

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
AUGUST - 2021**



Executing Agency
Uttar Pradesh Jal
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208002



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ABBREVIATIONS

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

MONTHLY PROGRESS REPORT – HAM KANPUR

1. INTRODUCTION

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

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

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

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

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

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

2. HYBRID ANNUITY MODEL (HAM)

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

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

NMCG & UPJN appointed M/s. Shah Technical Consultant Pvt. Ltd., as third party engineering firm as Project Engineer for this project through tendering process. Letter of Award is issued dated 4th February 2019 and agreement signed between the parties on 12th April 2019.

3. OBJECTIVES

To achieve above objectives, effective development of three new STP facilities at Pankha, Unnao and Shuklaganj with O&M for 15 years, rehabilitation of existing Jajmau 130 MLD STP with O&M for 15 years and O&M of existing 210 MLD USAB based Bingawan STP facilities, 43 MLD Jajmau and for 42 MLD Sajari STP facilities for 15 years are proposed under this program. The objectives that NMCG and the UP Jal Nigam wish to achieve through the Project are mentioned in Figure 1.

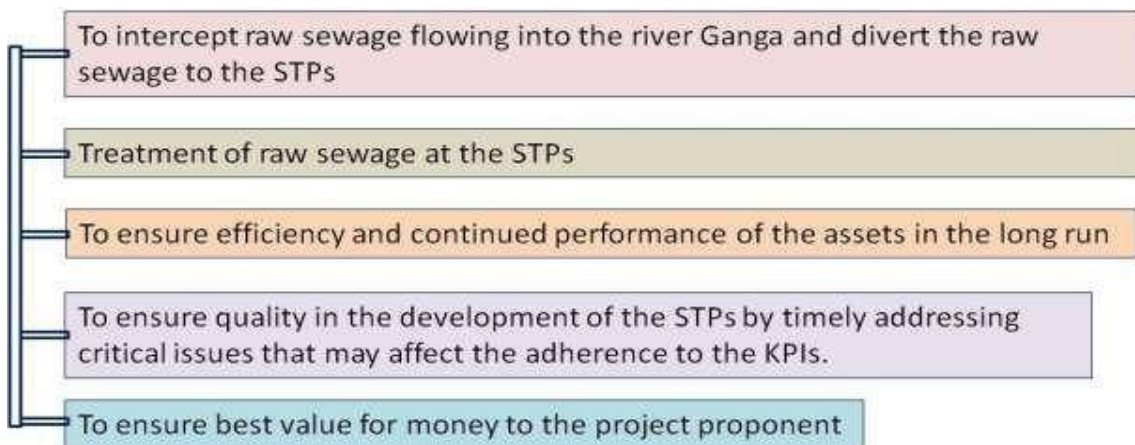


Figure 1: Objectives of NMCG and UP JAL NIGAM

4. HAM KANPUR PROJECT AT A GLANCE

Details of HAM Kanpur project are given in the following table:

Table 2.1: HAM Kanpur Project at a Glance

Name of Project	:	Development of new Sewage Treatment Plants and O&M for 15 years, Rehabilitation of existing Sewage Treatment Infrastructure and O&M for 15 years in Kanpur under One City One Operator concept through Hybrid Annuity based PPP mode. (HAM – Kanpur)
Client	:	National Mission for Clean Ganga (NMCG), New Delhi and UP Jal Nigam
Execution Agency	:	Uttar Pradesh Jal Nigam (UPJN)
Consultant	:	Shah Technical Consultants (P) Ltd. as ‘Project Engineer’
Agreement & LOA	:	STC Agreement dated 12.04.2019 & LOA: Pr-12012/41/2018-PPP/NMCG dated 04.02.2019
Concessionaire	:	Kanpur River Management Private Limited (KRMPL) an SPV of Shapoorji Pallonji & Company Private Limited, Mumbai
Concessionaire’s Agreement	:	14/GM/2018-19 dated 21.12.2018
Cost of Project (CAPEX+OPEX)	:	Rs. 816.25 Cr. (CAPEX 255.50 Cr. + OPEX 560.75 Cr.)
Effective Date	:	11.10.2019
Completion date (as per contract)	:	24 Months from effective date (21 months construction + 3 months trial run)
O&M period	:	15 years after last Commercial Operation Date (COD)
Description of Work	:	<ul style="list-style-type: none"> ➤ Construction of three new STPs (SBR) at different locations (30 MLD at Pankha, 15 MLD at Unnao and 5 MLD STP at Shuklaganj) and related infrastructure with 15 years of O&M; ➤ Rehabilitation of 130 MLD (Phase-I) STP at Jajmau with construction of 200 MLD TEPS and 173 MLD CCT at Jajmau with O&M for 15 years; ➤ O&M of 43 MLD (Phase-II) Jajmau facilities, O&M of 210 MLD Bingawan facilities and O&M of 42 MLD Sajari facilities for 15 years;

5. PROJECT WISE DETAILS OF COMPONENTS UNDER HAM KANPUR PROJECT

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

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

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

5.1 PANKHA FACILITIES

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

Table 5.1: Pankha Facilities

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

5.2 UNNAO FACILITIES

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

Table 5.2: Unnao Facilities

SN	STP Facilities	Capacity/dia. /size	No. of units/length
	Date of Start- Effective Date (11.10.2019)		
	Scope of Work- New Construction and O&M		
1.1	STP	15 MLD	1
1.2	Sump cum Pump house (MPS)	40 MLD	1
1.3	Trunk Sewer	1200mm ϕ	3.6Km
1.4	I&D works (Nala tapping)	90 MLD	1
1.5	Trash screen	7mx1.7mx 0.8m	1
1.6	Grit chamber	12mx4m x1m	2
1.7	Collection chamber	3mx5.3mx2m	1
1.8	Rising main (MPS to STP)	750mm ϕ	100m
1.9	Rising main (bypass)	750mm ϕ	100m
1.10	Effluent gravity channel (STP to discharge point)	1.5m x1.0m	300m
1.11	Effluent disposal drain	700mm	570m

5.3 SHUKLAGANJ STP FACILITIES

Project wise components details of Shuklaganj STP are given in table 5.3:

Table 5.3: Shuklaganj Facilities

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

5.4 JAJMAU (PHASE I) FACILITIES

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

Table 5.4: Jajmau Facilities

SN	STP Facilities	Capacity/dia. /size	No. of units/length
	Date of Start- Effective Date (11.10.2019)		
	Scope of Work- Renovation and O&M		
1.1	STP 1 on ASP technology with power Generation	130 MLD	1
1.2	Sump cum Pump house (TEPH)	200 MLD	1
1.3	CCT	173 MLD	1
1.4	Nawabganj IPS	1.09 MLD	1
1.5	Parvat IPS	54.24 MLD	1
1.6	Baba Ghat / Muar mill IPS	4.03 MLD	1
1.7	Guptar Ghat IPS	1.44 MLD	1
1.8	Jajmau CPCS	136 MLD	1

5.5 JAJMAU PHASE II STP FACILITY

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

SN	STP Facilities	Capacity/ dia. /size	No. of units/length
	Schedule Handing Over Date- 01.10.2019		
	Scope of Work- O&M		
1.1	STP 2 on ASP technology with power Generation	43 MLD	1
1.2	Sanjaypuram IPS	3.5 MLD	1
1.3	Khalasi lane IPS	45 MLD	1
1.4	Jajmau MPS	25 MLD	1

5.6 BINGAWAN FACILITIES

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

Table 5.5: Bingawan Facilities

SN	STP Facilities	Capacity /dia. /size	No. of units/length
	Schedule Handing Over Date- 01.04.2019		
	Scope of Work- Renovation and O&M for 15 years		
1.1	STP on UASB Technology with power generation	210 MLD	1
1.2	Installation of online monitoring system (RTOLMS)		L.S.
1.3	Bingawan MPS	200 MLD	1
1.4	Rakhimandi IPS	100 MLD	1
1.5	Halwakhanda IPS	20 MLD	1
1.6	Munshipurwa IPS	67 MLD	1
1.7	ShisamauNala (tapping)	8MLD	1

5.7 SAJARI FACILITIES

Project wise component detail of Sajari is given in table 5.6

Table 5.6: Sajari Facilities

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

6. PHYSICAL PROGRESS OF WORK

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

- i. transfer of land for STP in Pankha from KDA;
- ii. permission of laying of sewer line along road in Pankha from KDA;
- iii. Unnao & Shuklaganj and renovation of existing facilities i.e. Jajmau 130 MLD started after effective date.

The overall physical progress of the facilities have been taken in the same proportion as financial progress as per milestones in approved Construction Plan. Overall progress can be monitored as project works have been divided in eight milestones each having progress of 12.5%. Due to COVID-19 nationwide lockdown, progress of work was hampered. Once process of unlock started, the Concessionaire was asked to speed up the work. The Concessionaire submitted revised construction plan compensating relevant construction milestone works with extended timeline. The scheduled date of project completion was 10th October 2021 i.e. 24 months from the effective date. The progress of construction of new STP facilities is given in following headings.

6.1 MILESTONE WISE ACTIVITIES AND PROGRESS: PANKHA STP FACILITIES

- Total 136 nos. of manpower / workers are deployed at the site. KRMPL need to increase the manpower over 200-250 as directed by the Mr. Rajat Kumar Gupta, SWMS, NMCG during site visit dated 08.07.2021 so that simultaneous works on multiple site could be started to achieve the target on time;
- 1st, 2nd, 3rd & 4th milestone have been completed. 5th milestone was to be completed on 01.05.2021. 6th milestone due date is 01.09.2021. Works of 5th & 6th milestone are in progress. Till date overall progress is approx 62.0% out of target of 75%.
- SBR 67%, CCT 84%, Thickener 86%, Supernatant sump 85%, BW 57%, MPS 57%, ICI Nala IPS 32%, Sundar Nagar IPS 26%, I&D works 25%, sewer laying 67% completed;
- Railway crossing permission has been obtained and crossing works completed. NHA1 permission regarding road cutting has not received yet. Necessary document has been sent to Bank for release of required BG.
- Power connection application under process between KESCO and Dakshinanchal Power. KESCO can give connection within 1 month by laying 2.25 km line whereas, from Dakshinanchal Power 15 km line would be needed to give connection along with crossing of NH and two railway lines which is a long process.
- KRMPL need to expedite construction works to achieve timely completion of the project.

SUMMARY OF OVERALL PROGRESS AT PANKHA STP TILL 31.08.2021

Milestone	Milestone Amount	Targeted Progress till 31.08.2021		
		Milestone Amount	% Target	% Achieved
1st milestone	1248,39,750.00	1248,39,750	12.50%	12.50%
2nd milestone	1248,39,750.00	1248,39,750	12.50%	12.50%
3rd Milestone	1248,39,750.00	1248,39,750	12.50%	12.50%
4th Milestone	1248,39,750.00	1228,15,955	12.50%	12.3%
5th Milestone	1248,39,750.00	338,05,475	12.50%	3.4%
6th milestone	1248,39,750.00	459,45,304	12.5%	4.6%
7th milestone	1248,39,750.00	363,37,662	-	3.6%
8th milestone	1248,39,750.00	-		
Overall Progress	9987,18,000.00	6134,23,646.00	75%	61.4%
Total %	100.00%		75%	61.4%

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 (31.08.2021)

S N	Description of Items	Milestone-5 (From 2nd July '21 to 1st August '21)		Achieved against 5th Milestone		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	
		%	(Rs.)	%	(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
1	SBR Basin Area												
	CIVIL WORK												
	Site Clearance				-								-
	Excavation				-								-
	PCC				-								-
	RCC Foundation/Raft				-								-
	Wall 50% of total lift work				-								-
	Walls (balance 50% of Total Lift work)				-								-
	Baffle Walls work	5%	6,14,900	5%	6,14,900								-
	Walkway/Platform	42%	51,65,160	35%	43,04,300	30%	36,89,400						-
	Finishing Work									30%	43,78,800		-
	MECHANICAL WORK												-
	A. DECANTERS												-
	(i) On supply of machinery/equipment at site	100%	313,59,900										-
	(ii) On completion of erection works												-
	(iii) On completion of Testing of equipment												-
	B. DIFFUSERS												-
	(i) On supply of machinery/equipment at site			50%		50%	104,53,300	50%	104,53,300	50%	104,53,300	50%	104,53,300
	(ii) On completion of erection works												-
	(iii) On completion of Testing of equipment												-

S N	Description of Items	Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone		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	
		%	(Rs.)	%	(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	C. RAS & SAS PUMPS												
	(i) On supply of machinery/equipment at site		-		-	50%	104,53,300	50%	104,53,300	50%	104,53,300	50%	104,53,300
	(ii) On completion of erection works												
	(iii) On completion of Testing of equipment												
	D. PIPES & FITTINGS												
	(i) On supply of machinery/equipment at site	100%	104,53,300		-		-		-		-		-
	(ii) On completion of erection works									100%	12,29,800		
	(iii) On completion of Testing of equipment												
2	Chlorine Contact Tank Area												
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		-
	RCC Foundation/Raft		-		-		-		-		-		-
	Wall 50% of total lift work		-		-		-		-		-		-
	Walls (balance 50% of Total Lift work)		-		-		-		-		-		-
	Baffle Walls work		-		-		-		-		-		-
	Finishing Work		-		-	100%	27,67,050		-		-		-
3	Chlorination House Area												
	CIVIL WORK												
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		-

S N	Description of Items	Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone		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	
		%	(Rs.)	%	(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	RCC Foundation/Column footing		-		-		-		-		-		-
	Column & Beam		-		-		-		-		-		-
	Ground floor Slab		-		-		-		-		-		-
	Column & Beam		-		-		-		-		-		-
	Roof Slab	100 %	18,44,700	100 %	18,44,700		-		-		-		-
	Brickwork & Plaster	75%	13,83,525	25%	4,61,175		-		-		-		-
	Finishing Work		-		-	100%	18,44,700		-		-		-
	MECHANICAL WORK												
	A. CHLORINATION SYSTEM												
	(i) On supply of machinery/equipment at site					100%	31,35,990		-		-		-
	(ii) On completion of erection works									100 %	3,68,940		-
	(iii) On completion of Testing of equipment												-
	B. HOIST WORKS												-
	(i) On supply of machinery/equipment at site					100%	7,83,998	10 0%	7,83,998		-		-
	(ii) On completion of erection works									100 %	92,235		-
	(iii) On completion of Testing of equipment												-
	ELECTRICAL & INSTRUMENTATION WORK												-
	(i) On supply of machinery/equipment at site					100%	15,67,995		-		-		-
	(ii) On completion of erection works									100	1,84,470		-

S N	Description of Items	Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone		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	
		%	(Rs.)	%	(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	(iii) On completion of Testing of equipment				-								
4	Sludge Thickener Area				-								
	CIVIL WORK												
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		-
	RCC Foundation wall/base slab		-		-		-		-		-		-
	Wall 50% of total lift work		-		-		-		-		-		-
	Walls (balance 50% of Total Lift work)		-		-		-		-		-		-
	Finishing Work		-		-	100%	18,44,700		-		-		-
	MECHANICAL WORK												
	SLUDGE THICKENER MECHANISM												
	(i) On supply of machinery/equipment at site		-		-		-		-		-		-
	(ii) On completion of erection works	100%	5,53,410		-		-		-		-		-
	(iii) On completion of Testing of equipment					100%	2,76,705						
5	Inlet / Stilling Chamber Area				-								
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		-
	RCC Foundation/Column footing		-		-		-		-		-		-
	Column & Beam		-		-		-		-		-		-
	RCC Slab		-		-		-		-		-		-
	RCC Wall		-		-		-		-		-		-

S N	Description of Items	Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone		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	
		%	(Rs.)	%	(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	Final finishing including Staircases,Railing,Shade,Painting, etc.		-		-	100%	12,29,800		-		-		-
6	Manual & Mechanical Fine Bar Screen Chamber Area		-		-				-				-
	Site Clearance		-		-				-		-		-
	Excavation		-		-				-		-		-
	PCC		-		-				-		-		-
	RCC Foundation		-		-				-		-		-
	Column & Beam		-		-				-		-		-
	RCC Slab	100%	12,29,800	100%	12,29,800								
	RCC Wall		-		-	100%	12,29,800	100%	12,29,800	100%	12,29,800		-
	Walkway/Platform		-		-					100%	12,29,800		-
	Finishing Work		-		-					20%	2,45,960		-
7	Grit Chamber (Mechanical Cleaned) & (Manually Cleaned)		-		-				-				-
	Site Clearance		-		-				-		-		-
	Excavation		-		-				-		-		-
	PCC		-		-				-		-		-
	RCC Foundation		-		-				-		-		-
	Column & Beam		-		-				-		-		-
	RCC Slab	100%	12,29,800	90%	11,06,820								
	RCC Wall		-		-	100%	12,29,800	80%	9,83,840				-
	Walkway/Platform		-		-					100%	12,29,800		-

S N	Description of Items	Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone		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	
		%	(Rs.)	%	(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	Finishing Work		-		-		-		-		-		-
	MECHANICAL WORK												
	A.MECHANICAL FINE SCREEN												
	(i) On supply of machinery/equipment at site												
	(ii) On completion of erection works									100	2,45,960		
	(iii) On completion of Testing of equipment												
	B.MANUAL FINE SCREEN												
	(i) On supply of machinery/equipment at site												
	(ii) On completion of erection works									100	3,68,940		
	(iii) On completion of Testing of equipment												
	C.GATES												
	(i) On supply of machinery/equipment at site		-		-	100%	20,90,660		-		-		-
	(ii) On completion of erection works									100	2,45,960		
	(iii) On completion of Testing of equipment												
	D.CONVEYOR BELTS												
	(i) On supply of machinery/equipment at site		-		-	100%	20,90,660	100%	20,90,660		-		-
	(ii) On completion of erection works									100	2,45,960		
	(iii) On completion of Testing of equipment												
	E. GRIT MECHANISM												
	(i) On supply of machinery/equipment at site		-		-								-
	(ii) On completion of erection works												
	(iii) On completion of Testing of equipment												
	(i) On supply of machinery/equipment at site												
	(ii) On completion of erection works									100	6,14,900		

S N	Description of Items	Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone		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	
		%	(Rs.)	%	(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	(iii) On completion of Testing of equipment												
8	Flow Measurement Channel Area												
	Site Clearance												
	Excavation												
	PCC												
	RCC Foundation												
	Column & Beam	10%	1,84,470										
	RCC Slab	100%	24,59,600	100%	24,59,600								
	RCC Wall					100%	24,59,600						
	Walkway/Platform									100%	12,29,800		
	Finishing Work									20%	4,91,920		
9	Admin Bldg Area												
	Site Clearance												
	Excavation												
	PCC												
	Column footings/Foundation												
	Column & Beam												
	Ground Floor Slab	100%	18,44,700	30%	5,53,410								
	1st Floor Slab					100%	18,44,700						
	Roof Slab									100%	18,44,700		
	Brickwork & Plaster					50%	13,83,52			50%	13,83,525		

S N	Description of Items	Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone		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	
		%	(Rs.)	%	(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	Finishing Work		-		-		5		-		-		-
	ELECTRICAL WORK												
	LT/HT PANEL												
	(i) On supply of machinery/equipment at site				-				-		73,85,990		-
	(ii) On completion of erection works												-
	(iii) On completion of Testing of equipment												-
	PLC/SCADA SYSTEM												
	(i) On supply of machinery/equipment at site				-				-		-		-
	(ii) On completion of erection works												-
	(iii) On completion of Testing of equipment												-
													-
10	Air Blower Room Area				-				-				-
	Site Clearance												-
	Excavation												-
	PCC												-
	Column footings/Foundation												-
	Column & Beam												-
	RCC Ground Floor Slab	100%	15,37,250										-
	RCC Roof Slab							100%	15,37,250				-
	Brickwork & Plaster							25%	3,84,313		25%		3,84,313
	Finishing Work												-
	MECHANICAL WORK												-

S N	Description of Items	Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone		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	
		%	(Rs.)	%	(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	AIR BLOWER(PUMP)				-								
	(i) On supply of machinery/equipment at site				-						100 %		39,19,988
	(ii) On completion of erection works				-								
	(iii) On completion of Testing of equipment				-								
	ELECTRICAL WORK				-								
	AIR BLOWER(MOTOR)				-								
	(i) On supply of machinery/equipment at site				-								
	(ii) On completion of erection works				-								
	(iii) On completion of Testing of equipment				-								
1	Staff Quarter Area				-								
1	Site Clearance				-								
	Excavation				-								
	PCC				-								
	RCC Foundation/column footing	100 %	12,91,290	100 %	12,91,290								
	Column & Beam	100 %	12,91,290	70%	9,03,903								
	RCC Ground Floor Slab				-	100%	12,91,290						
	RCC Roof Slab				-						100 %		8,60,860
	Brickwork & Plaster				-						40%		3,44,344
	Electrical work				-						25%		3,22,823
	Finishing Work				-								
1	Guard Room Area				-								
2					-								

S N	Description of Items	Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone		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	
		%	(Rs.)	%	(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	Site Clearance		-		-		-		-		-		-
	Excavation	100 %	1,47,576		-		-		-		-		-
	PCC	100 %	2,21,364		-		-		-		-		-
	RCC Foundation/column footing	100 %	5,53,410		-		-		-		-		-
	Column & Beam	100 %	5,53,410		-		-		-		-		-
	RCC Ground Floor Slab		-		-	100%	5,53,410		-		-		-
	RCC Roof Slab		-		-	100%	3,68,940		-		-		-
	Brickwork & Plaster		-		-	100%	3,68,940		-		-		-
	Electrical work		-		-		-		-	100 %	5,53,410		-
	Finishing Work		-		-		-		-	40%	1,47,576		-
1 3	Sludge Dewatering System Area (Centrifuge Pump House, Sludge sump & Poly dosing tank)		-		-		-		-		-		-
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		-
	RCC Foundation		-		-		-		-		-		-
	1st Column & Beam		-		-		-		-		-		-
	Ground Floor Slab	100 %	30,74,500		-		-		-		-		-
	2nd Column & Beam	50%	15,37,250	35%	10,76,075	50%	15,37,250		-		-		-
	RCC Roof Slab		-		-	100%	30,74,500		-		-		-
	Brickwork & Plaster		-		-		-		-	100	30,74,500		-

S N	Description of Items	Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone		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	
		%	(Rs.)	%	(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	Finishing Work		-		-		-		-		-		-
	MECHANICAL WORK												
	CENTRIFUGE UNIT												
	(i) On supply of machinery/equipment at site				-		-		-		39,19,988	100 %	39,19,988
	(ii) On completion of erection works				-		-		-				-
	(iii) On completion of Testing of equipment				-		-		-				-
	CENTRIFUGE FEED PUMP												
	(i) On supply of machinery/equipment at site				-		-		-				-
	(ii) On completion of erection works				-		-		-		3,07,450	100 %	3,07,450
	(iii) On completion of Testing of equipment				-		-		-				-
	POLY DOSING PUMPS												
	(i) On supply of machinery/equipment at site	100 %	13,06,663		-		-		-		-		-
	(ii) On completion of erection works				-		-		-				-
	(iii) On completion of Testing of equipment				-		-		-				-
14	Supernatant Recirculation Sump Area				-		-		-				-
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		-
	RCC Foundation wall/base slab		-		-		-		-		-		-
	Wall 50% of total lift work		-		-		-		-		-		-
	Walls (balance 50% of Total Lift work)	10%	2,76,705	10%	2,76,705		-		-		-		-
	Final finishing including		-	100%	18,44,70		-		-		-		-

S N	Description of Items	Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone		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	
		%	(Rs.)	%	(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	Staircases,Railing,Shade,Painting etc.						0						
	MECHANICAL WORK												
	PUMPING SYSTEM												
	(i) On supply of machinery/equipment at site												
	(ii) On completion of erection works									100 %	6,45,645		
	(iii) On completion of Testing of equipment												
1 5	Transformer Yard Area												
	Site Clearance												
	Excavation & PCC	100 %	4,91,920										
	Foundation Work	100 %	7,37,880										
	Finishing Work					100%	7,37,880						
	ELECTRICAL WORK												
	TRANSFORMER												
	(i) On supply of machinery/equipment at site					100%	31,35,990	10 0%	31,35,990				
	(ii) On completion of erection works									100 %	3,68,940		
	(iii) On completion of Testing of equipment												
	CABLE & CABLE TRAY												
	(i) On supply of machinery/equipment at site					100%	30,31,457						
	(ii) On completion of erection works									100 %	3,56,642		

S N	Description of Items	Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone		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	
		%	(Rs.)	%	(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	(iii) On completion of Testing of equipment				-		-		-		-		-
1 6	DG Area				-		-		-		-		-
	Site Clearance	100 %	-		-		-		-		-		-
	Excavation & PCC	100 %	5,53,410		-		-		-		-		-
	Foundation Work	100 %	8,30,115		-		-		-		-		-
	Finishing Work		-		-		-		-		5,53,410		-
	ELECTRICAL WORK				-		-		-		-		-
	DG SET				-		-		-		-		-
	(i) On supply of machinery/equipment at site				-		-		-		32,92,790		-
	(ii) On completion of erection works				-		-		-		3,87,387		-
	(iii) On completion of Testing of equipment				-		-		-		1,93,694		-
	CABLE & CABLE TRAY				-		-		-		-		-
	(i) On supply of machinery/equipment at site			100%	-		16,46,395		-		-		-
	(ii) On completion of erection works				-		-		-		1,93,694		-
	(iii) On completion of Testing of equipment				-		-		-		-		-
1 7	Sludge Storage Platform				-		-		-		-		-
	Site Clearance	100 %	-		-		-		-		-		-
	Excavation & PCC	100 %	3,00,000		-		-		-		-		-

S N	Description of Items	Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone		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	
		%	(Rs.)	%	(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	Foundation Work	%											
	Finishing work	100 %	4,00,000		-		-		-		-		-
						100%	1,00,000		-		-		-
18	EXTERNAL DEVELOPMENT												
A	Roads, Storm Water Drain & Miscellaneous work									40%	50,40,000		
B	Compound Wall with Gate												
	Excavation & PCC												
	RCC Column footing	5%	3,07,450	5%	3,07,450								
	RCC Column & Beam	5%	3,07,450	5%	3,07,450								
	Brickwork & Plaster					10%	6,14,900	5%	3,07,450	10%	6,14,900		
	Finishing Work	20%	12,29,800	20%	12,29,800	20%	12,29,800			30%	18,44,700		
19	MPS-2 (115MLD)												
	CIVIL												
A	Construction of Raw Sewage Sump												
	Site Clearance												
	Excavation												
	PCC												
	RCC Foundation/Raft												
	Wall 50% of total lift work												
	Column & Beam			35%			13,42,341						
	Walls (balance 50% of Total Lift work)			50%		18	19,17,63		6,90,347				

S N	Description of Items	Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone		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	
		%	(Rs.)	%	(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	Ground Floor Slab		-		-	100%	38,35,260		-		-		-
	Finishing Work		-		-		-		-	50%	12,78,420		-
B	Construction of Inlet Chamber & Screen Channel		-		-		-		-		-		-
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		-
	RCC Foundation/Raft		-		-		-		-		-		-
	Wall 50% of total lift work		-		-		-		-		-		-
	Walls (balance 50% of Total Lift work)		-		-	75%	12,78,420	55%	9,37,508		-		-
	Walkway/Platform		-		-	100%	17,04,560		-		-		-
C	Construction of Raw Sewage Pump House		-		-		-		-		-		-
	Column & Beam		-		-	100%	15,98,025		-		-		-
	Roof Slab		-		-	100%	15,98,025		-		-		-
	Brickwork & Plaster		-		-		-		-	100%	15,98,025		-
	Finishing Work		-		-		-		-		-		-
D	MECHANICAL WORK		-		-		-		-		-		-
	Coarse Screen mechanical & manual		-		-		-		-		-		-
	(i) On supply of machinery/equipment at site		-		-		-		-		-		-
	(ii) On completion of erection works		-		-		-		-		-		-
	(iii) On completion of Testing of equipment		-		-		-		-		-		-
	Piping & Support work		-		-		-		-		-		-

S N	Description of Items	Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone		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	
		%	(Rs.)	%	(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	(i) On supply of machinery/equipment at site		-		-		-		-	100 %	45,27,738	25%	11,31,934
	(ii) On completion of erection works												
	(iii) On completion of Testing of equipment												
	Gate Work												
	(i) On supply of machinery/equipment at site	100 %	63,38,833		-		-		-		-		-
	(ii) On completion of erection works												
	(iii) On completion of Testing of equipment												
	Pumps												
	(i) On supply of machinery/equipment at site	100 %	99,61,023	100 %	99,61,023		-		-		-		-
	(ii) On completion of erection works												
	(iii) On completion of Testing of equipment												
2 0	ICI Nala IPS												
	CIVIL												
A	Construction of Raw Sewage Sump												
	Site Clearance												
	Excavation												
	PCC												
	RCC Foundation/Raft												
	Wall 50% of total lift work												
	Column & Beam	25%	6,39,000	25%	6,39,000	75%	19,17,000		-		-		-
	Walls (balance 50% of Total Lift work)					40%	10,22,400	40 %	10,22,400		-		-
	Ground Floor Slab			100%		100%	25,56,000		-		-		-

S N	Description of Items	Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone		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	
		%	(Rs.)	%	(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	Finishing Work		-		-		0		-	100	12,78,000		-
B	Construction of Inlet Chamber & Screen Channel		-		-		-		-		-		-
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		-
	RCC Foundation/Raft		-		-		-		-		-		-
	Wall 50% of total lift work		-		-		-		-		-		-
	Walls (balance 50% of Total Lift work)	100	8,52,000	70%	5,96,400		-		-		-		-
	Walkway/Platform		-		-	100%	4,26,000		-		-		-
	Finishing work		-		-		-		-	100	4,26,000		-
C	Construction of Raw Sewage Pump House		-		-		-		-		-		-
	Column & Beam		-		-		-		-	100	7,99,013		-
	Roof Slab		-		-		-		-	100	7,99,013		-
	Brickwork & Plaster		-		-		-		-		-		-
	Finishing Work		-		-		-		-		-		-
D	Construction of Office Room		-		-		-		-		-		-
	Site Clearance		-		-		-		-		-		-
	Excavation & PCC		-		-		-		-		-		-
	RCC Foundation/column footing		-		-	100%	6,39,000		-		-		-
	Column & Beam		-		-	100%	2,13,000		-		-		-
	RCC Ground floor Slab		-		-	100%	2,13,000		-		-		-

S N	Description of Items	Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone		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	
		%	(Rs.)	%	(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	RCC Roof Slab		-		-	100%	2,13,000		-		-		-
	Brick work & Plaster		-		-		-		-	100%	2,13,000		-
	Electrification, plumbing, fixtures		-		-		-		-	50%	1,06,500		-
	Finishing work		-		-		-		-		-		-
E	Construction of Guard Room		-		-		-		-		-		-
	Site Clearance		-		-		-		-		-		-
	Excavation & PCC		-		-		-		-		-		-
	RCC Foundation/column footing		-		-	100%	6,39,000		-		-		-
	Column & Beam		-		-	100%	2,13,000		-		-		-
	RCC Ground floor Slab		-		-	100%	2,13,000		-		-		-
	RCC Roof Slab		-		-		-		-	100%	2,13,000		-
	Brick work & Plaster		-		-		-		-	50%	1,06,500		-
	Electrification, plumbing, fixtures		-		-		-		-	25%	53,250		-
	Finishing work		-		-		-		-		-		-
F	Transformer Yard,DG Yard		-		-		-		-		-		-
	Site Clearance	100%			-		-		-		-		-
	Excavation & PCC		-		-	100%	6,39,210		-		-		-
	Foundation Work		-		-	100%	15,98,025		-		-		-
	Finishing Work		-		-	100%	9,58,815		-		-		-
G	MECHANICAL WORK		-		-		-		-		-		-
	Piping & Support work		-		-		-		-		-		-
	(i) On supply of machinery/equipment at site		-		-		-		-	100%	9,05,548	25%	2,26,387

S N	Description of Items	Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone		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	
		%	(Rs.)	%	(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	(ii) On completion of erection works				-		-		-		-		-
	(iii) On completion of Testing of equipment				-		-		-		-		-
	Screen Channel				-		-		-		-		-
	(i) On supply of machinery/equipment at site	100 %	28,97,752		-		-		-		-		-
	(ii) On completion of erection works				-		-		-		-		-
	(iii) On completion of Testing of equipment				-		-		-		-		-
	Pumps				-		-		-		-		-
	(i) On supply of machinery/equipment at site	100 %	28,97,752		-		-		-		-		-
	(ii) On completion of erection works				-		-		-		-		-
	(iii) On completion of Testing of equipment				-		-		-		-		-
H	ELECTRICAL WORK				-		-		-		-		-
	Cable Tray & Earthing Work				-		-		-		-		-
	(i) On supply of machinery/equipment at site				-		-		-	50%	5,43,329		-
	(ii) On completion of erection works				-		-		-		-		-
	(iii) On completion of Testing of equipment				-		-		-		-		-
	Transformer				-		-		-		-		-
	(i) On supply of machinery/equipment at site				-		-		-		-		-
	(ii) On completion of erection works				-		-		-		-		-
	(iii) On completion of Testing of equipment				-		-		-		-		-
	DG				-		-		-		-		-
	(i) On supply of machinery/equipment at site				-		-		-		-		-
	(ii) On completion of erection works				-		-		-		-		-
	(iii) On completion of Testing of equipment				-		-		-		-		-
I	Construction of Boundary wall & Internal Road				-		-		-		-		-

S N	Description of Items	Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone		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	
		%	(Rs.)	%	(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	Site Clearance		-		-		-		-		-		-
	Excavation & PCC		-		-		-		-		2,23,724		1,11,862
	RCC Column footing		-		-		-		-		4,26,140		2,55,684
	RCC Column & Beam		-		-		-		-		3,19,605		1,59,803
	Brickwork & Plaster		-		-		-		-		3,19,605		-
	Finishing		-		-		-		-		-		-
	Construction of Internal road		-		-		-		-		-		-
2 1	IPS-6 (Sundar Nagar- 20 MLD)-Pankha Area		-		-		-		-		-		-
	CIVIL		-		-		-		-		-		-
A	Construction of Raw Sewage Sump		-		-		-		-		-		-
	Site Clearance		-		-		-		-		-		-
	Excavation		-		-		-		-		-		-
	PCC		-		-		-		-		-		-
	RCC Foundation/Raft		-		-		-		-		-		-
	Wall 50% of total lift work		-		-		-		-		-		-
	Column & Beam	30%	7,66,800		-	30%	7,66,800		-		-		-
	Walls (balance 50% of Total Lift work)	25%	6,39,000	10%	2,55,600	50%	12,78,000		-		-		-
	Ground Floor Slab		-		-	100%	25,56,000		-		-		-
	Finishing Work		-		-		-		-		12,78,000		-
B	Construction of Inlet Chamber & Screen Channel		-		-		-		-		-		-
	Site Clearance		-		-		-		-		-		-

S N	Description of Items	Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone		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	
		%	(Rs.)	%	(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	Excavation & PCC		-		-		-		-		-		-
	RCC Foundation/Raft	20%	85,200	20%	85,200		-		-		-		-
	Wall 50% of total lift work	80%	3,40,800	80%	3,40,800		-		-		-		-
	Walls (balance 50% of Total Lift work)	100%	4,26,000	30%	1,27,800		-		-		-		-
	Walkway/Platform		-		-	100%	2,13,000		-		-		-
	Finishing work		-		-		-		-		-		-
C	Construction of Raw Sewage Pump House		-		-		-		-		-		-
	Column & Beam		-		-	100%	7,99,013		-		-		-
	Roof Slab		-		-		-		-		-		-
	Brickwork & Plaster		-		-		-		-		-		-
	Finishing Work		-		-		-		-		-		-
D	Construction of Office Room		-		-		-		-		-		-
	Site Clearance		-		-		-		-		-		-
	Excavation & PCC		-		-		-		-		-		-
	RCC Foundation/column footing	100%	6,39,000		-		-		-		-		-
	Column & Beam	100%	2,13,000		-		-		-		-		-
	RCC Ground floor Slab	100%	2,13,000		-		-		-		-		-
	RCC Roof Slab		-		-	100%	2,13,000		-		-		-
	Brick work & Plaster		-		-		-		-		-		-
	Electrification, plumbing, fixtures		-		-		-		-		-		-

S N	Description of Items	Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone		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	
		%	(Rs.)	%	(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	Finishing work		-		-		-		-		-		-
E	Construction of Guard Room		-		-		-		-		-		-
	Site Clearance	100%	-		-		-		-		-		-
	Excavation & PCC		-		-		-		-		-		-
	RCC Foundation/column footing		-		-		-		-		-		-
	Column & Beam	100%	2,13,000	50%	1,06,500		-		-		-		-
	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		-
	Finishing work		-		-		-		-		-		-
F	Transformer Yard,DG Yard		-		-		-		-		-		-
	Site Clearance		-		-		-		-		-		-
	Excavation & PCC		-		-		-		-	100%	6,39,210		-
	Foundation Work		-		-		-		-	100%	15,98,025		-
	Finishing Work		-		-		-		-	100%	9,58,815		-
G	MECHANICAL WORK		-		-		-		-		-		-
	Piping & Support work		-		-		-		-		-		-
	(i) On supply of machinery/equipment at site		-		-		-		-	100%	10,86,657	25%	2,71,664
	(ii) On completion of erection works		-		-		-		-		-		-

S N	Description of Items	Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone		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	
		%	(Rs.)	%	(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	(iii) On completion of Testing of equipment				-		-		-		-		-
	Screen Channel				-		-		-		-		-
	(i) On supply of machinery/equipment at site	100 %	28,97,752		-		-		-		-		-
	(ii) On completion of erection works				-		-		-		-		-
	(iii) On completion of Testing of equipment				-		-		-		-		-
	Pumps				-		-		-		-		-
	(i) On supply of machinery/equipment at site				-		-		-		100 %		28,97,752
	(ii) On completion of erection works				-		-		-				-
	(iii) On completion of Testing of equipment				-		-		-				-
H	ELECTRICAL WORK				-		-		-				-
	Cable Tray & Earthing Work				-		-		-				-
	(i) On supply of machinery/equipment at site				-		-		-				-
	(ii) On completion of erection works				-		-		-				-
	(iii) On completion of Testing of equipment				-		-		-				-
	Transformer				-		-		-				-
	(i) On supply of machinery/equipment at site				-		-		-				-
	(ii) On completion of erection works				-		-		-				-
	(iii) On completion of Testing of equipment				-		-		-				-
	DG				-		-		-				-
	(i) On supply of machinery/equipment at site				-		-		-				-
	(ii) On completion of erection works				-		-		-				-
	(iii) On completion of Testing of equipment				-		-		-				-
I	Construction of Boundary wall & Internal Road				-		-		-				-
	Site Clearance				-		-		-				-

S N	Description of Items	Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone		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	
		%	(Rs.)	%	(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	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		-		-		-		-		-		-
	Finishing		-		-		-		-		-		-
2	I&D Works		-		-		-		-		-		-
2	ICI Nala		-		-		-		-		-		-
A	Construction Work	4%	88,960	4%	88,960		-		-		-		-
	Tapping of Nallahs	45%	5,00,400		-	55%	6,11,600		-		-		-
	Electro-Mechanical work		-		-	50%	8,34,000		-	50%	8,34,000		-
	Testing		-		-		-		-		-		-
B	Thermal Nala -A		-		-		-		-		-		-
	Construction Work	27%	6,00,480		-		-		-		-		-
	Tapping of Nallahs	60%	6,67,200		-	40%	4,44,800		-		-		-
	Electro-Mechanical work		-		-	50%	8,34,000		-	50%	8,34,000		-
	Testing		-		-		-		-		-		-
C	Thermal Nala -B		-		-		-		-		-		-
	Construction Work	36%	8,00,640		-	50%	11,12,000		-		-		-
	Tapping of Nallahs	24%	2,66,880		-	25%	2,78,000		-	51%	5,67,120		-
	Electro-Mechanical work		-		-		-		-	50%	8,34,000		-
	Testing		-		-		-		-		-		-
2	Rising Main Works		-		-		-		-		-		-
3			-		-		-		-		-		-

S N	Description of Items	Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone		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	
		%	(Rs.)	%	(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
A	ICI Nala Area												
	Site Clearance from Client												
	Supply of Pipes	20%	10,21,316	20%	10,20,000	25%	12,75,000	25%	12,75,000	25%	12,86,220	10%	5,10,000
	Excavation,Laying & backfilling of Pipes	35%	2,10,000	35%	2,10,000	30%	1,80,000	4%	24,000	20%	1,20,000		-
	Testing					50%	1,50,000			25%	75,000		-
B	Sundar Nagar IPS Area												
	Site Clearance from Client												
	Supply of Pipes					30%	15,30,000	30%	15,30,000	40%	20,40,000	40%	20,40,000
	Excavation,Laying & backfilling of Pipes	25%	1,50,000			37%	2,22,000			38%	2,28,000		-
	Testing					54%	1,62,000			46%	1,38,000		-
2 4	Sewer System Area (RCC Pipes-NP3 Types)												
	Site Clearance	25%				25%				15%			
	Supply of pipes	8%	128,35,152										
	Excavation and Laying of pipes including bed preparation & backfilling	14%	14,03,975	14%	14,03,975	10%	10,02,809	10%	10,02,839	26%	26,07,382		-
	Manholes	10%	10,02,839	10%	10,02,839	20%	20,05,678	15%	15,04,259	20%	20,05,678		-
	Testing					20%	20,05,678			30%	30,08,518		-
	Road Restoration work									35%	35,09,937		-
2 5	Design ,Supply,Testing & Commissioning of Sewer line (crossing National Highway-2 & Railway Track)												
	Statutory approvals from Railway & Road dept	100%		50%									
	Supply of Carrier & Casing Pipes					57%	64,11,55	57%	64,11,551	43%	48,36,784	25%	28,12,084

S N	Description of Items	Milestone-5 (From 2nd July'21 to 1st August'21)		Achieved against 5th Milestone		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	
		%	(Rs.)	%	(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
							1						
	Construction of Pit		-	45.0 %	-		4,21,813	45 %	4,21,813		5,15,549	10%	93,736
	Excavation & Laying of Pipes thru Jack push method		-	30%	-		16,87,250	30 %	16,87,250		16,87,250	20%	11,24,834
	Testing		-		-		-		-		2,57,205	27%	2,53,088
2 6	Design ,Supply,Testing & Commissioning of Treated Effluent line from STP to River Pandu		-		-				-				-
	Site Clearance		-		-		-		-		-		-
	Construction of Effluent line from STP to River Pandur		-		-		-		-		25,20,000	35%	25,20,000
	Testing		-		-		-		-		-		-
	TRIAL RUN & COMMISSIONING		-		-								
	Trial Run & Commissioning												
	Total Amount		1248,39,750		338,05,475		1248,39,750		459,45,304		1248,39,750		363,37,662

PHOTOGRAPHS OF PANKHA STP SITE



SBR works



MPS works



PTU



Admin Building column beam

6.2 MILESTONE WISE ACTIVITIES AND PROGRESS: UNNAO STP

- Total 60 nos. of manpower / workers were deployed at the site on 31.08.2021. KRMPL need to increase the manpower 200-250 as directed during NMCG meetings on dated 24.08.2021 and 18.08.2021, so that simultaneous works on multiple site could be started to achieve the target on time;
- 1st, 2nd and 3th milestone have been completed. 4th milestone completion was due on dated 25.06.2021 as per revised approved construction plan (UPJN 1291/M-18/09 dated 31.05.2021) which is not completed till date;
- 5th milestone was due on 15.07.2021 for which progress is not significant. Even completion dates for 6th & 7th milestones have also been passed - 05.08.2021 & 31.08.2021 respectively.
- Total progress of work till 31.08.2021 is approx 55.0% out of the target of 87.5%. Major part of 5th and 6th milestone progress is supply of E&M items. KRMPL need to increase the manpower and expedite the supply of E&M items to enhance the progress;
- Approx 2100m sewer has been laid out of 3.2km. Highway road cutting permission for trenchless laying of sewer has been given by PWD. Procedure for 300m road cutting has been started and discussion with three parties (due to involvement of Gov and private land) is in process;
- Power connection - request letter to release the necessary funds for power connection at Unnao STP site has been sent to NMCG on dated 05.06.2021;
- Entrance gates (1 main gate + 1 alternate), Internal roads, staff quarter and labour huts with all basic facilities need to be established by the Concessionaire on urgent basis.
- Number of CCTVs units need to be increased from at present 2 nos. to minimum 4 nos;
- Development of site and plantation work need to be started.

SUMMARY OF OVERALL PROGRESS AT UNNAO STP TILL 31.08.2021

Milestone	Milestone Amount	Targeted Progress till 31.08.2021		
		Achieved Milestone Amount	% Target	% Achieved
1st milestone	478,36,250.00	478,36,250.00	12.50%	12.50%
2nd milestone	478,36,250.00	478,36,250.00	12.50%	12.50%
3rd Milestone	478,36,250.00	478,36,250.00	12.50%	12.50%
4th Milestone	478,36,250.00	393,69,552.67	12.50%	10.3%
5th Milestone	478,36,250.00	80,72,627.12	12.50%	2.1%
6th milestone	478,36,250.00	167,12,169.15	12.5%	4.4%
7th milestone	478,36,250.00	8,29,675.53	12.5%	0.2%
8th milestone	478,36,250.00			
Overall Progress	3826,90,000.00	2084,92,774.47	87.5%	54.5%
Total %	100.00%		87.5%	54.5%

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 (31.08.2021)

Sr. No.	Description of Items	Milestone-4 Achieved (From 26th Mar'21 to 25th June'21)		Milestone-5 Achieved (From 26th June'21 to 15th July'21)		Achieved Milestone-6 (From 16th July'21 to 05th Aug'21)		Milestone-7 (From 6th Aug'21 to 31st Aug.'21)	
i)	SBR Basin Area								
1	Site Clearance								
2	Excavation wall footing		-						
3	PCC wall footing		-						
4	RCC Foundation/Raft of wall		-						
5	Wall 50% of total upto base slab		-						
6	Walls (balance 50% of upto base slab)		-						
7	PCC Base Slab		-						
8	RCC Foundation base slab	75%	20,59,603.20						
9	Wall 50% of total lift work		-	100%	27,46,137.60				
40	Walls (balance 50% of Total Lift work)		-	60%	16,47,682.56				
11	Walkway/Platform		-						
12	Piping & fitting works		-						
13	Testing /Finishing works		-						
ii	Sludge Thickener Area		0						
1	Site Clearance		-						



Sr. No.	Description of items	Milestone-4 Achieved (From 26th Mar'21 to 25th June '21)		Milestone-5 Achieved (From 26th June'21 to 15th July'21)		Achieved Milestone-6 (From 16th July'21 to 05th Aug'21)		Milestone-7 (From 6th Aug'21 to 31st Aug.'21)	
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)	25%	94,633.55						
7	Testing /Finishing works		-						
iii	Supernatant Sump Area		0						
1	Site Clearance		-						
2	Excavation		-						
3	PCC		-						
4	RCC Foundation wall/base slab		-						
5	Wall 50% of total lift work		-						
6	Walls (balance 50% of Total Lift work)		-						
7	Testing /Finishing works		-						
iv	Chlorination Tank Area		0						
1	Site Clearance		-						
2	Excavation		-						
3	PCC		-						

Sr. No.	Description of Items	Milestone-4 Achieved (From 26th Mar'21 to 25th June '21)		Milestone-5 Achieved (From 26th June'21 to 15th July'21)		Achieved Milestone-6 (From 16th July'21 to 05th Aug'21)		Milestone-7 (From 6th Aug'21 to 31st Aug.'21)	
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	Air Blower Room Area		0						
1	Site Clearance		-						
2	Excavation		-						
3	PCC		-						
4	RCC Foundation/column footing		-						
5	Column & Beam		-						
6	RCC Roof Slab	50%	4,14,900.80						
7	Cable Trench Work	100%	6,86,534.40						
8	RCC Ground floor Grade Slab	100%	6,86,534.40						
9	Brick work		-						
10	Plaster		-						
11	Testing/Finishing work		-						
vi	Staff Quarter Area (G+1)		0						

Sr. No.	Description of Items	Milestone-4 Achieved (From 26th Mar'21 to 25th June '21)		Milestone-5 Achieved (From 26th June'21 to 15th July'21)		Achieved Milestone-6 (From 16th July'21 to 05th Aug'21)		Milestone-7 (From 6th Aug'21 to 31st Aug.'21)	
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	90%	60,300.00						
10	Plaster		-						
11	Plumbing, fixtures , sanitary works, AC work		-						
12	Electrification work		-						
13	Finishing works		-						
vii	Guard Room Area		0						
1	Site Clearance		-						
2	Excavation		-						
3	PCC		-						
4	RCC Foundation/column footing		-						

Sr. No.	Description of Items	Milestone-4 Achieved (From 26th Mar'21 to 25th June '21)		Milestone-5 Achieved (From 26th June'21 to 15th July'21)		Achieved Milestone-6 (From 16th July'21 to 05th Aug'21)		Milestone-7 (From 6th Aug'21 to 31st Aug.'21)	
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	Chlorination Room Area		0						
1	Site Clearance		-						
2	Excavation		-						
3	PCC		-						
4	RCC Foundation/Column footing		-						
5	Column & Beam		-						
6	Ground floor Slab		-						
7	Roof Slab	50%	2,43,267.20						
8	Brickwork	50%	1,48,344.80						

Sr. No.	Description of Items	Milestone-4 Achieved (From 26th Mar'21 to 25th June '21)		Milestone-5 Achieved (From 26th June'21 to 15th July'21)		Achieved Milestone-6 (From 16th July'21 to 05th Aug'21)		Milestone-7 (From 6th Aug'21 to 31st Aug.'21)	
9	Plaster		-						
10	Testing/Finishing works		-						
ix	Admin Bldg Area (G+1)		0						
1	Site Clearance		-						
2	Excavation		-						
3	PCC		-						
4	Column footings/Foundation	50%	59,219.03						
5	Column & Beam up to First Floor		-	100%	1,18,438.05				
6	1st Floor Slab		-	50%	67,678.89				
7	Column & Beam First Floor to Roof Slab		-						
8	Roof Slab		-						
9	Brickwork		-						
10	Plaster		-						
11	Electrification, plumbing, fixtures , sanitary works, AC work		-						
12	finishing works		-						
x	Sludge Dewatering System Area (Centrifuge Pump House, Sludge sump & Poly dosing tank)		0						
1	Site Clearance		-						

Sr. No.	Description of Items	Milestone-4 Achieved (From 26th Mar'21 to 25th June '21)		Milestone-5 Achieved (From 26th June'21 to 15th July'21)		Achieved Milestone-6 (From 16th July'21 to 05th Aug'21)		Milestone-7 (From 6th Aug'21 to 31st Aug.'21)	
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		-						
10	Plaster		-						
11	Piping & fittings Work		-						
12	Testing/Finishing works		-						
xi	Inlet Chamber Area		0						
1	Site Clearance		-						
2	Excavation & PCC	50%	1,04,608.80						
3	RCC Foundation/Column footing	100%	4,18,435.20						
4	Column & Beam		-						
5	RCC Slab		-						
6	RCC Wall		-						

Sr. No.	Description of Items	Milestone-4 Achieved (From 26th Mar'21 to 25th June'21)		Milestone-5 Achieved (From 26th June'21 to 15th July'21)		Achieved Milestone-6 (From 16th July'21 to 05th Aug'21)		Milestone-7 (From 6th Aug'21 to 31st Aug.'21)	
7	Testing/Finishing works		-						
xii	Manual & Mechanical Fine Bar Screen Chamber Area		0						
1	Site Clearance		-						
2	Excavation		-						
3	PCC		-						
4	RCC Foundation		-						
5	Column & Beam		-						
6	RCC Slab		-						
7	RCC Wall		-						
8	Walkway/Platform		-						
9	Testing/Finishing works		-						
xiii	Grit Chamber Area		0						
1	Site Clearance		-						
2	Excavation		-						
3	PCC		-						
4	RCC Foundation		-						
5	Column & Beam		-						
6	RCC Slab		-						



Sr. No.	Description of Items	Milestone-4 Achieved (From 26th Mar'21 to 25th June '21)		Milestone-5 Achieved (From 26th June'21 to 15th July '21)		Achieved Milestone-6 (From 16th July'21 to 05th Aug'21)		Milestone-7 (From 6th Aug'21 to 31st Aug.'21)	
7	RCC Wall		-						
8	Walkway/Platform		-						
9	Testing/Finishing works		-						
xiv	Parshall Flume Channel Area		0						
1	Site Clearance		-						
2	Excavation		-						
3	PCC		-						
4	RCC Foundation		-						
5	Column & Beam		-						
6	RCC Slab		-						
7	RCC Wall		-						
8	Walkway/Platform		-						
9	Piping & fitting Work		-						
10	Testing		-						
xv	Sludge Storage Platform Area		0						
1	Site Clearance		-						
2	Excavation		-						
3	PCC		-						



Sr. No.	Description of Items	Milestone-4 Achieved (From 26th Mar'21 to 25th June '21)		Milestone-5 Achieved (From 26th June'21 to 15th July'21)		Achieved Milestone-6 (From 16th July'21 to 05th Aug'21)		Milestone-7 (From 6th Aug'21 to 31st Aug.'21)	
4	Foundation Work		-						
5	Finishing work		-						
xvi	Transformer Yard Area		0						
1	Site Clearance		-						
2	Excavation		-						
3	PCC		-						
4	Foundation Work		-						
xvii	DG Shed Area		0						
1	Site Clearance		-						
2	Excavation		-						
3	PCC		-						
4	Foundation Work		-						
xviii	EXTERNAL DEVELOPMENT		0						
	Boundary Wall with Gate		-						
1	Site Clearance		-						
2	Excavation		-						
3	PCC	12%	60,255.00						
4	RCC Column footing	12%	60,255.00						



Sr. No.	Description of Items	Milestone-4 Achieved (From 26th Mar'21 to 25th June '21)		Milestone-5 Achieved (From 26th June'21 to 15th July'21)		Achieved Milestone-6 (From 16th July'21 to 05th Aug'21)		Milestone-7 (From 6th Aug'21 to 31st Aug.'21)	
5	RCC Column & Beam	12%	60,255.00						
6	Brickwork	22%	1,10,467.50		-				
7	Plaster	15%	75,318.75		-				
8	Retaining wall	15%	2,40,382.50	20%	3,20,510.00				
9	Finishing Work		-						
	Earthfilling, Internal Roads ,Landscaping		-						
1	Earthfilling, Internal Roads ,Landscaping		-						
B	I & D Work		0						
(i)	Approach Channel		0						
1	Excavation		-						
2	PCC		-						
3	RCC Foundation/Raft		-						
4	wall		-						
5	Testing/Finishing work		-						
(ii)	Inlet Chamber		0						
1	Excavation		-						
2	PCC		-						
3	RCC Foundation/Raft		-						



Sr. No.	Description of Items	Milestone-4 Achieved (From 26th Mar'21 to 25th June '21)		Milestone-5 Achieved (From 26th June'21 to 15th July'21)		Achieved Milestone-6 (From 16th July'21 to 05th Aug'21)		Milestone-7 (From 6th Aug'21 to 31st Aug.'21)	
4	wall		-						
5	Testing/Finishing work		-						
(iii)	Screen Channel		0						
1	Excavation		-						
2	PCC		-						
3	RCC Foundation/Raft		-						
4	wall		-						
5	Testing/Finishing work		-						
(iv)	Grit Chamber		0						
1	Excavation		-						
2	PCC		-						
3	RCC Foundation/Raft		-						
4	wall		-						
5	Testing/Finishing work		-						
(v)	Collection Chamber		0						
1	Excavation		-						
2	PCC		-						
3	RCC Foundation/Raft		-						

Sr. No.	Description of Items	Milestone-4 Achieved (From 26th Mar'21 to 25th June'21)		Milestone-5 Achieved (From 26th June'21 to 15th July'21)		Achieved Milestone-6 (From 16th July'21 to 05th Aug'21)		Milestone-7 (From 6th Aug'21 to 31st Aug.'21)	
4	wall		-						
5	Testing/Finishing work		-						
C	MPS-40 MLD		0						
	Civil Work		-						
i	Construction of Raw Sewage Sump		0						
1	Site Clearance		-						
2	Excavation		-						
3	PCC		-						
4	RCC Foundation/Raft	100%	6,87,220.00						
5	Wall 50% of total lift work		-	100%	6,87,220.00				
6	Walls (balance 50% of Total Lift work)		-		-				
7	Column & Beam		-						
8	Ground Floor Slab		-						
9	Testing/Finishing work		-						
ii	Construction of Raw Sewage Pump House		0						
1	Column & Beam		-						
2	Roof Slab		-						
3	Brickwork		-						

Sr. No.	Description of Items	Milestone-4 Achieved (From 26th Mar'21 to 25th June '21)		Milestone-5 Achieved (From 26th June'21 to 15th July'21)		Achieved Milestone-6 (From 16th July'21 to 05th Aug'21)		Milestone-7 (From 6th Aug'21 to 31st Aug.'21)	
		%	Amount	%	Amount	%	Amount	%	Amount
4	Plaster		-						
iii	Construction of Inlet Chamber & Screen Channel		0						
1	Site Clearance		-						
2	Excavation		-						
3	PCC	100%	1,84,837.50						
4	RCC Foundation/Raft	100%	1,84,837.50						
5	Wall 50% of total lift work		-	100%	1,84,837.50				
6	Walls (balance 50% of Total Lift work)		-	30%	55,451.25				
7	Column & Beam		-						
8	Ground Floor Slab		-						
9	Walkway/Platform		-						
10	Testing/Finishing work		-						
D	SEWER SYSTEM AREA (3.2 Km)		0						
1	Site Clearance		-						
2	Supply of pipes	2%	11,06,234.04						
3	Excavation and Laying of pipes including bed preparation & backfilling	14%	7,74,363.83	17%	9,40,298.93	23%	12,72,169.15	15%	8,29,675.53
4	Manholes	10%	3,68,744.68	5%	1,84,372.34		-		-

Sr. No.	Description of items	Milestone-4 Achieved (From 26th Mar'21 to 25th June'21)	Milestone-5 Achieved (From 26th June'21 to 15th July'21)	Achieved Milestone-6 (From 16th July'21 to 05th Aug'21)	Milestone-7 (From 6th Aug'21 to 31st Aug.'21)
5	Flow/Hydraulic Testing	-			
6	Road restoration work	-			
E	RISING MAIN PIPING WORK (100 m)	0			
1	Site Clearance	-			
2	Supply of pipes	-			
3	Cutting,Excavation,Laying of Pipes, backfilling	-			
4	Testing	-			
F	EFFLUENT DISPOSAL SYSTEM	0			
		-			
1	Site Clearance	-			
2	Construction of Effluent Channel from Distribution Chamber to Agriculture Land	-			
3	Construction of Rectangular Channel from STP to Distribution Chamber	-			
4	Construction of Distribution Chamber	-			
G	E&M WORK	-			
i)	GRIT CHAMBER AREA	-			
	A.On supply - Grit Scraper Mechanism	-			
	B.On Installation - Grit Scraper Mechanism	-			

Sr. No.	Description of Items	Milestone-4 Achieved (From 26th Mar'21 to 25th June '21)		Milestone-5 Achieved (From 26th June'21 to 15th July'21)		Achieved Milestone-6 (From 16th July'21 to 05th Aug'21)		Milestone-7 (From 6th Aug'21 to 31st Aug.'21)	
ii)	SLUDGE THICKENER AREA		-						
	A.Supply - Sludge Thickener		-						
	B.Installation - Sludge Thickener		-						
iii)	TRANSFORMER YARD AREA		-						
	A.Supply - Transformer		-						
	B.Installation - Transformer		-						
iv)	DG SHED AREA		-						
	A.Supply - DG		-						
	B.Installation - DG		-						
v)	MEP		-						
	A.Supply - Screen	100%	60,80,000.00						
	B.Installation - Screen		-						
	C.Supply - Hoist		-	100%	5,60,000.00				
	D.Installation - Hoist		-						
	E.Supply - Pumps & Motors(MEP)	100%	92,80,000.00						
	F.Installation - Pumps & Motors(MEP)		-						
	G.Supply - Gate & Valves(MPS)		-						
	H.Installation - Gate & Valves(MPS)		-						

Sr. No.	Description of Items	Milestone-4 Achieved (From 26th Mar'21 to 25th June '21)	Milestone-5 Achieved (From 26th June'21 to 15th July'21)	Achieved Milestone-6 (From 16th July'21 to 05th Aug'21)	Milestone-7 (From 6th Aug'21 to 31st Aug.'21)
	I. Supply Instruments (like flow meter, Guages, level, Transmitter)	-			
	J. Installation - Instruments (like flow meter, Guages, level, Transmitter)	-			
vi)	INLET CHAMBER AREA	-			
	A. Supply - Gate & Valves (STP)	-			
	B. Installation - Gate & Valves (STP)	-			
vii)	FINE SCREEN AREA	-			
	A. On supply - Fine Screen	100% 25,60,000.00			
	B. On Installation - Fine Screen	-			
viii)	SBR BASIN AREA	-			
	A. On supply - Decanter Equipment	-	-		
	B. Installation - Decanter Equipment	-			
	C. On supply - Diffuser	-		100% 154,40,000.00	
	D. On Installation - Diffuser	-			
	E. On supply - RAS Pump, SAS Pump	100% 43,20,000.00			
	F. On Installation - RAS Pump, SAS Pump	-			
	G. On supply - Chain Pulley Block	-			
	H. On Installation - Chain Pulley Block	-			



Sr. No.	Description of Items	Milestone-4 Achieved (From 26th Mar'21 to 25th June'21)	Milestone-5 Achieved (From 26th June'21 to 15th July'21)	Achieved Milestone-6 (From 16th July'21 to 05th Aug'21)	Milestone-7 (From 6th Aug'21 to 31st Aug.'21)
ix)	AIR BLOWER ROOM	-			
	A.Supply - Blower	-			
	B. Installation - Blower	-			
	C.Supply - Hoist Work	-	-		
	D.Installation - Hoist Work	-			
x)	CHLORINATION ROOM AREA	-			
	A.Supply - Chlorination system (Dosing pumps, chlorinators, Tonnes, Chemicals & Piping work	-			
	B. Installation - Chlorination system(Dosing pumps, chlorinators, Tonnes, Chemicals & Piping work	-			
	C.Supply - Chlorine Nutrilisation Tank	-			
	D.Installation - Chlorine Nutrilisation tank	-			
	E.Supply - Hoist Work		100%	5,60,000.00	
	F.Installation - Hoist Work	-			
xi)	CENTRIFUGE HOUSE & FEED PUMP AREA	-			
	A.On supply -Centrifuge & Feed Pump	100%		82,40,000.00	
	B.On Installation -Centrifuge & Feed Pump	-			



Sr. No.	Description of Items	Milestone-4 Achieved (From 26th Mar'21 to 25th June '21)	Milestone-5 Achieved (From 26th June'21 to 15th July'21)	Achieved Milestone-6 (From 16th July'21 to 05th Aug'21)	Milestone-7 (From 6th Aug'21 to 31st Aug.'21)
xii)	ADMIN BUILDING AREA	-			
	A.Supply - PMCC work	-			
	B. Installation - PMCC work	-			
	C. Supply - PLC/SCADA Automation of MPS,STP,D.G set)	-			
	D. Installation - PLC/SCADA Automation of MPS,STP,D.G set)	-			
xiii)	TESTING OF E&M EQUIPMENT FOR STP & MPS	-			
xiv)	EQUIPMENT TOOLS & MISC.	-			
III	TRIAL RUN & COMMISSIONING	0			
1	Trial Run & Commissioning	393,69,552.67	80,72,627.12	167,12,169.15	8,29,675.53

PHOTOGRAPHS OF UNNAO STP SITE



SBR wall steel binding



Diffuser inspection dated 26.08.2021



Admin Building works



No work at MPS due to rain water logging



Centrifuge unit



No work at Manholes due to rain water logging

6.3 MILESTONE WISE ACTIVITIES AND PROGRESS: SHUKLAGANJ STP

- Total 21 nos. of manpower are currently deployed at Shuklaganj STP site.
- Boundary wall: Site clearance and Excavation & PCC works in progress;
- Sludge Thickener Area – Site clearance and Excavation & PCC works in progress
- Guard Room: Site clearance and Excavation & PCC works in progress
- Footing marking completed SBR side;
- BEP vetting and approval is in progress. Permission for payment to IITR for vetting of structural drawings has been given by NMCG letter dated 23.07.2021. Payment for the same is in process by UPJN;
- Boundary wall of existing OHT has been dismantled and work front is available to KRMPL;
- Provision for cutting of trees as per requirement has been resolved with KRMPL. For approach road discussion with UPJN, KRMPL and Nagar Palika officials of Shuklaganj has been done.
- Milestone 1 works are in progress. Completion of Milestone 1 is scheduled on 01.09.2021. Overall progress including works of 1st and 2nd milestones till 31.08.2021 as per approved construction plan (UPJN no. 1379/WS-97/152 dated 09.06.2021) is 12.5% against target progress of 12.5%;
- KRMPL needs to expedite the progress by increasing the manpower and working on multiple fronts.

SUMMARY OF OVERALL PROGRESS AT SHUKLAGANJ STP TILL 31.08.2021

Milestone	Milestone Amount	Targeted Progress till 31.08.2021		
		Achieved Milestone Amount	% Target	% Achieved
1st milestone	266,18,775.00	221,28,798.36	12.5%	10.4%
2nd milestone	266,18,775.00	44,35,345.15	-	2.1%
3rd Milestone	266,18,775.00			
4th Milestone	266,18,775.00			
5th Milestone	266,18,775.00			
6th milestone	266,18,775.00			
7th milestone	266,18,775.00			
8th milestone	266,18,775.00			
Total	2129,50,200.00	266,14,143.50	12.5%	12.5%
Overall Progress %	100.00%		12.5%	12.5%

Milestone wise activities and their progress of work for Shuklaganj STP are given in following table 6.3:

TABLE 6.3: MILESTONE WISE PROGRESS – 05 MLD SHUKLAGANJ STP

Sr. No.	Description of Items	Milestone-1 (From 15th March.'21 to 1st Sep '21)		Achievement of 1st Milestone		Milestone-2 (From 2nd Sep '21 to 1st Nov.'21)		Achievement of 2nd Milestone	
		%	Amount	%	Amount	%	Amount	%	Amount
I	Design & Drawing of STP								
1	On approval of BEP	100%	53,23,755.00	100%	53,23,755.00				-
2	On approval of design & drawings for Civil & Sewerage works	90%	47,91,379.50	90%	47,91,379.50	10%	5,32,375.50		-
II	CONSTRUCTION								
A	SHUKLAGANJ STP (5 MLD)								
i)	SBR Basin Area								
1	Site Clearance	100%	4,79,137.96	100%	4,79,137.96				-
2	Excavation wall footing	60%	11,49,931.10	60%	11,49,931.10	40%	7,66,620.74		-
3	PCC wall footing	30%	7,18,706.94			50%	11,97,844.90		-
4	RCC Foundation/Raft of wall					26%	7,48,039.25		-
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								-
10	Walls (balance 50% of Total Lift work)								-
13	Hydro Testing /Finishing works								-
ii	Chlorination Tank Area								
1	Site Clearance	100%	47,913.80	100%	47,913.80				-
2	Excavation	100%	3,11,439.70						-
3	PCC					100%	3,59,353.50		-
4	RCC Foundation/Raft					100%	5,98,922.50		-
5	Wall 50% of total lift work								-
6	Walls (balance 50% of Total Lift work)								-

Sr. No.	Description of Items	Milestone-1 (From 15th March '21 to 1st Sep '21)		Achievement of 1st Milestone		Milestone-2 (From 2nd Sep '21 to 1st Nov '21)		Achievement of 2nd Milestone	
		%	Amount	%	Amount	%	Amount	%	Amount
7	Baffle Walls work		-		-		-		-
8	Hydro Testing /Finishing works		-		-		-		-
iii	Chlorination Room Area								
1	Site Clearance	100%	47,913.80	100%	47,913.80		-		-
2	Excavation	100%	1,91,655.20		-		-		-
3	PCC	100%	2,39,569.00		-		-		-
4	RCC Foundation/Column footing		-		-	100%	5,98,922.50		-
5	Column & Beam		-		-	100%	3,59,353.50		-
6	Ground floor Slab		-		-		-		-
7	Roof Slab		-		-		-		-
8	Brickwork		-		-		-		-
9	Plaster		-		-		-		-
10	Testing/Finishing works		-		-		-		-
iv	Guard Room Area								
1	Site Clearance	100%	33,539.66	100%	33,539.66		-		-
2	Excavation	100%	1,34,158.64	100%	1,34,158.64		-		-
3	PCC	100%	1,67,698.30	100%	1,67,698.30		-		-
4	RCC Foundation/column footing	52%	87,203.12	52%	87,203.12	48%	80,495.18	48%	80,495.18
5	Column & Beam		-		-	100%	2,51,547.45	100%	2,51,547.45
6	RCC Ground floor Slab		-		-		-		-
7	RCC Roof Slab		-		-		-		-
8	Brick work		-		-		-		-
9	Plumbing, fixtures		-		-		-		-
10	Sanitary works		-		-		-		-
11	Electrification work		-		-		-		-
12	Plaster		-		-		-		-

Sr. No.	Description of Items	Milestone-1 (From 15th March '21 to 1st Sep '21)		Achievement of 1st Milestone		Milestone-2 (From 2nd Sep '21 to 1st Nov '21)		Achievement of 2nd Milestone	
		%	Amount	%	Amount	%	Amount	%	Amount
13	Finishing works		-		-		-		-
iv	Admin Bldg Area (G+1)								
1	Site Clearance	100%	1,05,410.34	100%	1,05,410.34		-		-
2	Excavation	100%	2,63,525.85		-		-		-
3	PCC	100%	3,68,936.19		-		-		-
4	Column Footings/Foundation		-		-	80%	4,21,641.36		-
5	Column & Beam up to Floor Base slab		-		-		-		-
6	Floor base Slab		-		-		-		-
7	Column & Beam upto Roof Slab		-		-		-		-
8	1st Floor Roof Slab		-		-		-		-
9	Brickwork		-		-		-		-
10	Electrification, plumbing, fixtures , sanitary works		-		-		-		-
11	Plaster		-		-		-		-
12	finishing works		-		-		-		-
v	Air Blower Room Area								
1	Site Clearance	100%	95,827.60	100%	95,827.60		-		-
2	Excavation	100%	3,83,310.40		-		-		-
3	PCC		-		-	100%	7,18,707.00		-
4	RCC Foundation/column footing		-		-		-		-
5	Column & Beam		-		-		-		-
6	RCC Roof Slab		-		-		-		-
7	Cable Trench Work		-		-		-		-
8	Brick work		-		-		-		-
9	Plaster		-		-		-		-
10	Testing/Finishing work		-		-		-		-
vi	Staff Quarter Area (G+1)								

Sr. No.	Description of Items	Milestone-1 (From 15th March.'21 to 1st Sep '21)		Achievement of 1st Milestone		Milestone-2 (From 2nd Sep.'21 to 1st Nov.'21)		Achievement of 2nd Milestone	
		%	Amount	%	Amount	%	Amount	%	Amount
1	Site Clearance	100%	33,539.66	100%	33,539.66				
2	Excavation	100%	1,34,158.64	100%	1,34,158.64				
3	PCC	100%	1,67,698.30						
4	RCC Foundation/column footing		-			100%	1,67,698.30		
5	Column & Beam upto ground floor slab		-			100%	2,51,547.45		
6	RCC Ground floor Slab (Base floor slab)		-						
7	Column upto roof slab & RCC 1st floor Slab		-						
8	Brick work		-						
9	Plumbing, fixtures , sanitary works		-						
10	Electrification work		-						
11	Plaster		-						
12	Finishing works		-						
vii	Inlet Chamber Area								
1	Site Clearance		-						
2	Excavation & PCC		-						
3	RCC Foundation/Column footing		-						
4	Column & Beam		-						
5	RCC Slab		-						
6	RCC Wall		-						
7	Hydro Testing /Finishing works		-						
viii	Manual & Mechanical Fine Bar Screen Chamber Area								
1	Site Clearance		-						
2	Excavation		-						
3	PCC		-						
4	RCC Foundation		-						
5	Column & Beam		-						



Sr. No.	Description of Items	Milestone-1 (From 15th March.'21 to 1st Sep '21)		Achievement of 1st Milestone		Milestone-2 (From 2nd Sep.'21 to 1st Nov.'21)		Achievement of 2nd Milestone	
		%	Amount	%	Amount	%	Amount	%	Amount
6	RCC Slab				-				
7	RCC Wall				-				
8	Walkway/Platform				-				
9	Hydro Testing /Finishing works				-				
ix	Grit Chamber Area								
1	Site Clearance				-		-		
2	Excavation				-				
3	PCC				-				
4	RCC Foundation				-				
5	Column & Beam				-				
6	RCC Slab				-				
7	RCC Wall				-				
8	Walkway/Platform				-				
9	Hydro Testing /Finishing works				-				
x	Parshall Flume Channel Area								
1	Site Clearance				-		-		
2	Excavation				-				
3	PCC				-				
4	RCC Foundation				-				
5	Column & Beam				-				
6	RCC Slab				-				
7	RCC Wall				-				
8	Walkway/Platform				-				
9	Piping & fitting Work				-				
10	Hydro Testing /Finishing works				-				

Sr. No.	Description of Items	Milestone-1 (From 15th March,'21 to 1st Sep '21)		Achievement of 1st Milestone		Milestone-2 (From 2nd Sep,'21 to 1st Nov.'21)		Achievement of 2nd Milestone	
		%	Amount	%	Amount	%	Amount	%	Amount
xi	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				-		-		
10	Plaster				-		-		
11	Piping & fittings Work				-		-		
12	Hydro Testing /Finishing works				-		-		
xii	Sludge Thickener Area								
1	Site Clearance	100%	67,079.32	100%	67,079.32				-
2	Excavation	100%	4,36,015.58	100%	4,36,015.58				-
3	PCC	100%	5,03,094.90	100%	5,03,094.90				-
4	RCC Foundation Wall/base slab		-		-	100%	8,38,491.50		
5	Wall 50% of total lift work		-		-				
6	Walls (balance 50% of Total Lift work)				-				
7	Hydro Testing /Finishing works				-				
xiii	Supernatant Sump Area								
1	Site Clearance	100%	47,913.80	100%	47,913.80				
2	Excavation	100%	3,11,439.70		-				
3	PCC	100%	3,59,353.50		-				

Sr. No.	Description of Items	Milestone-1 (From 15th March.'21 to 1st Sep '21)		Achievement of 1st Milestone		Milestone-2 (From 2nd Sep,'21 to 1st Nov.'21)		Achievement of 2nd Milestone	
		%	Amount	%	Amount	%	Amount	%	Amount
4	RCC Foundation wall/base slab	100%	5,98,922.50	-	-	-	-	-	-
5	Wall 50% of total lift work		-	-	-	100%	4,79,138.00		
6	Walls (balance 50% of Total Lift work)		-	-	-		-		
7	Hydro Testing /Finishing works		-	-	-		-		
xiv	Sludge Storage Platform Area								
1	Site Clearance		-		-		-		
2	Excavation		-		-		-		
3	PCC		-		-		-		
4	Foundation Work		-		-		-		
5	Finishing work		-		-		-		
xv	Transformer Yard Area								
1	Site Clearance		-		-		-		
2	Excavation		-		-		-		
3	PCC		-		-		-		
4	Foundation Work		-		-		-		
xvi	DG Shed Area								
1	Site Clearance		-		-		-		
2	Excavation		-		-		-		
3	PCC		-		-		-		
4	Foundation Work		-		-		-		
xvii	EXTERNAL DEVELOPMENT								
	Boundary Wall with Gate								
1	Site Clearance	100%	-	-	-		-		-
2	Excavation	40%	10,79,829.90	40%	10,79,829.90	20%	5,39,914.95	10%	2,69,957.48
3	PCC	30%	10,79,829.90	30%	10,79,829.90	20%	7,19,886.60	20%	7,19,886.60
4	RCC Column footing	30%	10,79,829.90	30%	10,79,829.90	20%	7,19,886.60	20%	7,19,886.60

Sr. No.	Description of Items	Milestone-1 (From 15th March,'21 to 1st Sep '21)		Achievement of 1st Milestone		Milestone-2 (From 2nd Sep,'21 to 1st Nov.'21)		Achievement of 2nd Milestone	
		%	Amount	%	Amount	%	Amount	%	Amount
5	RCC Column & Beam	26%	7,01,889.44	26%	7,01,889.44	20%	5,39,914.95	-	-
6	Brickwork		-		-	20%	5,39,914.95		-
7	Plaster		-		-	15%	2,69,957.48		-
8	Finishing Work				-		-		-
	Earthfilling, Internal Roads ,Landscaping				-				-
1	Earthfilling, Internal Roads ,Landscaping				-				-
B	MPS-20 MLD				-				-
i	Construction of Raw Sewage Sump				-				-
1	Site Clearance	100%	1,71,655.18	100%	1,71,655.18				-
2	Excavation	100%	8,58,275.90	40%	3,43,310.36		-		-
3	PCC		-		-	100%	12,87,413.85		-
4	RCC Foundation/Raft		-		-	100%	17,16,551.80		-
5	Wall 50% of total lift work		-		-		-		-
6	Walls (balance 50% of Total Lift work)		-		-		-		-
7	Column & Beam		-		-		-		-
8	Ground Floor Slab		-		-		-		-
9	Hydro Testing /Finishing works		-		-		-		-
ii	Construction of Raw Sewage Pump House				-				-
1	Column & Beam				-				-
2	Roof Slab				-				-
3	Brickwork				-				-
4	Plaster				-				-
iii	Construction of Inlet Chamber & Screen Channel				-				-
1	Site Clearance	100%	57,496.56	100%	57,496.56				-
2	Excavation		-		-				-
3	PCC		-		-				-

Sr. No.	Description of Items	Milestone-1 (From 15th March,'21 to 1st Sep '21)		Achievement of 1st Milestone		Milestone-2 (From 2nd Sep,'21 to 1st Nov.'21)		Achievement of 2nd Milestone	
		%	Amount	%	Amount	%	Amount	%	Amount
4	RCC Foundation/Raft		-		-		-		-
5	Wall 50% of total lift work		-		-		-		-
6	Walls (balance 50% of Total Lift work)								
7	Column & Beam								
8	Ground Floor Slab		-		-		-		-
9	Walkway/Platform								
10	Hydro Testing /Finishing works								
C	SEWER SYSTEM AREA								
1	Site Clearance		-		-		-		-
2	Supply of pipes	55%	39,89,740.22	55%	39,89,286.40	35%	25,38,636.80	33%	23,93,571.84
3	Excavation and Laying of pipes including bed preparation & backfilling		-		-	20%	1,35,998.40		-
4	Manholes		-		-		-		-
5	Flow Testing								
D	I & D Work								
(i)	Approach Channel								
1	Excavation		-		-		-		-
2	PCC		-		-		-		-
3	RCC Foundation/Raft		-		-		-		-
4	wall								
5	Hydro Testing /Finishing works								
(ii)	Inlet Chamber								
1	Excavation		-		-		-		-
2	PCC		-		-		-		-
3	RCC Foundation/Raft		-		-		-		-
4	wall								
5	Hydro Testing /Finishing works								

Sr. No.	Description of Items	Milestone-1 (From 15th March '21 to 1st Sep '21)		Achievement of 1st Milestone		Milestone-2 (From 2nd Sep '21 to 1st Nov '21)		Achievement of 2nd Milestone	
		%	Amount	%	Amount	%	Amount	%	Amount
(iii)	Screen Channel								
1	Excavation		-		-		-		-
2	PCC		-		-		-		-
3	RCC Foundation/Raft		-		-		-		-
4	wall		-		-		-		-
5	Hydro Testing /Finishing works		-		-		-		-
(iv)	Grit Chamber								
1	Excavation		-		-		-		-
2	PCC		-		-		-		-
3	RCC Foundation/Raft		-		-		-		-
4	wall		-		-		-		-
5	Hydro Testing /Finishing works		-		-		-		-
(v)	Collection Chamber								
1	Excavation		-		-		-		-
2	PCC		-		-		-		-
3	RCC Foundation/Raft		-		-		-		-
4	wall		-		-		-		-
5	Hydro Testing /Finishing works		-		-		-		-
E	EFFLUENT DISPOSAL SYSTEM								
1	Site Clearance		-		-		-		-
2	Construction of Effluent Channel		-		-		-		-
F	E&M WORK		-		-		-		-
i)	GRIT CHAMBER AREA		-		-		-		-
	A.On supply - Grit Scraper Mechanism		-		-		-	100%	18,28,000.00

Sr. No.	Description of Items	Milestone-1 (From 15th March,'21 to 1st Sep '21)		Achievement of 1st Milestone		Milestone-2 (From 2nd Sep,'21 to 1st Nov.'21)		Achievement of 2nd Milestone	
		%	Amount	%	Amount	%	Amount	%	Amount
	B.On Installation - Grit Scraper Mechanism				-				
ii)	SLUDGE THICKENER AREA				-				
	A.Supply - Sludge Thickener		-				-		
	B.Installation - Sludge Thickener								
iii)	TRANSFORMER YARD AREA								
	A.Supply - Transformer								
	B.Installation - Transformer								
iv)	DG SHED AREA								
	A.Supply - DG								
	B.Installation - DG								
v)	MEP								
	A.Supply - Screen						-		
	B.Installation - Screen								
	C.Supply - Hoist					100%	4,68,000.00		
	D.Installation - Hoist								
	E.Supply - Pumps & Motors(MEP)					100%	69,44,000.00		
	F.Installation - Pumps & Motors(MEP)								
	G.Supply - Gates								
	H.Supply - Valves(MPS)								
	I.Installation - Gate & Valves(MPS)								
	J.Installation - Gate & Valves(MPS)								
	K.Supply Instruments(like flow meter, Guages, level, Transmitter)								
	L.Installation - Instruments(like flow meter, Guages, level, Transmitter)								
vi)	INLET CHAMBER AREA								

Sr. No.	Description of Items	Milestone-1 (From 15th March,'21 to 1st Sep '21)		Achievement of 1st Milestone		Milestone-2 (From 2nd Sep,'21 to 1st Nov.'21)		Achievement of 2nd Milestone	
		%	Amount	%	Amount	%	Amount	%	Amount
	A. Supply - Gates				-				
	B. Supply - Valves(STP)				-				
	C. Installation - Gates				-				
	D. Installation - Valves(STP)				-				
vii)	FINE SCREEN AREA								
	A. On supply - Fine Screen				-				
	B. On Installation - Fine Screen				-				
viii)	SBR BASIN AREA								
	A. On supply - Decanter Equipment		-		-		-		
	B. Installation - Decanter Equipment				-				
	C. On supply - Diffuser		-		-		-		
	D. On Installation - Diffuser				-				
	E. On supply - RAS Pump, SAS Pump		-		-		-		
	F. On Installation - RAS Pump, SAS Pump				-				
	G. On supply - Chain Pulley Block		-		-		-		
	H. On Installation - Chain Pulley Block				-				
ix)	AIR BLOWER ROOM								
	A. Supply - Blower		-		-		-		
	B. Installation - Blower				-				
	C. Supply - Hoist Work		-		-		-		
	D. Installation - Hoist Work				-				
x)	CHLORINATION ROOM AREA								
	A. Supply - Chlorination system(Dosing pumps, chlorinators, Tonnes, Chemicals & Piping work		-		-		-		
	B. Installation - Chlorination system(Dosing pumps, chlorinators, Tonnes, Chemicals & Piping work				-				



Sr. No.	Description of Items	Milestone-1 (From 15th March.'21 to 1st Sep '21)		Achievement of 1st Milestone		Milestone-2 (From 2nd Sep.'21 to 1st Nov.'21)		Achievement of 2nd Milestone	
		%	Amount	%	Amount	%	Amount	%	Amount
	C.Supply - Chlorine Nutrilisation Tank				-				
	D.Installation - Chlorine Nutrilisation tank				-				
	E.Supply - Hoist Work				-				
	F.Installation - Hoist Work				-				
xi)	CENTRIFUGE HOUSE & FEED PUMP AREA				-				
	A.On supply -Centrifuge				-				
	B.On supply -Centrifuge Feed Pump				-				
	C.On Installation -Centrifuge				-				
	D.On Installation -Centrifuge Feed Pump				-				
xii)	ADMIN BUILDING AREA				-				
	A.Supply - LT/HT Panel				-				
	B.Installation - LT/HT Panel				-				
	C.Supply - PLC/SCADA Automation				-				
	D.Installation - PLC/SCADA Automation				-				
xiii)	Cable Tray & Earthing work				-				
	A.Supply - cable Tray/Earthing material				-				
	B.Installation - Cable Tray/Earthing material				-				
xiv)	External Electrification (lighting & Pole)				-				
	A.Supply				-				
	B.Installation				-				
xv)	TESTING OF E&M EQUIPMENT FOR STP & MPS				-				
xvi)	EQUIPMENT TOOLS & MISC.				-				
III	TRIAL RUN & COMMISSIONING								
1	Trial Run & Commissioning								
			266,18,775.00		221,88,798.36		266,18,775.00		44,35,345.15

Photographs of Shuklaganj STP facility



Guard Room Works



Sludge Thickener PCC



Boundary Wall work



I&D location

7. PRESENT STATUS AND ISSUES OF EXISTING STPS

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

- Jajmau 130 MLD STP and CSPS was handover to KRMPL on 01/03/2021 but handing over of the related facilities (IPs) are still pending.
- All BEPs are approved and advance sludge handling system is under review.
- A meeting was held on 02.08.2021 at the Chamber of Project Manager-1, Kanpur under the chairmanship of GM GPCU regarding progress of HAM projects. Main points of the meeting are:
 - i. GM GPCU, UP Jal Nigam directed concessionaire to Sludge disposal of 130MLD Jajmau site will be temporarily done at the same site as Sajari STP i.e. Sanigawan site till the finalization and allotment of site by Nagar Nigam.
 - ii. GM advised to go ahead with BFP instead of centrifuge as proposed by and extra charges will be finalized after getting quotation from additional manufactures.
 - iii. PM-1 suggested 4 vendor including Andritz, Huber, Triveni and Amcon for requesting quotes .it was unanimously decided to provide 4 units of BFP with 14 cum/hr capacity.
- Inspection report dated 06.08.2021 for 130 MLD Jajmau STP for enclosed at the Annexure 10.

REGARDING E&M ITEMS APPROVAL:

- Concessionaire submitted the datasheet, catalogue & QAP of Ultrasonic open channel flow meter which PE has submitted their recommendation vide STC letter no. 1029 dated 03.08.2021.
- Concessionaire submitted the GA, datasheet, Poly dosing tank agitator on which PE has submitted their observations vide STC letter no. 1026 dated 02.08.2021.
- Concessionaire submitted the GA, datasheet, BOM, & QAP of battery charger and Battery which PE has submitted their recommendation vide STC letter no. 1038 dated 06.08.2021.
- Concessionaire submitted the GA, datasheet, BOM, & QAP of Gas mixing system (Landia) at digester which PE has submitted their recommendation vide STC letter no. 1041 dated 07.08.2021
- Concessionaire submitted the GA, datasheet, BOM, & QAP of TEPH pumps which PE has submitted their recommendation vide STC letter no. 1040A dated 07.08.2021
- Concessionaire submitted the GA, datasheet, BOM, & QAP of Cable tray which PE has submitted their recommendation vide STC letter no. 1050 dated 11.08.2021
- Concessionaire submitted the GA, datasheet, BOM, & QAP of DG Synchronising Panel which PE has submitted their recommendation vide STC letter no. 1051 dated 11.08.2021
- Concessionaire submitted the civil assignment drawing of HT VCB room & PMCC panel room which PE has submitted their recommendation vide STC letter no. 1054 dated 12.08.2021
- Concessionaire submitted the GA, datasheet, BOM, & QAP,SLD of LT Panel & LPBS on which PE has submitted their observations vide STC letter no. 1056 dated 13.08.2021.
- Concessionaire submitted the GA, datasheet, BOM, & QAP of poly dosing pump on which PE has submitted their observations vide STC letter no. 1071 dated 21.08.2021.

- Concessionaire submitted the Gas flaring system on which PE has submitted their observations vide STC letter no. 1085 dated 24.08.2021.
- Concessionaire submitted the proposal of Membrane type Gas holder on which PE has submitted their observations vide STC letter no. 1094 dated 28.08.2021.
- Concessionaire submitted the Gas scrubber & Ancillary equipment on which PE has submitted their observations vide STC letter no. 1095 dated 28.08.2021
- Concessionaire submitted the GA, datasheet & QAP of Gas engine & Ancillary equipment on which PE has submitted their observations vide STC letter no. 1096 dated 28.08.2021
- Concessionaire submitted the GA, datasheet & QAP of screw pump on which PE has submitted their observations vide STC letter no. 1097 dated 28.08.2021
- Concessionaire submitted the Submersible pump for Supernatant Sump on which PE has submitted their observations vide STC letter no. 1100 dated 28.08.2021
- Concessionaire submitted the Submersible pump for Supernatant Sump on which PE has submitted their observations vide STC letter no. 1100 dated 28.08.2021

7.2 43 MLD JAJMAU PHASE II

- **Separate COD:** COD for 43 MLD Jajmau Phase II facilities has been separated from 130 MLD facilities vide NMCG letter no. Pr. 12012/7/2018/PPP/NMCG dated 02.08.2021;
- **Handover:** 43 MLD Jajmau Phase II facilities have been handed over conditionally on dated 25.08.2021. Handing over note is enclosed.
- **O&M manual & Schedule maintenance plan:** KRMPL has been asked to submit the “O&M Manual and Schedule maintenance plan for 1st year” vide STC letter no. 1103 dated 31.08.2021.
- **Insurance during O&M period:** KRMPL has been asked to submit industrial all risk policies for 43 MLD Jajmau Phase II facilities vide STC letter no. 1109 dated 02.09.2021;
- **Adequate staff to be deployed for proper O&M:** KRMPL has been asked to submit the list of manpower deployed for proper O&M of 43 MLD Jajmau Phase II facilities vide STC letter no. 1111 dated 03.09.2021;
- **KPIs daily report:** KRMPL is required to submit daily report of KPIs of 43 MLD Jajmau Phase II facilities as being submitted for other facilities.

7.3 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. Madhava 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:-

i. Compliance of Inspection Reports

PE inspected 42 MLD STP Sajari on 31.07.2021 and issued inspection note on 04.08.2021. Compliance report of inspection done on 31.07.2021 have not been submitted by KRMPL. Again PE inspected 42 MLD STP Sajari on 18.08.2021 and issued inspection note on 27.08.2021 (inspection report enclosed). Compliance report of inspection done on 18.08.2021 has not been submitted by KRMPL.

Rectification of defects indicated in different inspection reports from the start of the project has not been done by the KRMPL and they are extending dates continuously every month.

ii. O&M Manual

O&M Manual already approved by UP Jal Nigam.

iii. Insurance Policies

STC insurance expert report has been submitted and KRMPL was required to submit all insurance policies according to advice of STC insurance expert. But KRMPL has not submitted Insurance Policies accordingly.

iv. Performance of Plant

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

v. Mechanical Screens (Coarse & Fine Screens)

Auto System of both Mechanical Screens still not repaired.

vi. Main pumping Station

Raw sewage pump no.04 is not operated since 27.07.2021.

vii. Gas Generators

All 3 nos. of Gas Generators are in working condition. KRMPL has not provided battery backup for Gas Engine no.3.

viii. 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.

ix. Joint Sampling and Testing by IIT Kanpur

It was decided in the meeting of GM GPCU UPJN on 16-12-2019 (MOM issued vide letter no 3847/M-2A/116 dated 18-12-2019) that at least once in a month joint sampling of raw sewage

and treated effluent will be done by UPJN and KRMPL and testing to be done by IIT Kanpur. KRMPL has taken the sample jointly on 06.08.2021, 13.08.2021, 20.08.2021 & 27.08.2021 and sent it for testing. Testing reports from NABL accredited Laboratory Spectro Research Lab Ventures (P) Ltd of joint samples taken on 18.08.2020, 15.09.2020, 19.10.2020 & 26.06.2021 and 06.08.2021, 13.08.2021, 20.08.2021 & 27.08.2021 has not been received yet. Testing report from Spectra research Lab ventures (P) Ltd. of the Joint sample taken on 13.07.2021 & 30.07.2021 has been submitted by concessionaire, vide letter no.1567 dated 02.08.2021.

x. 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.

xi. Work plan For Sludge Disposal

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

xii. Submission of Schedule Maintenance Program

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. Housekeeping is not proper and needs improvement.

xiii. KPIs Adherence Report

KPIs Adherence Report for the month of July-2021 has been submitted by PE vide letter no.1064 dated 21.08.2021. Online analyzer report up to January month has been submitted by concessionaire.

7.4 210 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 RTLOMS and rectification of pumps) completion certificate have been issued by UPJN as 10.08.2020 vide their letter no. 2033/w-37/67 dated 18.08.2020 but calibration certificate with witness certificate is yet to be submitted by KRMPL. Out of 2 nos. electro-magnetic flow meters in inlet, 01 no. has been installed at site and it has been synchronised with RTLOMS. It is not calibrated. Need to be provided calibration report. Another 2nd no. electro -magnetic flow meters has not been installed yet.

Following points need to be addressed:-

I. Compliance of Inspection Reports

- PE inspected 210 MLD Bingawan STP on 12.11.2020, 02.01.2021 & 02.02.2021 and issued inspection reports on 21st November 2020, 19th January 2021 & 4th February 2021. Compliance reports of inspection reports of 21.11.2020, 19.01.2021 and 04.02.2021 have not been submitted by KRMPL.
- PE/ CE UPJN Inspection done at 210 MLD Bingawan STP on 15.06.2021 and issued inspection report on 23.06.2021. Compliance reports of inspection done on 15.06.2021 have not been

submitted by KRMPL. PE Inspection done at 210 MLD Bingawan STP on 12.07.2021 and issued inspection report on 20.07.2021. Compliance reports of inspection done on 12.07.2021 have not been submitted by KRMPL. PE Inspection done at 210 MLD Bingawan STP on 06.08.2021 and issued inspection report on 10.08.2021. PE/UPJN Inspection done of UASB reactor no.05 at 210 MLD Bingawan STP on 25.08.2021, 26.08.2021 and issued inspection report on 27.08.2021. Compliance reports of inspection done on 25.08.2021, 26.08.2021 have been submitted by KRMPL vide letter no.1673 dated 28.08.2021. Again PE Inspection done at 210 MLD Bingawan STP on 18.08.2021, 25.08.2021, 26.08.2021 & 31.08.2021 and issued inspection report on 31.08.2021. Compliance reports of inspection done on 06.08.2021, 18.08.2021, 25.08.2021, 26.08.2021 & 31.08.2021 have not been submitted by KRMPL.

- Since 28th January 2020 rectifications of defects indicated in different inspection reports have not been done by the KRMPL and they are extending dates continuously every month. Copy of Inspection reports submitted in the month of August 2021 of Bingawan site is enclosed.

II. O&M Manual

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

III. Insurance Policies

STC insurance expert report has been submitted and KRMPL was required to submit all insurance policies according to advice of STC insurance expert. But KRMPL has not submitted Insurance Policies accordingly.

IV. MPS

- Both mechanical coarse screens are not functional 28.01.2021
- Out of 12 nos. pumps installed, only 03 pumps are working properly other pumps trapping in one minute due to soft stator.
- KRMPL had promised to complete Butterfly valve chamber near MPS by 15.08.2021 but not completed yet

V. Inlet Chamber:-

- Out of 04 grit removal system, 01 was out of order which has been repaired by KRMPL and made functional.
- 02 nos Chute have been installed by KRMPL for grit removal.
- Leakages in Civil Structure have not been attended by KRMPL.

VI. Cleaning and reactivation of UASB Reactors

All the KPIs are not being met during the month of Aug 2021. Out of 16 reactors 5 nos. UASB reactors (reactor no. 1,2,3, 4 & 8) have been cleaned and refilled for reactivation, but sludge blanket still not formed. Reactors 5 &6 have been taken up for cleaning from 02.04.2021 and reactors 9,11 & 12 taken up for cleaning from July 2021 but only reactor No. 5 has been completed by 31/08/2021. Remaining 06 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. Performance report of Aug 2021 is enclosed.

VII. Belt Filter Press

All 3nos. Belt Filter Press system has been made functional by KRMPL but only 2 nos. BFP are being used at a time. Only 04 nos. trolleys are available at site. All 3 nos. poly dosing pumps installed, 1 no. is not in working condition due to diaphragm portion is fully damaged. This matter has been pending since 07.10.2020.

VIII. Sludge Disposal

All the reactors are filled with sludge which means that sludge extraction from the reactors is not proper. Also, Sludge testing arrangement is available at site Laboratory. KRMPL has been started sludge testing from July2021.

IX. Joint Sampling and Testing by IIT Kanpur

It was decided in the meeting of GM GPCU UPJN on 16-12-2019 (MOM issued vide letter no. 3847/M-2A/116 dated 18-12-2019) that at least once in a month joint sampling of raw sewage and treated effluent will be done by UPJN and KRMPL and testing to be done by IIT Kanpur. KRMPL has taken the sample jointly on 15.07.2021 & 30.07.2021 for testing. Testing report from Spectra research Lab ventures (P) Ltd. of the Joint sample taken on 29.09.2020, 16.10.2020 and 18.03.2021,09.04.2021, 26.06.2021 and 16.07.2021 and has not been submitted by concessionaire. Testing report from Spectra research Lab ventures (P) Ltd. of the Joint sample taken on 30.07.2021, has been submitted by KRMPL vide letter no.1650 dated 21.08.2021.

Again testing report from Spectra research Lab ventures (P) Ltd. of the Joint sample taken on 06.08.2021, 13.08.2021, 20.08.2021 & 27.08.2021 and has not been submitted by KRMPL.

X. Gas Holder

Out of 2 nos. gas holder installed, both are in working condition since 18.08.2021.

XI. Housekeeping

Even after instructions by NMCG team on 08.07.2021 there is not any improvement in housekeeping is still in very bad condition.

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

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

XIII. KPIs Adherence Report

KPIs Adherence Report for the month of July-2021 submitted by PE ,based on the lab results for the month of July-2021 are submitted by PE vide letter no. 1063 dated 21.08.2021.

7.5 Monthly Performance report of Bingawan & Sajari STP

Month (2021)	Location	Raw Sewage	Final Outlet	Final outlet Limit
January	Sajari	Avg.COD=625.4 Avg.BOD=168.9 Avg.TSS=514	Avg.COD=123.7 Avg.BOD=29.9 Avg.TSS=48.9	COD<100 BOD<30 TSS<50
	Bingawan	Avg.COD=478.58 Avg.BOD=161.87 Avg.TSS=303.03	Avg.COD=99.16 Avg.BOD=22.97 Avg.TSS=32.29	COD<100 BOD<30 TSS<50
February	Sajari	Avg.COD=654.2 Avg.BOD=186.3 Avg.TSS=475.2	Avg.COD=241.7 Avg.BOD=53.3 Avg.TSS=61.3	COD<100 BOD<30 TSS<50
	Bingawan	Avg.COD=497 Avg.BOD=168.14 Avg.TSS=306	Avg.COD=102 Avg.BOD=23.4 Avg.TSS=34	COD<100 BOD<30 TSS<50
March	Sajari	Avg.COD=620.3 Avg.BOD=177.4 Avg.TSS=430.6	Avg.COD=184.9 Avg.BOD=47.8 Avg.TSS=56.5	COD<100 BOD<30 TSS<50
	Bingawan	Avg.COD=503.94 Avg.BOD=171.35 Avg.TSS=308	Avg.COD=101.97 Avg.BOD=23.68 Avg.TSS=34.35	COD<100 BOD<30 TSS<50
April	Sajari	Avg.COD=822.4 Avg.BOD=178.2 Avg.TSS=453.1	Avg.COD=187.2 Avg.BOD=46.4 Avg.TSS=50.9	COD<100 BOD<30 TSS<50
	Bingawan	Avg.COD=475.33 Avg.BOD=163.70 Avg.TSS=305.27	Avg.COD=98.60 Avg.BOD=22.80 Avg.TSS=34.73	COD<100 BOD<30 TSS<50
May	Sajari	Avg.COD=620 Avg.BOD=176.5 Avg.TSS=493.5	Avg.COD=191 Avg.BOD=48.7 Avg.TSS=50.3	COD<100 BOD<30 TSS<50
	Bingawan	Avg.COD=458.19 Avg.BOD=162.97 Avg.TSS=300.77	Avg.COD=96.29 Avg.BOD=22.77 Avg.TSS=33.45	COD<100 BOD<30 TSS<50
June	Sajari	Avg.COD=622.33 Avg.BOD=174.73 Avg.TSS=547.80	Avg.COD=168.17 Avg.BOD=46.77 Avg.TSS=52.47	COD<100 BOD<30 TSS<50
	Bingawan	Avg.COD=438.77 Avg.BOD=165.83 Avg.TSS=289.90	Avg.COD=97.50 Avg.BOD=23.30 Avg.TSS=35.43	COD<100 BOD<30 TSS<50
July	Sajari	Avg.COD=616.6 Avg.BOD=175.5 Avg.TSS=551.6	Avg.COD=145.7 Avg.BOD=43.6 Avg.TSS=55.8	COD<100 BOD<30 TSS<50
	Bingawan	Avg.COD=459.8 Avg.BOD=173.48 Avg.TSS=297.87	Avg.COD=107.23 Avg.BOD=26.94 Avg.TSS=42.39	COD<100 BOD<30 TSS<50
August	Sajari	Avg. COD=443.68 Avg.BOD=171.19 Avg.TSS=304.42	Avg. COD=103.61 Avg.BOD=26.97 Avg.TSS=42.90	COD<100 BOD<30 TSS<50
	Bingawan	Avg. COD=601.2 Avg.BOD=167.0 Avg.TSS=539.2	Avg. COD=141.29 Avg.BOD=41.87 Avg.TSS=53.10	COD<100 BOD<30 TSS<50

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; Rest design & drawings yet to be submitted by KRMPPL	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 KRMPPL 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)	KRMPPL has been asked to submit the “O&M Manual and Schedule maintenance plan for 1st year” vide STC letter no. 1103 dated 31.08.2021.				Handover Done
ii	42 MLD STP - Sajari	Approved	KRMPPL 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. 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 KRMPPL 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.	
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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)
01.08.2021							Sunday						
02.08.2021	Compliance on Submission for cost implication due to change of FoS for design drawing of bedding for sewerage network for 30 MLD STP Pankha facilities as per clause no. 20 of CA.	29.07.21 K-1539	02.08.2021 S-1025	4	20	-	-	Dr. Girdhar C.M.Dimri Prasoon Satendra Pankaj Kapil	1+1+1+1+1+1	-	-	-	Recommended for approval with the conditions.
02.08.2021	Comments on GA, Data sheet, QAP of Poly dosing agitator for 130 MLD STP Jajmau.	27.07.21 J-1589/w-21/117	02.08.2021 S-1026	6	20	-	-	Priyesh Rahul Ajay	1+1+1	-	-	-	Requested UPJN to direct KRMPL to comply.
03.08.2021	Progress of work in Pankha facilities.	-	03.08.2021 S-1027	-	20	-	-	Dr. Girdhar C.M.Dimri	1+1+1	-	-	-	Requested UPJN to take immediate

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)
03.08.2021	Regarding Compensation for Non-Availability of MPS and STP at Bingawan.	-	03.08.2021 S-1028	-	20	-	-	Dr. Giridhar Prasoorn Rahul Pankaj Ajay	1+1+1+1+1	-	-	-	Requested UPJN to review again and for final decision.
03.08.2021	Submission of Datasheet, Catalogue & QAP of Ultrasonic open channel floe meter for 130 MLD Jajmau STP.	29.07.21 K-1541	03.08.2021 S-1029	05	20	-	-	Prasoorn Priyesh Pankaj Rahul Kapil	1+1+1+1+1	-	-	-	Recommended for approval with the conditions.
04.08.2021	Recommendation for Approval of GA, technical datasheet & QAP of Sluice gate (IPS, MPS & STP) for 30 MLD STP Pankha.	K-1411	04.08.2021 S-1030	-	20	-	-	Dr. Giridhar C.M.Dimri Prasoorn Satendra Priyesh Rahul Ajay	1+1+1+1+1+1+1	-	-	-	Vetted & recommended for approval with the conditions.

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
04.08.2021	Site Inspection conducted on 31.07.2021 at 42 MLD STP Sajari.	-	04.08.2021 S-1031	-	20	-	-	Dr. Giridhar Priyesh Rahul Kapil Pankaj	1+1+1+1+1	-	-	-	Inspection report Submitted by PE.
05.08.2021	Observation on Monthly activity Report of 42 MLD Sajari facilities for the month of June- 2021.	17.07.21 K-1488	05.08.2021 S-1032	19	20	-	-	C.M.Dimri Priyesh Ajay Pankaj Rahul	1+1+1+1+1	-	-	-	Directed KRMPL to resubmit the monthly performance report for June 2021 incorporating the said points.
05.08.2021	Observation on Monthly activity Report of 210 MLD Bingawan facilities for the month of June- 2021.	17.07.21 K-1487	05.08.2021 S-1033	19	20	-	-	Dr. Giridhar Prasoon Satendra Ajay Rahul Kapil Pankaj	1+1+1+1+1+1+1	-	-	-	Directed KRMPL to resubmit the monthly performance report for June 2021 incorporating the said points.

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
06.08.2021	Pankha STP Site inspection Report of dated 05.08.2021	-	06.08.2021 S-1034	-	20	-	-	C.M.Dimri Satendra	1+1	-	-	-	Inspection report Submitted by PE.
06.08.2021	Release of Payment from June 2020 to December 2020.	-	06.08.2021 S-1035	-	20	-	-	Dr. Girdhar Priyesh Ajay Kapil Pankaj	1+1+1+1+1	-	-	-	Request for necessary action.
06.08.2021	Submission of GA, Datasheet, BOM, Wiring Diagram & QAP of Battery and Battery Charger for 30 MLD Pankha.	02.08.21 K-1559	06.08.2021 S-1036	04	20	-	-	A.K.Seth Priyesh Satendra Pankaj Ajay Rahul	1+1+1+1+1+1	-	-	-	Recommended for approval.
06.08.2021	Submission of GA, Datasheet & QAP of cable tray for 30 MLD STP Pankha.	02.08.21 K-1562	06.08.2021 S-1037	04	20	-	-	Dr. Girdhar Prasoorn A.K.Seth Priyesh Satendra	1+1+1+1+1+1+1	-	-	-	Recommended for approval with the conditions.

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
06.08.2021	Submission of GA, Datasheet, BOM, Wiring Diagram & QAP of Battery and Battery Charger for 130 MLD Jajmau.	02.08.21 K-1561	06.08.2021 S-1038	04	20	-	-	Kapil Rahul	1+1+1+1+1	-	-	-	Recommended for approval.
07.08.2021	Recommendation for Approval of GA, technical datasheet & QAP for TEPH pumps for 130 MLD STP Jajmau.	06.08.21 K-1579	07.08.2021 S-1040	01	20	-	-	Dr. Giridhar A.K.Seth Priyesh Ajay Rahul	1+1+1+1+1	-	-	-	Vetted & recommended for approval.
07.08.2021	Recommendation for Approval of GA, technical datasheet & QAP for TEPH pumps for 130 MLD STP Jajmau.	06.08.21 K-1579	07.08.2021 S-1040A	01	20	-	-	C.M.Dimr i Dr. Giridhar A.K.Seth Priyesh Ajay Rahul	1+1+1+1+1+1+1	-	-	-	Vetted & 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)
07.08.2021	Recommendation for Approval of GA, technical datasheet & QAP for Gas Mixing system (Landia) at Digester for 130 MLD STP Jajmau.	06.08.21 K-1580	07.08.2021 S-1041	01	20	-	-	Dr. Giridhar Satendra Ajay Rahul Kapil Pankaj	1+1+1+1+1+1	-	-	-	Recommended for approval with the conditions.
08.08.2021	Sunday												
09.08.2021	Submission of GA, Datasheet, SLD, Wiring Diagram, BOM & QAP of LT Panel & LPBS for 30 MLD STP Pankha.	02.08.21 K-1557	09.08.2021 S-1042	07	20	-	-	A.K.Seth Satendra Ajay Pankaj Rahul	1+1+1+1+1	-	-	-	Recommended for approval with the conditions.
09.08.2021	Submission of GAD for I&D works and process calculation at 05 MLD STP	03.08.21 K-1570	09.08.2021 S-1043	06	20	-	-	Dr. Giridhar Priyesh Pankaj Kapil	1+1+1+1	-	-	-	Requested UPJN to directed KRMPL to submit compliance

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	Shuklaganj.												ASAP.
09.08.2021	Acceptance of compliance for Sluice gate at 30 MLD STP Pankha.	06.08.21 K-1581	09.08.2021 S-1044	03	20	-	-	C.M.Dimir Satendra Ajay Rahul	1+1+1+1	-	-	-	Recommended for approval.
09.08.2021	Submission of MPR for the month of July 2021 for NMCG Project.	-	09.08.2021 S-1045	-	20	-	-	Dr. Giridhar Priyesh Ajay Pankaj Kapil	1+1+1+1+1	-	-	-	MPR is submitted by PE.
10.08.2021	Pending design and drawing for all IPS at 30 MLD STP Pankha.	29.07.21 K-1543	10.08.2021 S-1046	12	20	-	-	A.K.Seth Pankaj Satendra Rahul	1+1+1+1	-	-	-	Requested UPJN to directed KRMPL to provide all pending design document soon.
10.08.2021	Inspection Report of 210 MLD Bingawan facilities,	-	10.08.2021 S-1047	-	20	-	-	C.M.Dimir Pankaj Ajay	1+1+1	-	-	-	Inspection report Submitted by PE.

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	inspection done on 06.08.2021												
10.08.2021	Site Inspection conducted on 06.08.2021 at Jajmau STP.	-	10.08.2021 S-1048	-	20	-	-	Satendra Pankaj Ajay	1+1+1	-	-	-	Inspection report Submitted by PE.
10.08.2021	Request to withhold payment against 4 th milestone for 15 MLD Unnao STP.	-	10.08.2021 S-1049	-	20	-	-	Dr. Girdhar A.K.Seth Satendra Priyesh Pankaj Kapil	1+1+1+1+1+1	-	-	-	Request UPIN to withhold payment against 4 th milestone for 15 MLD Unnao STP.
11.08.2021	Submission of GA, Datasheet & QAP of cable tray for 130 MLD STP Jajmau.	02.08.21 K-1563	11.08.2021 S-1050	09	20	-	-	A.K.Seth Priyesh Ajay Rahul Pankaj	1+1+1+1+1	-	-	-	Recommended for approval with the conditions.
11.08.2021	Submission of GA, Datasheet, SLD, Wiring Diagram, BOM & QAP of DG Synchronising Panel for 130 MLD STP Jajmau.	02.08.21 K-1565	11.08.2021 S-1051	09	20	-	-	Dr. Girdhar A.K.Seth Priyesh Satendra Pankaj Rahul Ajay Kapil	1+1+1+1+1+1+1	-	-	-	Recommended for approval.

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
12.08.2021	Submission of design drawing for sewerage networks at 05 MLD STP Shuklaganj.	03.08.21 K-1571	12.08.2021 S-1052	09	20	-	-	Priyesh Kapil Pankaj	1+1+1	-	-	-	Request UPIN for necessary action.
12.08.2021	Submission of civil assignment drawing for HT metering room at ICI Nalla and Sundar Nagar IPS at 30 MLD Pankha.	29.07.21 K-1542	12.08.2021 S-1053	14	20	-	-	Dr. Giridhar A.K.Seth Satendra Rahul	1+1+1+1	-	-	-	Recommended for approval.
12.08.2021	Submission revised civil assignment drawing for HT VCB Panel room & PMCC Panel room at 130 MLD STP Jajmau.	31.07.21 K-1555	12.08.21 S-1054	12	20	-	-	A.K.Seth Ajay Rahul Pankaj	1+1+1+1	-	-	-	Recommended for approval with the conditions.
12.08.2021	Submission of Control & Operation Philosophy and Interlock P&ID	-	12.08.2021 S-1055	-	20	-	-	Dr. Giridhar Prasoorn Priyesh Ajay	1+1+1+1+1+1+1	-	-	-	PE submitted our Comments.



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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
13.08.2021	documents for 05 MLD STP Shuklaganj and 15 MLD STP Unhao.							Kapil Rahul Pankaj					
13.08.2021	Submission of GA, Datasheet, SLD, Wiring Diagram, BOM & QAP of LT Panel & LPBS for 130 MLD STP Jajmau.	02.08.21 K-1560	13.08.2021 S-1056	11	20	-	-	Dr. Giridhar A.K.Seth Priyesh Satendra Ajay Kapil Rahul Pankaj	1+1+1+1+1+1+1	-	-	-	Request UPIN to direct KRMPL for early response so than final recommendation of LT Panel be made.
14.08.2021													
Second Saturday													
15.08.2021													
Sunday													
16.08.2021	Regarding Approval of GA, Technical Datasheet & QAP of Sluice gate (IPS, MPS & STP) for 30 MLD STP Pankha.	12.08.21 J-1802/w-21/154	-	-	20	-	-	Dr. Giridhar J.P.Tripathi A.K.Seth Linga Rao Preetam Sunil Priyesh Satendra	1+1+1+1+1+1+1+1+1+1+1	-	-	-	Under Review.

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
17.08.2021	Compliance of Gates for 15 MLD STP Unnao.	09.08.21 K-1595	-	-	20	-	-	Dr. Girdhar J.P.Tripathi A.K.Seth Linga Rao Sunil Preetam C.M.Dimri Priyesh Satendra Kapil Ajay Rahul Pankaj	1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1	-	-	-	Under Review.
18.08.2021	Regarding inspection the supply material (E&M) at site for 30 MLD STP Pankha.	K-1522	18.08.2021 S-1057	-	20	-	-	Dr. Girdhar C.M.Dimri Satendra Pankaj Ajay Rahul	1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1	-	-	-	Request UPIN to instruct KRMPL to resolve the issue ASAP.

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
18.08.2021	Regarding inspection the supply material (E&M) at site for 15 MLD STP Unnao.	-	18.08.2021 S-1058	-	20	-	-	J.P.Tripathi Sunil Priyesh Kapil Ajay Rahul	1+1+1+1+1+1	-	-	-	Request UPIN to instruct KRMPL to resolve the issue ASAP.
18.08.2021	Recommendation for Approval of GA, Technical datasheet & QAP for Sluice Gate at 15 MLD STP Unnao.	09.08.21 K-1595	18.08.2021 S-1059	09	20	-	-	C.M.Dimri Preetam Linga Rao Priyesh Satendra Pankaj Kapil Ajay Rahul	1+1+1+1+1+1+1+1	-	-	-	Vetted & Recommended for approval.
19.08.2021	Recommendation for Approval of GA, Technical Datasheet & QAP of Screens for ICI Nalla, Sundar Nagar & Thermal Nalla at 30 MLD Pankha.	K-1499	19.08.2021 S-1060	-	20	-	-	Dr. Girdhar J.P.Tripathi Priyesh Satendra Kapil Ajay Rahul	1+1+1+1+1+1+1	-	-	-	Vetted & Recommended for approval.

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
19.08.2021	Submission of Revised Structural Design and drawing of PTU for 15 MLD STP Unnao.	07.08.21 K-1587	19.08.2021 S-1061	12	20	-	-	C.M.Dimri Sunil Preetam Linga Rao Priyesh Ajay Pankaj Kapil	1+1+1+1+1+1+1+1	-	-	-	Request UPJN to instruct KRMPL to resolve the issue with HBTU soil expert immediately.
20.08.2021													
21.08.2021	Recommendation for Approval of GA, Technical Datasheet & QAP of Air Blower for 30 MLD Pankha.	20.08.21 K-1643	21.08.2021 S-1062	01	20	-	-	Dr. Giridhar Sunil Linga Rao Priyesh Satendra Ajay Pankaj	1+1+1+1+1+1+1+1	-	-	-	Vetted & Recommended for approval.
21.08.2021	Submission of RCC Design & Drawing of Meter Room for 15 MLD Unnao.	06.08.21 K-1577	21.08.2021 S-1062A	15	20	-	-	C.M.Dimri Preetam Priyesh Pankaj Ajay Kapil Rahul	1+1+1+1+1+1+1+1	-	-	-	Reviewed and submit our comments

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
21.08.2021	KPIs Adherence Report of 210 MLD Bingawan STP for the month of July-2021	17.08.21 K-1626	21.08.2021 S-1063	04	20	-	-	J.P.Tripathi Linga Rao Ajay Pankaj	1+1+1+1	-	-	-	KPI adherence report has been prepared and submitted for the month of July 2021
21.08.2021	Submission of RCC Design and drawing of VCB Panel Room for 15 MLD STP Unnao.	07.08.21 K-1591	21.08.2021 S-1063A	14	20	-	-	Dr. Giridhar C.M.Dimri Preetam Priyesh Satendra Rahul Kapil	1+1+1+1+1+1+1	-	-	-	Reviewed and submit our comments.
21.08.2021	KPIs Adherence Report of 42 MLD Sajari STP for the month of July-2021	17.08.21 K-1625	21.08.2021 S-1064	04	20	-	-	J.P.Tripathi Ajay Pankaj	1+1+1	-	-	-	KPI adherence report has been prepared and submitted for the month of July 2021.
21.08.2021	Submission of extra claim for boundary wall due to increase in length- 30 MLD STP	18.08.21 K-1632	21.08.2021 S-1065	03	20	-	-	Dr. Giridhar C.M.Dimri Preetam Satendra	1+1+1+1+1	-	-	-	Recommended for approval with the conditions.

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	Pankha.							Kapil					
21.08.2021	Recommendation for Approval of GA, Technical datasheet & QAP for Air Blower (R-02) at 05 MLD STP Shuklaganj.	20.08.21 K-1645	21.08.2021 S-1066	01	20	-	-	Dr. Giridhar Sunil Preetam Priyesh Kapil Ajay Rahul	1+1+1+1+1+1	-	-	-	Vetted & Recommended for approval.
21.08.2021	Recommendation for Approval of GA, Technical datasheet & QAP for Air Blower at 15 MLD STP Unnao.	20.08.21 K-1644	21.08.2021 S-1067	01	20	-	-	Sunil Linga Rao Priyesh Rahul Pankaj Kapil Ajay	1+1+1+1+1+1	-	-	-	Vetted & Recommended for approval.
21.08.2021	Environmental and Social Impact Assessment progress (ESIA) Report of Quarter 1) January to	K-1550	21.08.2021 S-1068	-	20	-	-	C.M.Dimri Linga Rao Satendra Rahul Pankaj	1+1+1+1+1	-	-	-	Request UPIN to direct KRMPL to inspect all the sites by Experts.

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
21.08.2021	March,2020 2)April to June, 2020 3)July to September, 2020 4) October to December, 2020 5)January to March, 2021 6)April to June, 2021.												
21.08.2021	Recommendation for Approval of GA, Technical datasheet & QAP of valves (2 nd lot) for 15 MLD STP Unnao & 05 MLD STP Shuklaganj.	K-1544	21.08.2021 S-1069	-	20	-	-	Dr. Giridhar Priyesh Pankaj Kapil Ajay	1+1+1+1+1	-	-	-	Vetted & Recommended for approval.
21.08.2021	Comments on GA, Technical datasheet & QAP of valves (2 nd lot for IPS & I&D) for 30 MLD STP	K-1543	21.08.2021 S-1070	-	20	-	-	Satendra Ajay Rahul	1+1+1	-	-	-	Reviewed and submit our comments.

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
21.08.2021	Pankha. Comments on GA, Technical datasheet & QAP of Poly dosing pump for 130 MLD STP Jajmau.	K-1509	21.08.2021 S-1071	-	20	-	-	Priyesh Pankaj Ajay Rahul Kapil	1+1+1+1+1	-	-	-	Reviewed and submit our comments.
21.08.2021	Submission of GA, Datasheet, SLD, Wiring Diagram, BOM & QAP of LT Panel & LPBS for 15 MLD STP Unnao.	02.08.21 K-1556	21.08.2021 S-1072	19	20	-	-	Preetam Priyesh Pankaj Kapil Rahul	1+1+1+1+1	-	-	-	Reviewed and submit our comments.
22.08.2021	Comments on GA, Technical datasheet & QAP for Chlorination system at 15 MLD STP Unnao.	K-1514	22.08.2021 S-1073	-	20	-	-	Sunil Preetam C.M.Dimri Pankaj Priyesh Kapil Ajay Rahul	1+1+1+1+1+1+1	-	-	-	Submit our comments & Request UPJN to direct to KRMPL to comply.
22.08.2021	Regarding Handrailing drawing	-	22.08.2021 S-1074	-	20	-	-	C.M.Dimri J.P.Tripat	1+1+1+1+1	-	-	-	Request UPJN to instruct KRMPL to get

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	approval, painting procedure (Civil units & Mechanical equipments / steel structure) approval for 210 MLD STP Bingawan.							hi Linga Rao Ajay Pankaj	(10)	(11)	(12)	(13)	painting Approval.
22.08.2021	Comments on GA, Technical datasheet & QAP for Chlorination system at 30 MLD STP Pankha.	K-1513	22.08.2021 S-1075	-	20	-	-	Dr. Giridhar Sunil Prasoona Satendra Ajay Kapil Rahul	1+1+1+1+1+1+1	-	-	-	Submit our comments & Request UPJN to direct KRMPL to comply.
23.08.2021	List of Supervisory staff of UPJN and STC to be covered under Third Party Group Insurance Policy to be	-	23.08.2021 S-1076	-	20	-	-	Dr. Giridhar Preetam J.P.Tripathi Linga Rao Priyesh Satendra Pankaj	1+1+1+1+1+1+1	-	-	-	Request UPJN for necessary action.

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	taken by KRMPL for all Locations of HAM Project Kanpur.												
23.08.2021	Submission of GA, Datasheet & QAP of Cable Tray 15 MLD STP Unnao.	23.08.21 K-1655	23.08.2021 S-1081	00	20	-	-	Sunil Prasoona Priyesh Kapil Ajay Rahul	1+1+1+1+1+1	-	-	-	Recommended for approval with the conditions.
24.08.2021	Regarding suspension of penalty against guaranteed energy at 210 MLD STP.	-	24.08.2021 S-1077	-	20	-	-	Dr. Giridhar J.P.Tripathi Pankaj Ajay Rahul	1+1+1+1+1	-	-	-	Request UPJN for necessary action.
24.08.2021	Submission of RCC Design and Drawing of Meter Room for 30 MLD STP Pankha.	06.08.21 K-1576	24.08.2021 S-1078	18	20	-	-	Preetam Satendra Rahul	1+1+1	-	-	-	Reviewed and submit our comments.
24.08.2021	Submission of RCC Design and Drawing of VCB Panel Room for	07.08.21 K-1590	24.08.2021 S-1079	17	20	-	-	Satendra Pankaj Ajay Kapil	1+1+1+1+1	-	-	-	Reviewed and submit the Observations.

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	30 MLD STP Pankha.							Rahul					
24.08.2021	Submission of GA, Datasheet, BOM, Wiring Diagram & QAP of Battery and Battery Charger for 15 MLD STP Unnao.	23.08.21 K-1655	24.08.2021 S-1080	01	20	-	-	Dr. Giridhar Priyesh Ajay Rahul Kapil	1+1+1+1+1	-	-	-	Recommended for Approval.
24.08.2021	Unnao STP site inspection of Dated 18 th August, 2021.	-	24.08.2021 S-1082	-	20	-	-	Linga Rao Priyesh Kapil	1+1+1	-	-	-	Inspection report Submitted by PE.
24.08.2021	Unnao 15 MLD STP site inspection Report of Dated 17 th , 19 th & 21 st August, 2021.	-	24.08.2021 S-1083	-	20	-	-	Dr. Giridhar Linga Rao Satendra Priyesh Kapil	1+1+1+1+1	-	-	-	Inspection report Submitted by PE.
24.08.2021	Shuklaganj 05 MLD STP Site inspection Report of dated 21 st August, 2021.	-	24.08.2021 S-1084	-	20	-	-	Linga Rao Priyesh Kapil	1+1+1	-	-	-	Inspection report Submitted by PE.
24.08.2021	Comments on Gas flaring	K-1506	24.08.2021 S-1085	-	20	-	-	Dr. Giridhar	1+1+1+1+1	-	-	-	Reviewed and submit the

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	system for 130 MLD STP Jajmau.							Sunil Satendra Pankaj Rahul					comments.
25.08.2021	MOM on dated 21.08.2021 at 15 MLD STP Unnao site.	-	25.08.2021 S-1086	-	20	-	-	Dr. Girdhar C.M.Dimri Sunil Preetam Linga Rao J.P.Tripathi Priyesh Satendra Pankaj Rahul Kapil Ajay	1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1	-	-	-	MOM Submitted by PE.
26.08.2021	Submission of extra claim of trenchless work at sewerage of 30 MLD STP Pankha.	17.08.21 K-1628	26.08.2021 S-1087	09	20	-	-	Dr. Girdhar Satendra	1+1	-	-	-	Reviewed and submit the Observations.
26.08.2021	Submission of Compliance Report for RCC Design and drawing of	17.08.21 K-1624	26.08.2021 S-1088	09	20	-	-	Preetam Priyesh Rahul Kapil Pankaj	1+1+1+1+1+1	-	-	-	Reviewed.

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	Centrifuge Building at 05 MLD STP Shuklaganj.												
26.08.2021	Submission of RCC Design and drawing of DG Foundation for 30 MLD STP Pankha.	06.08.21 K-1576	26.08.2021 S-1089	20	20	-	-	Dr. Girdhar Sunil Priyesh Satendra Ajay Rahul	1+1+1+1+1+1	-	-	-	Reviewed and found in order.
26.08.2021	Submission of RCC Design and drawing of Transformer Foundation for 30 MLD STP Pankha.	07.08.21 K-1588	26.08.2021 S-1090	19	20	-	-	Linga Rao Satendra Rahul	1+1+1	-	-	-	Reviewed and found in order.
26.08.2021	Submission of RCC Design and drawing of DG Foundation for 15 MLD STP Unnao.	07.08.21 K-1589	26.08.2021 S-1091	19	20	-	-	Dr. Girdhar Priyesh Ajay Kapil	1+1+1+1	-	-	-	Request UPIN to instruct KRMPL to redesign Unnao DG Foundation Drawing.
27.08.2021	Regarding observation on	-	27.08.2021 S-1092	-	20	-	-	Dr. Girdhar	1+1+1+1+1+1+1+1+1+1	-	-	-	Inspection report

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)
	UASB Reactor no. 5 during inspection at 210 MLD STP Bingawan Site.							Sunil J.P.Tripathi Linga Rao Preetam Priyesh Satendra Pankaj Kapil Rahul Ajay					Submitted by PE.
27.08.2021	Site inspection conducted on 18.08.2021 at 42 MLD STP Sajari.	-	27.08.2021 S-1093	-	20	-	-	Ajay Pankaj	1+1	-	-	-	Inspection report Submitted by PE.
28.08.2021	Comments on proposal of Membrane type Gas Holder for 130 MLD STP Jajmau.	K-1473	28.08.2021 S-1094	-	20	-	-	Dr. Girdhar J.P.Tripathi Satendra Pankaj Rahul	1+1+1+1+1	-	-	-	Reviewed and submit the Comments.
28.08.2021	Comments on Gas scrubber & Ancillary equipment for 130 MLD STP	K-1507	28.08.2021 S-1095	-	20	-	-	Dr. Girdhar Priyesh Rahul Kapil	1+1+1+1+1+1	-	-	-	Reviewed and submit the Comments.

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6 -5]	Reason for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	Jajmau.							Ajay Pankaj					
28.08.2021	Comments on GA, Datasheet & QAP of Gas engine & Ancillary equipment for 130 MLD STP Jajmau.	K-1511	28.08.2021 S-1096	-	20	-	-	J.P.Tripathi Pankaj Rahul Ajay	1+1+1+1	-	-	-	Reviewed and submit the Comments.
28.08.2021	Comments on GA, datasheet & QAP of screw pump for 130 MLD STP Jajmau.	K-1510	28.08.2021 S-1097	-	20	-	-	J.P.Tripathi Satendra Rahul Ajay Pankaj	1+1+1+1+1	-	-	-	Reviewed and submit the Comments.
28.08.2021	Comments on Chlorination System & ancillary equipment for 130 MLD STP Jajmau.	K-1505	28.08.2021 S-1098	-	20	-	-	J.P.Tripathi Ajay Rahul Pankaj	1+1+1+1	-	-	-	Requested UPJN to direct KRMPL to Comply.
28.08.2021	Submission of GA, Datasheet, SLD, Wiring Diagram, BOM, & QAP of LT	23.08.21 K-1656	28.08.2021 S-1099	05	20	-	-	Dr. Giridhar Priyesh Linga Rao Satendra	1+1+1+1+1+1	-	-	-	Vetted and recommended for approval.

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
28.08.2021	Panel & LBPS for 15 MLD STP Unnao.							Ajay Rahul Kapil					
28.08.2021	Comments on Submersible pump for Supernatant Sump at 130 MLD STP Jajmau	K-1401	28.08.2021 S-1100	-	20	-	-	J.P.Tripathi Ajay Rahul	1+1+1	-	-	-	Reviewed and submit the Comments.
28.08.2021	4 th Milestone completion certificate for 15 MLD Unnao STP.	11.08.21 K-1598	28.08.2021 S-1101	17	20	-	-	Dr. Girdhar Priyesh Pankaj Kapil	1+1+1+1	-	-	-	Requested UPJN for necessary Action.
29.08.2021													
30.08.2021													
31.08.2021	Insurance Policy for Staff of UPJN	28.08.21 K-1675	31.08.2021 S-1102	03	20	-	-	Dr. Girdhar J.P.Tripathi Priyesh Linga Rao Satendra Pankaj Kapil	1+1+1+1+1+1	-	-	-	Request UPJN to instruct KRMPL to include the names of PE (STC) Staff.

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)
31.08.2021	O&M Manual and Schedule Maintenance Plan for 1 st year of 43 MLD Jajmau Phase-II facilities.	-	31.08.2021 S-1103	-	20	-	-	C.M.Dimri J.P.Tripathi Pankaj Kapil	1+1+1+1	-	-	-	Request UPIN to direct KRMPL to Submit plan.
31.08.2021	Re-inspection of UASB Reactor no. 5 at 210 MLD STP Bingawan site.	28.08.21 K-1673	31.08.2021 S-1104	03	20	-	-	Dr. Giridhar J.P.Tripathi Satendra Pankaj Ajay	1+1+1+1+1	-	-	-	Inspection report Submitted by PE.
31.08.2021	Submission of extra claim in sewerage works due to trenchless – 15 MLD Unnao STP.	20.08.21 K-1646	31.08.2021 S-1105	11	20	-	-	Dr. Giridhar C.M.Dimri Priyesh Rahul Kapil	1+1+1+1+1	-	-	-	Recommended for approval.
31.08.2021	Site inspection conducted on 18.08.2021 & 25.08.2021 & 26.08.2021 and 31.08.2021 at 210 MLD STP	-	31.08.2021 S-1105A	-	20	-	-	Dr. Giridhar J.P.Tripathi Ajay Rahul Pankaj	1+1+1+1+1	-	-	-	Inspection report Submitted by PE.

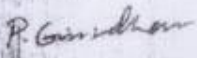
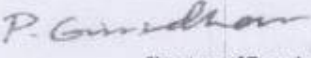
Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
31.08.2021	Bingawan. Site inspection conducted on 26.08.2021 of all IPS & CSPS associated with 130 MLD STP Jajmau.	-	31.08.2021 S-1105B	-	20	-	-	J.P.Tripathi Dr. Girdhar Priyesh Pankaj Ajay Rahul	1+1+1+1+1+1	-	-	-	Inspection report Submitted by PE.
31.08.2021	Site Inspection conducted on 23.08.2021 at 43 MLD (O&M) & 130 MLD STP Jajmau.	-	31.08.2021 S-1105C	-	20	-	-	J.P.Tripathi Priyesh Ajay Rahul	1+1+1+1	-	-	-	Inspection report Submitted by PE.

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

SN	Name	Designation	Total Man-days	Input
1.	Dr. Giri Prabhu Kumar	Team Leader cum waste water expert	31	Timesheet attached
2.	Mr. Chandra Mauleshwar Dimri	Senior Civil Engineer	20	Timesheet attached
3.	Mr. Jai Prakash Tripathi	O&M Engineer	19	Timesheet attached
4.	Mr. Anil Kumar Seth	Senior Electrical Engineer	12	Timesheet attached
5.	Mr. Satish kamaraju PE	Senior Process Engineer	00	Timesheet attached
6.	Mr. Sunil Basutkar	Senior Mechanical Engineer	12	Timesheet attached
7.	Mr. Prasoon Bhardwaj	Instrumentation Engineer	09	Timesheet attached
8.	Mr. Preetam Walunjkar	Senior Structure Engineer	12	Timesheet attached
9.	Mr. Linga Krishna Rao	Safety expert	16	Timesheet attached

Annexure 2: Timesheets of Experts

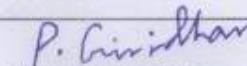
Dr. Giridhar Prabhukumar (Team Leader)

Project Engineer		
NMCG-STP Projects at Kanpur under Hybrid Annuity based PPP Mode		
Daily Report		
Name : Giridhar Prabhukumar		Month/Year:
Position: Team Leader & Wastewater Expert		Aug-21
Date	Description	Location
1	SUNDAY	
2	Meeting with GM and PM1 at UPJN office, Kanpur along with KRMPL team for discussions regarding O&M Sites and handover of 43 MLD Jajmau plant	KANPUR
3	Meeting with Mr. Amit Baranbe and Mr. Paresh Chutke regarding 210 MLD STP at Bingawan	KANPUR
4	Issued MoM DRAFT for 2nd August 2021 meeting for UPJN	KANPUR
5	Site Inspection of Pankha STP	KANPUR
6	Site Inspection of 130 MLD and 43 MLD STPs at Jajmau	KANPUR
7	Review of submittals and comments, issued letters for the same	KANPUR
8	SUNDAY	
9	Site inspection of IPS of Jajmau 130 MLD STP with Mr. Paresh Chutke, KRMPL	KANPUR
10	Meeting with GM and PM1 at UPJN office, Kanpur along with Mr. Manobendra, KRMPL	KANPUR
11	Review of submittals and comments, issued letters for the same	KANPUR
12	Review of submittals and comments, issued letters for the same	KANPUR
13	Review of submittals and comments, issued letters for the same	KANPUR
14	2 nd SATURDAY	
15	SUNDAY	
16	Meeting with Mr. Mohit Chak at Unnao Office and discussed progress of Unnao STP and Shuklaganj STP; clearance of 4th Milestone for Unnao STP	KANPUR
17	Conducted status review of all sites. Prepared Presentation	KANPUR
18	Conducted Video Conference attended by UPJN and KRMPL team and ED-Projects & NMCG Team	KANPUR
19	Meeting with Mr. Linga Krishna Rao, Safety Expert and review of safety concerns at various sites that are pending compliance from KRMPL; Review of submittals and comments, issued letters for the same	KANPUR
20	Review of submittals and comments, issued letters for the same	KANPUR
21	Review of submittals and comments, issued letters for the same	KANPUR
22	SUNDAY	
23	Public Holiday due to demise of Mr. Kalyan Singh (Ex CM of UP)	KANPUR
24	Weekly Meeting with Mr. PC Shukla, KRMPL, GM, UPJN and PM1, PM3 at UPJN Kanpur office to discuss pending issues at Pankha, Jajmau, Bingawan and Sajari STPs	KANPUR
25	Site visit and inspection of 4 Nos. IPS and CSPS associated with 130 MLD STP at Jajmau; And Pankha STP Site inspection	KANPUR
26	Site inspection of 210 MLD STP Bingawan with Mechanical Expert, Mr. Sunil Basutkar for inspection of UASB reactor No. 5; Site inspection of Unnao STP	KANPUR
27	Meeting with GM regarding O&M Sites. Received and reviewed handover note of 43 MLD Jajmau plant	KANPUR
28	Discussed maintenance issues and others; issued draft notice for 10% O&M charges deduction for Bingawan and Sajari	KANPUR
29	SUNDAY	
30	Holiday for Sri Krishna Janmashtami	KANPUR
31	Site inspection of 210 MLD STP Bingawan for re-inspection of UASB reactor No. 5	KANPUR
I hereby certify that the time report above is a true and complete statement of my working time for the payroll		
Signature of Employee		 Signature of Team Leader

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

Project Engineer		Shah Technical Consultants Pvt Limited	
NMCG-STP Projects at Kanpur under Hybrid Annuity based PPP Mode			
Daily Report			
Name :	Chandra Mauleshwar Dimri	Month/Year:	Aug-21
Position:	Senior Civil Engineer		
Date	Description	Location	
1	SUNDAY	Kanpur	
2	Meeting with GM GPCU UPJN Kanpur and KRML in the chamber of PM 1	Kanpur	
3	Meeting with Mr Amit Brahmbhe and Mr Paresh Chutke ,O&M i/c of KRML regarding Bingawan 210 MLD (O&M) Plant issues and Jajmau STP issues and Lab for 25 parameters etc.	Kanpur	
4	MoM of 2nd Aug meet with GM GPCU UPJN Kanpur prepared.	Kanpur	
5	Inspection of Pankha STP facilities with Team Leader & Support Engineer.	Kanpur	
6	Inspection of Jajmau STP and facilities with Team Leader and Support Engineer	Kanpur	
7	Inspection note preparation for 6th August visit etc.	Kanpur	
8	SUNDAY	Kanpur	
9	Inspection of Jajmau IPS and facilities with Team Leader and Support Engineers along with Mr Paresh Chutke ,O&M i/c of KRML	Kanpur	
10	Meeting with GM GPCU UPJN Kanpur along with PM1	Kanpur	
11	On Leave		
12	On Leave		
13	On Leave		
14	SECOND SATURDAY		
15	SUNDAY		
16	On Leave		
17	PPT preparation for NMCG meet and discussion with GM, PM3 of GPCU, TL etc. regarding progress	kanpur	
18	Attended Video Conference of NMCG New Delhi	Kanpur	
19	Preparation of PPT of NMCG meeting and discussions with Mr Priyesh regarding PPT	kanpur	
20	HOLIDAY		
21	Preparation of PPT of NMCG meeting and discussions with Mr Priyesh regarding PPT	Kanpur	
22	SUNDAY		
23	On Leave		
24	On Leave		
25	Draft for Handing over note for Jajmau STP Phase II prepared in Email for UPJN	kanpur	
26	On Leave		
27	On Leave		
28	On Leave		
29	SUNDAY		
30	HOLIDAY		
31	Discussions with KRML regarding pending approvals of BEPs / Structural drawings of 5 mid Shuklaganj STP and facilities	Kanpur	

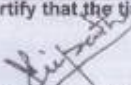
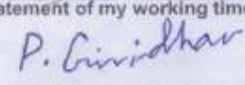

Signature of Employee


Signature of Team Leader

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

Project Engineer		Shah Technical Consultants Pvt Limited	
NMCG-STP Projects at Kanpur under Hybrid Annuity based PPP Mode			
Daily Report			
Name :	JAI PRAKASH TRIPATHI		Month/Year:
Position:	O & M ENGINEER		Aug-21
Date	Description	Location	
1	Sunday		
2	Paid Leave		
3	Paid Leave		
4	Paid Leave		
5	Paid Leave		
6	Paid Leave		
7	Paid Leave		
8	Sunday		
9	Paid Leave		
10	Paid Leave		
11	Paid Leave		
12	Paid Leave		
13	Paid Leave		
14	Second Saturday		
15	Sunday		
16	Discussed and instructed Mr. Goyal Support Engineer and Mr. Pankaj Rawat Support Supervisor to prepare and send adherence reports of Sajari and Bingawan for the month of July 2021 and comments on monthly performance reports of Sajari and Bingawan submitted by KRMPPL for July 2021 -	Kanpur	
17	Corrected and finalized PPT for NMCG review meeting proposed on 18/08/2021	Kanpur	
18	Attended NMCG review meeting	Kanpur	
19	Moharrum		
20	Reveiwed and finalized Adherence reports of Sajari and Bingawan for the month of July 2021	Kanpur	
21	Prepared List of Supervisory Staff of UPJN and STC to be covered under Third Party Group Insurance Policy to be taken by KRMPPL	Kanpur	
22	Sunday		
23	Public Holiday due to demise of Mr. Kalyan Singh Ex CM UP		
24	Prepared reply of agenda points submitted by KRMPPL for GM meeting and attended meeting called by GM GPCU UPJN with TL	Kanpur	
25	Visited and inspected Bingawan STP with Mr. Linga Rao Safety Expert and Pankaj Rawat Support Supervisor	Kanpur	
26	Reveiwed and finalized inspection report of Sajari prepared by Mr. Pankaj Rawat for inspection done on 18/08/2021	Kanpur	
27	Discussed with TL regarding objections raised by Mr. P.C.Shukla KRMPPL Representative regarding supervisory role of STC for O & M facilities	Kanpur	
28	Sent Draft Notice to GM GPCU UPJN regarding withholding 10% of monthly O & M charges for non- compliance of certain works	Kanpur	
29	Sunday		
30	Shri Krishna Janmashtmy		
31	Wrote 2 letters to GM GPCU regarding 1. O & M Manual fo 43 MLD Jajmau II and 2. Industrial all risk policy for 43 MLD Jajmau Phase II	Kanpur	

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



 Signature of Employee Signature of Team Leader

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

Project Engineer		Shah Technical Consultants Pvt Limited	
NMSG-STP Projects at Kanpur under Hybrid Annuity based PPP Mode			
Daily Report			
Name :	Anil Kumar Seth	Month/Year:	Aug-21
Position:	Senior Electrical Expert		
Date	Description	Location	
1		Kanpur	
2		Kanpur	
3		Kanpur	
4		Kanpur	
5		Kanpur	
6	Review of Battery & Battery Charger for Pankha & Tajman. 30MLD 130MLD	Kanpur	
7	Review of G.I Cable Tray for Pankha 30MLD.	Kanpur	
8	SUNDAY	Kanpur	
9	Review of SLB along with various LT panels of Pankha.	Kanpur	
10	Review of Synchronising Panel for Tajman & FRP Cable Tray for Tajman.	Kanpur	
11	Letter issued for Synchroni Panel Tajman and its Cable Tray	Kanpur	
12	Review of HT metering room of IPS Sunder Nagar & ICI Noda.	Kanpur	
13	Review of HT/LT Panel room (Civil, assignment drawing, & Draft letter of LT Panel 130 mld Tajman to find deficiencies.	Kanpur	
14	SECOND SATURDAY	Kanpur	
15	SUNDAY (Independence Day)	Kanpur	
16	Discussed in the design engineer of KRMPL regarding max demand calculation Pankha & other places.	Kanpur	
17	Review of load list, max demand, Tr & Dg calculation, Pankha	Kanpur	
18		Kanpur	
19		Kanpur	
20		Kanpur	
21		Kanpur	
22		Kanpur	
23		Kanpur	
24		Kanpur	
25		Kanpur	
26		Kanpur	
27		Kanpur	
28		Kanpur	
29		Kanpur	
30		Kanpur	
31		Kanpur	

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

Note: In the month of July 21, attended 15+6 days (meetings).
 So for this month Aug 21 days are 6+9 = 15 days.

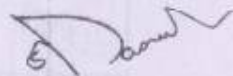
Signature of Employee

Signature of Team Leader

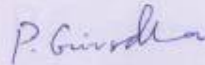
Mr. Sunil Basutkar (Mechanical Expert)

Project Engineer		Shah Technical Consultants Pvt Limited	
NMCG-STP Projects at Kanpur under Hybrid Annuity based PPP Mode			
Daily Report			
Name : Sunil Basutkar			Month/Year:
Position: Mechanical Expert			Aug-21
Date	Description		Location
1	Sunday		
2			
3			
4			
5			
6			
7			
8	Sunday		
9			
10			
11			
12			
13			
14	2nd Saturday		
15	Sunday		
16	Review of Mechanical submittals of 130MLD STP Jajmau		Kanpur
17	Visited 15 MLD STP Unnao site		Kanpur
18	Visited 210 MLD STP Bingawan site		Kanpur
19	The Meeting was attended at UPJN office Lucknow.		Kanpur
20	Holiday		Kanpur
21	Review of Mechanical submittals for 15 MLD STP Unnao site and 30 MLD STP Pankha.		Kanpur
22	Sunday		Kanpur
23	Visited 130 MLD STP Jajmau site .		Kanpur
24	Review of Mechanical submittals for 130MLD STP Jajmau		Kanpur
25	Review of Mechanical submittals for 130MLD STP Jajmau		Kanpur
26	Visited all IPSs of 130 MLD STP Jajmau site & 30 MLD STP pankha site.		Kanpur
27	Visited the Unnao site for inspection the Supplied E&M equipments.		Kanpur
28			
29	Sunday		
30	Holiday		
31			

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



Signature of Employee





Signature of Team Leader

Mr. Prasoon Bhardwaj (Instrumentation Engineer)


Project Engineer		Shah Technical Consultants Pvt Limited	
NMSG-STP Projects at Kanpur under Hybrid Annuity based PPP Mode			
Daily Report			
Name :	Prasoon Bhardwaj	Month/Year:	Aug-21
Position:	Instrumentation Engineer	Date	
Date	Description	Location	
1	Review of Control & Operation Philosophy for 5 MLD STP at Shuklaganj, Kanpur.	Jaipur(W/H)	
2	Review of Control & Operation Philosophy for 5 MLD STP at Shuklaganj, Kanpur.	Jaipur(W/H)	
3	Review of revised Data sheet, Catalogue & QAP of Ultrasonic Open Channel Flow meter for 130 MLD STP Jajmau	Jaipur(W/H)	
4	Review of P&IDs for 5 MLD STP at Shuklaganj, Kanpur	Jaipur(W/H)	
5	Review of Control & Operation Philosophy for 15 MLD STP at Unnao, Kanpur.	Jaipur(W/H)	
6	Review of Control & Operation Philosophy for 5 MLD STP at Unnao, Kanpur.	Jaipur(W/H)	
7			
8			
9			
10			
11			
12	Review of P&IDs for 15-MLD STP at Unnao, Kanpur	Jaipur(W/H)	
13			
14			
15			
16			
17			
18			
19			
20			
21			
22	Review of GA Data sheet & QAP for Chlorination System for 15 MLD STP at Unnao	Jaipur(W/H)	
23	Review of GA Data sheet & QAP for Chlorination System for 130 MLD Jajmau, 30 MLD Pankha and 5 MLD Shuklaganj	Jaipur(W/H)	
24			
25			
26			
27			
28			
29			
30			
31			

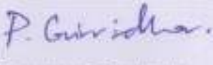
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 Signature of Employee	 Signature of Team Leader
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Mr. L.K. Rao (Safety Expert)

Project Engineer	Shah Technical Consultants Pvt Limited	
NMG-STEP Projects at Kanpur under Hybrid Annuity based PPP Mode		
Daily Report		
Name :	Linga Krishna Rao	Month/Year:
Position:	Safety Expert	Aug-21
Date	Description	Location
16	Office work attended, Collected basic PPE's given to all the staff. Review and checking of pending works related to Pankha, Unnao, Shuklagunj, Sajari, Bingawan and Jajmau plants.	Kanpur
17	Office work attended, Unnao 15 MLD Construction Project inspection done along with Mech.Expert Mr.Sunil Basutkar and TL Dr.Giri Prabhu Kumar.	Kanpur
18	Office work attended, Power point presentation made for all EHS related important points in Construction sites & O&M Plants. NMG Meeting attending along with TL Sir. Unnao 15 MLD Construction Project inspection draft prepared and shared with TL Sir. ESIA Reply draft prepared and shared with TL Sir.	Kanpur
19	Office work attended, NMG Meeting EHS related points shared and explained to KRMPL safety incharge for their compliance as instructed by TL Sir.	Kanpur
20	Moharam (Holiday)	Kanpur
21	Office work attended, Review of Project ESHS (Environmental, Safety and Health System) Plan of Jajmau 130 MLD (O&M) Plant. Discussed with TL on two pending letters for release.	Kanpur
22	Sunday	Kanpur
23	Office work attended, Pankha 30 MLD Construction site inspection done along with Mr.Satendra Sharma	Kanpur
24	Office work attended, Pankha 30 MLD Construction site inspection report draft prepared and shown to TL Sir.	Kanpur
25	Office work attended, Shuklagunj 5 MLD Construction Site & Bingawan 210 MLD (O&M) Plant inspection done along with Mr.Pankaj Rawal	Kanpur
26	Office work attended, Shuklagunj 5 MLD Construction Site & Bingawan 210 MLD (O&M) Plant inspection report draft prepared and shared with TL Sir	Kanpur
27	Office work attended, Gone through the letters received reply from KRMPL on Pankha and Unnao of July, 2021. Pankha 30 MLD Construction site inspected along with Support Engineer Mr.Satendra Sharma.	Kanpur
28	Office work attended, Jajmau 130 MLD O&M plant ESHS Plan reviewd.	Kanpur
29	Sunday	Kanpur
30	Krishna Janmastami (Holiday)	Kanpur
31	Office work attended, Sajari 42 MLD (O&M) Plant inspection done along with KRMPL Representative Mr.Ram Yadav, QC Engineer.	Kanpur

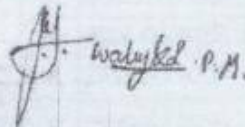

 Signature of Employee


 Signature of Team Leader

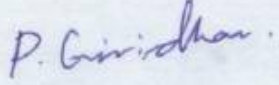
Mr. Preetam Walunjkar (Senior Structural Engineer)

Project Engineer		Shah Technical Consultants Pvt Limited	
NMCG-STP Projects at Kanpur under Hybrid Annuity based PPP Mode			
Daily Report			
Name :	Preetam Walunjkar		Month/Year:
Position:	Senior Structural Engineer		Aug-21
Date	Description		Location
16	Travel Pune to Kanpur STC by Flight/Car		Kanpur
17	Site Visit to Unnao STP with Support Engg. to Solve Blower Room issue & visited all units in Unnao STP		Kanpur
18	Check 15 & 30 MLD STP Meter Room Structural Drawings & attended VC Meeting with NMCG		Kanpur
19	Check 15 & 30 MLD STP VC Panel Structural Drawings & Site Visit to Unnao STP to Solve PTU Foundation issue		Kanpur
20	Mohram Holiday		Kanpur
21	Site Visit to Shuklaganj STP & Unnao STP again to Solve PTU Foundation issue with HBTU Soil expert		Kanpur
22	Sunday Holiday		Kanpur
23	Site Visit along with STC Mech. Expert & Support Engg. to Jajmau 130 MLD STP		Kanpur
24	Site visit Report preparation for Unnao STP Site		Kanpur
25	Site visit Report preparation for Jajmau & Shuklaganj STP Site		Kanpur
26	Checked RCC Drg of Transformer & DG Set for Unnao & Pankha Sites		Kanpur
27	Travel from Kanpur to Nagaur by Train		Kanpur

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



Signature of Employee



Signature of Team Leader

Annexure 3: Monthly Performance Report of Sajari for August. 2021






42 MLD SEWAGE TREATMENT PLANT, SAJARI, KANPUR																	
MONTHLY FLOW & LAB REPORT																	
Aug-2021																	
Date	INLET FLOW in MLD	Plant Run in HRS	RAW SEWAGE						FINAL OUTLET						F.C (< 500)	POWER SHUTDOWN HRS	REMARK
			Temp	TDS	PH (7-8)	COD (450)	BOD (250)	TSS (600)	Temp	TDS	PH (7-8)	COD (< 100)	BOD (< 30)	TSS (< 50)			
			°c	ppm		ppm	ppm	ppm	°c	ppm		ppm	ppm	ppm			
01 Aug 2021	23.93	24.00	27	1290	7.5	384	160	287	27	1050	7.9	96	25	41	340	0.00	ONE STREAM IS UNDER OPERATION
02 Aug 2021	23.27	24.00	27	1320	7.7	448	168	290	27	1046	8.1	104	27	41.0	370	8.25	ONE STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
03 Aug 2021	23.18	24.00	27	1380	7.5	480	175	315	27	1090	7.9	110	28	45	440	0.42	ONE STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
04 Aug 2021	22.94	24.00	27	1320	7.5	356	165	278	27	1040	7.9	96	28	38.0	410	0.00	ONE STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
05 Aug 2021	22.44	24.00	27	1390	7.6	464	172	305	27	1030	7.9	106	27	42	310	0.00	ONE STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
06 Aug 2021	21.04	24.00	27	1410	7.5	512	162	330	27	1040	8.1	112	25	48	430	0.00	ONE STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
07 Aug 2021	21.62	24.00	27	1420	7.6	448	166	310	27	1060	7.8	104	27	42	360	0.00	ONE STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
08 Aug 2021	22.94	24.00	27	1460	7.5	408	160	247	27	1030	7.9	96	26	44	380	0.00	ONE STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
09 Aug 2021	25.58	24.00	27	1340	7.6	388	155	253	27	1020	7.9	92	28	37	330	0.00	ONE STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
10 Aug 2021	25.25	24.00	27	1350	7.5	426	170	310	27	1080	8.1	106	28	44	370	6.33	ONE STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
11 Aug 2021	25.66	24.00	27	1290	7.7	380	155	297	27	980	7.9	96	27	39	320	0.00	ONE STREAM IS UNDER OPERATION
12 Aug 2021	24.92	24.00	27	1320	7.6	408	160	305	27	1030	8.1	98	25	42	350	0.00	ONE STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
13 Aug 2021	22.28	24.00	27	1350	7.5	464	182	316	27	1035	7.8	110	27	45	390	0.00	ONE STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
14 Aug 2021	24.17	24.00	27	1390	7.6	496	175	326	27	1055	8.1	112	28	48	440	0.00	ONE STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
15 Aug 2021	23.93	24.00	27	1330	7.5	448	170	295	27	1030	7.9	104	26	40	380	0.00	ONE STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
16 Aug 2021	22.94	24.00	28	1310	7.6	416	165	305	28	1015	8.1	96	26	38	350	0.00	ONE STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
17 Aug 2021	22.94	24.00	28	1350	7.5	512	175	320	28	1030	7.9	110	28	45	410	0.00	ONE STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
18 Aug 2021	23.76	24.00	29	1410	7.6	540	185	325	29	1205	8.1	116	29	47	390	0.00	ONE STREAM IS UNDER OPERATION
19 Aug 2021	25.25	24.00	29	1395	7.8	468	180	290	29	1160	7.9	104	27	42	340	0.00	ONE STREAM IS UNDER OPERATION
20 Aug 2021	24.92	24.00	29	1260	7.6	380	160	273	29	1020	8.1	96	25	37	430	0.00	ONE STREAM IS UNDER OPERATION
21 Aug 2021	24.26	24.00	29	1195	7.5	384	165	294	29	1035	7.9	92	26	40	370	0.00	ONE STREAM IS UNDER OPERATION
22 Aug 2021	23.76	24.00	30	1220	7.6	408	172	305	30	1048	8.1	98	25	42	330	0.00	ONE STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
23 Aug 2021	23.93	24.00	30	1290	7.5	480	185	320	30	1105	8.1	110	27	46	380	0.75	ONE STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
24 Aug 2021	24.09	24.00	30	1310	7.7	464	178	398	30	1090	7.9	104	26	44	360	0.00	ONE STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
25 Aug 2021	23.76	24.00	30	1360	7.8	512	185	305	30	1115	8.1	112	28	47	410	0.00	ONE STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
26 Aug 2021	24.26	24.00	30	1330	7.8	460	180	292	30	1090	7.9	104	27	42	330	0.00	ONE STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
27 Aug 2021	23.93	24.00	30	1290	7.6	440	172	305	30	1105	8.1	102	29	44	390	0.00	ONE STREAM IS UNDER OPERATION
28 Aug 2021	23.43	24.00	30	1305	7.5	480	170	320	30	1130	8.0	106	27	46	350	0.00	ONE STREAM IS UNDER OPERATION
29 Aug 2021	24.26	24.00	30	1289	7.6	408	182	275	30	1090	7.9	98	28	41	310	2.50	ONE STREAM IS UNDER OPERATION
30 Aug 2021	23.76	24.00	30	1260	7.5	428	170	316	30	1120	8.1	110	27	48	360	0.00	ONE STREAM IS UNDER OPERATION
31 Aug 2021	24.17	24.00	30	1295	7.7	464	188	330	30	1125	7.9	112	29	45	430	0.00	ONE STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
TOTAL	736.48																
AVG	23.76	24.00	28.29	1,329.97	7.59	443.68	171.19	304.42	28.29	1,067.71	7.98	103.61	26.97	42.90	372.90	18.25 Hrs	

Note : Their is ingress of Industrial Waste water [coloured] at STP from Sanigawan area, which was experienced on dates of 3,5,6,13,14,17,18,19,23,24,25,26,28,31 August. 2021.

Annexure 4: Site Inspection Report for the Month of August. 2021 (Sajari)







SITE INSPECTION REPORT				SAJARI STP - 42 MLD	Date: 18/08/2021	INSPECTED BY: Pankaj Rawat		
S. No.	Equipment	Assessment of Current Condition	Assessment of Current Condition Photo	Corrective Action Suggested by STC	Corrective Action Completed by KRMPL	Original Date of Issue	Proposed Date to Resolve by KRMPL	Current Status of Compliance
A INLET CHAMBER								
1	Mech. Coarse screen (no.1)	Operated						Completed
2	Mech. Coarse screen (no.2)	Operated						Completed
3	Inlet Flow meter	Under-maintenance		Flow meter wire need to be connected with relay in Mechanical Coarse Screen panel		31.07.2021		PENDING
4	Mech. Coarse Screen Panel	Auto System of Mech Coarse Screen -1 & 2 Panel are Under -Maintenance		Auto system of mechanical coarse screen wire need to be connected with flow meter for proper auto system working		31.07.2021		PENDING
B RAW SEWAGE PUMPING STATION								
1	Raw Sewage Pump-01	Operated		Discharge line pressure gauge needs to be replaced		31.07.2021		PENDING
2	Raw Sewage Pump-02	Operated		Discharge line pressure gauge needs to be replaced		31.07.2021		PENDING
3	Raw Sewage Pump-03	Operated		Discharge line pressure gauge needs to be replaced		31.07.2021		PENDING

4	Raw Sewage Pump-04	Non-Operational		It is to be immediately rectified. Discharge line pressure gauge needs to be replaced.	27.07.2021	30.08.2021	PENDING
5	Raw Sewage Pump-05	Operated		Discharge line pressure gauge needs to be replaced	31.07.2021		PENDING
6	Raw Sewage Pump-04 Starter	pump no-4 starter is Under maintenance		Need to be replace immediately	31.07.2021		PENDING
7	Raw Sewage Pump Starter	Raw Sewage pump starter Cable dressing are not done		Need to be dressing of cable starter properly	31.07.2021		PENDING
8	Raw Sewage Pump Starter-2	Operated					Completed
C PRIMARY UNIT							
1	Fine screen (No. 1 Mech)	Operated					Completed
2	Fine screen (No. 2 Mech)	Operated		Pressure gauge need to be replace.	31.07.2021		PENDING
3	Manual screen (1 Manual)	Operated		Clean the Manual screens.	31.07.2021		PENDING



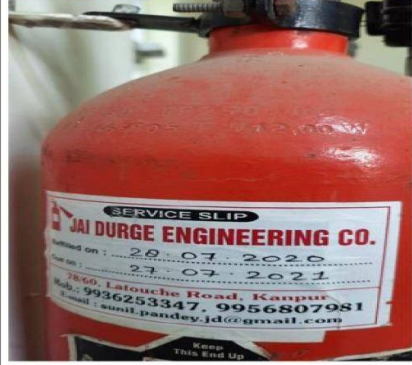
4	<p>Grit chamber-1</p> <p>1)Organic pump withMotor</p> <p>2)scraper</p> <p>3)Classifier Mechanism</p>	Operated		Painting needs to be done to equipment / covers whenever rusting		31.07.2021		PENDING
5	<p>Grit chamber-2</p> <p>1)Motor</p> <p>2)scraper/Classifier</p> <p>3)Rack Classifier Mechanism</p>	Operated		Painting needs to be done		31.07.2021		PENDING
6	PST-1	Not Operated		Vibration check on regular basis.And Lubrication require for PST-1.				PENDING
7	PST-2	Operated		Vibration check on regular basis.And Lubrication require for PST-2.				PENDING
8	Fine screen	Auto System of Fine Screen-1 & 2 panel are not working		Need to be repair the auto system of Fine Screen-1 & 2 panel		31.07.2021		PENDING
9	Fine screen	Fine Screen Cable Tray has been found in Rusted condition		Need to be painted the rusted cable tray		31.07.2021		PENDING
10	Grit Mech.	Grit Mech Remote Panel on bush button not working		Need to repair the on bush button of Grit Mech.				PENDING
	PST-1 & PST-2	PST-1 & PST-2 Cable tray has been found rusted condition		Need to be painted the rusted cable tray		31.07.2021		Pending
D	REACTION TANK							

1	Aerator no 1	Operated		Vibration check on regular basis. And lubrication require for each aerator.				PENDING
2	Aerator no 2	Operated		Vibration check on regular basis. And lubrication require for each aerator.				
	Aerator no 2	Aerator no 2, Cable Dressing are not done.		Need to be dressing of cable for Aerator no.2 properly		31.07.2021		Pending
3	Aerator no 3	Operated		Vibration check on regular basis. And lubrication require for each aerator.		31.07.2021		
4	Aerator no 4	Operated		Vibration check on regular basis. And lubrication require for each aerator.		31.07.2021		
5	Aerator no 5	Operated		Vibration check on regular basis. And lubrication require for each aerator.		31.07.2021		
6	Aerator no 6	Operated		Vibration check on regular basis. And lubrication require for each aerator.		31.07.2021		
7	Aerator no 7	Not Operated		Vibration check on regular basis. And lubrication require for each aerator. Only one stream is in working as per instructed by UPIN/STC.		31.07.2021		
8	Aerator no 8	Operated		Vibration check on regular basis. And lubrication required for each aerator.		31.07.2021		
9	Aerator no 9	Operated		Vibration check on regular basis. And lubrication required for each aerator.		31.07.2021		
10	Aerator no 10	Not Operated		Vibration check on regular basis. And lubrication required for each aerator. Only one stream is in working as per instructed by UPIN/STC.		31.07.2021		
11	Aerator no 11	Not Operated		Vibration check on regular basis. And lubrication required for each aerator. Only one stream is in working as per instructed by UPIN/STC.		31.07.2021		
12	Aerator no 12	Operated		Vibration check on regular basis. And lubrication required for each aerator.		31.07.2021		
E	SECONDARY CLARIFIER AREA							

1	SST 1	Operated		Handrails need to be provide		21.04.2021			PENDING
2	SST 2	Operated							
3	SST 2	Operated		Need dressing of cable		31.07.2021			PENDING
3	Return sludge pump 1	Non-Operational		It is require immediately rectify. Discharge line pressure gauge needs to be replaced		01.02.2021			PENDING
4	Return sludge pump 2	Non-Operational		Need to immediately rectify		01.02.2021			PENDING
5	Return sludge pump 3	Operated		Need dressing of cable		31.07.2021			PENDING
F CHLORINATION AREA									
1	Chlorine Tonners(Total Qty -06 Nos)	Operated		(1) 03 nos chlorine tonners are missing. (2) during inspection 2 nos chlorine tonners are connected and (1) no. is empty.		31.07.2021			
2	Chlorination Leakage detection device	Non-Operational		Need to be provided the proper supply to Chlorination Leakage detection device		31.07.2021			PENDING

3	Safety shower	Operated						
6	Sludge system							
1	Sludge thickeners 1	Operated		Sludge Thickener is filled with sludge and influent is properly not treated by Sludge Thickener. Sludge withdrawal not properly.		03.03.2021		PENDING
2	Sludge thickeners 2	Operated						
3	Thickened sludge pump	Operated						
4	Thickened sludge pump	Operated						
5	Sludge digester-01	Operated						
6	Sludge digester-02	Not Operated		It is require immediately rectify		01.06.2020		PENDING

7	Gas engine -1	Not Operated		Please provide the battery backup	18.08.2020	PENDING
8	Gas engine -2	Operated				
9	Gas engine -3	Operated		Please provide the battery backup . Panel of Ammeter and voltmeter are not in working condition	01.06.2020	
10	Gas Scrubbers	Operated				
11	Ro gas compressor -1	Operated				
12	Sludge drying bed 1	Filled with sludge		It is require dispose the sludge on regular basis	31.07.2021	
13	Sludge drying bed 2	Filled with sludge		It is require dispose the sludge on regular basis	31.07.2021	
14	Sludge drying bed 3	Filled with sludge		It is require dispose the sludge on regular basis	31.07.2021	
15	Sludge drying bed 4	Filled with sludge		It is require dispose the sludge on regular basis	31.07.2021	
16	Sludge drying bed 5	Filled with sludge		It is require dispose the sludge on regular basis	31.07.2021	
17	Sludge drying bed 6	Filled with sludge		It is require dispose the sludge on regular basis	31.07.2021	
18	Sludge drying bed 7	Filled with sludge		It is require dispose the sludge on regular basis	31.07.2021	
19	Sludge drying bed 8	Filled with sludge		It is require dispose the sludge on regular basis	31.07.2021	
20	Sludge drying bed 9	Filled with sludge		It is require dispose the sludge on regular basis	31.07.2021	
21	Sludge drying bed 10	Filled with sludge		It is require dispose the sludge on regular basis	31.07.2021	
22	Sludge drying bed 11	Filled with sludge		It is require dispose the sludge on regular basis	31.07.2021	
23	Sludge drying bed 12	Filled with sludge		It is require dispose the sludge on regular basis	31.07.2021	
24	Sludge drying bed 13	Filled with sludge		It is require dispose the sludge on regular basis	31.07.2021	
25	Sludge drying bed 14	Filled with sludge		It is require dispose the sludge on regular basis	31.07.2021	
26	Sludge drying bed 15	Filled with sludge		It is require dispose the sludge on regular basis	31.07.2021	
27	Sludge drying bed 16	Filled with sludge		It is require dispose the sludge on regular basis	31.07.2021	
28	Sludge drying bed 17	Filled with sludge		It is require dispose the sludge on regular basis	31.07.2021	
29	Sludge drying bed 18	Filled with sludge		It is require dispose the sludge on regular basis	31.07.2021	
30	Tubewell pump-1	Operated				
31	Dilution water submersible pump	Operated				
63	Dilution water submersible pump-2	Operated				

64	Treated effluent outlet channel		Suspended solids carryover at the outlet of CCT.		31.07.2021		PENDING
Remarks:							
Civil Observations							
1	Campus wall painting need to be done				31.07.2021		PENDING
2	Outlet Channel planting need to be done.				31.07.2021		PENDING
3	Return Sludge pump house valve support need to be repaired.				31.07.2021		PENDING
4	PST-2, RCC of repair works need to be done.				31.07.2021		PENDING
5	House Keeping -cutting of grass for inside the campus.				31.07.2021		PENDING
6	Boundary wall to be painted				31.07.2021		PENDING
ESHS Observations							
1	SST 1	Handrails missing at the walkway 	Handrails need to be provide.		31.07.2021		PENDING
2	Fire Extinguisher refill past the due date		Fire extinguisher to be refilled.		31.07.2021		PENDING
Schedule Maintenance	Not Operated		<ul style="list-style-type: none"> KMP, has taken closer of one stream since 22.06.2021 to complete schedule Maintenance works of year-1 & 2 but no Schedule Maintenance works have being started yet. No Labour force available at site for schedule maintenance works 		18.08.2021		PENDING

Annexure 5: Test Result of Joint Sampling Report of Influent & Treated Effluent (Sajari)

SPECTRO[®]
Research Lab Ventures (P) Ltd.
CIN:U73200DL2006PTC365036

Format No SRL/TRF/GEN
Issue No 01, Issue Date 01.04.2017
Page 1 of 2

TEST REPORT

Test Report Issued To:

KANPUR RIVER MANAGEMENT PRIVATE LIMITED (SAJARI)
SHAPOORJI PALLONJI & CO. PVT. LTD., NEAR KDA COLONY,
SAJARI GAON, ALANKANDA ENCLAVE,
KANPUR, UTTAR PRADESH - 208008,
INDIA

Test Report No: K210807022/K210807022-11
Date of Issue: 18-Aug-2021

Sample Booking/Receipt Date: 07-Aug-2021
Date of Start of Testing: 09-Aug-2021
Date of Completion of Test: 14-Aug-2021

Customer Relationship Number: 65304

Sample Description: SAJARI- RAW SEWAGE



Customer Reference No: KRMP/20-21/SPECTRO/JULY-21-SAMPLE-2, DATED 30.07.2021

Kind Attention: MR. SHRIRAM SASTE
E-Mail: amit.bharambe@shapoorji.com, ramule28@ Contact No: 9833373179

Sample Condition: Good
Sample Quantity (Approx): 1
Sample Size (Approx): . . .

SAMPLE NOT DRAWN BY OUR LABORATORY. THE RESULTS RELATE ONLY TO THE ITEMS TESTED

ULR-TC784521000007526F
Authenticity of report can be verified by mail at verification@spectrolab.in
This is a Digitally Signed Report and hence doesn't require Physical Signature.

Spectro Research Lab Ventures (P) Ltd, G-3, Bajrang Ball Industrial Area, Near Panki Site-IV, Kanpur-208020(India)
Phone :+91-9235503984/85 || Web: www.spectroresearchlabs.com|| Email: knp@spectro.in
ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Laboratory
Please refer to our Website <http://www.spectro.in/spectro-policies.html> for Terms & Condition

Report Issued By
Digitally signed by SANJEET KUMAR MISHRA
Date: 2021.08.18
13:47:59 +05:30

ID- K210807022-1

Discipline: Chemical
Group : Pollution & Environment

Sl. No.	Test Parameter	Observed Value	Test Method
1.	Total Suspended Solids, mg/l	312	IS:3025(P-15)-1984 (RA-2019)
2.	C.O.D, mg/l	396.04	IS:3025(P-5B)-2006 (RA-2017)
3.	B.O.D (5 days) at 20°C, mg/l	157.90	APHA 5210-B (23rd Edition): 2017

*****End of report*****

[Handwritten Signature]
Analyst Signature



– End of Test Report –

ULR-TC784521000007526F



Authorised Signatory

Spectro Research Lab Ventures (P) Ltd, G-3, Bajrang Bali Industrial Area, Near Panki Site-IV, Kanpur-208020(India)
Phone +91-9235503984/85 || Web: www.spectroresearchlabs.com|| Email: knp@spectro.in
ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Laboratory



CIN:U73200DL2006PTC355036

Format No: SRL/TRF/GEN
Issue No 01, Issue Date 01-04-2017
Page 1 of 2

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SHAPOORJI PALLONJI & CO. PVT. LTD., NEAR KDA COLONY,
SAJARI GAON, ALANKNANDA ENCLAVE,
KANPUR, UTTAR PRADESH - 208008,
INDIA

Test Report No: **K210807022/K210807022-31**

Date of Issue: **18-Aug-2021**



Sample Booking/Receipt Date: **07-Aug-2021**

Date of Start of Testing: **09-Aug-2021**

Date of Completion of Test: **14-Aug-2021**

Customer Relationship Number **65304**

Sample Description :

SAJARI- TREATED SEWAGE



Customer Reference No

KRMPL/20-21/SPECTRO/JULY-21-SAMPLE-2, DATED 30.07.2021

Kind Attention **MR. SHRIRAM SASTE**

E-Mail: **amit.bharambe@shapoorji.com, ramuiet28@** Contact No: **9833373179**

Sample Condition : **Good**

Sample Quantity (Approx) : **1**

Sample Size (Approx) : **-**

SAMPLE NOT DRAWN BY OUR LABORATORY. THE RESULTS RELATE ONLY TO THE ITEMS TESTED



ULR-TC784521000007527F

Authenticity of report can be verified by mail at verification@spectrolab.in

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Spectro Research Lab Ventures (P) Ltd, G-3, Bajrang Ball Industrial Area, Near Panki Site-IV, Kanpur-208020(India)

Phone :+91-9235503984/85 || Web: www.spectroresearchlabs.com|| Email: knps@spectro.in

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ID- K210807022-3

Discipline: Chemical
Group : Pollution & Environment

Sl. No.	Test Parameter	Observed Value	Test Method
1.	Total Suspended Solids, mg/l	44	IS:3025(P-15)-1984 (RA-2019)
2.	C.O.D, mg/l	99.75	IS:3025(P-58)-2006 (RA-2017)
3.	B.O.D (5 days) at 20°C, mg/l	26.58	APHA 5210-B (23rd Edition): 2017

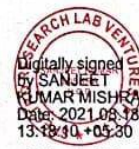
*****End of report*****

[Signature]
Analyst Signature



– End of Test Report –

ULR-TC784521000007527F










Authorised Signatory






Spectro Research Lab Ventures (P) Ltd, G-3, Bajrang Bali Industrial Area, Near Panki Site-IV, Kanpur-208020 (India)
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Annexure 6: Monthly Performance Report of Bingawan for August 2021

210 MLD SEWAGE TREATMENT PLANT, BINGAWAN, KANPUR																	
MONTHLY FLOW & LAB REPORT																	
Date	INLET FLOW in MLD	Plant Run in HRS	RAW SEWAGE						FINAL OUTLET						MONTH		REMARK
			Temp	TDS	PH (7-8)	COD (520mg/l)	BOD (322mg/l)	TSS (418mg/l)	Temp	TDS	PH (7-8)	COD (<100mg/l)	BOD (<30mg/l)	TSS (<50mg/l)	Sludge Concentration %	POWER SHUTDOWN HRS	
			°c	ppm	ppm	ppm	ppm	ppm	°c	ppm	ppm	ppm	ppm	ppm			
1-Aug-21	136.43	24.0	30	990	7.1	624	170	520	30	980	7.3	128	40	51	32.5	0.00	
2-Aug-21	137.47	24.0	30	970	7.1	640	180	550	30	950	7.4	144	42	57	32.65	0.00	
3-Aug-21	147.89	24.0	31	950	7.1	608	165	530	30	930	7.4	136	41	54	34.1	0.00	
4-Aug-21	124.98	24.0	30	980	7.1	616	170	535	30	960	7.3	144	43	51	34.72	0.00	
5-Aug-21	131.22	24.0	30	960	7.2	632	175	540	29	940	7.5	160	44	50	33.05	0.00	
6-Aug-21	138.33	24.0	30	990	7.1	560	165	510	29	980	7.4	144	41	48	33.57	0.00	
7-Aug-21	118.04	24.0	29	940	7.1	608	170	530	29	920	7.3	152	43	53	34.23	0.75	33kv Side Fault from KesCO Side
8-Aug-21	128.79	24.0	29	980	7.1	616	175	560	29	960	7.3	168	45	57	35.21	7.92	33kv Side Fault from KesCO Side
9-Aug-21	140.94	24.0	30	970	7.1	600	160	540	29	940	7.3	144	41	54	34.59	0.00	
10-Aug-21	64.57	24.0	30	990	7.1	632	180	525	30	970	7.4	152	43	51	36.41	16.17	
11-Aug-21	100.67	24.0	30	1120	7.1	624	170	535	30	1100	7.3	128	40	58	35.62	0.00	33kv Side Fault from KesCO Side
12-Aug-21	99.98	24.0	30	1020	7.1	640	185	540	29	990	7.3	160	42	54	36.45	0.00	33kv Side Fault from KesCO Side
13-Aug-21	99.98	24.0	29	990	7.2	616	165	530	29	980	7.4	144	40	48	35.57	0.00	33kv Side Fault from KesCO Side
14-Aug-21	101.02	24.0	29	960	7.1	608	160	550	29	950	7.3	136	41	57	35.29	0.00	
15-Aug-21	125.67	24.0	30	980	7.1	600	165	520	30	960	7.3	128	39	51	36.89	0.00	
16-Aug-21	142.50	24.0	30	970	7.2	592	162	535	29	940	7.4	136	40	54	36.29	0.00	
17-Aug-21	136.43	24.0	31	950	7.2	608	170	520	31	920	7.5	132	41	51	35.89	0.00	
18-Aug-21	135.22	24.0	31	1000	7.1	632	185	570	31	980	7.4	144	43	60	35.17	0.00	
19-Aug-21	137.50	24.0	31	990	7.1	600	165	550	30	960	7.3	136	40	57	35.25	0.00	
20-Aug-21	154.14	24.0	30	970	7.1	604	160	580	29	950	7.4	140	42	59	35.78	0.00	33kv Side Fault from KesCO Side
21-Aug-21	150.33	24.0	31	980	7.2	620	170	560	30	970	7.3	148	45	56	34.92	0.00	
22-Aug-21	149.97	24.0	31	950	7.2	608	165	575	29	920	7.3	136	43	57	36.12	0.00	
23-Aug-21	143.56	24.0	30	975	7.1	584	160	540	29	960	7.3	144	44	54	35.92	0.00	
24-Aug-21	131.92	24.0	30	980	7.1	576	160	520	30	970	7.3	140	42	50	34.65	0.00	
25-Aug-21	128.46	24.0	31	960	7.1	580	165	535	29	940	7.3	152	45	52	35.8	0.00	
26-Aug-21	131.23	24.0	31	990	7.2	568	158	540	30	970	7.4	136	43	49	35.29	0.00	
27-Aug-21	142.68	24.0	31	980	7.2	560	160	530	31	950	7.3	128	40	47	36.09	0.00	
28-Aug-21	139.21	24.0	30	960	7.1	576	162	525	29	930	7.3	144	42	48	36.54	0.00	
29-Aug-21	128.27	24.0	30	970	7.1	584	165	550	30	960	7.3	136	41	51	35.78	0.00	
30-Aug-21	140.60	24.0	30	950	7.1	568	160	530	29	940	7.3	128	40	53	35.57	0.00	
31-Aug-21	133.14	24.0	31	980	7.1	552	155	540	30	970	7.4	132	42	54	35.39	0.00	
TOTAL	4021.14																
AVG	129.71	24.00	30.2	978.9	7.1	601.2	167.0	539.2	29.6	959.4	7.3	141.29	41.87	53.10	35.3	40Hr.50Min	









Annexure 7: Site Inspection Reports for the Month of August-2021 (Bingawan)

SITE INSPECTION REPORT FOR 210 MLD STP BINGAWAN					BINGAWAN STP - 210 MLD		Date: 18/08/2021 25.08.2021 & 26/08/2021 & 31.08.2021	INSPECTED BY: STC Team
S. No.	Equipment	Assessment of Current Condition	Assessment of Current Condition photo	Corrective Action Required	Corrective Action Completed by KRMPL	Original Date of Issue	Proposed Date to Resolve by KRMPL	Current Status of Compliance
1	Mechanical Coarse screen (No.01)	Not Operated.		Need to be Repair		28-01-2020	30.08.2021 (as per plant incharge)	PENDING
2	Mechanical Coarse screen (No.02)	Not Operated		Need to be Repair		03-02-2021	05.09.2021(as per Plant incharge)	PENDING
3	Manual bar Screen no.01	Not operated		Repair		15.06.2021	Not submitted yet	PENDING
4	Manual bar Screen no.02	Operated						
5	Main Pump House Sump	Filled With disposal material.		This situation is coming due to non operational of the Mechanical coarse screens at inlet. We have request to KRMPL taken action immidately		18.08.2021		PENDING
6	Butterfly Valve chamber (Civil work)	Not completed till on date		During NIMCO Visit, KRMPL has been promised is to be completed on 20.08.2021. But still not completed as per attched photograph.		01.04.2021	20.08.2021	PENDING
7	Pump no.1	Operated						No any action Required.
8	Pump no.2	Operated						No any action Required.
9	Pump no.3	Operated				28-04-2021		PENDING
10	Pump no.4	Not Operated		Need to be Repair		06.05.2021		PENDING
11	Pump no.5	Operated						
12	Pump no.6	Operated						
13	Pump no.7	Operated						
14	Pump no.8	Not Operated		Need to be Repair		28.07.2021		PENDING

19	Pump no.9	Not Operated		Need to be Repair	-	25.08.2021		PENDING
20	Pump no.10	Operated						
21	Pump no.11	Operated						
22	Pump no.12	Operated						
23	Mechanical bar screen no.01	Operated						
24	Mechanical bar screen no.02	Not Operated		Need to be Repair		03-02-2021		PENDING
25	Mechanical bar screen no.03	Operated						No any action Required
26	Conveyor belt	Operated		KRMPL is not cleaning properly				No any action Required
27	Grit removal mechanism-Detritor no.01 Main drive, Classifier drive, Organic pump	Operated		Trolley need to be provided for collection of Grit from chutes every time as directed by NWCJ team and PE also. This point till date not complied by KRMPL. FCC need to be provided as required for this area.		25.08.2021		PENDING
28	Grit removal mechanism-Detritor no.02 Main drive, Classifier drive, Organic pump	Operated		Trolley need to be provided for collection of Grit from chutes every time as directed by NWCJ team and PE also. This point till date not complied by KRMPL. FCC need to be provided as required for this area.		25.08.2021		No any action Required
29	Grit removal mechanism-Detritor no.03 Main drive, Classifier drive, Organic pump	Operated					Not submittal yet	No any action Required
30	Grit removal mechanism-Detritor no.04 Main drive, Classifier drive, Organic pump	Operated						No any action Required
31	UASB Reactor- no.1	Cleaned and filled but sludge blanket not formed		Reactivation of the UASB reactors required		23-01-2021	-	Completed
32	UASB Reactor- no.2	Cleaned and filled but sludge blanket not formed		Need to be Reactivation of the UASB reactors required	-	21-04-2021	-	Completed

30	UASB Reactor-no.3	Cleaned and filled		Need to be Reactivation of the UASB reactor	20-08-2020	End of Dec. 2020	Completed
30	UASB Reactor-no.4	Cleaned and filled but sludge blanket not formed		Reactivation of the UASB reactors required.	23-01-2021		Completed
31	UASB Reactor-no.5	Under Maintenance	 	Inspection conducted on 26.08.2021 & re inspection conducted on 31.08.2021 we have clear reactor no.05 for charge of raw sewage. Need to replace the All ball valves	15-09-2021	15-09-2021	Submitted by KRMPIL
32	UASB Reactor-no.6	Under Maintenance		1. NMCG has directed KRMPIL to deploy more team for cleaning of UASB reactors to complete the process with in 3 to 4 week. for each reactor.	28-01-2021	9/15/2021	PENDING
33	UASB Reactor-no.7	Operated but filled with sludge		1. NMCG has directed KRMPIL to deploy more team for cleaning of UASB reactors to complete the process with in 3 to 4 week. for each reactor.	28.01.2020		PENDING
34	UASB Reactor-no.8	Cleaned and filled but sludge blanket not formed		Need to be Reactivation of the UASB reactor	23-01-2021		Completed
35	UASB Reactor-no.9	Under Maintenance		1. NMCG has directed KRMPIL to deploy more team for cleaning of UASB reactors to complete the process with in 3 to 4 week. for each reactor.	28.01.2020		PENDING
36	UASB Reactor-no.10	Operated but filled with sludge		1. NMCG has directed KRMPIL to deploy more team for cleaning of UASB reactors to complete the process with in 3 to 4 week. for each reactor.	28.01.2020		PENDING
37	UASB Reactor-no.11	Under Maintenance		1. NMCG has directed KRMPIL to deploy more team for cleaning of UASB reactors to complete the process with in 3 to 4 week. for each reactor.	28.01.2020		PENDING
38	UASB Reactor-no.12	Under Maintenance		1. NMCG has directed KRMPIL to deploy more team for cleaning of UASB reactors to complete the process with in 3 to 4 week. for each reactor.	28.01.2020		PENDING


39	UASB Reactor-no.13	Operated but filled with sludge		1. NMCG has directed KRMPL to deploy more team for cleaning of UASB reactors to complete the process with in 3 to 4 week. for each reactor.	28.01.2020			PENDING
40	UASB Reactor-no.14	Operated but filled with sludge		1. NMCG has directed KRMPL to deploy more team for cleaning of UASB reactors to complete the process with in 3 to 4 week. for each reactor.	28.01.2020			PENDING
41	UASB Reactor-no.15	Operated but filled with sludge		1. NMCG has directed KRMPL to deploy more team for cleaning of UASB reactors to complete the process with in 3 to 4 week. for each reactor.	28.01.2020			PENDING
42	UASB Reactor-no.16	Operated but filled with sludge		1. NMCG has directed KRMPL to deploy more team for cleaning of UASB reactors to complete the process with in 3 to 4 week. for each reactor.	28.01.2020			PENDING
43	Aeration Compartment- 02	Under Maintenance		Need to be cleaning as per schedule maintenance work.	18.08.2021			PENDING
44	Aerator no.01	Operated						No any action Required
45	Aerator no.02	Not operated		Need to be repair	31.05.2021			PENDING
46	Aerator no.03	Operated						No any action Required
47	Aerator no.04	Operated						No any action Required
48	Aerator no.05	Operated						No any action Required
49	Aerator no.06	Operated						No any action Required
50	Aerator no. 07	Not operated		Need to be repair				PENDING
51	Aerator no. 08	Operated						
52	Aerator no. 09	Operated						
53	Aerator no. 10	Operated						
54	Aerator no. 11	Operated						
55	Aerator no. 12	Operated						
56	Aerator no. 13	Operated						
57	Aerator no. 14	Operated						
58	Aerator no. 15	Operated						
59	Aerator no. 16	Operated						
60	Aerator no. 17	Operated						
61	Aerator no. 18	Not operated		Need to be repair				PENDING
Belt Filter Press Unit								
62	Poly dosing pump No.1	Operated						

63	Poly dosing pump No.2	Operated							
64	Poly dosing pump No.3	Not Operated		Need to be repaired		07.10.2021		PENDING	
65	Service water pump No.1 (For BFP)	Operated							
66	Service water pump No.2 (For BFP)	Not Operated		Need to be repaired				PENDING	
67	Belt filter Press No.1	Operated		Need to be required lubrication on daily basis					
68	Belt filter Press No.2	Operated		Need to be required lubrication on daily basis					
69	Belt filter Press No.3	Operated		Need to be required lubrication on daily basis					
Chlorination Area									
70	Booster Pump No.1	Not operated		Need to be repair/replace				PENDING	
71	Booster Pump No.2	Operated		Heavy leakage found at site. Therefore Change the Ball valve and replaced the flange immediately				PENDING	
72	Chlorine Tonners (Total 20 Nos)	Operated		1. 17 nos tonners available at site .03 nos are missing after handover. 2.Only 2 nos chlorine tonner are connected for discharge chlorine line. As per design capacity 5 PPM dosing and for 150 MLD flow 650 Kg chlorine to be consumed per day. 3. Kindly arrange chlorine stock for one week. But KRMPL has not been taken any action.				PENDING	
73	Gas Holder No.01	Operated		1 Gas level indicator is missing. 2. Pressure gauge shall be install				PENDING	

14	Gas Holder No.02	Operated		1 Gas level indicator is missing. 2. Pressure gauge shall be install				PENDING
15	Gas scrubber Unit	Not operated		1. Need to be repair/replace		28.01.2020		PENDING
16				House keeping in the plant has found very bad.		08.07.2021		PENDING
17	House Keeping			House keeping in the plant has found very bad.		08.07.2021		PENDING
18	Leakage at Civil Unit	leakage		Need to be repair		28.01.2020		PENDING

Note1. As NMCG has directed KRMPPL to deploy more team for cleaning of UASB reactors to complete the process with in 3 to 4 week. for each reactor BUT KRMPPL has not been done any one reactor cleaning between July to August 2021
 Note2. pump no.1,2,3,5,10 & 11 all 06 nos pumps are tripping within 01 minute on 25.08.2021

Annexure 8: Test Result of Joint Sampling Report of Influent & Treated Effluent (Bingawan)



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Research Lab Ventures (P) Ltd.

CIN:U73200DL2006PTC355036

Format No: SRL/TRF/GEN
Issue No 01, Issue Date 01-04-2017
Page 1 of 2


TEST REPORT

Test Report Issued To:

KANPUR RIVER MANAGEMENT PRIVATE LIMITED (BINGAWAN)
SHAPOORJI PALLONJI & CO. PVT. LTD., BINGAWAN,
BEHIND MAHARSHI VIDYA MANDIR, HAMIRPUR ROAD,
KANPUR, UTTAR PRADESH - 208001,
INDIA

Test Report No: **K210807020/K210807020-11**

Date of Issue: **18-Aug-2021**




Sample Booking/Receipt Date: **07-Aug-2021**
Date of Start of Testing: **09-Aug-2021**
Date of Completion of Test: **14-Aug-2021**

Customer Relationship Number: **65302**

Sample Description :

BINGAWAN- RAW SEWAGE



Customer Reference No

KRMPL20-21/SPECTRO/JULY-21/BINGAWAN SAMPLE-2, DATED 30.07.2021

Kind Attention: **MR. SHRIRAM SASTE**


E-Mail: **AMIT.BHARAMBE@shapoorji.com, shriram**

Contact No: **9833373179**

Sample Condition : **Good**

Sample Quantity (Approx) : **1** Sample Size (Approx) : ***-***

SAMPLE NOT DRAWN BY OUR LABORATORY. THE RESULTS RELATE ONLY TO THE ITEMS TESTED *



ULR-TC784521000007524F

Authenticity of report can be verified by mail at verification@spectrolab.in

This is a Digitally Signed Report and hence doesn't require Physical Signature.

Spectro Research Lab Ventures (P) Ltd, G-3, Bajrang Bali Industrial Area, Near Panki Site-IV, Kanpur-208020(India)
 Phone :+91-9235503984/85 || Web: www.spectroresearchlabs.com || Email: knpr@spectro.in
 ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Laboratory
 Please refer to our Website <http://www.spectro.in/spectro-policies.html> for Terms & Condition

ID- K210807020-1

Discipline: Chemical
Group: Pollution & Environment

Sl. No.	Test Parameter	Observed Value	Test Method
1.	Total Suspended Solids, mg/l	608	IS:3025(P-15)-1984 (RA-2019)
2.	C.O.D, mg/l	633.66	IS:3025(P-58)-2006 (RA-2017)
3.	B.O.D (5 days) at 20°C, mg/l	212.77	APHA 5210-B (23rd Edition): 2017

*****End of report*****

[Signature]
Analyst Signature



– End of Test Report –

ULR-TC784521000007524F



Authorised Signatory

Spectro Research Lab Ventures (P) Ltd, G-3, Bajrang Bali Industrial Area, Near Panki Site-IV, Kanpur-208020(India)
Phone :+91-9235503984/85 || Web: www.spectroresearchlabs.com|| Email: knp@spectro.in
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CIN:U73200DL2006PTC355036

Format No.SRL/TRF/GEN
Issue No 01, Issue Date 01-04-2017
Page 1 of 2

TEST REPORT

Test Report Issued To:

KANPUR RIVER MANAGEMENT PRIVATE LIMITED (BINGAWAN)
SHAPOORJI PALLONJI & CO. PVT. LTD., BINGAWAN,
BEHIND MAHARSHI VIDYA MANDIR, HAMIRPUR ROAD,
KANPUR, UTTAR PRADESH - 208001,
INDIA

Test Report No: K210807020/K210807020-31

Date of Issue: 18-Aug-2021



Sample Booking/Receipt Date: 07-Aug-2021
Date of Start of Testing: 09-Aug-2021
Date of Completion of Test: 14-Aug-2021

Customer Relationship Number 65302

Sample Description :
BINGAWAN- TREATED SEWAGE



Customer Reference No

KRMPL/20-21/SPECTRO/JULY-21/BINGAWAN SAMPLE-2, DATED 30.07.2021

Kind Attention MR. SHRIRAM SASTE
E-Mail: AMIT.BHARAMBE@shapoorji.com, shriram Contact No: 9833373179

Sample Condition : Good
Sample Quantity (Approx) : 1 Sample Size (Approx) : *-*

SAMPLE NOT DRAWN BY OUR LABORATORY. THE RESULTS RELATE ONLY TO THE ITEMS TESTED



Report Issued By

ULR-TC78452100007525F

Authenticity of report can be verified by mail at verification@spectrolab.in

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TEST REPORT

Format No: SFL/TRF/GEN
Issue No: 01, Issue Date: 01.04.17

Page 2 of 2

Report No. K210807020/K210807020-31

CIN:U73200DL2006PTC355036

ID- K210807020-3

Discipline: Chemical
Group : Pollution & Environment

Sl. No.	Test Parameter	Observed Value	Test Method
1.	Total Suspended Solids, mg/l	68	IS:3025(P-15)-1984 (RA-2019)
2.	C.O.D, mg/l	157.94	IS:3025(P-58)-2006 (RA-2017)
3.	B.O.D (5 days) at 20°C, mg/l	52.63	APHA 5210-B (23rd Edition): 2017

*****End of report*****


Analyst Signature



– End of Test Report –

ULR-TC784521000007525F



Authorised Signatory

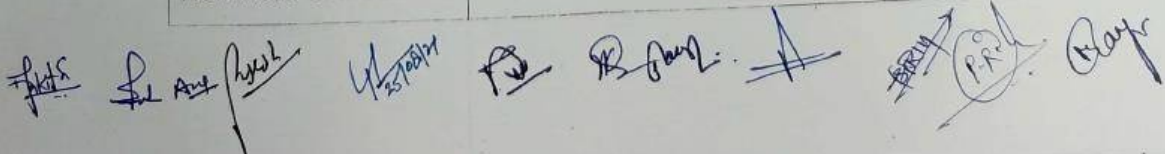
Spectro Research Lab Ventures (P) Ltd, G-3, Bajrang Bali Industrial Area, Near Panki Site-IV, Kanpur-208020(India)
Phone +91-9235503984/85 || Web: www.spectroresearchlabs.com || Email: knp@spectro.in
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Annexure 9: 43 MLD Jajmau Phase II STP facility Handover Note

HANDING OVER NOTE OF 43 MLD SEWAGE TREATMENT PLANT AT JAJMAU, KANPUR

1. Joint inspection with UPJN was carried out for 43 MLD STP, Jajmau and Sanjay Puram IPS (3.5 MLD Parmiya SPS) on 2/12/20 and that for Khalasi line chauraha (Sisamau Nala SPS near VIP Road Chauraha) was done on 1/1/21. KRMPL had submitted joint visit inspection report vide their letter no UPJN/KRMPL/Kanpur/2020-21/854 dated 11/1/21. UPJN responded with their observation vide their letter no 910/w-20/63 dated 6/5/21.
2. Trial run of 43 MLD STP Jajmau was carried out from 21/08/2021 at 10 a.m. to 24/08/2021 at 10 a.m. and samples collected jointly with UPJN were sent for analysis to NABL accredited LAB M/s. Spectro Research Lab Venture (P) Ltd.
3. Following important capital facilities as envisaged in the CA have not been provided in the Jajmau Phase II Facilities:
 - o RTOLMS covering the 43 MLD STP and IPSs at Sanjay Puram and Khalasi line Chowraha
 - o DG set at 43 MLD STP
 - o Power generation Facility from Biogas including gas holder
 - o Flow meter at the outlet of the plant
 - o Chlorine dosing facility
4. KRMPL has agreed to take over Jajmau Phase II Facilities for O&M with the following conditions:
 - i. Jajmau Phase II COD shall commence from the date of hand over of the Facility and KRMPL shall be paid O&M charges from the date of hand over as per O&M charges quoted in the tender. The same was agreed by UPJN and separate COD from date of hand over will be issued.
 - ii. Since many capital Facilities as indicated in item 3 are not provided in Jajmau Phase II Facilities, KRMPL shall not be responsible for complying to at least the following Articles of CA for the above 5 facilities indicated in item 3 up to the time these are completed:

Facility	Articles of CA that shall not be complied by KRMPL
RTOLMS	As per 8.8(b)(i)(B) record of sump level, schedule -11 Part D clause 1.6.9 S. No. 1 i.e. Analyzing the average of Real time values of respective online instrument/analyzer (Frequency-2 hours)
DG set at STP	8.12(a)(i) on STP availability
Power generation from Biogas	Item 3(a)Table-1, schedule-1 on power generation a must by concessionaire
Laboratory and Instruments*	Schedule-11 Part D clause 1.6.9 S. No. 1 i.e. on Real time values
Chlorine Dosing Facility*	Schedule 11, Part D, Clause 1.6.9 (for Fecal coliform treated effluent)
Flow meter at the outlet	As required by UPPCB and CPCB



*Shall be available with 130 MLD after completion of renovation of Jajmau Phase-I

- iv. To undertake remedial measures on deficiencies, ref item 1 above; KRMPL agrees to do so on reimbursement of actual expenses incurred plus 10% additional to cover overhead and supervision charges of KRMPL.
- 5. M/S KRMPL requested to reimbursement of power bills on actual basis without imposing penalty. U.P. Jal Nigam version that the matter shall be discussed and will be sent to NMCG for actual reimbursement while the penalty shall not be imposed till power generation system functional.

Handed Over By

Taken Over By

[Handwritten signatures]
A.P.E. (I/III /E&M) P.E. (I/III /E&M) P.M. (I/III /E&M)




Ganga Pollution Control Unit
U.P. Jal Nigam Kanpur





[Handwritten signatures]
(Shriram Saste/Manobendra Ray/Paresh Chutke)
Plant Incharge Project Manager O&M Head
Kanpur River Management Pvt. Ltd.





[Handwritten signature] 25/8/21
General Manager,
Ganga Pollution Control Unit
U.P. Jal Nigam, Kanpur



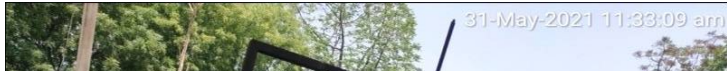
Annexure 10: 130 MLD Jajmau Phase I STP inspection report




(Attached Separately)




STC		SITE INSPECTION REPORT				Jajmau STP - 130 MLD	Date: 06/08/2021	INSPECTED BY: PE, UPJN
S. No.	Equipment	Assessment of Current Condition	Assessment of Current Condition Photo	Current defects and Corrective Action Suggested by STC, PE	Corrective Action Completed by	Original Date of Issue	Proposed Date to Resolve by KRMP L	Current Status of Compliance
A	Collection Chamber							
1	Inlet Chamber (Civil)	Operational / Needs to be renovated		<ol style="list-style-type: none"> 1. Railing and its foundation needs to be repaired 2. Reinforced exposed and need to be repaired 3. Finishing work of inlet chamber chamber 		01.03.2021		
2	Gates /Valves and Covering Shed	Need Overhauling / Replacement		Needs to be repaired and replaced as per site requirement . Shed as per under renovation to be replaced .		01.03.2021		
B	Fine Screen Chamber (Mechanical / Manual)							
3	Screen Chamber (Civil)	Need Renovation		<ol style="list-style-type: none"> 1. Civil structure need to be repair and strengthen. 2. Reinforced exposed and need to be repaired. 3. Chamber walls are cracked and need to be restored. 4. Overhauling / replacement of the gates. 5. Finishing works need to be done. 6. Proper Lighting need to be provided at Screen area. 7. CCTV cameras to be repaired imediately. 8. Level scale should be properly 				


STC				SITE INSPECTION REPORT		Jajmau STP - 130 MLD		Date: 06/08/2021	INSPECTED BY: PE, UPJN
S. No.	Equipment	Assessment of Current Condition	Assessment of Current Condition Photo	Current defects and Corrective Action Suggested by STC, PE	Corrective Action Completed by	Original Date of Issue	Proposed Date to Resolve by KRMP	Current Status of Compliance	
4	Screen no. 1	Operated		Mechanical screen to be provided in place of manual screen. Screen needs to be clean periodically depends on the sewage.					
5	Screen no. 2	Operated		Mechanical screen to be provided in place of manual screen. Screen needs to be clean periodically depends on the sewage.					
6	Screen no. 3	operated		Mechanical screen to be provided in place of manual screen. Screen needs to be clean periodically depends on the sewage.					
7	Screen no. 4	Screen missing		Manual Screen needs to be install immediately					




STC		SITE INSPECTION REPORT				Jajmau STP - 130 MLD	Date: 06/08/2021	INSPECTED BY: PE, UPJN
S. No.	Equipment	Assessment of Current Condition	Assessment of Current Condition Photo	Current defects and Corrective Action Suggested by STC, PE	Corrective Action Completed by	Original Date of Issue	Proposed Date to Resolve by KRMPL	Current Status of Compliance
C	Grit Chamber							
8	Grit Chamber (Civil)	Structre found in poor condition and needs to be repair.		Defects found and need to be rapired : 1. Leakages were found from the Grit chamber structure and need to be rectified. 2. Cracks were found that need to be repair. 3. Grit material need to be dispose regularly. 4. Need to strengthen the structure for better durability. 5. KRMPL Civil work has been started with only 02 works.				
9	Grit Mechanism-1	Operated		To be replace as per the scope of the work defined in CA. Cables should be laid properly in cable trays Automatic remote system in found missing and to be install. Hand railing is found totally rusted and need to be replace. All cable trays found rusted and need to be replaced. All gates need to be overhaul / replace as per site condition. Surplus / extra cables and other				
10	Grit Mechanism-2	Operated		To be replace as per the scope of the work defined in CA. Cables should be laid properly in cable trays Automatic remote system in found missing and to be install. Hand railing is found totally rusted and need to be replace. All cable trays found rusted and need to be replaced. All gates need to be overhaul / replace as per site condition.				
11	Grit Mechanism-3	Under Maintenance		Need to expidite the renovation work as it was under maintenance and not in working condition since March 2021. Cables should be laid properly in cable trays Automatic remote system in found missing and to be install. Hand railing is found totally rusted and need to be replace.				





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12	Grit Classifier -1	Not working		Need to be repaired / replace immediately.				
13	Grit Classifier -2	Not working		Not in working due to foundation damage. Need to be repair immediatly and to be replace as per the CA				
14	Grit Classifier -3	Not working / Under maintenance		Need to expidite the renovation work as it was under maintenance and not in working condition since				
15	Bar Screen Panle	working		Bar screen rotary switch ,voltmeter/ Ammeter and indicator need to be repalce immediatly				
D	Parshall flume and flow meter							
16	Parshall Flume and Flow Channel (Civil)	Structure found in poor condition		1. Channel need to be repair and finish properly. 2. Painting work to be done.				



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S. No.	Equipment	Assessment of Current Condition	Assessment of Current Condition Photo	Current defects and Corrective Action Suggested by STC, PE	Corrective Action Completed by	Original Date of Issue	Proposed Date to Resolve by KRMP L	Current Status of Compliance
17	V-Notch system	Found totally damaged		Need to be replace.				
18	Flow meter	Not operational		Flow meter found not working since handover date and need to be replaced immediately at top priority. Meter box to be install at site. Cable to be laid properly in cable tray and conduit pipe.				
E	Distribution Chamber -1							
19	Civil works			Cleaning and finishing work to be done in DC1 Pole light found damage and needs to be replace. Railing to be replaced / repaired				
20	Gates (3 in nos)	Operational / Needs to be renovated		Operational wheel found missing ad needs to install for proper operation of the gates. Damaged precast salbs need to be replaced.				
F	Primary Sedimentation tank							





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S. No.	Equipment	Assessment of Current Condition	Assessment of Current Condition Photo	Current defects and Corrective Action Suggested by STC, PE	Corrective Action Completed by	Original Date of Issue	Proposed Date to Resolve by KRMPPL	Current Status of Compliance
21	Primary Sedimentation tank-1	Operational		Plastering and finishing work to be done at PST1. Weir plate to be replaced at damaged portion. PST mechanism to be replaced and install. Remote system to be installed for PST1. Cable to be laid in cable tray.				
22	Primary Sedimentation tank-2	Operational		Plastering and finishing work to be done at PST2. Weir plate to be replaced at damaged portion. PST mechanism to be replaced and install. Remote system to be installed for PST2. Cable to be laid in cable tray.				
23	Primary Sedimentation tank-3	Operational		Plastering and finishing work to be done at PST3. Weir plate to be replaced at damaged portion. PST mechanism to be replaced and install. Remote system to be installed for PST3. Cable to be laid in cable tray.				
G	Distribution Chamber -2							
24	Civil works	Plastering work and finishing work to be done						
25	Gates (3 in nos)	Need to be overhaul / replace		Operational wheel to be install for each Gate.				




STC		SITE INSPECTION REPORT				Jajmau STP - 130 MLD		Date: 06/08/2021	INSPECTED BY: PE, UPJN
S. No.	Equipment	Assessment of Current Condition	Assessment of Current Condition Photo	Current defects and Corrective Action Suggested by STC, PE	Corrective Action Completed by	Original Date of Issue	Proposed Date to Resolve by KRMPPL	Current Status of Compliance	
H	Aeration tank								
26	Aeration Tank no. 01 (Civil Works)	Structure found in poor condition and needs to be rehabilitate		Civil structure found in poor condition and need to be rehabilitate. Columns need to be reinforced. Walkway to be strengthen and repaired. New Hand railing need to be installed on walkway. GAD of Hand railing and material certificate of hand railing needs to	Railing work in progress				
27	Aerator no. 1	3 Operated 1 Standby 2 Not working		Aerators need to be overhaul / replace. Canopies to be installed on the top of motors. Cable to be laid in cable tray. Auto remote system to be install at site					
28	Aerator no. 2								
29	Aerator no. 3								
30	Aerator no. 4								
31	Aerator no. 5								
32	Aerator no. 6								
33	Aeration Tank no. 02 (Civil Works)	Structure found in poor condition and needs to be rehabilitate		Civil structure found in poor condition and need to be rehabilitate. Columns need to be reinforced. Walkway to be strengthen and repaired. New Hand railing need to be installed on walkway. GAD of Hand railing and material certificate of hand railing needs to	Railing work in progress				
34	Aerator no. 7	2 Operational 1 Standby 3 Not working		Aerators need to be overhaul / replace. Canopies to be installed on the top of motors. Cable to be laid in cable tray. Auto remote system to be install at					
35	Aerator no. 8								
36	Aerator no. 9								
37	Aerator no. 10								




SITE INSPECTION REPORT					Jajmau STP - 130 MLD		Date: 06/08/2021	INSPECTED BY: PE, UPJN
S. No.	Equipment	Assessment of Current Condition	Assessment of Current Condition Photo	Current defects and Corrective Action Suggested by STC, PE	Corrective Action Completed by	Original Date of Issue	Proposed Date to Resolve by KRMP	Current Status of Compliance
38	Aerator no. 11			Auto remote system to be install at site				
39	Aerator no. 12							
40	Aeration Tank no. 03 (Civil Works)	Structure found in poor condition and needs to be rehabilitate		Civil structure found in poor condition and need to be rehabilitate. Columns need to be reinforced. Walkway to be strengthen and repaired. New Hand railing need to be installed on walkway. GAD of Hand railing and material certificate of hand railing needs to				
41	Aerator no. 13	2 Operational 1 Standby 3 Not working		Aerators need to be overhaul / replace. Canopies to be installed on the top of motors. Cable to be laid in cable tray. Auto remote system to be install at site				
42	Aerator no. 14							
43	Aerator no. 15							
44	Aerator no. 16							
45	Aerator no. 17							
46	Aerator no. 18							
I	Distribution Chamber -3							
47	Civil works	To be renovated		Cleaning and finishing work to be done in DC3 Railing to be replaced / repaired				
48	Gates (3 in nos)	Operated		Operational wheel found missing ad needs to install for proper operation of the gates. Damaged precast salbs need to be replaced.				
J	Final Sedimentation Tank							
49	Final Sedimentation Tank no.1	Operated / found in overflow condition		FST found in overflow condition and need to be maintained properly. Plastering and finishing works (Civil) to be done at FST. Weir plate to be replaced at damaged portion. FST mechanism to be replaced and install. Remote system to be installed for EST1				




STC		SITE INSPECTION REPORT				Jajmau STP - 130 MLD	Date: 06/08/2021	INSPECTED BY: PE, UPJN
S. No.	Equipment	Assessment of Current Condition	Assessment of Current Condition Photo	Current defects and Corrective Action Suggested by STC, PE	Corrective Action Completed by	Original Date of Issue	Proposed Date to Resolve by KRMPL	Current Status of Compliance
50	Final Sedimentation Tank no.2	Operated / found in overflow condition		FST found in overflow condition and need to be maintained properly. Plastering and finishing works (Civil) to be done at FST. Weir plate to be replaced at damaged portion. FST mechanism to be replaced and install. Remote system to be installed for FST2.				
51	Final Sedimentation Tank no.3	Operated / found in overflow condition		FST found in overflow condition and need to be maintained properly. Plastering and finishing works (Civil) to be done at FST. Weir plate to be replaced at damaged portion.				
K	Treated Effluent Pump House							
52	Treated Effluent sump (Civil)	Structure is in damaged condition and found in overflow condition		New TEPH cum Sump has already been proposed in CA and needs to keep this sump in working condition till the renovation period.				





STC SITE INSPECTION REPORT					Jajmau STP - 130 MLD		Date: 06/08/2021	INSPECTED BY: PE, UPJN	
S. No.	Equipment	Assessment of Current Condition	Assessment of Current Condition Photo	Current defects and Corrective Action Suggested by STC, PE	Corrective Action Completed by	Original Date of Issue	Proposed Date to Resolve by KRMPL	Current Status of Compliance	
53	Treated Effluent Pump House (Civil)	Structure is in bad condition.		New TEPH cum Sump has already been proposed in CA and needs to keep Pump house in working condition till the renovation period. Pump foundation are found in damaged condition. Hand railing to be repaired and installed.	Total 8 nos of pumps were found in operation and 1 more pump to be install soon after overhauling				
54	TEPH Pump no.1	8 nos. of pumps are found in operation & 2 nos. of pumps found in not in working condition and balance 01 no. is missing since Handover		All pumps needs to be repaired and get operational. Lighting arrangement and Cable to be laid in cable tray. Thermameter and vibration meter should be at site. Railing to be repaired till the renovation period. Motor cover to be arranged. Pressure guage are found in damaged condition and need to be replaced. Concessionaire should maintain log book of the pumps for proper record maintenance. Leakage has been detected in some pumps which are in operation, and directed to repair the same immediately. Auto remote system to be install at site Cable tray need to be painted immediatly					
55	TEPH Pump no.2								
56	TEPH Pump no.3								
57	TEPH Pump no.4								
58	TEPH Pump no.5								
59	TEPH Pump no.6								
60	TEPH Pump no.7								
61	TEPH Pump no.8								
62	TEPH Pump no.9								
63	TEPH Pump no.10								
64	TEPH Pump no.11								
L	Return Sludge Pump House								
65	Return sludge Sump (Civil)	Needs rehabilitation		Need to be cleaned and renovate					



SITE INSPECTION REPORT				Jajmau STP - 130 MLD	Date: 06/08/2021	INSPECTED BY: PE, UPJN		
S. No.	Equipment	Assessment of Current Condition	Assessment of Current Condition Photo	Current defects and Corrective Action Suggested by STC, PE	Corrective Action Completed by	Original Date of Issue	Proposed Date to Resolve by KRMPL	Current Status of Compliance
66	Return Sludge Pump House (Civil)	Needs rehabilitation		Need to be Renovate. Lighting arrangement and Cable to be laid in cable tray. Auto remote system to be install at site Cable need to be dressed properly All Indor Light to be replace immediately				
67	Return Sludge Pump no. 1	2 pumps operational and 2 found not working.		Cables to be arranged in proper manner and should be laid in cable tray. Leakage has been detectedc in the pipes connecting to the Pumps. Out of 4 nos. panel only 2 panel				
68	Return Sludge Pump no. 2							
69	Return Sludge Pump no. 3							
70	Return Sludge Pump no. 4							
M	Blending Tank							
71	Civil works	Belding tank is in dilapidated condition and needs to be rehabilitate		1. Strucutre should be strength and visibde bars to be covered with concrete. 2. Cracks should be treated by Pressure grouting. 3. Cleaning work, Platering work and finsihing work to be done. 4. Installation of Azitators as mentioned in Approved BEP				
72	Gravity Sludge Thickeners							
73	Gravity Sludge Thickener no. 1	Not functional		1. Needs to be cleaned and extracted sludge to be disposed. 2. Walls of the Thickener needs to be repair and rehabilitate. 3. Plastering and finishing work to be done. 4. Make structure free from the Cracks. 5. Remote system to be installed for GST-1. 6. Cable to be laid in cable tray.				



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S. No.	Equipment	Assessment of Current Condition	Assessment of Current Condition Photo	Current defects and Corrective Action Suggested by STC, PE	Corrective Action Completed by	Original Date of Issue	Proposed Date to Resolve by KRMPPL	Current Status of Compliance
74	Gravity Sludge Thickener no. 2	Under maintenance		<ol style="list-style-type: none"> 1. Sludge Thickener found under maintenance 2. Suggested to expedite the cleaning progress 3. Civil structure to be repaired and make it free from any structural defects & deficiencies. 4. Plastering and finishing works to be done. 5. Remote system to be installed for GST-2. 	Desilting of the Sludge thickener in progress			
0	Thickened Sludge Pump House							
75	Thickened sludge Pump House cum Sump (Civil works)	Structure needs rehabilitation		<ol style="list-style-type: none"> 1. Sump to be clean and rehabilitate. 2. Precast cover slabs of Sump to be replaced . 3. Pump house structure needs plastering and finishing works. 4. Cracks should be treated with proper technique. 5. Remote system to be installed for TSPH. 6. Cable to be laid in cable tray. 7. All Thickened sludge pumps to be 				
76	Thickened Sludge Pump no.1	Not operated		Required pump repair work				
77	Thickened Sludge Pump no.2	Not operated		Required pump repair work				
78	Thickened Sludge Pump no.3	operated		lubrication and cleaning works as required				
79	Thickened Sludge Pump no.4	operated		lubrication and cleaning works as required				
p	Primary Sludge Digesters			Indor lighting need to be repalce				

STC		SITE INSPECTION REPORT				Jajmau STP - 130 MLD	Date: 06/08/2021	INSPECTED BY: PE, UPJN
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80	Primary Sludge Digester no. 1	Under maintenance		<ol style="list-style-type: none"> 1. Removal of centrally located sludge mixing shaft from Primary Digester 1. 2. Gate to be overhaul 3. Civil Structure of the Digester to be renovate and cracks to be treated. 4. Leakage to be Arrested in the Digester. 5. Installation of the Railing at the boundary of the dome. 6. Finishing work to be done. 				
81	Primary Sludge Digester no. 2	Not operational	 	<ol style="list-style-type: none"> 1. Structure found in worse condition and need to be renovate. 2. Gate to be overhaul 3. Civil Structure of the Digester to be renovate and cracks to be treated. 4. Leakage to be Arrested in the Digester. 5. Installation of the Railing at the boundary of the dome. 6. Finishing work to be done. 7. Sludge Digester no.2 is under cleaning but no any safety precaution during cleaning. 8. Safety officer not available at site. 				
Q	Secondary Sludge Digester							
82	Secondary Sludge Digester	Not operational		<ol style="list-style-type: none"> 1. Structure found in worse condition and need to be renovate. 2. Gate to be overhaul 3. Civil Structure of the Digester to be renovate and cracks to be treated. 4. Leakage to be Arrested in the Digester. 5. Installation of the Railing at the boundary of the dome. 6. Finishing work to be done. 				
R	Digested Sludge Pump House							

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83	Digested Sludge Pump House cum Sump (Civil works)	Need to be renovated		<ol style="list-style-type: none"> 1. Sump to be clean and renovate. 2. Installation of the railing on the boundary of the sump. 3. Precast cover to be replaced or constructed on the sump. 4. Stairs at the pump house to be renovate. 5. Plastering work and finishing work to be done in the pump house. 				
84	Digested Sludge Pump no.1	Pump no.3 and 4 are in not working.		<ol style="list-style-type: none"> 1. as per CA 4 nos. of screw pumps to be replaced. 2. Required repair work for pump no.3 & 4 				
85	Digested Sludge Pump no.2							
86	Digested Sludge Pump no.3							
87	Digested Sludge Pump no.4							
S	Centrifuge							
88	Centrifuge Building (Civil Works)	Not operational		<ol style="list-style-type: none"> 1. Plastering and finishing work of the Centrifuge building and centrate Pump house. 2. Railing and steel ladder to be repaired or replaced as per site condition. 3. Housekeeping to be done. 4. Sign boards are required. 5. No approach road found at site to get on thsi unit/component. 				
89	Centrifuge Pump no.1	All centrifuge were in dilapidated condition and dismantaling work in progress by KRMPL.		As per CA centrifuge to be repalced.				
90	Centrifuge Pump no.2							
91	Centrifuge Pump no.3							
92	Centrifuge Pump no.4							
T	Centrate / Supernatant Pump House							
93	Centrate Building cum Sump (Civil works)			<ol style="list-style-type: none"> 1. Plastering and finishing work of the Centrifuge building and centrate Pump house. 2. Railing and steel ladder to be repaired or replaced as per site condition. 				
94	Supernatant Pump no.1	Pump already dismanteled by		As per CA pump to be replaced .				

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95	Supernatant Pump no.2	Pump already dismantled by		As per CA pump to be replaced .				
96	Supernatant Pump no.3	Pump already dismantled by		As per CA pump to be replaced .				
97	Supernatant Pump no.4	Pump already dismantled by		As per CA pump to be replaced .				
U	Gas Holder							
98	Gas Holder no. 1	Not functional		<ol style="list-style-type: none"> 1. Civil structure needs to be repaired and renovate. 2. MS Dome to be repaired. 3. Railing to be repaired 4. Valves need to be overhaul or repair. 5. Plastering and finishing work to be done in the civil structure. 				
99	Gas Holder no. 2	Not functional		<ol style="list-style-type: none"> 1. Civil structure needs to be repaired and renovate. 2. MS Dome to be repaired. 3. Railing to be repaired 4. Valves need to be overhaul or repair. 5. Plastering and finishing work to be done in the civil structure. 				
V	Gas Scrubbers							
100	Gas Scrubber no.1	Dismantling in progress by KRMPL		As per CA, Gas scrubber unit to be repalced.				
101	Gas Scrubber no.2	Dismantling in progress by KRMPL		As per CA, Gas scrubber unit to be repalced.				
102	Gas Scrubber no.3	Dismantling in progress by KRMPL		As per CA, Gas scrubber unit to be repalced.				
W	Gas Flaring Unit							
103	Gas Flaring no.1	Dismantling in progress by KRMPL		As per CA, Gas Flaring to be				

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104	Gas Flaring no.2	Dismantling in progress by KRMPI		replaced.				
X	Bio gas Compressor							
105	Biogas Compressor Building							
106	Bio gas Compressor no.1	Dismantling done by KRMPL.		AS per CA, Biogas compressor to be replaced .				
107	Bio gas Compressor no.2	Dismantling done by KRMPL.						
108	Bio gas Compressor no.3	Dismantling done by KRMPL.						
109	Bio gas Compressor no.4	Dismantling done by KRMPL.						
110	Bio gas Compressor no.5	Dismantling done by KRMPL.						
Y	Dual Fuel Generator							
111	DFG no.1	not oprated		Proper lighting arrangement to be required at site. DFG to be replaced as per CA and BEP.				
112	DFG no.2	Operated						
113	DFG no.3	Operated						
114	DFG no.4	not oprated						
115	DFG no.5	not oprated						
Z	Filtrate Pump							
116	Filterate pump cum Sump (Civil works)			Civil structure needs finsihing work to be done.				
117	Filtrate Pump no.1	Not working		As per BEP, Filterate pump to be replaced.				
118	Filtrate Pump no.2	Not working						
AA	New Units (Construction)							
119	TEPH cum Sump	To be constructed		Shifting of existing of Utilities at proposed CCT and TEPH area. Site Clearance required.				
120	Chlorine Contact tank							

STC		SITE INSPECTION REPORT				Jajmau STP - 130 MLD		Date: 06/08/2021	INSPECTED BY: PE, UPJN
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	43 MLD STP (O&M)	Awited for Handover							
	Centrifuge /decanter system No.1	Operated		1. Now both Centrifuge are in working condition.					
	Centrifuge /decanter system No.2	Operated		1. Now both Centrifuge are in working condition.					
Remarks:				Signature: <i>P. Girdhar</i>					
				TEAM LEADER					