation on Monthly activity report of 42 MLD Sajari facilities for	10.01.22 K-2082	18.01.2022 S-1399	08	20	-	-	Dr. Giridhar Pankaj Rohit	1+1+1+1+1+1	-	-	-	Directed KRMPL to resubmit the monthly

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)
	the month of Dec- 2021.							Priyesh Satendra Karamveer					performance report for December 2021 incorporating the said points.
19.01.2022	Techno Commercial Proposal for full automation of 42 MLD STP at Sajari.	10.01.22K-2089	19.01.2022 S-1400	09	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	-	-	-	PE submitting our expert's comments.
20.01.2022	Submission of LT Panel documents for IPS & CSPS for 130 MLD STP facility.	06.01.22 K-2066	20.01.2022 S-1401	14	20	-	-	J.P.Tripathi A.K.Seth Pankaj Rohit Ajay Rahul Anuj	1+1+1+1+1+1+1	-	-	-	PE submitting our comments.
20.01.2022	15 MLD STP Unnao Site Inspection Report dated 13 <sup>th</sup> January 2022.	-	20.01.2022 S-1402	-	20	-	-	Dr. Giridhar Priyesh Satendra Karamveer	1+1+1+1	-	-	-	Inspection report Submitted by PE.
21.01.2022	Submission of revised transformer	20.01.22 K-2114	-	-	20	-	-	Dr. Giridhar J.P.Tripathi	1+1+1+1+1+1+1+1+1+1	-	-	-	Under Review.

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	documents for Shuklaganj STP.							A.K.Seth Priyesh Satendra Pankaj Rohit Ajay Rahul Anuj Karamveer					
22.01.2022	Submission of revised transformer documents for ICI Nallah and Sundar Nagar IPS.	05.01.22 K-2065	22.01.2022 S-1403	17	20	-	-	Dr. Giridhar Priyesh Satendra Rahul Karamveer	1+1+1+1+1	-	-	-	Recommended for Approval with conditions.
22.01.2022	Submission of revised transformer documents for Shuklaganj STP.	20.01.22 K-2114	22.01.2022 S-1404	02	20	-	-	Dr. Giridhar Priyesh Satendra Rahul Karamveer	1+1+1+1+1	-	-	-	Recommended for Approval with conditions.
22.01.2022	Extension of Time (EOT) for 30 MLD Pankha STP facilities.	-	22.01.2022 S-1404A	-	20	-	-	Dr. Giridhar Priyesh Satendra Karamveer	1+1+1+1	-	-	-	Request UPJN for EOT is recommended for approval.
22.01.2022	Observation of Monthly performance report of 43 MLD Jajmau Phase II for the month of Dec- 2021.	K-2083	22.01.2022 S-1405	-	20	-	-	J.P.Tripathi Pankaj Rohit Ajay Rahul Anuj	1+1+1+1+1+1	-	-	-	Directed KRMPL to resubmit the monthly performance report for December 2021

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key 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)
													incorporating the said points.
22.01.2022	Extension of Time (EOT) for 15 MLD Unnao STP facilities.	-	22.01.2022 S-1405A	-	20	-	-	Dr. Giridhar Priyesh Satendra Karamveer	1+1+1+1	-	-	-	Request UPJN for EOT is recommended for approval.
23.01.2022	Sunday												
24.01.2022	Comments on Monthly activity report observations of 43 MLD Jajmau Phase II for the month of Sep-2021, Oct-2021 and Nov- 2021.	20.01.22 K-2118	-	-	20	-	-	Dr. Giridhar J.P.Tripathi Priyesh Satendra Pankaj Rohit Ajay Rahul Anuj Karamveer	1+1+1+1+1+1+1+1+1	-	-	-	Under Review.
25.01.2022	Insufficient dosing of Chlorine at 210 MLD Bingawan STP.	-	25.01.2022 S-1406	-	20	-	-	Dr. Giridhar J.P.Tripathi Sunil Priyesh Satendra Pankaj Rohit Ajay Rahul Anuj Karamveer	1+1+1+1+1+1+1+1+1+1	-	-	-	Request UPJN for instruct KRMPL to provide chlorine dosing as per requirement based on actual inlet flows.
26.01.2022	Republic Day (Holiday)												
27.01.2022	Regarding Submission of	25.01.22 J-107/w-	-	-	20	-	-	Dr. Giridhar	1+1+1+1+1+1+1+1+1	-	-	-	Under Review.



Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	compliance report of TEPH (treated effluent pump house) piping GA drawing for 130 MLD STP Jajmau Phase- 1.	3/21						J.P.Tripathi Priyesh Satendra Pankaj Rohit Ajay Rahul Anuj Karamveer					
28.01.2022	Compliance of revised O&M Manual for 43 MLD STP Jajmau, Kanpur.	18.01.22 J-64/w-34/04	-	-	20	-	-	Dr. Giridhar J.P.Tripathi Priyesh Satendra Pankaj Rohit Ajay Rahul Anuj Karamveer	1+1+1+1+1+1+1+1+1	-	-	-	Under Review.
29.01.2022	Extra claim for earth filling work at 15 MLD STP Unnao.	28.01.22 K-2135	29.01.2022 S-1407	01	20	-	-	Dr. Giridhar Priyesh Satendra Karamveer	1+1+1+1	-	-	-	Inform UPJN for necessary action.
29.01.2022	Regarding Primary Clarifier Mechanism no. 2 of installation work at 130 MLD STP Jajmau Phase- 1.	28.01.22 K-RFI	29.01.2022 S-1408	01	20	-	-	J.P.Tripathi Sunil Pankaj Rohit Ajay Rahul Anuj	1+1+1+1+1+1+1	-	-	-	Inspection report of Primary Clarifier Mechanism no. 2 is submitted by PE.
30.01.2022	Sunday												
31.01.2022	Inspection report	-	31.01.2022	-	20	-	-	Dr.	1+1+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)
	of 43 MLD STP and IPS facilities Phase II, Virtual Inspection done on 18.01.2022.		S-1409					Giridhar Priyesh Ajay Rahul Anuj Karamveer					report Submitted by PE.
31.01.2022	Maintenance work on Digester no.2 at Sajari.	25.01.22 K-2122	31.01.2022 S-1410	06	20	-	-	J.P.Tripathi Satendra Pankaj Rohit	1+1+1+1	-	-	-	Request UPJN for Instruct KRMPL to rectify the defects as early as possible.
31.01.2022	Comments on compliance of revised O&M Manual for 43 MLD STP Jajmau, Kanpur.	18.01.22 J-64/w-34/04	31.01.2022 S-1411	-	20	-	-	Dr. Giridhar J.P.Tripathi Priyesh Ajay Rahul Anuj	1+1+1+1+1+1+1	-	-	-	PE submitting our comments.
31.01.2022	Comments on Monthly activity report observations of 43 MLD Jajmau Phase II for the month of Sep-2021, Oct-2021 and Nov- 2021.	20.01.22 K-2118	31.01.2022 S-1412	11	20	-	-	Dr. Giridhar J.P.Tripathi Ajay Rahul Anuj Karamveer	1+1+1+1+1+1	-	-	-	PE submitting our comments.
31.01.2022	Recommendation for approval of GA, technical data sheet & QAP of submersible mixer for 130	K-2063	31.01.2022 S-1413	-	20	-	-	Dr. Giridhar Ajay Rahul Anuj	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)
	MLD STP Jajmau Phase- 1.												
31.01.2022	Recommendation for approval of TEPH (treated effluent pump house) piping GA drawing for 130 MLD STP Jajmau Phase- 1.	25.01.22 J-107/w-3/21	31.01.2022 S-1414	-	20	-	-	Dr. Giridhar Ajay Rahul Anuj	1+1+1+1	-	-	-	Vetted and Recommended for approval.
31.01.2022	Regarding compliance to PE comments on MPR Dec- 21 for Jajmau Phase- 1 and Jajmau Phase 2 facilities.	27.01.22 K-2133	31.01.2022 S-1415	04	20	-	-	J.P.Tripathi Ajay Rahul Anuj	1+1+1+1	-	-	-	Request UPJN to take decision on certain points raised by KRMPL and instruct KRMPL accordingly.
31.01.2022	Inspection Report of 210 MLD Bingawan facilities, inspection done on 21.01.2022, 25.01.2022 & 27.01.2022.	-	31.01.2022 S-1416	-	20	-	-	Dr. Giridhar Pankaj Rohit	1+1+1	-	-	-	Inspection report Submitted by PE.
31.01.2022	Inspection Report of associated works of 42 MLD Sajari STP (IPS Chakeri and Sanigawan) for the inspection done on	-	31.01.2022 S-1417	-	20	-	-	J.P.Tripathi Pankaj Rohit	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)
31.01.2022	20.01.2022. Inspection report of associated works of 210 MLD Bingawan STP (IPS Rakhimandi, Munsipurwa and Halwakhandi) for the inspection done on 20.01.2022.	-	31.01.2022 S-1418	-	20	-	-	Dr. Giridhar J.P.Tripathi Pankaj Rohit	1+1+1+1	-	-	-	Inspection report Submitted by PE.

**Note:** Man-days and respective inputs of experts for the month of January 2022 are:

SN	Name	Designation	Total Man-days	Input
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	01	Timesheet attached
5.	Mr. Sunil Basutkar	Senior Mechanical Engineer	10	Timesheet attached
6.	Mr. Prasoon Bhardwaj	Instrumentation Engineer	05	Timesheet attached
7.	Mr. Linga Krishna Rao	Safety expert	05	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: KPI Report – 130 MLD STP**

(Attached Separately)



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**Annexure 3.4: SHRIRAM Lab Report of 130 MLD Jajmau STP I**

(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: KPI Report 43 MLD Jajmau II**

(Attached Separately)

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**Annexure 4.4: SHRIRAM Lab Report 43 MLD Jajmau II**

(Attached Separately)

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

(Attached Separately)

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

(Attached Separately)

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**Annexure 5.3: SHRIRAM Lab Report 210 MLD Bingawan**

(Attached Separately)



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## **Annexure 6.1: Sajari STP Inspection Report**

(Attached Separately)

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## **Annexure 6.2: Sajari IPS Inspection Report**

(Attached Separately)

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### **Annexure 6.3: Sajari SHRIRAM Lab Report**

(Attached Separately)

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## **Annexure 7: Pankha Inspection Report**

(Attached Separately)

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## **Annexure 8: Unnao Inspection Report**

(Attached Separately)

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## **Annexure 9: Shuklaganj Inspection Report**

(Attached Separately)