

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
OCTOBER - 2021**



Executing Agency
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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)andtheir O&M for 15 years;
- rehabilitation of existing 130 MLD Jajmau Phase-I STP facility with O&M for 15 yearsand;
- O&M for three existing STP facilities (43 MLD Jajmau Phase-II, 210 MLDBingawan&42 MLD Sajari) in Kanpur under Hybrid Annuity based PPP mode.

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

2. HYBRID ANNUITY MODEL (HAM)

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

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

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

3. OBJECTIVES

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

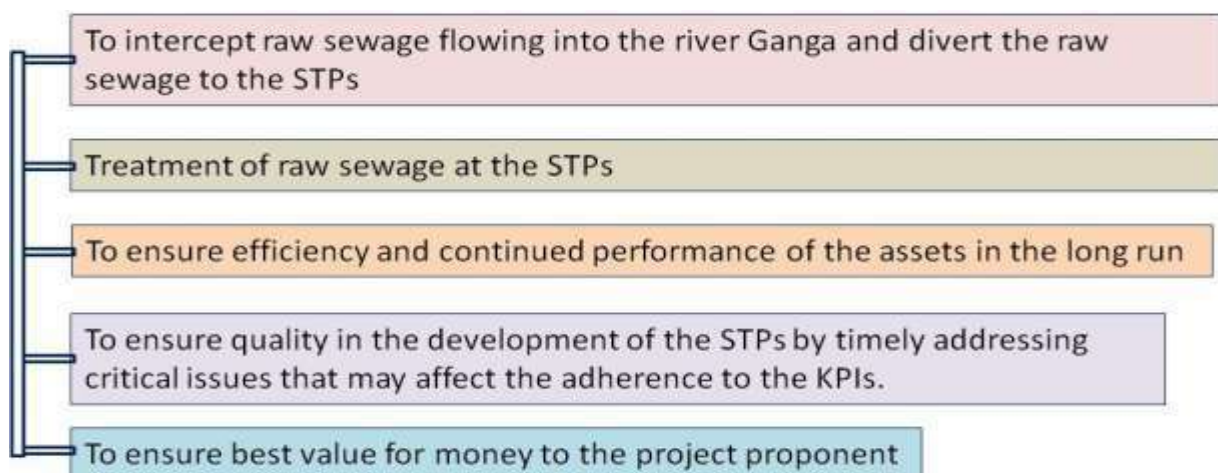


Figure 1: Objectives of NMCG and UP JAL NIGAM

4. HAM KANPUR PROJECT AT A GLANCE

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

Table 2.1: HAM Kanpur Project at a Glance

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

5. PROJECT WISE DETAILS OF COMPONENTS UNDER HAM KANPUR PROJECT

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

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

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

5.1 PANKHA FACILITIES

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

Table 5.1: Pankha Facilities

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

5.2 UNNAO FACILITIES

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

Table 5.2: Unnao Facilities

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

5.3 SHUKLAGANJ STP FACILITIES

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

Table 5.3: Shuklaganj Facilities

SN	STP Facilities	Capacity/dia. /size	No. of units/length
	Date of Start- Effective Date (11.10.2019)		
	Scope of Work- New Construction and O&M		
1.1	STP	5 MLD	1
1.2	Sump cum Pump house (MPS)	20 MLD	1
1.3	Connecting sewer (in zone 2)	400-500mm ϕ	200m
	Effluent Disposal line	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	Parmat IPS	54.24 MLD	1
1.6	Baba Ghat / Muar mill IPS	4.03 MLD	1
1.7	Guptar Ghat IPS	1.44 MLD	1
1.8	Jajmau CSPA	136 MLD	1

5.5 JAJMAU PHASE II STP FACILITY

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

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

5.6 BINGAWAN FACILITIES

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

Table 5.5: Bingawan Facilities

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

5.7 SAJARI FACILITIES

Project wise component detail of Sajari is given in table 5.6

Table 5.6: Sajari Facilities

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

6. PHYSICAL PROGRESS OF WORK

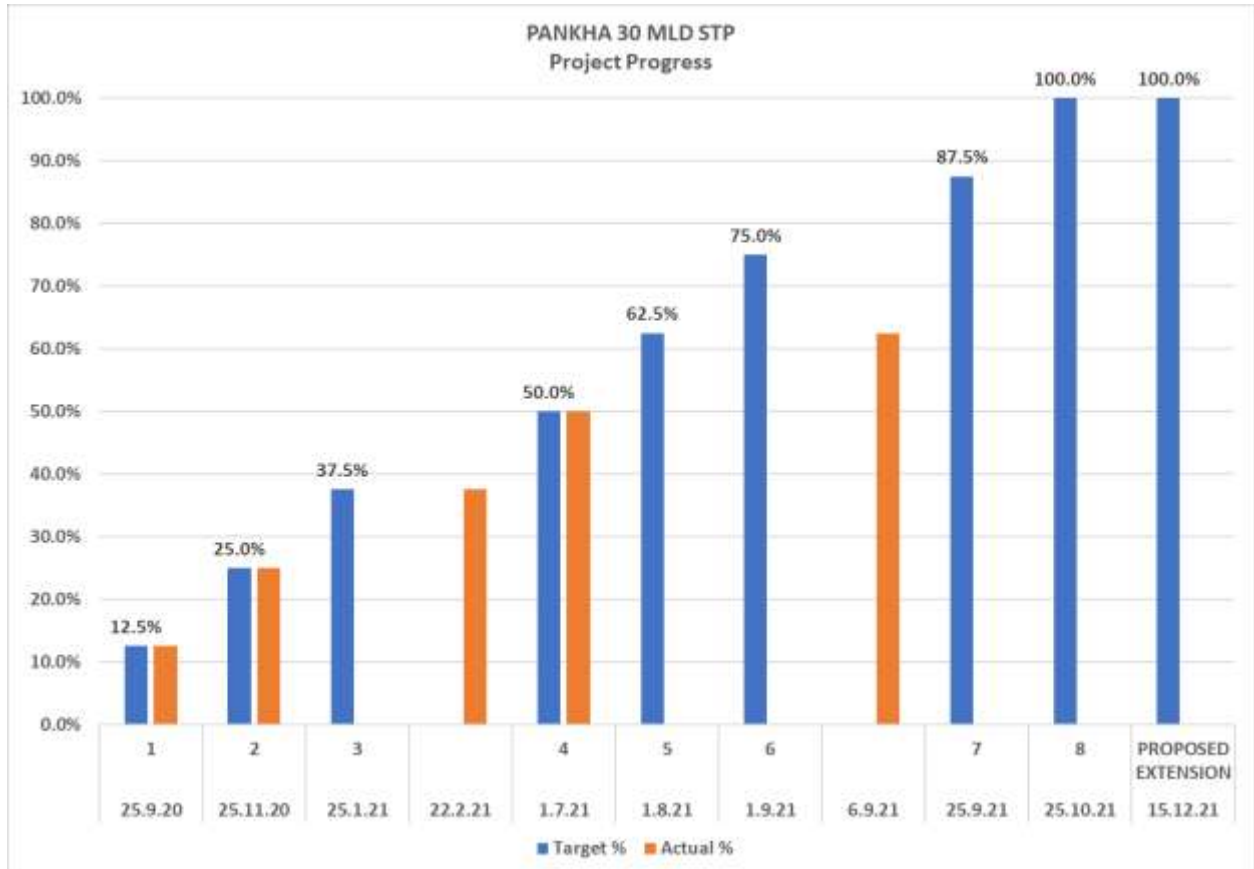
As per the provision of Concessionaire Agreement, effective date of the project was to be declared before 19th April 2019. Effective date for work execution under HAM Kanpur project was declared on 11th October 2019. Hence, work related to construction / execution of new STP facilities and related infrastructure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

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

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

6.1 MILESTONE WISE ACTIVITIES AND PROGRESS: PANKHA STP FACILITIES

- Total 146 nos. of manpower / workers are deployed at the site. KRMPL need to increase the manpower over 200-250 as directed in the NMCG meeting dated 28.09.2021 so that simultaneous works on multiple site could be started to achieve the target on time;
- 1st, 2nd, 3rd, 4th & 5th milestone have been completed. LD for 36 days have been imposed on KRMPL for late completion of 5th milestone (schedule date of completion 01.08.2021 while actual completed on 06.09.2021);



- 6th & 7th milestone completion dates have been missed by KRMPL on 01.09.2021 and 25.09.2021 respectively. Scheduled date for completion of final (8th) milestone is 25.10.2021. Works of 6th, 7th & 8th milestones are in progress. Till date overall progress is approx 65.0% out of target of 90%;
- In the JMD meeting at UPJN Lucknow dated 03.09.2021 it was decided that Pankha STP works are to be completed by KRMPL till 15.12.2021. For which a balance work completion plan to complete the remaining works of STP was asked to submit. KRMPL submitted balance work plan on 23.09.2021. The works execution as per balance work plan has been started;
- 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;

SUMMARY OF OVERALL PROGRESS AT PANKHA STP

Milestone	Schedule Completion date	Actual completion date	Milestone Amount	Targeted Progress till 31.10.2021		
				Milestone Amount	% Target	% Achieved
1st milestone	25.09.2020	25.09.2020	1248,39,750.00	1248,39,750	12.50%	12.50%
2nd milestone	25.11.2020	25.11.2020	1248,39,750.00	1248,39,750	12.50%	12.50%
3rd Milestone	25.01.2021	22.02.2021 LD	1248,39,750.00	1248,39,750	12.50%	12.50%
4th Milestone	01.07.2021	01.07.2021	1248,39,750.00	1237,06,584	12.50%	12.4%
5th Milestone	01.08.2021	06.09.2021 LD	1248,39,750.00	572,52,064	12.50%	5.7%
6th milestone	01.09.2021	Not completed	1248,39,750.00	617,50,912	12.5%	6.2%
7th milestone	25.09.2021	Not completed	1248,39,750.00	536,72,356	12.5%	5.4%
8th milestone	25.10.2021	Not completed	1248,39,750.00	27,83,840	12.5%	0.3%
Overall Progress			9987,18,000.00	6736,85,005	100%	67.45%
Total %			100.00%		100%	67.45%

- Railway crossing permission has been obtained and crossing works completed. NHAI 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. UPJN submitted proposal to NMCG for payment on dated 13.09.2021;
- KRMPL need to expedite construction works to achieve timely completion of the project.

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

Table 6.1: Milestone wise Progress – 30 MLD Pankha STP

SN	Description of Items	Achieved against 5th Milestone		Achieved against 6th Milestone		Achieved against 7th Milestone		Achieved against 8th Milestone	
		%	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		-		-		
	Walkway/Platform	42%	51,65,160	15%	18,44,700		-		
	Finishing Work		-		-		-		
	MECHANICAL WORK		-		-		-		
	A. DECANTERS		-		-		-		
	(i) On supply of machinery/equipment at site		-		-		-		
	(ii) On completion of erection works		-		-		-		
	(iii) On completion of Testing of equipment		-		-		-		
	B. DIFFUSERS		-		-		-		
	(i) On supply of machinery/equipment at site		-	50%	104,53,300	50%	104,53,300		
	(ii) On completion of erection works		-		-		-		
	(iii) On completion of Testing of equipment		-		-		-		
	C. RAS & SAS PUMPS		-		-		-		
	(i) On supply of machinery/equipment at site		-	50%	104,53,300	50%	104,53,300		
	(ii) On completion of erection works		-		-		-	40%	9,83,840
	(iii) On completion of Testing of equipment		-		-		-		
	D. PIPES & FITTINGS		-		-		-		

SN	Description of Items	Achieved against 5th Milestone		Achieved against 6th Milestone		Achieved against 7th Milestone		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	(i) On supply of machinery/equipment at site	90%	94,07,970		-		-		
	(ii) On completion of erection works		-		-	10%	1,22,980		
	(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		-		-		-		
3	Chlorination House Area		-		-		-		
	CIVIL WORK		-		-		-		
	Site Clearance		-		-		-		
	Excavation		-		-		-		
	PCC		-		-		-		
	RCC Foundation/Column footing		-		-		-		
	Column & Beam		-		-		-		
	Ground floor Slab		-		-		-		
	Column & Beam		-		-		-		
	Roof Slab	100%	18,44,700		-		-		
	Brickwork & Plaster	70%	12,91,290		-		-		
	Finishing Work		-		-		-		
	MECHANICAL WORK		-		-		-		
	A. CHLORINATION SYSTEM		-		-		-		

SN	Description of Items	Achieved against 5th Milestone		Achieved against 6th Milestone		Achieved against 7th Milestone		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	(i) On supply of machinery/equipment at site		-		-		-		
	(ii) On completion of erection works		-		-		-		
	(iii) On completion of Testing of equipment		-		-		-		
	B. HOIST WORKS		-		-		-		
	(i) On supply of machinery/equipment at site		-	100%	7,83,998		-		
	(ii) On completion of erection works		-		-		-		
	(iii) On completion of Testing of equipment		-		-		-		
	ELECTRICAL & INSTRUMENTATION WORK		-		-		-		
	(i) On supply of machinery/equipment at site		-		-		-		
	(ii) On completion of erection works		-		-		-		
	(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		-	50%	9,22,350		-		
	MECHANICAL WORK		-		-		-		
	SLUDGE THICKENER MECHANISM		-		-		-		
	(i) On supply of machinery/equipment at site		-		-		-		
	(ii) On completion of erection works	60%	3,32,046		-		-		
	(iii) On completion of Testing of equipment		-		-		-		
5	Inlet / Stilling Chamber Area		-		-		-		

SN	Description of Items	Achieved against 5th Milestone		Achieved against 6th Milestone		Achieved against 7th Milestone		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	Site Clearance		-		-		-		
	Excavation		-		-		-		
	PCC		-		-		-		
	RCC Foundation/Column footing		-		-		-		
	Column & Beam		-		-		-		
	RCC Slab		-		-		-		
	RCC Wall		-		-		-		
	Final finishing including Staircases,Railing,Shade,Painting, etc.		-		-		-		
6	Manual & Mechanical Fine Bar Screen Chamber Area		-		-		-		
	Site Clearance		-		-		-		
	Excavation		-		-		-		
	PCC		-		-		-		
	RCC Foundation		-		-		-		
	Column & Beam		-		-		-		
	RCC Slab	100%	12,29,800		-		-		
	RCC Wall		-	100%	12,29,800		-		
	Walkway/Platform		-		-	100%	12,29,800		
	Finishing Work		-		-		-		
7	Grit Chamber (Mechanical Cleaned) & (Manually Cleaned)		-		-		-		
	Site Clearance		-		-		-		
	Excavation		-		-		-		
	PCC		-		-		-		
	RCC Foundation		-		-		-		
	Column & Beam		-		-		-		
	RCC Slab	100%	12,29,800		-		-		
	RCC Wall		-	90%	11,06,820		-		

SN	Description of Items	Achieved against 5th Milestone		Achieved against 6th Milestone		Achieved against 7th Milestone		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	Walkway/Platform		-		-	70%	8,60,860		
	Finishing Work		-		-		-		
	MECHANICAL WORK		-		-		-		
	A.MECHANICAL FINE SCREEN		-		-		-		
	(i) On supply of machinery/equipment at site		-		-		-		
	(ii) On completion of erection works		-		-	40%	98,384		
	(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		-		-	40%	1,47,576		
	(iii) On completion of Testing of equipment		-		-		-		
	C.GATES		-		-		-		
	(i) On supply of machinery/equipment at site		-		-		-		
	(ii) On completion of erection works		-		-		-		
	(iii) On completion of Testing of equipment		-		-		-		
	D.CONVEYOR BELTS		-		-		-		
	(i) On supply of machinery/equipment at site		-	100%	20,90,660		-		
	(ii) On completion of erection works		-		-		-		
	(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		-		-		-		
			-		-		-		
8	Flow Measurement Channel Area		-		-		-		
	Site Clearance		-		-		-		

SN	Description of Items	Achieved against 5th Milestone		Achieved against 6th Milestone		Achieved against 7th Milestone		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	Excavation		-		-		-		
	PCC		-		-		-		
	RCC Foundation		-		-		-		
	Column & Beam		-		-		-		
	RCC Slab	100%	24,59,600		-		-		
	RCC Wall		-	95%	23,36,620		-		
	Walkway/Platform		-		-	90%	11,06,820		
	Finishing Work		-		-		-		
9	Admin Bldg Area		-		-		-		
	Site Clearance		-		-		-		
	Excavation		-		-		-		
	PCC		-		-		-		
	Column footings/Foundation		-		-		-		
	Column & Beam		-		-		-		
	Ground Floor Slab	100%	18,44,700		-		-		
	1st Floor Slab		-	100%	18,44,700		-		
	Roof Slab		-		-		-		
	Brickwork & Plaster		-		-		-		
	Finishing Work		-		-		-		
	ELECTRICAL WORK		-		-		-		
	LT/HT PANEL		-		-		-		
	(i) On supply of machinery/equipment at site		-		-	50%	36,92,995		
	(ii) On completion of erection works		-		-		-		
	(iii) On completion of Testing of equipment		-		-		-		
	PLC/SCADA SYSTEM		-		-		-		
	(i) On supply of machinery/equipment at site		-		-		-		

SN	Description of Items	Achieved against 5th Milestone		Achieved against 6th Milestone		Achieved against 7th Milestone		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	(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		-		-		-		
	RCC Roof Slab		-	100%	15,37,250		-		
	Brickwork & Plaster		-	5%	76,863		-		
	Finishing Work		-		-		-		
	MECHANICAL WORK		-		-		-		
	AIR BLOWER(PUMP)		-		-		-		
	(i) On supply of machinery/equipment at site		-		-		-		
	(ii) On completion of erection works		-		-		-		
	(iii) On completion of Testing of equipment		-		-		-		
	ELECTRICAL WORK		-		-		-		
	AIR BLOWER(MOTOR)		-		-		-		
	(i) On supply of machinery/equipment at site		-		-		-		
	(ii) On completion of erection works		-		-		-		
	(iii) On completion of Testing of equipment		-		-		-		
11	Staff Quarter Area		-		-		-		
	Site Clearance		-		-		-		
	Excavation		-		-		-		
	PCC		-		-		-		

SN	Description of Items	Achieved against 5th Milestone		Achieved against 6th Milestone		Achieved against 7th Milestone		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	RCC Foundation/column footing	100%	12,91,290		-		-		
	Column & Beam	100%	12,91,290		-		-		
	RCC Ground Floor Slab		-	70%	9,03,903		-		
	RCC Roof Slab		-		-	100%	8,60,860		
	Brickwork & Plaster		-		-		-		
	Electrical work		-		-		-		
	Finishing Work		-		-		-		
12	Guard Room Area		-		-		-		
	Site Clearance		-		-		-		
	Excavation		-		-		-		
	PCC		-		-		-		
	RCC Foundation/column footing		-		-		-		
	Column & Beam		-		-		-		
	RCC Ground Floor Slab		-		-		-		
	RCC Roof Slab		-		-		-		
	Brickwork & Plaster		-		-		-		
	Electrical work		-		-		-		
	Finishing Work		-		-		-		
13	Sludge Dewatering System Area (Centrifuge Pump House, Sludge sump & Poly dosing tank)		-		-		-		
	Site Clearance		-		-		-		
	Excavation		-		-		-		
	PCC		-		-		-		
	RCC Foundation		-		-		-		
	1st Column & Beam		-		-		-		
	Ground Floor Slab		-		-		-		
	2nd Column & Beam	50%	15,37,250	20%	6,14,900		-		

SN	Description of Items	Achieved against 5th Milestone		Achieved against 6th Milestone		Achieved against 7th Milestone		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	RCC Roof Slab		-		-		-		
	Brickwork & Plaster		-		-		-		
	Finishing Work		-		-		-		
	MECHANICAL WORK		-		-		-		
	CENTRIFUGE UNIT		-		-		-		
	(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		-		-		-		
	CENTRIFUGE FEED PUMP		-		-		-		
	(i) On supply of machinery/equipment at site		-		-		-		
	(ii) On completion of erection works		-		-		-		
	(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		-		-		
	Final finishing including Staircases,Railing,Shade,Painting etc.		-	50%	9,22,350		-		
	MECHANICAL WORK		-		-		-		
	PUMPING SYSTEM		-		-		-		

SN	Description of Items	Achieved against 5th Milestone		Achieved against 6th Milestone		Achieved against 7th Milestone		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	(i) On supply of machinery/equipment at site		-		-		-		
	(ii) On completion of erection works		-		-	30%	1,93,694		
	(iii) On completion of Testing of equipment		-		-		-		
15	Transformer Yard Area		-		-		-		
	Site Clearance		-		-		-		
	Excavation & PCC	100%	4,91,920		-		-		
	Foundation Work	100%	7,37,880		-		-		
	Finishing Work		-		-		-		
	ELECTRICAL WORK		-		-		-		
	TRANSFORMER		-		-		-		
	(i) On supply of machinery/equipment at site		-	100%	31,35,990		-		
	(ii) On completion of erection works		-		-		-		
	(iii) On completion of Testing of equipment		-		-		-		
	CABLE & CABLE TRAY		-		-		-		
	(i) On supply of machinery/equipment at site		-		-		-		
	(ii) On completion of erection works		-		-		-		
	(iii) On completion of Testing of equipment		-		-		-		
16	DG Area		-		-		-		
	Site Clearance		-		-		-		
	Excavation & PCC		-		-		-		
	Foundation Work		-		-		-		
	Finishing Work		-		-		-		
	ELECTRICAL WORK		-		-		-		
	DG SET		-		-		-		
	(i) On supply of machinery/equipment at site		-		-		-		
	(ii) On completion of erection works		-		-		-		

SN	Description of Items	Achieved against 5th Milestone		Achieved against 6th Milestone		Achieved against 7th Milestone		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	(iii) On completion of Testing of equipment		-		-		-		
	CABLE & CABLE TRAY		-		-		-		
	(i) On supply of machinery/equipment at site		-		-		-		
	(ii) On completion of erection works		-		-		-		
	(iii) On completion of Testing of equipment		-		-		-		
17	Sludge Storage Platform		-		-		-		
	Site Clearance		-		-		-		
	Excavation & PCC		-		-		-		
	Foundation Work		-		-		-		
	Finishing work		-		-		-		
18	EXTERNAL DEVELOPMENT		-		-		-		
A.	Roads, Storm Water Drain & Miscellaneous work		-		-		-		
B.	Compound Wall with Gate		-		-		-		
	Excavation & PCC		-		-		-		
	RCC Column footing	5%	3,07,450		-		-		
	RCC Column & Beam	5%	3,07,450		-		-		
	Brickwork & Plaster		-	10%	6,14,900		-		
	Finishing Work	20%	12,29,800	20%	12,29,800	5%	3,07,450		
19	MPS-2 (115MLD)		-		-		-		
	CIVIL		-		-		-		
A	Construction of Raw Sewage Sump		-		-		-		
	Site Clearance		-		-		-		
	Excavation		-		-		-		
	PCC		-		-		-		
	RCC Foundation/Raft		-		-		-		
	Wall 50% of total lift work		-		-		-		

SN	Description of Items	Achieved against 5th Milestone		Achieved against 6th Milestone		Achieved against 7th Milestone		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	Column & Beam		-		-		-		
	Walls (balance 50% of Total Lift work)		-	40%	15,34,104		-		
	Ground Floor Slab		-		-		-		
	Finishing Work		-		-		-		
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		-		
	Walkway/Platform		-	80%	13,63,648		-		
C	Construction of Raw Sewage Pump House		-		-		-		
	Column & Beam		-		-		-		
	Roof Slab		-		-		-		
	Brickwork & Plaster		-		-		-		
	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		-		-		-		
	(i) On supply of machinery/equipment at site		-		-	75%	33,95,803		
	(ii) On completion of erection works		-		-		-		
	(iii) On completion of Testing of equipment		-		-		-		

SN	Description of Items	Achieved against 5th Milestone		Achieved against 6th Milestone		Achieved against 7th Milestone		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	Gate Work		-		-		-		
	(i) On supply of machinery/equipment at site		-		-		-		
	(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		-		-		
	(ii) On completion of erection works		-		-		-		
	(iii) On completion of Testing of equipment		-		-		-		
20	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	15%	3,83,400		-		
	Walls (balance 50% of Total Lift work)		-	40%	10,22,400		-		
	Ground Floor Slab		-		-		-		
	Finishing Work		-		-		-		
B	Construction of Inlet Chamber & Screen Channel		-		-		-		
	Site Clearance		-		-		-		
	Excavation		-		-		-		
	PCC		-		-		-		
	RCC Foundation/Raft		-		-		-		
	Wall 50% of total lift work		-		-		-		

SN	Description of Items	Achieved against 5th Milestone		Achieved against 6th Milestone		Achieved against 7th Milestone		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	Walls (balance 50% of Total Lift work)	100%	8,52,000		-		-		
	Walkway/Platform		-		-		-		
	Finishing work		-		-		-		
C	Construction of Raw Sewage Pump House		-		-		-		
	Column & Beam		-		-		-		
	Roof Slab		-		-		-		
	Brickwork & Plaster		-		-		-		
	Finishing Work		-		-		-		
D	Construction of Office Room		-		-		-		
	Site Clearance		-		-		-		
	Excavation & PCC		-		-		-		
	RCC Foundation/column footing		-		-		-		
	Column & Beam		-		-		-		
	RCC Ground floor Slab		-		-		-		
	RCC Roof Slab		-		-		-		
	Brick work & Plaster		-		-		-		
	Electrification, plumbing, fixtures		-		-		-		
	Finishing work		-		-		-		
E	Construction of Guard Room		-		-		-		
	Site Clearance		-		-		-		
	Excavation & PCC		-		-		-		
	RCC Foundation/column footing		-		-		-		
	Column & Beam		-		-		-		
	RCC Ground floor Slab		-		-		-		
	RCC Roof Slab		-		-		-		
	Brick work & Plaster		-		-		-		

SN	Description of Items	Achieved against 5th Milestone		Achieved against 6th Milestone		Achieved against 7th Milestone		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	Electrification, plumbing, fixtures		-		-		-		
	Finishing work		-		-		-		
F	Transformer Yard,DG Yard		-		-		-		
	Site Clearance		-		-		-		
	Excavation & PCC		-		-		-		
	Foundation Work		-		-		-		
	Finishing Work		-		-		-		
G	MECHANICAL WORK		-		-		-		
	Piping & Support work		-		-		-		
	(i) On supply of machinery/equipment at site		-		-	30%	2,71,664		
	(ii) On completion of erection works		-		-		-		
	(iii) On completion of Testing of equipment		-		-		-		
	Screen Channel		-		-		-		
	(i) On supply of machinery/equipment at site		-		-		-		
	(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		-		-		-		

SN	Description of Items	Achieved against 5th Milestone		Achieved against 6th Milestone		Achieved against 7th Milestone		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	(i) On supply of machinery/equipment at site		-		-		-		
	(ii) On completion of erection works		-		-		-		
	(iii) On completion of Testing of equipment		-		-		-		
	DG		-		-		-		
	(i) On supply of machinery/equipment at site		-		-		-		
	(ii) On completion of erection works		-		-		-		
	(iii) On completion of Testing of equipment		-		-		-		
I	Construction of Boundary wall & Internal Road		-		-		-		
	Site Clearance		-		-		-		
	Excavation & PCC		-		-	40%	1,27,842		
	RCC Column footing		-		-	68%	2,89,775		
	RCC Column & Beam		-		-	68%	2,17,331		
	Brickwork & Plaster		-		-	45%	1,43,822		
	Finishing		-		-		-		
	Construction of Internal road		-		-		-		
21	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		-		-		-		
	Walls (balance 50% of Total Lift work)	25%	6,39,000	50%	12,78,000		-		
	Ground Floor Slab		-		-		-		

SN	Description of Items	Achieved against 5th Milestone		Achieved against 6th Milestone		Achieved against 7th Milestone		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	Finishing Work		-		-		-		
B	Construction of Inlet Chamber & Screen Channel		-		-		-		
	Site Clearance		-		-		-		
	Excavation & PCC		-		-		-		
	RCC Foundation/Raft	20%	85,200		-		-		
	Wall 50% of total lift work	80%	3,40,800		-		-		
	Walls (balance 50% of Total Lift work)	100%	4,26,000		-		-		
	Walkway/Platform		-		-		-		
	Finishing work		-		-		-		
C	Construction of Raw Sewage Pump House		-		-		-		
	Column & Beam		-		-		-		
	Roof Slab		-		-		-		
	Brickwork & Plaster		-		-		-		
	Finishing Work		-		-		-		
D	Construction of Office Room		-		-		-		
	Site Clearance		-		-		-		
	Excavation & PCC		-		-		-		
	RCC Foundation/column footing		-		-		-		
	Column & Beam		-		-		-		
	RCC Ground floor Slab		-		-		-		
	RCC Roof Slab		-		-		-		
	Brick work & Plaster		-		-		-		
	Electrification, plumbing, fixtures		-		-		-		
	Finishing work		-		-		-		
E	Construction of Guard Room		-		-		-		
	Site Clearance		-		-		-		

SN	Description of Items	Achieved against 5th Milestone		Achieved against 6th Milestone		Achieved against 7th Milestone		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	Excavation & PCC		-		-		-		
	RCC Foundation/column footing		-		-		-		
	Column & Beam	50%	1,06,500		-		-		
	RCC Ground floor Slab		-		-		-		
	RCC Roof Slab		-		-		-		
	Brick work & Plaster		-		-		-		
	Electrification, plumbing, fixtures		-		-		-		
	Finishing work		-		-		-		
F	Transformer Yard,DG Yard		-		-		-		
	Site Clearance		-		-		-		
	Excavation & PCC		-		-		-		
	Foundation Work		-		-		-		
	Finishing Work		-		-		-		
G	MECHANICAL WORK		-		-		-		
	Piping & Support work		-		-		-		
	(i) On supply of machinery/equipment at site		-		-	25%	2,71,664		
	(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		-		-		-		

SN	Description of Items	Achieved against 5th Milestone		Achieved against 6th Milestone		Achieved against 7th Milestone		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
H	ELECTRICAL WORK		-		-		-		
	Cable Tray & Earthing Work		-		-		-		
	(i) On supply of machinery/equipment at site		-		-		-		
	(ii) On completion of erection works		-		-		-		
	(iii) On completion of Testing of equipment		-		-		-		
	Transformer		-		-		-		
	(i) On supply of machinery/equipment at site		-		-		-		
	(ii) On completion of erection works		-		-		-		
	(iii) On completion of Testing of equipment		-		-		-		
	DG		-		-		-		
	(i) On supply of machinery/equipment at site		-		-		-		
	(ii) On completion of erection works		-		-		-		
	(iii) On completion of Testing of equipment		-		-		-		
I	Construction of Boundary wall & Internal Road		-		-		-		
	Site Clearance		-		-		-		
	Excavation & PCC		-		-		-		
	RCC Column footing		-		-		-		
	RCC Column & Beam		-		-		-		
	Brickwork & Plaster		-		-		-		
	Construction of Internal road		-		-		-		
	Finishing		-		-		-		
22	I&D Works		-		-		-		
A	ICI Nala		-		-		-		
	Construction Work	4%	88,960		-		-		
	Tapping of Nallahs		-		-		-		
	Electro-Mechanical work		-		-		-		

SN	Description of Items	Achieved against 5th Milestone		Achieved against 6th Milestone		Achieved against 7th Milestone		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	Testing		-		-		-		
B	Thermal Nala -A		-		-		-		
	Construction Work	10%	2,22,400		-		-		
	Tapping of Nallahs		-		-		-		
	Electro-Mechanical work		-		-		-		
	Testing		-		-		-		
C	Thermal Nala -B		-		-		-		
	Construction Work	5%	1,11,200		-		-		
	Tapping of Nallahs		-		-		-		
	Electro-Mechanical work		-		-		-		
	Testing		-		-		-		
23	Rising Main Works		-		-		-		
A	ICI Nala Area		-		-		-		
	Site Cleance from Client		-		-		-		
	Supply of Pipes	20%	10,20,000	25%	12,75,000		-		
	Excavation,Laying & backfilling of Pipes	35%	2,10,000	25%	1,50,000		-		
	Testing		-		-		-		
B	Sundar Nagar IPS Area		-		-		-		
	Site Cleance from Client		-		-		-		
	Supply of Pipes		-	30%	15,30,000	40%	20,40,000		
	Excavation,Laying & backfilling of Pipes	25%	1,50,000	35%	2,10,000		-		
	Testing		-		-		-		
24	Sewer System Area (RCC Pipes-NP3 Types)		-		-		-		
	Site Clearance		-		-		-		
	Supply of pipes		-		-		-		
	Excavation and Laying of pipes including bed preperation & backfilling	14%	14,03,975	8%	8,02,271	13%	13,03,691		

SN	Description of Items	Achieved against 5th Milestone		Achieved against 6th Milestone		Achieved against 7th Milestone		Achieved against 8th Milestone	
		%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)	%	Amount(Rs.)
	Manholes	10%	10,02,839	3%	3,00,852	18%	18,05,111		
	Testing		-		-		-		
	Road Restoration work		-		-		-		
25	Design ,Supply,Testing & Commissioning of Sewer line (crossing National Highway-2 & Railway Track)		-		-		-		
	Statutory approvals from Railway & Road dept	50%	-		-		-		
	Supply of Carrier & Casing Pipes		-	57%	64,11,551	30%	33,74,501		
	Construction of Pit		-	45%	4,21,813	20%	1,87,472		
	Excavation & Laying of Pipes thru Jack push method		-	30%	16,87,250	20%	11,24,834		
	Testing		-		-	27%	2,53,088		
26	Design ,Supply,Testing & Commissioning of Treated Effluent line from STP to River Pandu		-		-		-		
	Site Clearance		-		-		-		
	Construction of Effluent line from STP to River Pandu		-		-	35%	25,20,000	25%	18,00,000
	Testing		-		-		-		
	TRIAL RUN & COMMISSIONING		-		-		-		
	Trial Run & Commissioning		-		-		-		
	Total Amount		572,52,064		617,50,912		536,72,356		27,83,840

PHOTOGRAPHS OF PANKHA STP SITE



Splitter Box



Admin Building



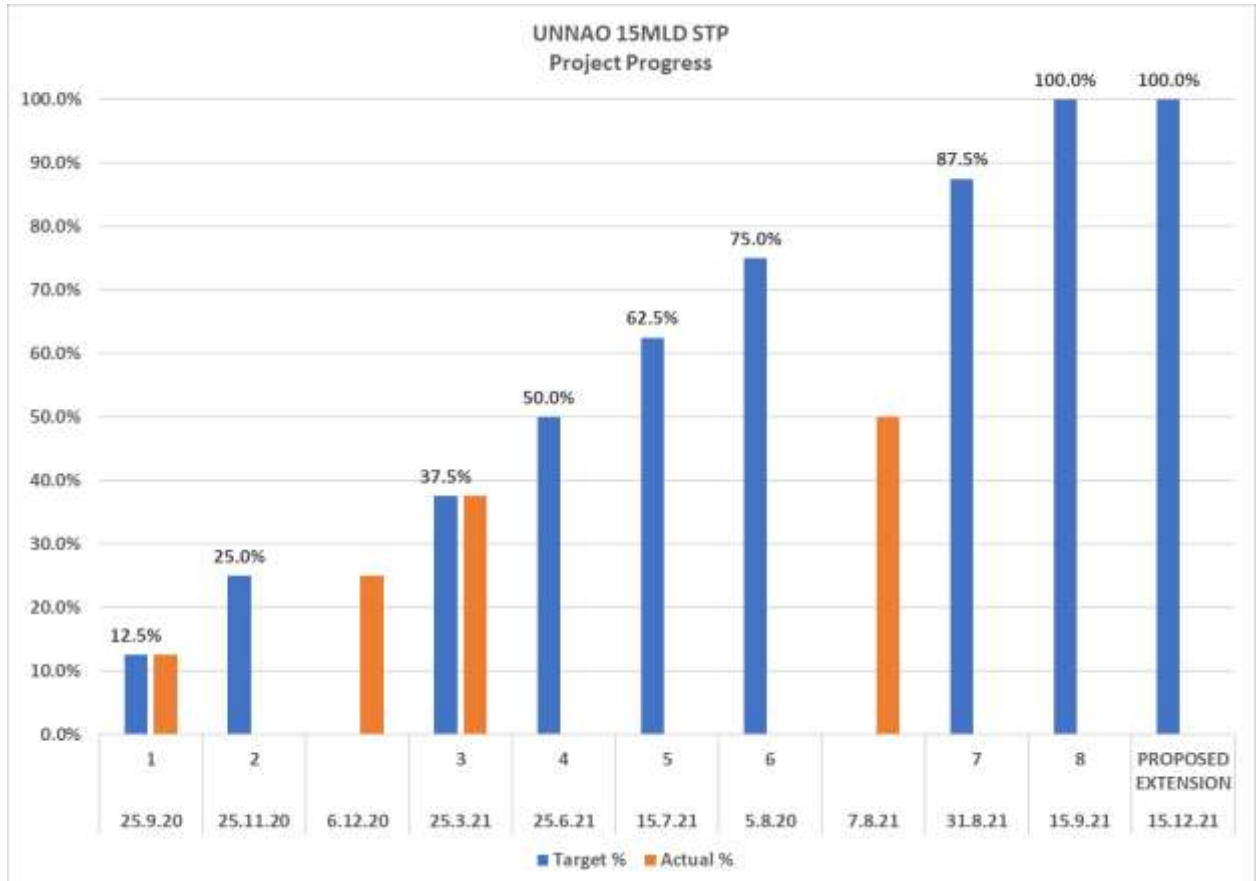
SBR



IPS Sunder Nagar

6.2 MILESTONE WISE ACTIVITIES AND PROGRESS: UNNAO STP

- Total 96 nos. of manpower / workers deployed at the site. KRMPPL need to increase the manpower up to 250 as directed during NMCG meetings on dated 28.09.2021 and in JMD meeting at Lucknow on 03.09.2021, so that simultaneous works on multiple site could be started to achieve the target on time;
- 1st, 2nd and 3th milestone have been completed. 4th milestone completion was due on dated 25.06.2021 which was completed on 07.08.2021. LD for 43 have been imposed on KRMPPL;



- 5th, 6th & 7th milestones were due on 15.07.2021, 05.08.2021 and 31.08.2021 which have been missed by KRMPPL. Total progress till October 2021 is 57%. Out of total 8 milestones, till date only 4 milestones have been achieved by the Concessionaire. It is to be noted that final i.e. 8th milestone completion was due on 15.09.2021 but due to very less manpower and absence of required material & machinery, desired progress was not achieved.
- As per the direction given by JMD, UPJN Lucknow during meeting dated 03.09.2021, balance works of the STP were to be completed by 15th Dec 2021. For that KRMPPL had submitted a balance work plan which was vetted by the STC on 10.09.2021. But till date, progress of balance work plan is very slow and unsatisfactory.
- To complete the balance works for any structure/unit of STP; KRMPPL has been asked to submit day wise schedule with detail of activities like steel binding, shuttering, concreting and de-shuttering for achieving the balance works of STP on time. STC along with UPJN have

provided a format for the same to KRMPL. Signed copy of balance works schedule with day wise activities is still to be submitted by KRMPL.

- Approx 2100m sewer has been laid out of 3.2km. Highway road cutting permission for trenchless laying of sewer has been given by PWD.
- 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

Milestone	Schedule Completion date	Actual completion date	Milestone Amount	Targeted Progress till 31.10.2021		
				Milestone Amount	% Target	% Achieved
1st milestone	25.09.2020	25.09.2020	478,36,250.00	478,36,250.00	12.50%	12.50%
2nd milestone	25.11.2020	06.12.2020 6 days LD	478,36,250.00	478,36,250.00	12.50%	12.50%
3rd Milestone	25.03.2021	25.03.2021	478,36,250.00	478,36,250.00	12.50%	12.50%
4th Milestone	26.06.2021	07.08.2021 43 days LD	478,36,250.00	437,25,407.67	12.50%	11.4%
5th Milestone	15.07.2021	Not completed	478,36,250.00	146,00,009.23	12.50%	3.8%
6th milestone	05.08.2021	Not completed	478,36,250.00	169,89,277.84	12.5%	4.4%
7th milestone	31.08.2021	Not completed	478,36,250.00	8,29,675.53	12.5%	0.2%
8th milestone	15.09.2021	Not completed	478,36,250.00	-	12.5%	0.0%
Overall Progress			3826,90,000.00	2196,53,120.26	100%	57.4%
Total %			100.00%		100%	57.4%

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

TABLE 6.2: MILESTONE WISE PROGRESS – 15 MLD UNNAO STP

SN.	Description of Items	Milestone-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)		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21)	
		%	Amount	%	Amount	%	Amount	%	Amount
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								
9	Wall 50% of total lift work	100%	27,46,137.60						
10	Walls (balance 50% of Total Lift work)	85%	23,34,216.96						-
11	Walkway/Platform	30%	8,23,841.28						-
12	Piping & fitting works								-
13	Testing /Finishing works								-
ii	Sludge Thickener Area								
1	Site Clearance								-
2	Excavation								-
3	PCC								-

SN.	Description of Items	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)		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21)	
		%	Amount	%	Amount	%	Amount	%	Amount
4	RCC Foundation Wall/base slab								-
5	Wall 50% of total lift work								-
6	Walls (balance 50% of Total Lift work)								-
7	Testing /Finishing works								-
iii	Supernatant Sump Area								
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								
1	Site Clearance								-
2	Excavation								-
3	PCC								-
4	RCC Foundation/Raft								-
5	Wall 50% of total lift work								-
6	Walls (balance 50% of Total Lift work)								-

SN.	Description of Items	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)		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21)	
		%	Amount	%	Amount	%	Amount	%	Amount
7	Baffle Walls work								-
8	Testing /Finishing works								-
v	Air Blower Room Area								
1	Site Clearance								-
2	Excavation								-
3	PCC								-
4	RCC Foundation/column footing								-
5	Column & Beam								-
6	RCC Roof Slab								-
7	Cable Trench Work								-
8	RCC Ground floor Grade Slab								-
9	Brick work								-
10	Plaster								-
11	Testing/Finishing work								-
vi	Staff Quarter Area (G+1)								
1	Site Clearance								-
2	Excavation								-
3	PCC								-
4	RCC Foundation/column footing								-

SN.	Description of Items	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)		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21)	
		%	Amount	%	Amount	%	Amount	%	Amount
5	Column & Beam								-
6	RCC Ground floor Slab								-
7	RCC 1st floor Slab								-
8	RCC Roof Slab								-
9	Brick work								-
10	Plaster	30%	20,100.00						-
11	Plumbing, fixtures , sanitary works, AC work								-
12	Electrification work								-
13	Finishing works								-
vii	Guard Room Area								
1	Site Clearance								-
2	Excavation								-
3	PCC								-
4	RCC Foundation/column footing								-
5	Column & Beam								-
6	RCC Ground floor Slab								-
7	RCC Roof Slab								-
8	Brick work								-
9	Plaster								-

SN.	Description of Items	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)		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21)	
		%	Amount	%	Amount	%	Amount	%	Amount
10	Plumbing, fixtures								-
11	Sanitary works, AC work								-
12	Electrification work								-
13	Finishing works								-
viii	Chlorination Room Area								
1	Site Clearance								-
2	Excavation								-
3	PCC								-
4	RCC Foundation/Column footing								-
5	Column & Beam								-
6	Ground floor Slab								-
7	Roof Slab								-
8	Brickwork								-
9	Plaster								-
10	Testing/Finishing works								-
ix	Admin Bldg Area (G+1)								
1	Site Clearance								-
2	Excavation								-
3	PCC								-

SN.	Description of Items	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)		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21)	
		%	Amount	%	Amount	%	Amount	%	Amount
4	Column footings/Foundation								-
5	Column & Beam up to First Floor	100%	1,18,438.05						-
6	1st Floor Slab	100%	1,35,357.77						-
7	Column & Beam First Floor to Roof Slab			43%	50,928.36				-
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)								
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								-

SN.	Description of Items	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)		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21)	
		%	Amount	%	Amount	%	Amount	%	Amount
8	Roof Slab		-						-
9	Brickwork								-
10	Plaster								-
11	Piping & fittings Work								-
12	Testing/Finishing works								-
xi	Inlet Chamber Area								
1	Site Clearance								-
2	Excavation & PCC								-
3	RCC Foundation/Column footing								-
4	Column & Beam								-
5	RCC Slab	5%	15,691.32						-
6	RCC Wall								-
7	Testing/Finishing works								-
xii	Manual & Mechanica Fine Bar Screen Chamber Area								
1	Site Clearance								-
2	Excavation								-
3	PCC								-
4	RCC Foundation								-
5	Column & Beam								-

SN.	Description of Items	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)		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21)	
		%	Amount	%	Amount	%	Amount	%	Amount
6	RCC Slab								-
7	RCC Wall								-
8	Walkway/Platform								-
9	Testing/Finishing works								-
xiii	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	Testing/Finishing works								-
xiv	Parshall Flume Channel Area								
1	Site Clearance								-
2	Excavation								-
3	PCC								-
4	RCC Foundation								-

SN.	Description of Items	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)		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21)	
		%	Amount	%	Amount	%	Amount	%	Amount
5	Column & Beam								-
6	RCC Slab	10%	34,326.72						-
7	RCC Wall								-
8	Walkway/Platform								-
9	Piping & fitting Work								-
10	Testing								-
xv	Sludge Storage Platform Area								
1	Site Clearance								-
2	Excavation								-
3	PCC								-
4	Foundation Work								-
5	Finishing work								-
xvi	Transformer Yard Area								
1	Site Clearance								-
2	Excavation								-
3	PCC								-
4	Foundation Work								-
xvii	DG Shed Area								
1	Site Clearance								-

SN.	Description of Items	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)		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21)	
		%	Amount	%	Amount	%	Amount	%	Amount
2	Excavation								-
3	PCC								-
4	Foundation Work								-
xviii	EXTERNAL DEVELOPMENT								
	Boundary Wall with Gate								
1	Site Clearance								-
2	Excavation								-
3	PCC								-
4	RCC Column footing								-
5	RCC Column & Beam								-
6	Brickwork	3%	15,063.75						-
7	Plaster	25%	1,25,531.25						-
8	Retaining wall	24%	3,84,612.00	5%	80,127.50				-
9	Finishing Work								-
	Earthfilling, Internal Roads ,Landscaping								-
1	Earthfilling, Internal Roads ,Landscaping								-
B	I & D Work								
(i)	Approach Channel								
1	Excavation			15%	10,227.99				-

SN.	Description of Items	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)		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21)	
		%	Amount	%	Amount	%	Amount	%	Amount
2	PCC								-
3	RCC Foundation/Raft								-
4	wall								-
5	Testing/Finishing work								-
(ii)	Inlet Chamber								
1	Excavation								-
2	PCC								-
3	RCC Foundation/Raft								-
4	wall								-
5	Testing/Finishing work								-
(iii)	Screen Channel								
1	Excavation								-
2	PCC								-
3	RCC Foundation/Raft								-
4	wall								-
5	Testing/Finishing work								-
(iv)	Grit Chamber								
1	Excavation								-
2	PCC								-

SN.	Description of Items	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)		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21)	
		%	Amount	%	Amount	%	Amount	%	Amount
3	RCC Foundation/Raft								-
4	wall								-
5	Testing/Finishing work								-
(v)	Collection Chamber								
1	Excavation			20%	2,741.84				-
2	PCC								-
3	RCC Foundation/Raft								-
4	wall								-
5	Testing/Finishing work								-
C	MPS-40 MLD								
	Civil Work								
i	Construction of Raw Sewage Sump								
1	Site Clearance								-
2	Excavation								-
3	PCC								-
4	RCC Foundation/Raft								-
5	Wall 50% of total lift work	100%	6,87,220.00						-
6	Walls (balance 50% of Total Lift work)	50%	4,43,610.00	15%	1,33,083.00				-
7	Column & Beam								-

SN.	Description of Items	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)		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21)	
		%	Amount	%	Amount	%	Amount	%	Amount
8	Ground Floor Slab								-
9	Testing/Finishing work								-
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								-
2	Excavation								-
3	PCC								-
4	RCC Foundation/Raft								-
5	Wall 50% of total lift work	100%	1,84,837.50						-
6	Walls (balance 50% of Total Lift work)	90%	1,66,353.75						-
7	Column & Beam								-
8	Ground Floor Slab								-
9	Walkway/Platform								-
10	Testing/Finishing work								-
D	SEWER SYSTEM AREA (3.2 Km)								

SN.	Description of Items	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)		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21)	
		%	Amount	%	Amount	%	Amount	%	Amount
1	Site Clearance								-
									-
2	Supply of pipes								-
3	Excavation and Laying of pipes including bed preparation & backfilling	17%	9,40,298.93	23%	12,72,169.15	15%	8,29,675.53		-
4	Manholes	5%	1,84,372.34		-		-		-
5	Flow/Hydraulic Testing								
6	Road restoration work								-
E	RISING MAIN PIPING WORK (100 m)								
1	Site Clearance								-
2	Supply of pipes								-
3	Cutting,Excavtion,Laying of Pipes, backfilling								-
4	Testing								-
F	EFFLUENT DISPOSAL SYSTEM								
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								-

SN.	Description of Items	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)		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21)	
		%	Amount	%	Amount	%	Amount	%	Amount
G	E&M WORK								
i)	GRIT CHAMBER AREA								-
	A.On supply - Grit Scraper Mechanism								-
	B.On Installation - Grit Scraper Mechanism								-
ii)	SLUDGE THICKENER AREA								-
	A.Supply - Sludge Thickener	100%	12,80,000.00						-
	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%	5,60,000.00						-
	D.Installation - Hoist								-
	E.Supply - Pumps & Motors(MEP)								-

SN.	Description of Items	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)		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21)	
		%	Amount	%	Amount	%	Amount	%	Amount
	F.Installation - Pumps & Motors(MEP)								-
	G.Supply - Gate & Valves(MPS)								-
	H.Installation - Gate & Valves(MPS)								-
	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)	50%	16,80,000.00						-
	B.Installation - Gate & 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			100%	154,40,000.00				-
	D.On Installation - Diffuser								-
	E.On supply - RAS Pump, SAS Pump								-

SN.	Description of Items	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)		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21)	
		%	Amount	%	Amount	%	Amount	%	Amount
	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	50%	11,60,000.00						-
	B. Installation - Chlorination system(Dosing pumps, chlorinators, Tonnes, Chemicals & Piping work								-
	C.Supply - Chlorine Nutrilisation Tank								-
	D.Installation - Chlorine Nutrilisation tank								-
	E.Supply - Hoist Work	100%	5,60,000.00						-
	F.Installation - Hoist Work								-

SN.	Description of Items	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)		Achieved Milestone-8 (From 1st Sep'21 to 15th Sep.'21)	
		%	Amount	%	Amount	%	Amount	%	Amount
xi)	CENTRIFUGE HOUSE & FEED PUMP AREA								-
	A.On supply -Centrifuge & Feed Pump								-
	B.On Installation -Centrifuge & Feed Pump								-
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								
1	Trial Run & Commissioning								
			146,00,009.23		169,89,277.84		8,29,675.53		-

PHOTOGRAPHS OF UNNAO STP SITE



MPS shuttering & Steel binding works



Centrifuge Building Column & Beam works



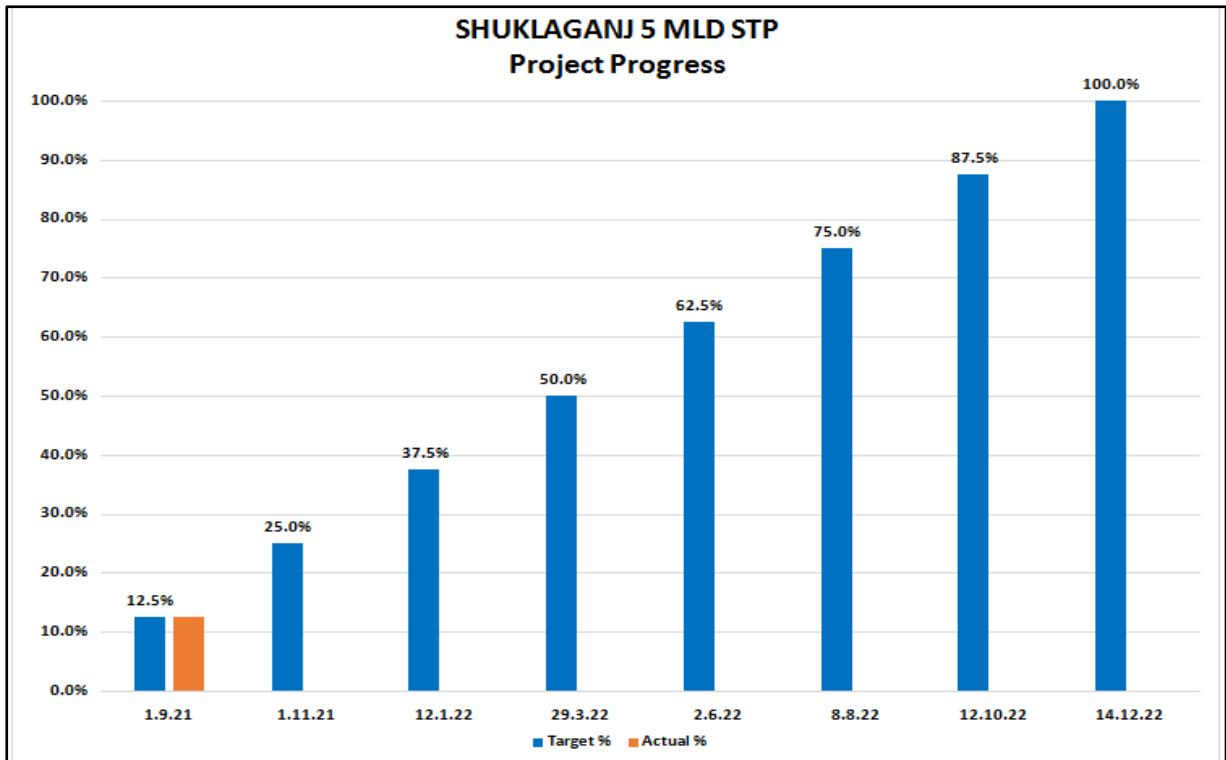
I&D site pipe shifting



Supernatant Sump unit

6.3 MILESTONE WISE ACTIVITIES AND PROGRESS: SHUKLAGANJ STP

- Total manpower deployed at site – 20-25 Nos.
- Total progress till 31.10.2021 was found approx 13.5% against the target of 25%.
- At present 2nd milestones is in progress which is scheduled to be completed on 1st Nov. 2021. It is to be noted that 1st milestone was completed by considering additional works of 2nd milestone. Hence works pertaining to 2nd and 3rd milestones are being executed.
- Milestone 1 complete on 01.09.2021. Total progress till date is approx 13.5% out of target of 25%. KRMPPL needs to expedite the progress by increasing the manpower and working on multiple fronts.



Progress of Work till 31.10.2021

SN	Proposed Works of STP as per Construction Plan	Progress of Works as per Milestone 1&2 till 01-11-2021	Actual Progress till 31-10-2021
i)	SBR Basin Area		
1	Site Clearance	100%	100%
2	Excavation wall footing	100%	100%
3	PCC wall footing	80%	-
4	RCC Foundation/Raft of wall	26%	-
ii	Chlorination Tank Area		
1	Site Clearance	100%	100%
2	Excavation	100%	-
3	PCC	100%	-
4	RCC Foundation/Raft	100%	-
iii	Chlorination Room Area		
1	Site Clearance	100%	100%
2	Excavation	100%	-

SN	Proposed Works of STP as per Construction Plan	Progress of Works as per Milestone 1&2 till 01-11-2021	Actual Progress till 31-10-2021
3	PCC	100%	-
4	RCC Foundation/Column footing	100%	-
5	Column & Beam	100%	-
iv	Guard Room Area		
1	Site Clearance	100%	100%
2	Excavation	100%	100%
3	PCC	100%	100%
4	RCC Foundation/column footing	100%	100%
5	Column & Beam	100%	100%
v	Admin Bldg Area (G+1)		
1	Site Clearance	100%	100%
2	Excavation	100%	70%
3	PCC	100%	-
4	Column footings/Foundation	80%	-
vi	Air Blower Room Area		
1	Site Clearance	100%	100%
2	Excavation	100%	-
3	PCC	100%	-
vii	Staff Quarter Area (G+1)		
1	Site Clearance	100%	100%
2	Excavation	100%	100%
3	PCC	100%	-
4	RCC Foundation/column footing	100%	-
5	Column & Beam up to ground floor slab	100%	-
viii	Sludge Thickener Area		
1	Site Clearance	100%	100%
2	Excavation	100%	100%
3	PCC	100%	100%
4	RCC Foundation Wall/base slab	100%	100%
ix	Supernatant Sump Area		
1	Site Clearance	100%	100%
2	Excavation	100%	100%
3	PCC	100%	100%
4	RCC Foundation wall/base slab	100%	100%
5	Wall 50% of total lift work	100%	20%
x	EXTERNAL DEVELOPMENT		
	Boundary Wall with Gate		
1	Site Clearance	100%	100%
2	Excavation	60%	100%
3	PCC	50%	100%
4	RCC Column footing	50%	100%
5	RCC Column & Beam	46%	80%
6	Brickwork	20%	2%
7	Plaster	15%	-
B	MPS-20 MLD		
	Civil Work		
i	Construction of Raw Sewage Sump		

SN	Proposed Works of STP as per Construction Plan	Progress of Works as per Milestone 1&2 till 01-11-2021	Actual Progress till 31-10-2021
1	Site Clearance	100%	100%
2	Excavation	100%	40%
3	PCC	100%	-
4	RCC Foundation/Raft	100%	-
ii	Construction of Inlet Chamber & Screen Channel		
1	Site Clearance	100%	100%
C	SEWER SYSTEM AREA		
2	Supply of pipes	90%	55%
3	Excavation and Laying of pipes including bed preparation & backfilling	20%	-
D	E&M WORK		
i)	GRIT CHAMBER AREA		
	A. On supply - Grit Scraper Mechanism	100%	-
ii)	MEP		
	C. Supply - Hoist	100%	-
	E. Supply - Pumps & Motors(MEP)	100%	-

- On 27.10.2021, there was reporting of flooding around the STP campus area due to high rise in the River Ganga Water. On 27th Oct 2021 night there was again rise in the level of Ganga River and water flooded STP area also. Due to which construction works of STP got affected. It is to be noted that HFL of Shuklaganj site is 114 and present water level during flooding was around 110. The flooding is not directly due to river water but due to bank erosion and surface runoff through nearby areas;



News of high rise in Ganga River levels in Newspaper dated 27.10.2021**Flooding at nearby STP area**

- On 27th Oct 2021 there was reporting of flooding due to rise in Ganga River in nearby and surrounding areas of the 05 MLD STP campus. UPJN and STC team reached at the site and inspected the flood situation. It was observed that due to high rise in the River Ganga Water flooding has occurred.

**Flooding inside STP campus on 27.10.2021**

- It is to be noted that HFL of Shuklaganj site is 114.075 and present water level during flooding was around 110.5. **The flooding in Ganga River is due to discharge of monsoon water in upstream hill region which resulted in sudden rise in Ganga River water levels. It caused bank erosion of Ganga River in nearby areas of Shuklaganj and with surface runoff through nearby areas flood water entered into the STP campus on 27th Oct 2021 night. The construction work of the 05 MLD STP got affected and stopped from 27.10.2021.**



Flooding at STP Site on 27.10.2021



Netua Grameen, Uttar Pradesh, India

Unnamed Road, Shuklaganj, Netua Grameen, Uttar Pradesh

209862, India

Lat 26.470861°

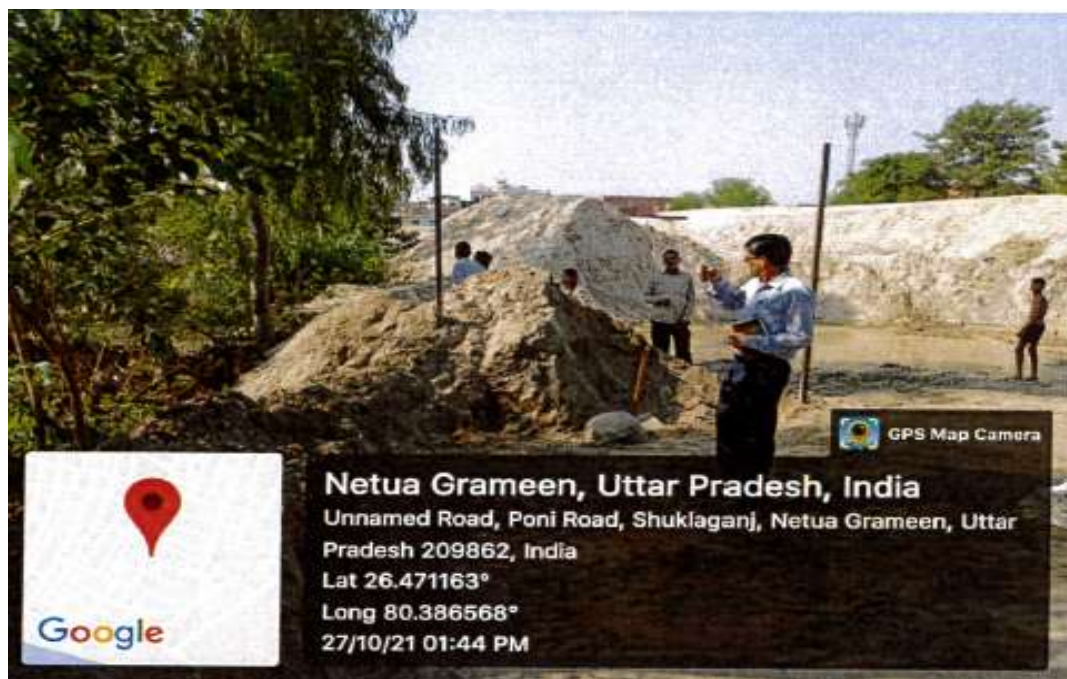
Long 80.388222°

27/10/21 09:28 AM



Flooding inside STP campus on 27.10.2021

- Joint visit by UPJN and STC was conducted on dated 27.10.2021 and 28.10.2021 and KRMPL was instructed to construct a retaining wall around the STP campus to prevent the entry of flood water into the STP campus. Also, KRMPL was directed to start the dewatering and mud cleaning activity inside STP campus so that construction work could be resumed.
- KRMPL started to construct earthen bund and strengthen the existing earthen bund so that flood water could be obstructed and prevented to enter the STP area.



Earthen Bund Construction near STP

7. PRESENT STATUS AND ISSUES OF EXISTING STPS

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

- All BEPs are approved except Control Philosophy of the plant as concessionaire has submitted the revised Control Philosophy on the basis of Advance sludge handling system which is on hold till approval of Advance sludge handling system.
- A meeting was held on 10.10.2021 in the campus of 130 MLD STP, under the chairmanship of Shri Ashok Kumar Singh, IAS Executive Director (Projects), NMCG, regarding progress of HAM projects.

It was decided in the meeting that:

- i. ED (Projects) directed the concessionaire to not raise the issues which were resolved in the past anymore.
- ii. ED (Projects) directed the UPJN and concessionaire to come to consensus and resolve of Electro mechanical equipments.
- iii. ED (Projects) directed the concessionaire to replace all return sludge pumps on war footing basis as these are critical for stabilizing the Aeration tanks
- iv. ED (Projects) directed the concessionaire to replace all 18 nos. of aerators with new one at the earliest.
- v. ED (Projects) raised concern over absence of concessionaire's process engineer and pointed out that a total of 425 MLD STP has to be operated and KRMPL does not have any process expert at site. This is not acceptable. **ED (Project) directed them to immediately deploy process expert to be stationed permanently** at Kanpur.
- vi. ED (Projects) said in the meeting that the concessionaire is lacking experience in running the plant on seeing the plant operation & maintenance and also suggested them to visit Rajapur STP at Prayagraj under Adani Infrastructure for getting 3 an idea of proper running of the plant.
- vii. ED (Projects) directed the concessionaire to rectify the malfunctioning in grit classifier immediately.
- viii. Concessionaire promised to stabilize 130 MLD STP within the next 7 to 8 days.
- ix. ED (Projects) directed the concessionaire to maintain the logbooks of each & every units on daily basis.
- x. ED (Projects) directed the concessionaire to remove the sludge from the units (Aeration lagoon, PST & FST) at the earliest. Also submit date & unit wise sludge removal data on daily basis to UPJN & PE. ED (Projects) directed UPJN to inform directly to him if the sludge removal activity is not followed by concessionaire.
- xi. ED (Projects) directed the concessionaire to use drying bed & pond for process sludge disposal and use super sucker for removing sludge accumulated in the units to be renovated (like PST, Aeration lagoon & FST).
- xii. ED (Projects) asked about the status of equipment delivery for PST & FST.
- xiii. Concessionaire also promised to complete the equipment installation work of PST & FST by December end.
- xiv. ED (Projects) directed UPJN to discuss through a joint meeting and finalize the qty. and specifications of DFGs/ Gas generators/ DG sets.
- xv. ED (Projects) directed UPJN to finalize and give clearance for scrubbing & flaring system after thorough review at the earliest..
- xvi. ED (Projects) directed PM (E&M) UPJN, PE & KRMPL to make a site visit and resolve the issue of qty. of pumps to be finalized.

REGARDING E&M ITEMS APPROVAL:

- Concessionaire submitted the compliance letter for Supernatant pumps which PE has submitted their comments vide STC letter no. 1173 dated 01.10.2021.
- Concessionaire submitted the compliance letter for replacement of DFG which PE has submitted their comments vide STC letter no. 1175 dated 04.10.2021.
- Concessionaire submitted the compliance letter for LT Panel & LPBS which PE has submitted their comments vide STC letter no. 1179 dated 07.10.2021.
- PE has submitted their suggestion to UP Jal Nigam to direct the concessionaire to providing the procedures and record and reports of E&M equipment vide STC letter no. 1180 dated 09.10.2021.
- PE has submitted their suggestion to UP Jal Nigam to direct the concessionaire to revise the BEP for Electrical & Instrumentation items vide STC letter no. 1184 dated 14.10.2021.
- Concessionaire submitted the GA, datasheet, QAP for Return sludge pump which PE has submitted their recommendation vide STC letter no. 1185 dated 14.10.2021
- PE has submitted their suggestion to UP Jal Nigam to direct the concessionaire to providing their Process expert presence from 25th to 29th October 2021 for joint meeting with our process expert, Mr. Satish Kamaraju vide STC letter no. 1187 dated 16.10.2021
- PE has submitted their suggestion to UP Jal Nigam to direct the concessionaire to increase the manpower and expedite the work progress so that scheduled work could be completed by 31 Oct 2021, vide STC letter no. 1190 dated 16.10.2021.
- PE has submitted their suggestion to UP Jal Nigam to direct the concessionaire to providing the painting procedure for approval vide STC letter no. 1194 dated 19.10.2021.
- Concessionaire submitted the GA, datasheet & QAP of pumps at Nawabganj pump house no.1 which PE has submitted their recommendation vide STC letter no. 1195 dated 19.10.2021.
- Concessionaire submitted the GA, datasheet & QAP of pumps at Nawabganj pump house no.2 which PE has submitted their comments vide STC letter no. 1199 dated 19.10.2021.
- PE has submitted their suggestion to UP Jal Nigam to direct the concessionaire to submit the Monthly progress reports of 130 MLD STP vide STC letter no. 1202 dated 20.10.2021
- PE has submitted their suggestion to UP Jal Nigam to direct the concessionaire to submit the incident report and corrective action plan vide STC letter no. 1206 dated 21.10.2021
- Concessionaire submitted the completion of 1st milestone for Jajmau 130 MLD STP which PE has submitted their observation vide STC letter no. 1214 dated 26.10.2021.
- Concessionaire submitted the earthing layout which PE has submitted their observation vide STC letter no. 1216 dated 30.10.2021.
- Concessionaire submitted the compliance letter for LT Panel & LPBS which PE has submitted their comments vide STC letter no. 1218 dated 30.10.2021.
- PE has submitted their suggestion to UP Jal Nigam to direct the concessionaire to providing the procedures and record and reports of E&M equipment vide STC letter no. 1217 dated 30.10.2021.

Compliance of Inspection Report:-

PE/UPJN inspected 130 MLD Jajmau STP on the following dates

1. 02.09.2021- inspection report issued on 06.09.2021
 2. 18.09.2021- inspection report issued on 24.09.2021
 3. 30.09.2021- inspection report issued on 01.10.2021
 4. 07.10.2021-
 5. 10.10.2021
 6. 25.10.2021
 7. 28.10.2021
 8. 29.10.2021
- } inspection report issued on 31.10.2021

RENOVATION WORK:-

Collection Chamber:-

- All gates need to be replaced.
- Screen chamber Retrofication work completed without testing, commissioning, permission of UP Jal Nigam /STC.

Fine Screen Chamber (Mechanical / Manual):-

- 03 nos Mechanical Fine screens has been installed by KRMPL without getting checked & taking any permission for installation /Erection work of Mechanical Fine screen system from PE/UPJN.
- 01 nos Manual screen has been installed by KRMPL without getting checked & taking any permission for installation /Erection work of Manual screen system from PE/UPJN.
- KRMPL has not conducted any testing before installation work of Mechanical & Manual screens.
- Out of 03 nos. Manual & Mechanical screens installed, Civil structure strengthen work not verification by STC
- Need to be replacing the gates.
- Finishing works need to be done properly.
- Proper Lighting need to be provided at Screen area.
- Level scale should be properly clean and marking should be clearly visible.
- Only 2 labours found at the screen and PE suggested increasing the number of manpower for efficient screening.
- Screened material need to be dispose regularly.
- MS Fabrication equipment & tools along with MS Shed also corroded & losses its strength.
- In MS shed pipes are corroded & Colour of shed also worn out.
- Mechanical Screen not working with auto system and without sensor .Need to be fixed the auto system immediately.
- New Cables should be laid properly in cable trays

Grit Chamber

- Grit removal System no.1, 02 & 03 has been emptied by M/S KRMPL without permission from PE/UPJN.

- 02 nos. Grit removal System has been installed by KRMPL without getting checked & taking any permission for installation /Erection work of Mechanical Fine screen system from PE/UPJN.
- Classifier no.02 & 03 are has not been installed as per approved drawing.
- Organic pump no.02 & 03 are has not been installed as per approved drawing. Organic system shall be replaced as per approved drawing.
- Regarding E&M equipments installation works, KRMPL is required to schedule inspection of E&M works with PE and further obtain approval of UPJN before testing, commissioning and charging the Raw sewage in respective E&M equipments. Only upon inspection and witnessing dry runs by PE and satisfactory completion of proposed works.

7.2 43 MLD JAJMAU PHASE II

Schedule handing over date for 43 MLD Jajmau phase-II facilities was 1.10.2019 as per CA. As per CA COD for 130 MLD Jajmau Phase-I and 43 MLD Jajmau phase-II was same as per CA, therefore the Concessionaire was reluctant to take over 43 MLD Jajmau phase-II .NMCG has separated COD of Jajmau by NMCG letter no.F.No.pr-12012/7/2018/PPP/NMCG dated 02.08.2021. Ultimately 43 MLD Jajmau phase-II facilities were takeover by KRMPL conditionally on 25.08.2021. COD for 43 MLD Jajmau phase-II has not been declared yet. The KRMPL has not submitted the list of adequate staff deployed for proper O&M of 43 MLD Jajmau phase-II facilities yet.

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

Following points are to be addressed by the KRMPL:-

i. Compliance of Inspection Reports.

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

1. 21.09.2021- inspection report issued on 30.09.2021
2. 30.09.2021- inspection report issued on 01.10.2021
3. 08.10.2021, 25.10.2021 & 28.10.2021 - inspection report issued on 30.10.2021
4. ED (Technical) Mr. D.P Mathuria inspected on 08.10.2021 and ED (Project) Mr. Ashok Kumar Singh, IAS inspected on 10.10.2021.MOM of Both inspection has been issued by STC Letter No.1215 dated 27.10.2021
5. Ms. Nidhi Dwivedi,Project Officer(Technical), NMCG, Mr. Bhasker ray ,TL and Mr. Dinesh Chamoli, O&M Expert ,PMC inspected site on 28.10.2021.

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

ii. O&M Manual

- KRMPPL has submitted O&M Manual vide KRMPPL letter no.1816 dated 18.10.2021 ,O&M Manual is under review.
- KRMPPL has not submitted Schedule Maintenance plan for first year of 43 MLD Jajmau Phase-II facilities as per STC letter no. 1103 dated 31.08.2021.

iii. Insurance Policies

KRMPPL has not submitted industrial all risk insurance policies for replacement value of 43 MLD Jajmau Phase-II facilities yet as per STC letter no. 1109 dated 02/09/2021.

iv. Performance of Plant

KRMPPL has not started submitting Monthly performance report for 43 MLD Jajmau Phase-II as per STC letter no. 1160 dated 25/09/2021.

v. Mechanical Screens (Fine Screens)

- Both Mechanical screens & conveyer belt found non operational every time when officials of PE/UPJN/NMCG visited the site. It was started when asked by the visiting team.
- Auto System of both Mechanical Screens has not been repaired by KRMPPL yet.

vi. Grit removal System

Grit removal system is found non functional due to classifier gear system was broken. Most of the time it was found that total flow was being by passed.

vii. Sludge Digester

Out of 4 nos. sludge digester mixers installed, all are not in working condition.

viii. Air Blower system:- Out of 3 nos. Air Blower installed, no.2. air blower was not in working condition since 29.09.2021.

7.3 210 MLD Bingawan STP

The schedule date of handover of 210 MLD Bingawan Facilities as per CA was 01/04/2019 but actually could be handed over on 08/07/2019. From handover date itself it was observed and informed from time to time to Concessionaire that the operation and maintenance of the plant was not up to the mark. Commercial Operation Date of Bingawan facility declared by UPJN as 10.08.2020 vide their letter no. 2324/w-37/100 dated 10.09.2020.

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

Following points need to be addressed:-

I. Compliance of Inspection Reports

- PE/UPJN inspected 210 MLD Bingawan STP on the following dates
 1. 12.11.2020- inspection report issued on 21.11.2020
 2. 02.01.2021- inspection report issued on 19.01.2021
 3. 02.02.2021- inspection report issued on 04.02.2021
 4. 15.06.2021- inspection report issued on 23.06.2021
 5. 12.07.2021- inspection report issued on 20.07.2021
 6. 06.08.2021- inspection report issued on 10.08.2021
 7. 18.08.2021
 8. 25.08.2021
 9. 26.08.2021
 10. 31.08.2021
 11. 10.10.2021
 12. 26.10.2021
 13. 29.10.2021

} inspection reports issued on 31.08.2021

} inspection reports issued on 31.10.2021 (inspection report enclosed)
- Compliance of the above inspection reports have not been submitted by KRMPL yet.

- 23.09.2021 – inspection report issued on 27.09.2021

Compliance of the above inspection report was submitted by KRMPL vide KRMPL letter no. 1790 dated 06.10.2021 (received on 07.10.2021) which was verified on the same date i.e., 07.10.2021 and it was found that some of the items informed rectified by KRMPL but found not rectified. It shows that KRMPL submitting false and misleading compliance report.

- 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 October 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. Schedule Maintenance works

- KRMPL has not done any schedule maintenance works for year-1 as approved.
- KRMPL has now submitted Schedule maintenance programme for year 02 vide their letter 1782 dated 29.09.2021 which is not to be considered till the plant is fully operational as the plant is in breakdown condition at present.

IV. Insurance Policies

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

V. MPS

- Both mechanical coarse screens are not functional from 28.01.2020

- Out of 12 nos. pumps installed, only 06 pumps are working properly and out of the rest 6 nos. pumps, pump no. 3,4,12 are tripping in a minute due to soft starter and pump no. 7,8,9 are not working.
- KRMPL had promised to complete Butterfly valve chamber near MPS by 15.08.2021 but not completed yet.
- Main pump house sump has been filled with floating garbage since both mechanical screens are not working. Manual cleaning is also not being done.

VI. Inlet Chamber

- Out of 3 nos. fine mechanical screen, 1st one had not been working since 28.01.2020 and rest two have not been functioning properly.
- Out of 04 grit removal system, the ORP of two grit classifier not working and Grit classifier no. 1 & 2 are not functioning properly.
- 02 nos Chute have been installed by KRMPL for grit removal.
- Many of the outdoor lights are not working which has not been replaced yet.
- Parshall flume ultrasonic level sensor along with measuring scale had not been installed yet since handover dated 08.07.2019
- Some of the leakages in Civil Structure have not been attended by KRMPL.

VII. Cleaning and reactivation of UASB Reactors

All the KPIs are not being met during the month of Oct. 2021. Out of 16 reactors 6 nos. UASB reactors (reactor no. 1, 2, 3, 4, 5 & 8) have been cleaned & refilled for reactivation. Sludge blankets are still not formed in the above reactors. Reactors 6 was taken up for cleaning from April 2021, Reactors no. 9, 10,11, 12 were taken up for cleaning from July 2021 & Reactor no.16 has been taken up for cleaning from Sept. 2021. Remaining 04 reactors are filled with sludge. KRMPL had promised during NMCG team visit in July 2021 to clean 1 reactor each month but failed to comply.

From July-2021 only one reactor no.5 has been cleaned till date.

VIII. Belt Filter Press

All 3nos. Belt Filter Press system has been made functional by KRMPL but only 2 nos. BFP are being used at a time. Only 02 nos. trolleys are available at site. One no. spare trolley is also required. Out of 3 nos. poly dosing pumps installed, 1 no. is not in working condition due to diaphragm portion is fully damaged. This matter has been pending since 07.10.2020.

IX. Sludge Disposal

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

X. Joint Sampling and Testing by NABL Lab.

- Testing report from Spectra research Lab ventures (P) Ltd. of the Joint sample taken on 29.09.2020, 16.10.2020, 18.03.2021, 09.04.2021, 26.06.2021, 15.07.2021, 30.07.2021 and 17.09.2021 has not been submitted by concessionaire.

- KRMPL has started taking weekly samples from August 2021.
 - Testing report from Spectra research Lab ventures (P) Ltd. of the Joint sample taken on 03.09.2021, 10.09.2021 & 24.09.2021 have been submitted by KRMPL (Reports are enclosed).
- XI. Gas Holder**
- Out of 2 nos. gas holder installed, both gas holder is not in working condition since 23.09.2021.
- XII. Gas Scrubber Unit**
- Scrubber is not working since 28.01.2020.
- XIII. Housekeeping:-**
- Even after instructions by NMCG team on 08.07.2021 there is not any improvement in housekeeping and still in very bad condition.
 - Also in Oct. 2021, ED (Technical), ED (Projects) & Project Officer (T) of NMCG have visited the site and raised concern over not deploying enough man power for housekeeping works.
- XIV. 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. Now again KRMPL has submitted the schedule maintenance plan for year 2nd vide KRMPL letter no. 1782 dated 29.09.2021. This will be considered after the plant is fully operational.
- XV. KPIs Adherence Report**
- KPIs Adherence Report for the month of Sept.-2021 submitted by PE (based on the lab results for the month of Sept.-2021) vide letter no. 1207 dated 22.10.2021.

7.4 42 MLD SAJARI STP

42 MLD Sajari facilities were handed over to KRMPL on 29/05/2019 but as per CA schedule handing over date for Sajari Facilities is Effective Date i.e. 11/10/2019. Therefore, ultimate handing over date of Sajari has been treated as effective date i.e. 11.10.2019. Till Dec. 2019 KPIs (especially COD) of treated effluent was not under control and KRMPL was asked by NMCG to suggest improvements for COD to be within prescribed limit. KRMPL proposed to add one additional Aeration Tank. Mr. Madhav Kumar NMCG requested Mr. S. Kamaraju, Process Expert STC to visit the Sajari Plant to give his recommendations. Mr. S. Kamaraju Process Expert visited the Sajari Plant on 27-28 Dec 2019 and concluded that the Sajari Plant is designed for all 12 aerators to run without any standby but the plant was being run with 8 aerators only keeping 4 aerators as stand by. All the 12 aerators got functional on 04/01/2020 in the presence of Mr. J. P. Tripathi, O & M Engineer STC. After that it has been observed that

since 04/01/2020 all the parameters of treated effluent are within prescribed limits except for the days when parameters of raw sewage are above the prescribed limits for which concessionaire is not responsible. Hence there is no need for any improvement in the plant as suggested by KRMPL.

Commercial Operation Date was declared as 20.06.2020 vide UPJN letter no. 1545/w-20/127 dated 17.06.2020 and again revised as 11.10.2019 i.e. effective date of the CA by UPJN vide their letter no. 2574/w-20/267 dated 26.09.2020. O&M charges from 11.10.2019 to sept.2020 have been paid to the concessionaire.

Following points are to be addressed by the KRMPL:-

i. Compliance of Inspection Reports.

- PE/UPJN inspected 42 MLD Sajari STP on the following dates
 1. 31.07.2021- inspection report issued on 04.08.2021
 2. 18.08.2021-inspection report issued on 27.08.2021
 3. 12.10.2021
 4. 27.10.2021
 5. 29.10.2021
 } inspection report issued on 31.10.2021 (inspection report enclosed)

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

6. 21.09.2021-inspection report issued on 29.09.2021

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

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 were within prescribed limit since 04.01.2020 but concessionaire started operating one stream from 22.06.2021. KPIs are not coming within prescribed limit from the month of Oct. 2021. Now KRMPL has started operating both the stream from 18.10.2021.

v. Mechanical Screens (Coarse & Fine Screens)

Auto system of one mechanical coarse screen has been installed but not functioning properly. Auto system of 2nd no. mechanical coarse screen is not installed yet. Auto system of both fine

mechanical screens is not functional.

vi. Main pumping Station

Raw sewage pump no. 02 is not operated since 31.07.2021. Pressure gauges of 2nd no. pump was not available and rest pressure gauges needs to be changed.

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 NABL Lab.

Testing reports from NABL accredited Laboratory Spectro Research Lab Ventures (P) Ltd of joint samples taken on 18.08.2020, 15.09.2020, 19.10.2020, 26.06.2021, 06.08.2021, 13.08.2021, 20.08.2021, 27.08.2021, 10.09.2021 & 17.09.2021 has not been received yet. Testing reports from Spectra research Lab ventures (P) Ltd. of the Joint sample taken on 03.09.2021 & 24.09.2021 have been submitted by concessionaire (Reports are enclosed).

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 not done any schedule maintenance works as per approved O&M manual for the first year. KRMPL has been submit the schedule maintenance programmes for the 2nd year vide letter no.1135 dated 06.04.2021.PE commented on schedule maintenance programmes - 2nd year vide letter no.788 dated 12.04.2021.KRMPL has been submitted compliance report on schedule maintenance programmes -2nd year vide letter no.1266 dated 20.05.2021.UPJN instructed KRMPL to resubmit revised schedule maintenance program for year-2 for Sajari facilities incorporating the comments of PE vide letter no.1489/w-20/102 dated 09.06.2021 and start the works of schedule maintenance by taking shut down of one stream altogether. KRMPL has been operating only one stream from 22.06.2021 but no labour force has been deployed to start schedule maintenance work yet.

xiii.KPIs Adherence Report

KPIs Adherence Report for the month of September-2021 has been submitted by PE vide letter no. 1208 dated 22.10.2021. Online Analyser report up to January month has been submitted by concessionaire.

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 KRMPL	Vetted by STC letter no. 1052 dated 12.08.2021	CP vetted by PE letter no.865/25.05.2021. Approved by UPJN letter vide no. 1379/WS-97/152 dated 09.06.2021	-
B	Rehabilitation and O&M for 15 years					
i	130 MLD STP - Jajmau (Phase I)	Approved except Control philosophy	GA & RCC design & drawing of CCT & TEPH is approved	-	The Concessionaire has submitted renovation plan on dated 28.05.2021. Approved by UPJN letter no. 1632/W-30/57 dated 24.06.2021 after rectification by KRMPL and STC is recommendation vide letter no. 931A dated 22.06.2021	-
SN	STP Facility	O&M Manual		Schedule Maintenance Programme		Remarks
C	O&M for 15 years					
i	43 MLD STP - Jajmau (Phase II)	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.				Handover Done
ii	42 MLD STP - Sajari	Approved	KRMPL has taken closure of 1 stream for schedule maintenance works of year-1 and year-2 from 22.06.2021. But no labour force has been deployed to start schedule maintenance works yet. Housekeeping is not proper and needs improvement.			-
iii	210 MLD STP - Bingawan	Approved	Schedule maintenance works as per approved O&M manual were to be started from 1/08/2020, but not started yet. 2nd year Schedule maintenance submitted by KRMPL vide letter no.936 dated 19.02.2021. STC commented on Schedule maintenance vide letter no.795 dated 15.04.2021. Schedule maintenance works are to be started after the plant is fully operational.			-

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)
01.10.2021	Regarding compliance for Supernatant pumps at 130 MLD STP Jajmau STP.	20.09.21 J-2580/W-30/83	01.10.2021 S-1173	11	20	-	-	Dr. Giridhar J.P.Tripathi Preetam Prasoon Priyesh Satendra Pankaj Rohit Ajay Rahul	1+1+1+1+1+1+1+1+1+1 +1	-	-	-	Requested UPJN to direct KRMPL to submit revised BEP.
02.10.2021	Gandhi Jayanti												
03.10.2021	Sunday												
04.10.2021	Observation on Monthly Activity Report of 42 MLD Sajari Facilities for the month of August- 2021.	20.09.21 K-1737	04.10.2021 S-1174	14	20	-	-	J.P.Tripathi Preetam Prasoon Priyesh Satendra Pankaj Rohit Ajay	1+1+1+1+1+1+1+1+1	-	-	-	Directed KRMPL to resubmit the monthly performance report for August 2021 incorporating the said points.
04.10.2021	Regarding replacement of	27.09.21 K-1775	04.10.2021 S-1175	07	20	-	-	Dr. Giridhar Preetam	1+1+1+1+1+1+1	-	-	-	Requested UPJN to direct

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)
	DFG at 130 MLD STP Jajmau STP.							Prasoon Priyesh Ajay Rahul					KRMPL to submit revised BEP.
04.10.2021	Observation on Monthly Activity Report of 210 MLD STP Bingawan Facilities for the month of August- 2021.	20.09.21 K-1736	04.10.2021 S-1176	14	20	-	-	J.P.Tripathi Preetam Prasoon Pankaj Rohit Ajay	1+1+1+1+1+1	-	-	-	Directed KRMPL to resubmit the monthly performance report for August 2021 incorporating the said points.
05.10.2021	Regarding compliance on comments of 2 nd lot Valve GAD, Tech data sheet & QAP for 30 MLD IPS & ID at Pankha for review & Approval.	30.09.21 K-1785	05.10.2021 S-1177	05	20	-	-	Dr. Giridhar J.P.Tripathi Preetam Priyesh Satendra Pankaj Rohit Ajay Rahul	1+1+1+1+1+1+1+1+1	-	-	-	Request UPJN to instruct KRMPL to provide as required.
06.10.2021	Pankha: 30 MLD STP: Site inspection Report of dated 5 th October,	-	06.10.2021 S-1178	-	20	-	-	Dr. Giridhar Preetam A.K.Seth Priyesh Satendra	1+1+1+1+1+1+1+1+1	-	-	-	Inspection report submitted by PE.

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	2021.							Pankaj Rohit Ajay Rahul					
07.10.2021	Regarding compliance for LT Panel & LPBS for 130 MLD Jajmau STP.	K-1560	07.10.2021 S-1179	-	20	-	-	Dr. Giridhar A.K.Seth Preetam Priyesh Satendra Pankaj Rohit Ajay Rahul	1+1+1+1+1+1+1+1+1	-	-	-	Request UPJN to direct KRMPL to respond at the earliest so that final recommendation of LT panel can be made.
08.10.2021	Submission of GA, Datasheet, wiring diagram, BOM & QAP of LT Panel for ICI Nallah and Sundar Nagar IPS.	07.10.21 K-1792	-	-	20	-	-	Dr. Giridhar J.P.Tripathi Preetam A.K.Seth Priyesh Satendra Pankaj Rohit Ajay Rahul	1+1+1+1+1+1+1+1+1+1	-	-	-	Under Review.
09.10.2021	Regarding Records, procedures and reports of E&M equipments for	-	09.10.2021 S-1180	-	20	-	-	J.P.Tripathi Preetam A.K.Seth Priyesh Satendra	1+1+1+1+1+1+1+1+1	-	-	-	Request UPJN to Instruct KRMPL to Provide as required.

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)
	all construction and renovation sites.							Rohit Ajay Rahul					
09.10.2021	Submission of MPR for the month of September 2021 for NMCG Project.	-	09.10.2021 S-1181	-	20	-	-	Dr. Giridhar A.K.Seth Priyesh Pankaj Rohit Ajay Rahul	1+1+1+1+1+1+1	-	-	-	MPR is submitted by PE.
10.10.2021	Sunday												
11.10.2021	Comments on compliance submitted by KRMPL for 210 MLD Bingawan STP.	05.10.21 K-1789	11.10.2021 S-1182	06	20	-	-	Dr. Giridhar J.P.Tripathi A.K.Seth Priyesh Satendra Pankaj Rohit Ajay Rahul	1+1+1+1+1+1+1+1+1	-	-	-	Comments submitted by PE.
12.10.2021	Proposal for additional man-months for PE during Construction Period, STC Kanpur	-	12.10.2021 S-1183	-	20	-	-	Dr. Giridhar J.P.Tripathi A.K.Seth Priyesh Satendra Pankaj Rohit	1+1+1+1+1+1+1+1+1	-	-	-	Comments submitted to NMCG 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)
	(APPENDIX-II, FORM 3 of PE AGREEMENT).							Ajay Rahul					
13.10.2021	Regarding comments/ recommendation of GA, Datasheet and QAP of Blending tank agitator for 130 MLD STP Jajmau.	13.10.21 J-2352/W-3/86	-	-	20	-	-	Dr. Giridhar J.P.Tripathi A.K.Seth Priyesh Satendra Pankaj Rohit Ajay Rahul	1+1+1+1+1+1+1+1+1	-	-	-	Under Review.
14.10.2021	Regarding revision of Electrical & Instrumentation items in BEP for various IPS and CSPS facilities of 130 MLD STP at Jajmau.	J-2580/W-30/83	14.10.2021 S-1184	-	20	-	-	J.P.Tripathi A.K.Seth Ajay Rahul	1+1+1+1	-	-	-	Requested UPJN to direct KRMPPL to submit revised BEP.
14.10.2021	Recommendation for Approval if GA, Technical datasheet & QAP for Return sludge pump at	14.10.21 K-1800	14.10.2021 S-1185	00	20	-	-	Dr. Giridhar A.K.Seth Priyesh Satendra Pankaj Rohit	1+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)
	130 MLD Jajmau STP.							Ajay Rahul					
15.10.2021	Dussehra Holiday												
16.10.2021	Request for issuance of variation order for unforeseen site situation at MPS, IPS ICI Nalla & Sundar Nagar and Sewerage works at 30 MLD STP Pankha.	27.09.21 J-2680/W-50/167	16.10.2021 S-1186	19	20	-	-	Dr. Giridhar Priyesh Satendra Pankaj	1+1+1+1	-	-	-	Request UPJN for necessary action.
16.10.2021	Meeting Schedule with Process Experts of KRMPL and STC for Improvements of STPs at Jajmau, Bingawan and Sajari.	-	16.10.2021 S-1187	-	20	-	-	J.P.Tripathi A.K.Seth Priyesh Pankaj Rohit Ajay Rahul	1+1+1+1+1+1+1	-	-	-	Instruct KRMPL to schedule a meeting with our process expert.
16.10.2021	Regarding status of completion of	-	16.10.2021 S-1188	-	20	-	-	Dr. Giridhar Priyesh Satendra	1+1+1	-	-	-	Request UPJN to direct KRMPL to

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7-6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	15 day's balance work for 15 MLD STP at Unnao.												increase manpower and expedite the work.
16.10.2021	Regarding status of completion of 15 day's balance work for 30 MLD STP at Pankha.	-	16.10.2021 S-1189	-	20	-	-	Dr. Giridhar Priyesh Satendra Pankaj	1+1+1+1	-	-	-	Request UPJN to direct KRMPL to increase manpower and expedite the work.
16.10.2021	Regarding Status of Renovation/ Construction Plan for completion of 1 st Milestone as on the target date of 15 Oct-2021 for Jajmau 130 MLD STP.	-	16.10.2021 S-1190	-	20	-	-	Dr. Giridhar J.P.Tripathi A.K.Seth Ajay Rahul	1+1+1+1+1	-	-	-	Request UPJN to direct KRMPL to increase manpower and expedite the work.
17.10.2021	Submission of GA, Datasheet, Wiring Diagram, BOM & QAP of LT Panel for ICI Nallah IPS and	11.10.21 J-2320/w-21/241	17.10.2021 S-1192	06	20	-	-	Dr. Giridhar J.P.Tripathi A.K.Seth Priyesh Satendra Pankaj	1+1+1+1+1+1+1+1+1	-	-	-	Reviewed and submitted our comments.

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	Sundar Nagar IPS for 30 MLD Pankha.							Rohit Ajay Rahul					
18.10.2021	Inspection Report of 30 MLD Pankha STP, inspection done on 14/10/2021.	-	18.10.2021 S-1191	-	20	-	-	J.P.Tripathi Priyesh Satendra Linga Rao Pankaj Rohit Ajay Rahul	1+1+1+1+1+1+1+1	-	-	-	Inspection report submitted by PE.
18.10.2021	Submission of Design and drawing of transformer foundation for 15 MLD Unnao STP.	K-1603	18.10.2021 S-1193	-	20	-	-	Dr. Giridhar A.K.Seth Priyesh Satendra Pankaj Rohit Ajay Rahul	1+1+1+1+1+1+1+1	-	-	-	Reviewed and submitted our comments.
19.10.2021	Regarding Colour scheme for 130 MLD Jajmau & other sites.	16.10.21 K-1796	19.10.2021 S-1194	03	20	-	-	Dr. Giridhar J.P.Tripathi Ajay Rahul	1+1+1+1	-	-	-	Request UPJN to instruct KRMPL submit the Painting procedure.
19.10.2021	Recommendation for Approval of GA, Technical	19.10.21 K-1815	19.10.2021 S-1195	-	20	-	-	Dr. Giridhar A.K.Seth Priyesh	1+1+1+1+1+1+1+1	-	-	-	Vetted & recommended for Approval.

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	datasheet & QAP for pumps at Nawabganj pump house no. 1.							Satendra Pankaj Rohit Ajay Rahul					
19.10.2021	Submission of Structural Drawing of Sludge Storage Platform for 30 MLD Pankha STP.	29.09.21 K-1779	19.10.2021 S-1196	20	20	-	-	J.P.Tripathi Linga Rao Priyesh Satendra	1+1+1+1	-	-	-	Vetted and sent for further necessary approval with one observation.
19.10.2021	Submission of Structural Drawing of Sludge Storage Platform for 15 MLD Unnao STP.	29.09.21 K-1781	19.10.2021 S-1197	20	20	-	-	Dr. Giridhar Priyesh Satendra Pankaj	1+1+1+1	-	-	-	Vetted and sent for further necessary approval with one observation.
19.10.2021	Submission of Structural Drawing of Sludge Storage Platform for 05 MLD Shuklaganj STP.	29.09.21 K-1780	19.10.2021 S-1198	20	20	-	-	Dr. Giridhar Priyesh Satendra Pankaj Rohit	1+1+1+1+1	-	-	-	Vetted and sent for further necessary approval with one observation.

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
19.10.2021	Comments on compliance for Nawabganj Pump house no.- 2.	19.10.21 K-1815	19.10.2021 S-1199	00	20	-	-	Dr. Giridhar Ajay Rahul	1+1+1	-	-	-	PE submit our comments and Request to UPJN to direct KRMPL to provide as required ASAP.
19.10.2021	Inspection report of associated works of 210 MLD Bingawan STP (IPS Rakhimandi, Munsipurwa and Halwakhanda) for the inspection done on 18/10/2021.	-	19.10.2021 S-1200	-	20	-	-	Dr. Giridhar J.P.Tripathi Pankaj Rohit Ajay Rahul	1+1+1+1+1+1	-	-	-	Inspection report submitted by PE.
19.10.2021	Regarding false information circulated by KRMPL	-	19.10.2021 S-1201	-	20	-	-	Dr. Giridhar J.P.Tripathi A.K.Seth Pankaj Rohit Ajay Rahul	1+1+1+1+1+1+1	-	-	-	Request UPJN to take necessary action on KRMPL for false information.

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
20.10.2021	Submission of Monthly progress reports of 210 MLD Bingawan, 42 MLD Sajari and 43 MLD Jajmau STP for the month of September, 2021.	-	20.10.2021 S-1202	-	20	-	-	Dr. Giridhar J.P.Tripathi Pankaj Rohit	1+1+1+1	-	-	-	Request UPJN to instruct KRMPL to submit Monthly progress report on the before 7 th day of the following month.
20.10.2021	Submission of Outdoor lighting calculation and layout for 05 MLD STP Shuklaganj.	K-1747	20.10.2021 S-1204	-	20	-	-	Dr. Giridhar A.K.Seth Rahul	1+1+1	-	-	-	Recommended for approval with the conditions.
20.10.2021	Submission of credentials of all O&M staffs deployed by KRMPL at all O&M Facilities.	-	20.10.21 S-1205	-	20	-	-	Dr. Giridhar J.P.Tripathi Satish Linga Rao Priyesh Satendra Pankaj Rohit Ajay Rahul	1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1	-	-	-	Request UPJN to instruct KRMPL to submit the credentials of all O&M staffs deployed at all O&M STPs, IPS etc. with in 7 days.

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
21.10.2021	Discharge of Untreated Raw Sewage into River Ganga due to CSPS Discharge Pipe breakage at Jajmau.	-	21.10.2021 S-1206	-	20	-	-	Dr. Giridhar J.P.Tripathi A.K.Seth Satish Linga Rao Priyesh Satendra Pankaj Rohit Ajay Rahul	1+1+1+1+1+1+1+1+1+1+1	-	-	-	Request UPJN to direct KRMPL to submit action taken report.
22.10.2021	KPIs Adherence Report of 210 MLD Bingawan STP for the month of September-2021	20.10.21 K-1808	22.10.2021 S-1207	02	20	-	-	Dr. Giridhar Pankaj Rohit	1+1+1	-	-	-	KPI adherence report has been prepared and submitted for the month of September-2021.
22.10.2021	KPIs Adherence Report of 42 MLD Sajari STP for the month of September-2021	20.10.21 K-1809	22.10.2021 S-1208	02	20	-	-	J.P.Tripathi Satish Pankaj Rohit Karamveer	1+1+1+1+1	-	-	-	KPI adherence report has been prepared and submitted for the month of September-2021.
22.10.2021	Submission of compliance along with QAP & data sheet of	20.10.21 J-2131/W-21/193	22.10.2021 S-1209	02	20	-	-	Dr. Giridhar A.K.Seth Linga Rao Priyesh	1+1+1+1+1+1+1	-	-	-	Recommended for approval.

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	outdoor Light fitting for 30 MLD STP Pankha.							Satendra Ajay Rahul					
23.10.2021	Appointment of Project Engineer for STP project at Kanpur under Hybrid Annuity Based PPP mode.	-	23.10.2021 S-1210	-	20	-	-	Dr. Giridhar J.P.Tripathi A.K.Seth Linga Rao Satish Priyesh Satendra Pankaj Rohit Ajay Rahul Karamveer	1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1	-	-	-	Joining Report of Karam veer Singh Support site Supervisor (Civil).
24.10.2021	Sunday												
25.10.2021	Inspection report of associated works of 42 MLD Sajari STP (IPS Chakeri and Sanigawan) for the inspection done on 20.10.2021.	-	25.10.2021 S-1212	-	20	-	-	Dr. Giridhar J.P.Tripathi Linga Rao Satish Priyesh Satendra Pankaj Rohit Ajay Rahul	1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1	-	-	-	Inspection report Submitted by PE.
25.10.2021	Request for	-	25.10.2021	-	20	-	-	Dr. Giridhar	1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1	-	-	-	Request UPJN

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1	Inspection (RFI) format for daily reporting.		1 S-1213					A.K.Seth Satish Priyesh Satendra Pankaj Rohit Ajay Rahul Karamveer	+1				to instruct KRMPPL to issue RFI before the scheduled inspection date for all Sites.
26.10.2021	Regarding Completion of 1 st milestone for Jajmau Facilities (130 MLD STP).	22.10.21 K-1819	26.10.2021 S-1214	04	20	-	-	Dr. Giridhar J.P.Tripathi Linga Rao Satish Priyesh Satendra Pankaj Rohit Ajay Rahul Karamveer	1+1+1+1+1+1+1+1+1+1+1+1+1+1	-	-	-	Observations Submitted by PE.
27.10.2021	Minutes of Meetings held on 10 th and 12 th October at Kanpur under the Chairmanship of Mr. Ashok Kumar Singh,	-	27.10.2021 S-1215	-	20	-	-	Dr. Giridhar J.P.Tripathi Linga Rao Satish Satendra Pankaj Rohit Ajay Rahul	1+1+1+1+1+1+1+1+1+1+1+1+1+1+1	-	-	-	MoM submits 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)
	IAS, ED (Projects), NMCG.							Karamveer					
28.10.2021	Comments on Piping Valve (1 st lot) at 05 MLD STP Shuklaganj.	25.10.21 K-1830	-	-	20	-	-	Dr. Giridhar J.P.Tripathi Linga Rao Satish Priyesh Satendra Pankaj Rohit Ajay Rahul Karamveer	1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1	-	-	-	Under Review.
29.10.2021	Unnao 15 MLD STP Site Inspection Report of dated 8 th , 12 th , 18 th , 22 nd , 25 th & 29 th October 2021	-	29.10.2021 S-1229	-	20	-	-	Dr. Giridhar J.P.Tripathi Linga Rao Satish Priyesh Satendra Pankaj Rohit Ajay Rahul Karamveer	1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1	-	-	-	Inspection report Submitted by PE.
30.10.2021	Submission of Earthing layout for 130 MLD	10.10.21 K-1797	30.10.2021 S-1216	20	20	-	-	Dr. Giridhar Satendra Pankaj	1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1	-	-	-	Request UPJN to direct KRMPL to

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	STP at Jajmau.							Rohit Ajay Rahul					submit the compliance.
30.10.2021	Regarding Records, procedures and Reports of E&M equipments for all construction and renovation sites.	-	30.10.2021 S-1217	-	20	-	-	Dr. Giridhar J.P.Tripathi Sunil Priyesh Satendra Pankaj Rohit Ajay Rahul	1+1+1+1+1+1+1+1	-	-	-	Request UPJN to direct KRMPL to provide as required and renovation work shall be done as per approved design/drawing .
30.10.2021	Regarding compliance for LT Panel & LPBS for 130 MLD Jajmau STP.	25.10.21 K-1829	30.10.2021 S-1218	05	20	-	-	Dr. Giridhar J.P.Tripathi Satendra Pankaj Rohit Ajay Rahul	1+1+1+1+1+1+1	-	-	-	Request UPJN to direct KRMPL to early response so than final recommendation of LT Panel be made.

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)
30.10.2021	Comments on GA, Technical data sheet & QAP for Agitator of Blending Tank at 130 MLD Jajmau STP.	13.10.21 J-2353/W-3/86	30.10.2021 S-1219	17	20	-	-	Dr. Giridhar Priyesh Satendra Pankaj Rohit Ajay Rahul	1+1+1+1+1+1+1	-	-	-	Review and submit our comments.
30.10.2021	Inspection Report of 43 MLD Jajmau Phase-II facilities, inspection done on 08/10/2021, 25/10/2021 & 28/10/2021.	-	30.10.2021 S-1220	-	20	-	-	Dr. Giridhar J.P.Tripathi Satendra Pankaj Rohit Ajay Rahul	1+1+1+1+1+1+1	-	-	-	Inspection report Submitted by PE.
30.10.2021	Observation on Performance of Bingawan STP: stage wise results.	26.10.21 K-1840	30.10.2021 S-1221	04	20	-	-	Dr. Giridhar J.P.Tripathi Satendra Pankaj Rohit Ajay Rahul	1+1+1+1+1+1+1	-	-	-	Request UPJN to instruct KRMPL to inform PE when the work is completed in all respects.
30.10.2021	Safety Inspection	-	30.10.2021 S-1222	-	20	-	-	Dr. Giridhar Linga Rao	1+1+1+1+1+1+1	-	-	-	Inspection report

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	Report of 42 MLD Sajari conducted on 27/10/2021.							Satendra Pankaj Rohit Ajay Rahul					Submitted by PE.
30.10.2021	Safety Inspection Report of 210 MLD Bingawan conducted on 26/10/2021.	-	30.10.2021 S-1223	-	20	-	-	Dr. Giridhar Linga Rao Satendra Pankaj Rohit Ajay Rahul	1+1+1+1+1+1+1	-	-	-	Inspection report Submitted by PE.
30.10.2021	Safety Inspection Report of 30 MLD Pankha conducted on 19/10/2021.	-	30.10.2021 S-1224	-	20	-	-	Dr. Giridhar Linga Rao Satendra Pankaj Rohit Ajay Rahul	1+1+1+1+1+1+1	-	-	-	Inspection report Submitted by PE.
30.10.2021	Safety Inspection Report of 130 MLD Jajmau Phase-II facilities conducted on 30/10/2021.	-	30.10.2021 S-1225	-	20	-	-	Dr. Giridhar Linga Rao Satendra Pankaj Rohit Ajay Rahul	1+1+1+1+1+1+1	-	-	-	Inspection report Submitted by PE.
30.10.2021	Safety	-	30.10.2021	-	20	-	-	Dr. Giridhar	1+1+1+1+1+1+1	-	-	-	Inspection

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1	Inspection Report of 43 MLD Jajmau Phase-II facilities conducted on 30/10/2021.		1 S-1226					Linga Rao Satendra Pankaj Rohit Ajay Rahul					report Submitted by PE.
30.10.2021	Request for Inspection (RFI) format to be complied by KRMPL.	-	30.10.2021 S-1227	-	20	-	-	Dr. Giridhar Priyesh Satendra Pankaj Rohit Ajay Rahul	1+1+1+1+1+1+1	-	-	-	Request UPJN to direct KRMPL to follow the RFI.
30.10.2021	Inspection Report of 130 MLD Jajmau Phase-1 facilities, inspection done on 07/10/2021, 10/10/2021, 25/10/2021, 28/10/2021, 29/10/2021.	-	30.10.2021 S-1230	-	20	-	-	Dr. Giridhar J.P.Tripathi Priyesh Satendra Pankaj Rohit Ajay Rahul Karamveer	1+1+1+1+1+1+1+1+1	-	-	-	Inspection report Submitted by PE.
31.10.2021	Comments on Piping Valve (1 st lot) at 05 MLD	25.10.21 K-1830	31.10.2021 S-1231	06	20	-	-	Dr. Giridhar Priyesh Satendra	1+1+1+1+1+1+1+1	-	-	-	PE submits our comments and Request to

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	STP Shuklaganj.							Pankaj Rohit Ajay Rahul Karamveer					UPJN to direct KRMPL to provide as required.
31.10.2021	Inspection Report of 210 MLD Bingawan facilities, inspection done on 10/10/2021, 26/10/2021, 29/10/2021.	-	31.10.2021 S-1232	-	20	-	-	Dr. Giridhar J.P.Tripathi Linga Rao Satendra Pankaj Rohit Ajay Rahul	1+1+1+1+1+1+1+1	-	-	-	Inspection report Submitted by PE.
31.10.2021	Inspection Report of 42 MLD Sajari facilities, inspection done on 12/10/2021, 27/10/2021, 29/10/2021.	-	31.10.2021 S-1233	-	20	-	-	Dr. Giridhar J.P.Tripathi Satendra Pankaj Rohit Ajay Rahul	1+1+1+1+1+1+1	-	-	-	Inspection report Submitted by PE.
31.10.2021	Regarding changes in BEP proposed by PE at Jajmau facilities pumping station.	26.10.21 K-1854	31.10.2021 S-1234	05	20	-	-	Dr. Giridhar Satendra Pankaj Rohit Ajay Rahul Karamveer	1+1+1+1+1+1+1	-	-	-	Request UPJN to direct KRMPL to stop misleading UPJN and NMCG in this matter.

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)
													Further, Please direct KRMPPL to provide as required ASAP.

Note: Man-days and respective inputs of experts for the month of October 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. Jai Prakash Tripathi	O&M Engineer	29	Timesheet attached
3.	Mr. Anil Kumar Seth	Senior Electrical Engineer	20	Timesheet attached
4.	Mr. Satish kamaraju PE	Senior Process Engineer	10	Timesheet attached
5.	Mr. Sunil Basutkar	Senior Mechanical Engineer	01	Timesheet attached
6.	Mr. Prasoon Bhardwaj	Instrumentation Engineer	04	Timesheet attached
7.	Mr. Preetam Walunjkar	Senior Structure Engineer	09	Timesheet attached
8.	Mr. Linga Krishna Rao	Safety expert	14	Timesheet attached

Annexure 2: Timesheets of Experts

Project Engineer		
NMCG-STP Projects at Kanpur under Hybrid Annuity based PPP Mode		
Daily Report		
Name : Giridhar Prabhukumar Position: Team Leader & Wastewater Expert		Month/Year: Oct-21
Date	Description	Location
1	Reviewed drafted Inspection report for 130 MLD & 43 MLD STPs for UPJN to issue; Reviewed & Issued Letter Nos. 1171, 1172, 1173 regarding Jajmau Facilities	KANPUR
2	GANDHI JAYANTI - PUBLIC HOLIDAY	
3	SUNDAY	
4	Reviewed & issued Letter No 1174 & 1176 regarding Monthly Activity Report for Sajari 42 MLD STP and Bingawan 210 MLD STP; Reviewed & Issued Letter No. 1175 for Jajmau STP	KANPUR
5	Meeting with Mr. Janardhan Singh, SE, UPJN who has taken charge of HAM Kanpur Project; Reviewed & issued Status update of HAM Kanpur Project as on 5th Oct 2021 to SE, UPJN; Finalized & Submitted STC Responses of Showcause Notice to NMCG	KANPUR
6	Reviewed submittal for Pankha & issued letter # 1177; Reviewed & issued Pankha site inspection report with Letter #1178; Bingawan Site Inspection of Compliance Points submitted by KRMPPL for August, 2021; Prepared presentation for proposed meeting on 8.10.2021 with ED (T), NMCG	KANPUR
7	Meeting with PM1; Reviewed submittal for 130 MLD Jajmau & issued letter # 1179; Prepared DRAFT MoM and updated presentation including balance work plan for Pankha & Unnao until 15.10.2021; Site Visits with ED(T), NMCG to Jajmau 130 MLD, 43 MLD STPs and meetings with UPJN, KRMPPL & ED(T)-NMCG	KANPUR
8	Site Visits with ED(T), NMCG to Unnao 15 MLD STP and Bingawan 210 MLD STP, meetings with UPJN, KRMPPL, UPPCB & ED(T)-NMCG	KANPUR
9	2 nd SATURDAY Prepared Project Status update and Presentation for ED-Projects visit	KANPUR
10	SUNDAY Site Visits with ED(P), NMCG to Jajmau 130 MLD, 43 MLD STPs and meetings with UPJN, KRMPPL & ED(P)-NMCG	
11	Review and submission of MPR for September 2021; Prepared and issued DRAFT MoM for ED(T) NMCG visits of 7th & 8th Oct, 2021; Issued Letter No. 1182 regarding KRMPPL compliances for Bingawan 210 MLD STP	KANPUR
12	Site Visits with ED(P), NMCG to Sajari 42 MLD, Unnao 15 MLD and Pankha 30 MLD STPs and meetings with UPJN, KRMPPL & ED(P)-NMCG	KANPUR
13	Meeting with DG of Kanpur, ED(P) NMCG along with UPJN and KRMPPL at the Office of DG	KANPUR
14	Review and issue of Letter Nos. 1184 and 1185 for Jajmau 130 MLD STP	KANPUR
15	Review of project progress of Unnao and Pankha as on 15th Oct 2021	KANPUR
16	Issue of Projects progress reports for Unnao STP (Letter 1188), Pankha STP (Letter No. 1189) and 1st Milestone completion status for Jajmau 130 MLD (Letter No. 1190); Review and issue of letter No. 1170 with Site inspection report of Unnao STP; Review and issue of letter No. 1170A with Site inspection report of Shuklaganj STP; Review and issue of letter No. 1186 regarding flooding at Pankha Site; Issue of letter No. 1187 regarding Process Expert meeting request to KRMPPL; Finalised and submitted Additional Man-Months Proposal to NMCG with Letter No. 1183	KANPUR
17	SUNDAY	
18	Review and issue of 30 MLD STP Pankha Site Inspection Report with Letter No. 1191	KANPUR

19	Review and issue of Letter No. 1192 & 1196 for Pankha Submittal; Review and issue of Letter No. 1194 regarding Painting at Jajmau 130 MLD STP; Review and issue of Letter No. 1195 & 1199 for Nawabganj IPS submittal; Review and issue of Letter No. 1197 for Unnao Submittal; Review and issue of Letter No. 1198 for Shuklaganj Submittal; Review of Site Inspection Report of all IPS of 210 MLD Bingawan STP and issue with letter No. 1200; Issue of Letter 1201 regarding falsification by KRML	KANPUR
20	Review and issue of Letter No. 1193 for Unnao Submittal; Issue of Letter No. 1202 regarding non-submittal of MPRs by KRML; Prepared Presentation for Meeting on 21.10.2021 with NMCG at New Delhi	KANPUR
21	Meetings at NMCG with ED(P), Mr. Rajat Gupta, Mr. Madhav Kumar, Dr. Praveen, Mr. Sravan Kumar, Ms. Nidhi at NMCG Office, New Delhi along with Mr. Prasana Shah, MD, STC; Issue of Letter No. 1206 regarding Discharge of Untreated Raw Sewage into River Ganga due to CPCS Discharge Pipe breakage at Jajmau	NEW DELHI
22	Review and issue of Letter No. 1204 for Shuklaganj Submittal; Review and issue of Letter No. 1209 for Pankha Submittal; Review and issue of Letter No. 1208 & 1207 for KPI adherence report of Sajari 42 MLD STP and Bingawan 210 MLD STP	KANPUR
23	Site Visit to Naini STP for seeing the installation of Membrane-type Gas Holder system and Volute-type dewatering units and Rajapur STP for seeing the operations & maintenance by Adani Group (Concessionaire) along with KRML and UPJN teams. Trip was organized by KRML	Prayagraj
24	SUNDAY	
25	Review of Site Inspection report of all IPS of 42 MLD Sajari STP and issue with letter No. 1212; Issue of Letter No. 1213 regarding RFI format & form	KANPUR
26	Issue of Letter No. 1214 regarding Jajmau 1st Milestone completion	KANPUR
27	Finalized MoM of ED (P), NMCG site visits of 10th and 12th October 2021 and issued the same with letter No. 1215	KANPUR
28	Meeting with PM1, UPJN, Meeting with Ms. Nidhi, Project Officer (Technical), NMCG and discussion of KRML's Showcause Notice	KANPUR
29	Site inspections of Jajmau 130 MLD & 43 MLD STPs with Ms. Nidhi Project Officer (Technical), NMCG, PMC Team and discussion of KRML's Showcause Notice	KANPUR
30	Site Inspections of Bingawan 210 MLD and Sajari 42 MLD STPs with Ms. Nidhi Project Officer (Technical), NMCG, PMC Team and discussion of KRML's Showcause Notice; Reviewed submittal Issued Letter No. 1219 for 130 MLD STP Jajmau; Reviewed and issued site inspection reports of 42 MLD STP Sajari, 210 MLD Bingawan, 30 MLD Pankha, 15 MLD Unnao, 130 MLD & 43 MLD Jajmau with Letter Nos. 1220, 1223, 1229, 1230, 1232 & 1233; Review & issue of Safety Inspection report of Sajari with Letter No. 1222, 1223, 1224 1225; 1226; Issue of Letter No. 1221 regarding inspection call of UASB reactor No. 12 at Bingawan;	KANPUR
31	SUNDAY Site Inspections of Unnao 15 MLD and Pankha 30 MLD STPs with PMC Team and discussion of Work Progress; Issued letter No. 1217 regarding non-compliance to protocols as per CA by KRML; Reviewed submittals and issued letter No. 1216 & 1218; Reviewed and issued Site Inspection report of Unnao STP with letter No. 1229; Issued Letter No. 1227 for RFI format and form for Unnao & Shuklaganj Projects; Reviewed submittal comments and issued letter No. 1231 for Shuklaganj; Issued Letter No. 1234 regarding revision to BEP of 130 MLD STP Jajmau	KANPUR; UNNAO

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

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		Oct-21
Date	Description	Location	
1	Prepared and sent Draft Inspection rept of 130 MLD Jajmau Phase I & 43 MLD Jajmau Phase II of inspection done with GM GPCU UPJN, STC team and KRMPL team on 30/09/2021 to PM I GPCU	Kanpur	
2	Gandhi Jayanti		
3	Sunday		
4	Sent observations on Monthly Activity Reports of 42 MLD Sajari and 210 MLD Bingawan Facilities for the month of Aug 2021	Kanpur	
5	Reviewed and finalized reply of Showcause Notice to be finally sent to MR. Prasanna	Kanpur	
6	On Leave		
7	On Leave		
8	Visited 130 MLD Jajmau Phase I, 43 MLD Jajmau Phase II, 210 MLD Bingawan and 15 MLD Unnao with ED (Tech) NMCG and attended meeting.	Kanpur	
9	Second Saturday		
10	Visited 130 MLD Jajmau Phase I, 43 MLD Jajmau Phase II and 210 MLD Bingawan with ED (Project) NMCG and attended meeting	Kanpur	
11	Sent comments on compliance submitted by KRMPL on 210 MLD Bingawan Facilities	Kanpur	
12	Visited 42 MLD Sajari STP with ED (Project) NMCG and attended meeting	Kanpur	
13	Reviewed MOM of ED (Project) NMCG visit dated 10/10/2021	Kanpur	
14	Reviewed MOM of ED (Project) NMCG visit dated 12/10/2021	Kanpur	
15	Dushehra		
16	Visited 130 MLD Jajmau Phase I and 43 MLD Jajmau Phae II with CE UPJN	Kanpur	
17	Sunday		
18	Visited and inspected IPS Halwakhanda and IPS Munshipurwa of Bingawan Facilities with TL and STC/UPJN team	Kanpur	
19	Visited and inspected IPS Sanigawan and IPS Chakeri of Sajari Facilities with STC/UPJN team	Kanpur	
20	Wrote 2 letters to SE UPJN Etawah regarding false informations being submitted by KRMPL in Dall reports about Bingawan and regarding submission of credentials of all the Staff deployed for O & M of all the facilities	Kanpur	
21	Sent KPIs adherence report of 42 MLD Sajari STP for the month of Sept. 2021	Kanpur	
22	Sent KPIs adherence report of 210 MLD Bingawan STP for the month of Sept. 2021	Kanpur	
23	Reviewed inspection report of IPSs of Sajari facilities of inspection done on 20/10/2021	Kanpur	
24	Sunday		
25	Issued inspection report of IPS Sanigawan and IPS Chakeri of 42 MLD Sajari STPs of inspections done	Kanpur	
26	Visited and inspected Bingawan STP with Mr. Satish Kaamraju Process Expert STC and STC/UPJN	Kanpur	
27	Visited and inspected Sajari STP with Mr. Satish Kaamraju Process Expert STC and STC/UPJN team	Kanpur	
28	Visited 130 MLD Jajmau Phase I, 43 MLD Jajmau Phase II with Ms Nidhi Dwivedi Project Officer (Tech) NMCG and attended meeting	Kanpur	
29	Visited 42 MLD Sajari and 210 MLD Bingawn STPs with Ms Nidhi Dwivedi Project Officer (Tech) NMCG and attended meeting	Kanpur	
30	Issued Inspection reports of 210 MLD Bingawn and 42 MLD Sajari STPs of inspections done in the month of Oct. 2021	Kanpur	
31	Sunday		

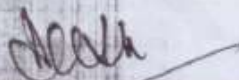
I hereby certify that the time report above is a true and complete statement of my working time for the payroll period.

Signature of Employee

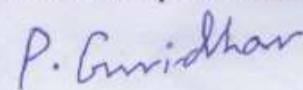
Signature of Team Leader

Project Engineer		Shah Technical Consultants Pvt Limited	
NMCG-STP Projects at Kanpur under Hybrid Annuity based PPP Mode			
Daily Report			
Name :	Mr. Anil Kumar Seth	Month/Year:	
Position:	Senior Electrical Engineer	Oct-21	
Date	Description	Location	
1		Kanpur	
2		Kanpur	
3		Kanpur	
4		Kanpur	
5		Kanpur	
6	study of CA to find out balance Submissions by KANP	Kanpur	
7	Review of progress of Submissions & Disosals	Kanpur	
8	Review of LT Panels IPS ICI Nala Pankha 30 ML	Kanpur	
9	Second Saturday	Kanpur	
10	Sunday	Kanpur	
11	Review of LT Panels IPS Sundernagar Pankha	Kanpur	
12	site visit Nawabganj, Permad Babaghat & Gupjar Ghat	Kanpur	
13	Draft letter prepared for BEP, Jajman.	Kanpur	
14	Discuss with TL and finalized BEP modified letter & visit of Pankha	Kanpur	
15	Dussehra festival	Kanpur	
16	Inspection report prepared for Pankha. objection letter prepared for LT Panel ICI Nala	Kanpur	
17	Sunday	Kanpur	
18	objection raised for Sundernagar IPS LT Panel	Kanpur	
19	Inspection of IPS ICI Nala, IPS Sundernagar & STP Pankha	Kanpur	
20	Inspection report prepared for above sites inspection	Kanpur	
21	Advised regarding shifting of poles at Jajman.	Kanpur	
22	Draft letter prepared for outdoor lighting Shukla Ganj & inspection of Umrao STP & Shukla Ganj	Kanpur	
23	Inspection report prepared for Umrao STP & Shukla Ganj	Kanpur	
24	Sunday	Kanpur	
25	wires connected with Electrical frame.	Kanpur	
26		Kanpur	
27		Kanpur	
28		Kanpur	
29		Kanpur	
30		Kanpur	

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



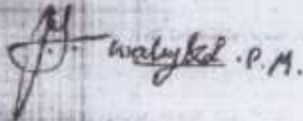
Signature of Employee



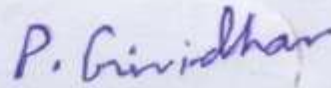
Signature of Team Leader

Project Engineer		Shah Technical Consultants Pvt Limited	
NMCG-STP Projects at Kanpur under Hybrid Annuity based PPP Mode			
Daily Report			
Name :	Prestam Walunjkar		Month/Year:
Position:	Senior Structural Engineer		Oct-21
Date	Description	Location	
1	Check RCC Transformer drg & attained Meeting with KRMPPL PM for Revision in Transformer Drg of Unnao	Kanpur	
2	Mahatma Gandhi Jayanti Holiday	Kanpur	
3	Sunday Holiday	Kanpur	
4	Checked 5 MLD STP I& D RCC Drg, Staad Pro file & Soil test report.	Kanpur	
5	Site Visit 30 MLD Pankha Site	Kanpur	
6	Prepare Site Visit 30 MLD Pankha site	Kanpur	
7	Check PTU GAD, SBC Report & Staad file of 5MLD Shuklaganj STP	Kanpur	
8	Check PTU Calculations & Safe file of 5MLD Shuklaganj STP	Kanpur	
9	Returned to Nagaur from Kanpur	Kanpur	
10	Sunday Holiday	Kanpur	

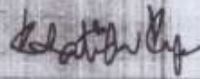
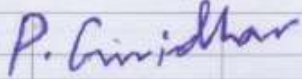
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 P. M.

Signature of Employee


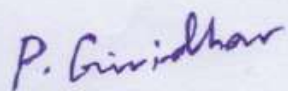
 P. Giridhar


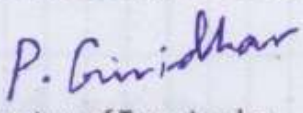
Signature of Team Leader

Project				
Shah Technical Consultants Pvt Limited				
NMCg- STP Projects at Kanpur under Hybrid Annuity based PPP Mode				
Daily Report for the <u>Month of October 2021</u>				
Name :	Satish Kamaraju			
Position:	Process Engineer			
Date	Description	Duration (Days)	STP/Nalas	Work Performed Location
20/10/2021	Site Visit with TL to Jajmau 130 MLD STP & 43 MLD STP	1	Jajmau STP	Kanpur
21/10/2021	Site Visit with Support Engrs to review the Screens/Grit Basins Rehabilitation Progress at Jajmau STP	1	Jajmau STP	Kanpur
22/10/2021	Site Visits to Unnao STP & Shuklagunj STP	1	Unnao STP & Shuklagunj STP	Kanpur
23/10/2021	Site Visits to Prayagraj STP & Rajapur STPs	1	Prayagraj STP & Rajapur STP	Kanpur
24/10/2021	Sunday	-	-	Kanpur
25/10/2021	Site Visit to Pankha STP	1	Pankha STP	Kanpur
26/10/2021	Site Visit to Binghawan STP	1	Binghawan STP	Kanpur
27/10/2021	Site Visit to Sajari STP	1	Sajari STP	Kanpur
28/10/2021	STC Kanpur Project Office	1		Kanpur
29/10/2021	Jajmau STP	1		Kanpur
Total Days		9		
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		

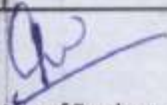
Project Engineer		Shah Technical Consultants Pvt Limited	
NMCG-STP Projects at Kanpur under Hybrid Annuity based PPP Mode			
Daily Report			
Name :	Prasoon Bhardwaj	Month/Year:	Oct-21
Position:	Instrumentation Engineer	Location	
Date	Description	Location	
1	Review of revised documents along with compliance report for control and operational philosophy and interlock P&ID document for 5 MLD STP at Shuklaganj, Kanpur.	Jaipur(W/H)	
2	Review of revised documents along with compliance report for control and operational philosophy and interlock P&ID document for 15 MLD STP at Unnao, Kanpur.	Jaipur(W/H)	
3	Review of revised documents along with compliance report for control and operational philosophy and interlock P&ID drawings and Compliance report for Chlorination system at 15 MLD STP at Unnao, Kanpur.	Jaipur(W/H)	
4	Review of Submission of compliance report along with documents for P&ID documents for ICI Nalla and sundar nagar at 30 MLD Pankha	Jaipur(W/H)	
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I hereby certify that the time report above is a true and complete statement of my working time for the payroll period.

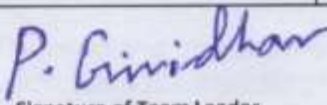
 Signature of Employee	 Signature of Team Leader
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Project Engineer		Shah Technical Consultants Pvt Limited	
NMCG-STP Projects at Kanpur under Hybrid Annuity based PPP Mode			
Daily Report			
Name :	Mr. Sunil Basutkar	Month/Year:	Oct-21
Position:	Senior Mechanical Engineer	Location	
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30	Review of Mechanical submission for 130 MLD Jajmau and 30 MLD Pankha dt-30.10.2021	PUNE	
I hereby certify that the time report above is a true and complete statement of my working time for			
 Signature of Employee		 Signature of Team Leader	

Project Engineer	Shah Technical Consultants Pvt Limited	
NMCG-STP Projects at Kanpur under Hybrid Annuity based PPP Mode		
Daily Report		
Name :	Linga Krishna Rao	Month/Year:
Position:	Safety Expert	Oct-21
Date	Description	Location
18	Office work attended, Collected basic PPE's given to all the staff. Review and checking of pending works related to Pankha, Unnao, Shuklagunj Construction sites & Sajari, Bingawan and Jajmau	Kanpur
19	Office work attended, Pankha construction site inspection done along with Mr. Anil Sath, Electrical Engineer and Mr. Satendra Sharma, Support Engineer.	Kanpur
20	Office work attended, Pankha construction site inspection report prepared and sent to TL Sir.	Kanpur
21	Office work attended, Review of KRMPPL Letters 1) UPJN/KRMPPL/Kanpur/2021-22/1812 Date: 19th October 2021 2) UPJN/KRMPPL/Kanpur/2021-22/1813 Date: 19th October 2021 3) UPJN/KRMPPL/Kanpur/2021-22/1814 Date: 19th October 2021	Kanpur
22	Office work attended, Site inspection of Unnao 15 MLD Shuklagunj and Shuklagunj 05 MLD Project Construction Project site along with Mr. Anil Seth - Electrical Expert and Mr. Satish Kamaraju - Process Expert and Pipe line laying area inspection of dated 5th July, 2021	Kanpur
23	Office work attended, Site inspection report of Unnao 15 MLD Shuklagunj and Shuklagunj 05 MLD Project draft prepared and shared with TL Sir.	Kanpur
24	Sunday	Kanpur
25	Office work attended, STP Pankha 30 MLD construction site inspection done along with Mr. Satish Kama Raju, Process Expert and Mr. Satendra Sharma, Support Engineer.	Kanpur
26	Office work attended, Bingawan 210 MLD (O&M) Plant inspection done along with Process Expert, Sr. Engr. (O&M), and Support Engr. (Mech.), Support Engr. (Elect), Support Engr. (Civil).	Kanpur
27	Office work attended, Sajari 42 MLD (O&M) Plant inspection done along with Process Expert, Sr. Engr. (O&M), and Support Engr. (Mech.), Support Engr. (Elect), Support Engr. (Civil). Shuklagunj site inspection done along with Support Engr. (Mech.), Support Engr. (Elect), due to sudden flood from Ganga river and attended meeting with UPJN AE & KRMPPL Site Incharge.	Kanpur
28	Office work attended, Bingawan 210 MLD (O&M) Plant inspection draft prepared.	Kanpur
29	Office work attended, Sajari 42 MLD (O&M) Plant inspection draft prepared.	Kanpur
30	Office work attended, ESIA (Environmental and Social Impact Assessment) inspection of Jajmau, Bingawan and Pankha done along with KRMPPL environmental and Safety Expert. Jajmau 43 MLD & 130 MLD (O&M) Plant inspection done along with KRMPPL Safety incharge.	Kanpur
31	Sunday	Kanpur



Signature of Employee










Signature of Team Leader

Annexure 3: Monthly Performance Report of Bingawan for October 2021




210 MLD SEWAGE TREATMENT PLANT, BINGAWAN, KANPUR																	Month: October-2021	
MONTHLY FLOW & LAB REPORT																	REMARK	
Date	INLET FLOW MLD	Plant Run in HRS	RAW SEWAGE						FINAL OUTLET						POWER SHUTDOWN			
			Temp °c	TDS ppm	PH (7-8)	COD (523mg/l) ppm	BOD (322mg/l) ppm	TSS (418mg/l) ppm	Temp °c	TDS ppm	PH (7-8)	COD (<100mg/l) ppm	BOD (<30mg/l) ppm	TSS (<50mg/l) ppm	FECAL COLIFORM (<1000) MPN	HRS	MINS	
1-Oct-21	132.79	24.0	31	980	7.1	540	185	510	30	970	7.3	120	36	51	730			
2-Oct-21	143.73	24.0	31	990	7.1	528	178	515	30	990	7.4	124	39	49	710			
3-Oct-21	140.60	24.0	31	970	7.1	524	170	525	31	950	7.3	130	41	54	720			
4-Oct-21	151.18	24.0	32	890	7.1	704	210	540	31	870	7.3	144	44	57	720			
5-Oct-21	131.58	24.0	32	870	7.1	524	168	535	32	860	7.3	104	38	51	730			
6-Oct-21	119.43	24.0	31	890	7.1	532	170	510	31	880	7.3	100	34	48	700			
7-Oct-21	136.79	24.0	31	880	7.1	528	165	520	30	860	7.4	120	36	53	710			
8-Oct-21	135.91	24.0	30	880	7.2	544	168	530	30	870	7.3	124	37	49	700			
9-Oct-21	134.52	24.0	30	890	7.1	560	172	525	31	860	7.3	116	35	47	700			
10-Oct-21	135.04	24.0	30	870	7.1	552	166	520	30	850	7.3	122	36	46	720			
11-Oct-21	127.06	24.0	31	850	7.1	576	170	540	31	840	7.4	120	34	48	700			
12-Oct-21	145.47	24.0	31	880	7.2	592	175	530	31	870	7.4	112	33	49	710			
13-Oct-21	149.81	24.0	31	900	7.2	584	172	520	31	890	7.3	108	31	47	720			
14-Oct-21	131.58	24.0	31	890	7.1	560	160	505	30	880	7.3	124	34	50	690			
15-Oct-21	131.58	24.0	30	860	7.1	592	170	540	30	840	7.3	128	35	49	700			
16-Oct-21	133.99	24.0	30	880	7.1	576	163	520	29	860	7.3	116	33	47	730			
17-Oct-21	134.17	24.0	30	870	7.2	544	158	500	29	850	7.4	98	30	44	680			
18-Oct-21	136.10	24.0	30	890	7.2	560	162	505	29	880	7.4	120	34	44	690			
19-Oct-21	155.32	24.0	29	880	7.1	552	160	510	29	870	7.3	128	35	48	700	1	20	
20-Oct-21	153.26	24.0	29	890	7.1	578	172	520	29	885	7.3	104	33	51	680		33KV SIDE FAULT FROM KesCO Side	
21-Oct-21	148.58	24.0	30	900	7.2	556	165	530	30	890	7.5	112	34	54	690			
22-Oct-21	145.97	24.0	30	870	7.2	532	160	515	30	860	7.4	108	32	52	690			
23-Oct-21	146.85	24.0	30	880	7.1	528	158	520	29	870	7.3	104	31	54	680			
24-Oct-21	142.37	24.0	31	890	7.1	546	162	525	30	880	7.3	106	33	51	700			
25-Oct-21	145.12	24.0	31	910	7.2	552	165	503	31	900	7.4	128	35	50	690			
26-Oct-21	130.35	24.0	31	900	7.1	528	155	537	30	880	7.4	120	34	57	680	4	10	
27-Oct-21	140.49	24.0	30	890	7.1	544	170	520	29	870	7.3	136	36	53	710			
28-Oct-21	151.01	24.0	30	870	7.1	536	160	540	30	860	7.3	144	37	53	700			
29-Oct-21	145.91	24.0	30	850	7.1	544	165	530	29	840	7.4	128	33	50	710			
30-Oct-21	139.66	24.0	30	860	7.2	560	170	525	29	850	7.5	136	34	53	710			
31-Oct-21	131.56	24.0	31	880	7.2	568	175	535	31	870	7.4	112	32	47	700			
TOTAL	3476.31															5	30	
AVG	139.05	24.00	30.44	970.80	7.13	624.48	169.77	540.00	29.84	952.00	7.33	140.16	43.55	62.12	756.00			

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

SITE INSPECTION REPORT FOR 214 MLD STP-BINGAWAN				BINGAWAN STP - 214 MLD	Date 16.10.2021, 26.10.2021 & 29.10.2021	INSPECTED BY UPM Team 1) Mr. Manoj Singh (S.D. 5399) S.T.E Team 1) Sr. Sushil Prasad Kumar (S.T.) 2) Mr. J.P. Tripathi (S.D. 5420) S.T.E. Sushil Kumar (Process Expert) 4) Mr. Lopa Krishna Mani (Safety Expert) 5) Mr. Anil Kumar (S.D. 5367) Mech. 6) Mr. Ramesh Kumar (S.D. 5367) S.T.) 7) Mr. Parthiv Raver (Support Supervisor)		
Sl. No.	Equipment	Assessment performed Location	Assessment of Current Condition photo	Corrective Action Required	Corrective Action Completed by	Original Date of Issue	Resolved Date in Reports by STAPL	Current Status of Compliance
1	Sludge Store Tank	Operational Leakage not found through the gates		Leakage through sludge gate must be rectified at earliest		26-10-2021		
2	Reverse flow	Reverse flow not found in the start chamber		Pressure numbers of pumps must be operated to stop flow backflow		26-10-2021		
3	Sludge gates	When STC / UPM team reached the site, most of the gates were found in fully lowered condition. Upon asking by STC team, they started covering the sludge gates		1) Sludge gates must be opened fully 2) Lubrication must be done on regular basis.		26-10-2021		
4	Mechanical Closure screen (No-01)	Non-Operational		1) Mechanical screen must be overhauled at earliest 2) Provide warning in both areas so that it can be seen from far distance		26-01-2020	STAPL when no. 1790 dated 08.10.2021	PC 8 (UPM) visited the site and found not corrected
5	Mechanical Closure screen (No-02)	Non-Operational No motor found on Mechanical Screen		1) Mechanical screen must be overhauled at earliest 2) Provide warning in both areas so that it can be seen from far distance		26-02-2021	26.10.2021	PC 8 (UPM) visited the site and found not corrected
6	Manual bar Screen no-01	Non-Operational		Repair at earliest		16-08-2021	26.10.2021	PC 8 (UPM) visited the site and found not corrected
7	Manual bar Screen no-02	Operational						
8	Closure Screen Panel	Operational		1) Panel door need to be repaired 2) All Panel indicator need to be repair/replace		26-01-2020	10.11.2021	PENDING
9	Conveyer belt	When STC / UPM Jangpura team reached the site, we found that the conveyer belt was in full condition and team asking by STC team, STAPL operator started the belt. Also STC team found high noise of gears which means STAPL is not removing the noise on regular basis. Also no safety for walking belt is found at site.		1) Conveyer belt to be operated on regular basis 2) Gears replaced from the belt according to the noise required 3) Safety must be provided.		26-10-2021		
10	Sludge Gate Seal	Sludge gate is not done on party and cracks were found		Repair at earliest and do proper curing		26-10-2021		
11	Sludge Pump House Pump	Floored with floating garbage. This situation is coming due to not operating the Mechanical closure screen at site.		To take action immediately for clearing and ensure this situation never repeats.		16-08-2021	26.11.2021	PENDING
12	Cable tray	Cable tray was found rusted		Needs to be painted		16-08-2021		PENDING

12	Subsidiary Valve chamber (Old work)	Holes, improper casing and no entry activity were found		1) To complete restoration of the chamber. 2) Doors to be provided to get inside the chamber. 3) Fencing and lighting works needs to be done.	31/04/2021	30/11/2021	PE & JF, JI visited the site and found not completed
14	Pump no.1	Operational		Leakages from the Impeller must be fixed	28-10-2021		
15	Pump no.2	Operational		Leakages from the Impeller must be fixed	28-10-2021		
16	Pump no.3	Non-Operational		1) Need to be overhauled at earliest 2) Leakages from the Impeller must be fixed. 3) Disinfectant must be fixed.	28-10-2021		
17	Pump no.4	Non-Operational		1) Need to be overhauled at earliest. 2) Leakages from the Impeller must be fixed.	08/05/2021	30/11/2021	WORK PENDING
18	Pump no.5	Operational		1) Airspace station to all be changed 2) Leakages from the Impeller must be fixed.	28-10-2021		
19	Pump no.6	Operational		Leakages from the Impeller must be fixed	28-10-2021		
20	Pump no.7	Non-Operational		1) Need to be overhauled at earliest. 2) Leakages from the Impeller must be fixed.	28-10-2021	30/11/2021	
21	Pump no.8	Non-Operational		1) Need to be overhauled at earliest. 2) Leakages from the Impeller must be fixed.	28/07/2021	30/10/2021	PE & JF, JI visited the site and found not completed
22	Pump no.9	Non-Operational		1) Need to be overhauled at earliest. 2) Leakages from the Impeller must be fixed.	28/08/2021	08/09/2021, letter no. 1750 dated 08/10/2021	PE & JF, JI visited the site and found not completed
23	Pump no.10	Operational		Leakages from the Impeller must be fixed	28-10-2021		
24	Pump no.11	Operational		Leakages from the Impeller must be fixed	28-10-2021		
25	Pump no.12	Non-Operational		1) Need to be overhauled at earliest. 2) Leakages from the Impeller must be fixed.	28-10-2021	08/09/2021, letter no. 1750 dated 08/10/2021	PE & JF, JI visited the site and found not completed
26	Pump Logbook	Pump log book is not filled properly and not signed by operator		1) Must be filled properly along with signing of the operator. 2) Mark the non-operational pumps in the log book. 3) Flow must be written daily in MLD.	28-10-2021		
	Flow Meter	Non-Operational		Flow meter need to be fixed at the earliest	28/01/2020	08/09/2021, letter no. 1750 dated 08/10/2021	PE & JF, JI visited the site and found not completed. As per CA, the work is in progress.
27	Control System of SPTG Sump	Non-Operational		Needs to be fixed at earliest	28-10-2021		
28	Mechanical Pumps no.01	Non-Operational		Must be Overhauled at the earliest.	28/10/2020	16/11/2021	WORK PENDING

38	Mechanical Fine screen no.02	When STC / UP Jar Pigen team reached the site, we found that the screen is not functioning properly. Some of the deposit material is getting removed by the screen and also sewage level is upstream is higher than that of the level at downstream. Screen bars are clogged with debris material.		Must be rectified at the earliest	28-10-2021		
39	Mechanical Fine screen no.03	When STC / UP Jar Pigen team reached the site, we found that the screen is not functioning properly. Some of the deposit material is getting removed by the screen and also sewage level is upstream is higher than that of the level at downstream. Screen bars are clogged with deposit material.		Must be rectified at the earliest	28-10-2021		
40	Mechanical Fine Screen Panel	1) Panel cover damaged. 2) Socks of the insulation not working.		1) Panel cover needs to be repaired. 2) All Panel insulator need to be replace inside. 3) Cable tie need to be parked.	28-10-2021	CRSCL letter no. 1790 dated 08.10.2021	LONG PENDING
41	Conveyer belt	When STC / UP Jar team reached the site, Belt conveyor was not found working, again seeing to STC, the operator started the conveyer belt.		It must be run continuously	28-10-2021		
42	Manual Screen no. 1 & 2	STC & UP Jar found that run of the labour for clearing of manual screen.		Regular cleaning of manual screens must be done.	28-10-2021		
43	Shake Gates	STC & UP Jar found that the shake gates present after manual screen are not working properly and apart during work, sewage is passing through the gate.		Must be rectified at the earliest	28-10-2021		
44	No commination	The fan for commination was found damaged.		Must be cleaned at earliest	28-10-2021		
45	Oil removal mechanism Cell no.01 Main drive, Coarifier drive, Organic pump	1) Very less quantity of grit is being removed by the grit classifier. 2) Organic return pump was not operating. 3) Oil was found clogged with the disposal tray. 4) No sewage found on instead of equipments.		1) Proper alignment work of grit classifier must be done at earliest. 2) OPR must be overhauled at the earliest. 3) Carriage must be provided on all sections. 4) Proper spacing in belt must be done so that it can be seen from the position also. 5) Oil disposal tray must be cleaned.	28-08-2021		LONG PENDING
46	Oil removal mechanism Cell no.02 Main drive, Coarifier drive, Organic pump	1) Very less quantity of grit is being removing by the grit classifier. 2) Oil was found clogged with the disposal tray.		1) Proper alignment work of grit classifier must be done at earliest. 2) Carriage must be provided on all sections. 3) Proper spacing in belt must be done so that it can be seen from the position also. 4) Oil disposal tray must be cleaned.	28-08-2021		PENDING
47	Oil removal mechanism Cell no.03 Main drive, Coarifier drive, Organic pump	Operational		1) Carriage must be provided on all sections. 2) Proper spacing in belt must be done so that it can be seen from the position also. 3) Oil disposal tray must be cleaned.	28-10-2021		
48	Oil removal mechanism Cell no.04 Main drive, Coarifier drive, Organic pump	Operational OPR was found not working.		1) OPR must be overhauled at the earliest. 2) Carriage must be provided on all sections. 3) Proper spacing in belt must be done so that it can be seen from the position also. 4) Oil disposal tray must be cleaned.	28-10-2021		
49	External Lights in PTU	Out of 23 lights, 18 are not working.		Must be replaced at earliest	28-10-2021		
50	Panelled Flume	No ultrasonic level sensor and no scale were found at site.		1) Level sensor must be installed at earliest. 2) Scale & float for flow measurement must be fixed at earliest.	Since Requirement 28-07-2018		LONG PENDING

43	San Deposit Area	Non-availability of tractor trailer at work place and not removing grits and deposits surrounding collector & bridge environmental condition	 	Truly at heavy broken report to be provided for collection of San from studies every time as directed by NMC O team and PC also. This point to date not completed by KSRPL. MCC team to be provided as required for this site.	28-10-2021	28-10-2021	PC & UP/JP visited the site and found not corrected
44	UASB Reactor no.1	Cleaned and fixed but sludge blanket not formed		Reactivation of the UASB reactor required	28-01-2021	-	Completed
45	UASB Reactor no.2	Cleaned and fixed but sludge blanket not formed		Reactivation of the UASB reactor required	-	21-04-2021	Completed
46	UASB Reactor no.3	Cleaned and fixed		Reactivation of the UASB reactor required	28-06-2020	-	Completed
48	UASB Reactor no.4	Cleaned and fixed but sludge blanket not formed		Reactivation of the UASB reactor required	28-01-2021	-	Completed
47	UASB Reactor no.5	Cleaned and fixed but sludge blanket not formed		1) Reactivation of the UASB reactor required 2) Need to replace ball valves	16-05-2021	-	LONG PENDING
49	UASB Reactor no.6	Under Maintenance	 Reactor Working in process	1. NMC O has directed KSRPL 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	9/10/2021	PENDING
48	UASB Reactor no.7	Operational but with sludge		1. NMC O has directed KSRPL 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	-	LONG PENDING
50	UASB Reactor no.8	Cleaned and fixed but sludge blanket not formed		Need to be Reactivation of the UASB reactor	23-01-2021	-	Completed
51	UASB Reactor no.9	Under Maintenance		1. NMC O has directed KSRPL 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	-	PENDING
52	UASB Reactor no.10	Under Maintenance		1. NMC O has directed KSRPL 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	-	LONG PENDING
56	UASB Reactor no.11	Under Maintenance		1. NMC O has directed KSRPL 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	-	LONG PENDING
56	UASB Reactor no.12	Under Maintenance		1. NMC O has directed KSRPL 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	-	LONG PENDING
53	UASB Reactor no.13	Operational but fixed with sludge		1. NMC O has directed KSRPL 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	-	LONG PENDING

55	Slaking Equipment			Slaking equipments of every unit must be replaced like 1st, 2nd and 3rd units.	28-10-2021		
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Sheet 1 of 4 (NMC) Attachment - 02/08/21 in help please take the setting of UASB reactor on regular basis please refer to the frame for each reactor UASB reactor has been set up according to the setting given in page 2 of 2.

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



SPECTRO
Research Lab Ventures (P) Ltd.
CIN: U73200DL2906PTC355036

Format No: SRL/RFGE/...
Issue Date: 01-10-2021
Page 1 of 2

TEST REPORT

Test Report Issued To:

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

Test Report No: K210907026/K210907026-11
Date of Issue: 01-Oct-2021



Sample Booking/Receipt Date: 07-Sep-2021
Date of Start of Testing: 07-Sep-2021
Date of Completion of Test: 15-Sep-2021

Customer Relationship Number: 65302

Sample Description:
210 MLD STP BINGAWAN RAW (INLET) COMPOSITE SAMPLE 03 SEP. (10 am) TO 04 SEP. (8am)



Customer Reference No:
KRMPL2021/SPECTRO/SEPTEMBER-21/BINGAWAN/SAMPLE-1, DATED 04.09.21

Kind Attention: MR. SHRIRAM SASTE
E-Mail: AMIT.BHARAMBE@shapoorji.com, shriram Contact No: 9633373179

Sample Condition: Good
Sample Quantity (Approx): 7 - 8litre **Sample Size (Approx):** 100ml

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




ULR-TC784521000099132F

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

Spectro Research Lab Ventures (P) Ltd. G-3, Sarang Ball Industrial Area, Near Park Site IV, Kanpur-208020 (India)
Phone: +91 90200339403 | Web: www.spectrolabventures.com | Email: info@spectro.in
ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Laboratory
Please refer to our Website <http://www.spectro.in/spectro-polices.html> for Terms & Condition

ID- K210907026-1

Discipline: Chemical
Group : Pollution & Environment

Sl. No.	Test Parameter	Observed Value	Test Method
1.	Total Suspended Solids, mg/l	554	IS:3025(P-15)-1984 (RA-2019)
2.	C.O.D, mg/l	474.39	IS:3025(P-58)-2006 (RA-2017)
3.	B.O.D (5 days) at 20°C, mg/l	158.73	APHA 5210-B (23rd Edition): 2017
4.	Sulphates (as SO4), mg/l	109.49	IS:3025(P-24)-1986(RA-2019)

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



-- End of Test Report --

[Signature]
Analyst Signature



ULR-TC784521000009132F



Authorized Signatory

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: **K210907026/K210907026-21**

Date of Issue: **01-Oct-2021**



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

Date of Start of Testing: **07-Sep-2021**

Date of Completion of Test: **15-Sep-2021**

Customer Relationship Number **65302**

Sample Description :

210 MLD STP BINGAWAN TREATED (OUTLET) COMPOSITE
SAMPLE 03 SEP. (10 am) TO 04 SEP. (8am)



Customer Reference No

KRMPL/20-21/SPECTRO/SEPTEMBER-21/BINGAWAN/SAMPLE-1, DATED
04.09.21

Kind Attention **MR. SHRIRAM SASTE**

E-Mail: **AMIT.BHARAMBE@shaapoorji.com, shriram** Contact No: **9833373179**

Sample Condition : **Good**

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

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

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



Report Issued By

ULR-TC784521000009136F

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Spectro Research Lab Ventures (P) Ltd, G.D. Bajrang Bag Industrial Area, Near Park City JV Kanpur-208020(India)
Ph:0512-2352338/88 | Web: www.spectrolab.in | Email: knpr@stc.com

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- K210907026-2

Discipline: Chemical
Group : Pollution & Environment

Sl. No.	Test Parameter	Observed Value	Test Method
1.	Total Suspended Solids, mg/l	54	IS:3025(P-15)-1984 (RA-2019)
2.	C.O.D, mg/l	132.79	IS:3025(P-58)-2006 (RA-2017)
3.	B.O.D (5 days) at 20°C, mg/l	39.88	APHA 5210-B (23rd Edition): 2017

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

[Signature]
Analyst Signature



-- End of Test Report --

ULR-TC764521000009136F



Authorised Signatory



CIN:U74220DL1998PLC092698

Format No: SALLGNTRF/GE1
Issue No:11 Issue Date: 22/09/2021
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: **K210907026/K210907026-31**

Date of Issue: **22-Sep-2021**



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

Date of Start of Testing: **07-Sep-2021**

Date of Completion of Test: **11-Sep-2021**

Customer Relationship Number: **65302**

Sample Description :

210 MLD STP BINGAWAN TREATED (OUTLET) COMPOSITE
SAMPLE 03 SEP. (10 am) TO 04 SEP. (8am)



Customer Reference No:

KRMP/20-21/SPECTRO/SEPTEMBER-21/BINGAWAN/SAMPLE-1, DATED
04.09.21

End Attention : **MR. SHRIRAM SASTE**

E-mail: **AMIT.BHARAMBE@shapoorji.com, shriram** Contact No: **9833373179**

Sample Condition: **Good**

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

Sample Size (Approx): **...**

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

ULR-TC631421008009577F

Report issued by



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 Analytical Labs Limited | S-1, GNEFPP, Surajpur Industrial Area Phase-V, Kozha, Greater Noida-201308 (India)

Phone : +91-120-2341252,2341251 || URL : www.spectro.in || Email : care@spectro.in

BIS & ODA Approved, ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Laboratory
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TEST REPORT

Form No. SAL/QRTR
Issue No. 01 Issue Date: 0

Page 2 of 2

Report No. K210907026/K210907026-31

Discipline: - Biological
Group: - Water

Microbiological Testing

S. No.	Test Parameters	Observed Results	PROTOCOL
1.	Faecal Coliform, MPN/100ml	220	IS 1622:1981

Pabitra Rohi
Analyst Signature



– End of Test Report –

ULR-TC63142100009577F



Authorized Signatory

Spectro Analytical Labs Limited - S-1, GNEPIP, Surapur Industrial Area Phase-V, Kashi, Greater Noida-201308 (India)

Phone : +91-120-2341252,2341251 || URL : www.spectro.in || Email: care@spectro.in

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CIN:U74220DL1998PLC092698

Format No: SALLGN/TRF/GEN
Issue No: 01, Issue Date: 01/04/2019
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: K210907026/K210907026-41

Date of Issue: 22-Sep-2021



Sample Booking/Receipt Date: 07-Sep-2021

Date of Start of Testing: 07-Sep-2021

Date of Completion of Test: 21-Sep-2021

Customer Relationship Number 65302

Sample Description :

210 MLD STP BINGAWAN DEWATERED SLUDGE



Customer Reference No.:

KRIMPL20-21(SPECTRO)/SEPTEMBER-21(BINGAWAN)/SAMPLE-1, DATED 04-09-21

Kind Attention : MR. SHRIRAM SASTE

E-Mail: AMIT.BHARAMBE@shapoorji.com, shrkam Contact No: 9833373179

Sample Condition : Good

Sample Quantity (Approx) : 1 - PKT

Sample Size (Approx) :

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

ULR-TC631421000009578F

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Phone -+91-120-2341250,2341251 || URL - www.spectro.in || Email - care@spectro.in

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Please refer to our Website <http://www.spectro.in/spectro-policies.html> for Terms & Condition

TEST REPORT

Discipline: - Biological
Group: - Water

Microbiological Testing

S. No.	Test Parameters	Observed Results	PROTOCOL
1.	Faecal Coliform, MPN/100ml	900	IS:1622:1981



Pabitra Kanti
Analyst Signature



– End of Test Report –

ULR-TC631421000009578F



Authorised Signatory

TEST REPORT

Test Report Issued To:

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

Test Report No: K210907026/K210007026-40
Date of Issue: 22-Sep-2021

Sample Booking/Receipt Date: 07-Sep-2021
Date of Start of Testing: 07-Sep-2021
Date of Completion of Test: 21-Sep-2021

Customer Relationship Number: 65302

Sample Description:
210 MLD STP BINGAWAN DEWATERED SLUDGE



Customer Reference No.:
KRMPL/20/21/SPECTRO/SEPTEMBER-21/BINGAWAN/SAMPLE-1, DATED
04.09.21

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

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

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

SPECTRO ANALYTICAL LABS LTD
Digitally signed by
MAHESH BANO
Date: 2021.09.24
15:24:11 +05'30'



Report Issued by

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

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TEST REPORT

ID- K210907026-4

TEST PARAMETER	OBSERVED RESULT	TEST METHOD
Total Solid Concentration, % w/w	37.64	EPA-821-R-01-015

-- End of Test Report --

Rafique

Analyst Signature



Authorised Signatory

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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: **K210916019/K210916019-11**

Date of Issue: **04-Oct-2021**



Sample Booking/Receipt Date: **16-Sep-2021**

Date of Start of Testing: **17-Sep-2021**

Date of Completion of Test: **23-Sep-2021**

Customer Relationship Number: **65302**

Sample Description :

210 MLD STP BINGAWAN RAW (INLET) COMPOSITE SAMPLE 10 SEP. (10 am) TO 11 SEP. (6am)



Customer Reference No

KRMP/20-21/SPECTRO/SEPTEMBER-21/BINGAWAN/SAMPLE 2,
DATED-11.09.21

Kind Attention: **MR. SHR/AM SASTE**
E-Mail: **AMIT.BHARAMBE@shapoorji.com, shrram** Contact No: **9833373178**

Sample Condition: **Good**

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

Sample Size (Approx): **" - "**

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



ULR-TC784521900009167F

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ID- K210916019-1

Discipline: Chemical
Group: Pollution & Environment

Sl. No.	Test Parameter	Observed Value	Test Method
1.	Total Suspended Solids, mg/l	572	IS:3025(P-15)-1984 (RA-2019)
2.	C.O.D, mg/l	553.45	IS:3025(P-58)-2006 (RA-2017)
3.	B.O.D (5 days) at 20°C, mg/l	185.19	APHA 5210-B (23rd Edition): 2017
4.	Sulphates (as SO ₄), mg/l	96.74	IS:3025(P-24)-1986 (RA-2019)

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

[Signature]
Analyst Signature



– End of Test Report –

ULR-TC784521000009167F



Authorised Signatory

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CIN: U73200DL2006PTC355038

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Issue No. 01 Issue Date 01-08-2011
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: **K210916019/K210916019-21**

Date of Issue: **04-Oct-2021**



Sample Booking/Receipt Date: **16-Sep-2021**

Date of Start of Testing: **17-Sep-2021**

Date of Completion of Test: **23-Sep-2021**

Customer Relationship Number **65302**

Sample Description :

210 MLD STP BINGAWAN TREATED (OUTLET) COMPOSITE
SAMPLE 03 SEP. (10 am) TO 04 SEP. (8am)



Customer Reference No

KRMP/20-21/SPECTRO/SEPTEMBER-21/BINGAWAN/SAMPLE-2,
DATED-11.09.21

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

Sample Condition : **Good**

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

Sample Size (Approx) : ******

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



ULR-TC7B4521000009168F

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ID- K210916019-2

Discipline: Chemical
Group : Pollution & Environment

Sl. No.	Test Parameter	Observed Value	Test Method
1.	Total Suspended Solids, mg/l	76	IS:3025(P-15)-1984 (RA-2019)
2.	C.O.D, mg/l	141.08	IS:3025(P-5B)-2006 (RA-2017)
3.	B.O.D (5 days) at 20°C, mg/l	46.95	APHA 5210-B (23rd Edition): 2017

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

Analyst Signature    - End of Test Report -
ULR-TC784521000009168F  
Authorised Signatory

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Format No. SALLONTRFGEN
Issue No:11 Issue Date: 21-09-2021
Page 1 of 2

TEST REPORT

Test Report Issued To:

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

Test Report No: K210916019/K210916019-31

Date of Issue: 23-Sep-2021



Sample Booking/Receipt Date: 16-Sep-2021

Date of Start of Testing: 17-Sep-2021

Date of Completion of Test: 21-Sep-2021

Customer Relationship Number: 65302

Sample Description :
210 MLD STP BINGAWAN TREATED (OUTLET) COMPOSITE
SAMPLE 03 SEP. (10 am) TO 04 SEP. (8am)



Customer Reference No :
KRMPL/20-21/SPECTRO/SEPTEMBER-21/BINGAWAN/SAMPLE-2
DATED-11.09.21

Kind Attention : MR. SHIRAM SASTE

E-Mail: AMIT.BHARAMBE@shaporji.com, shiram

Contact No: 9833373179

Sample Condition: Good

Sample Quantity (Approx): 1 - Bottle

Sample Size (Approx): * - *

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

ULR-TC63142100009667F

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TEST REPORT

Discipline: - Biological
Group: - Water

Microbiological Testing

S. No.	Test Parameters	Observed Results	PROTOCOL
1.	Faecal Coliform, MPN/100ml	28,000	IS:1622:1981

Pabitra Kani
Analyst Signature



- End of Test Report -

ULR-TC631421000009667F



Authorized Signatory

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: K210916019/K210916019-41
Date of Issue: 11-Oct-2021



Sample Booking/Receipt Date: 16-Sep-2021
Date of Start of Testing: 17-Sep-2021
Date of Completion of Test: 11-Oct-2021

Customer Relationship Number: 65302

Sample Description :
210 MLD STP BINGAWAN DEWATERED SLUDGE



Customer Reference No :
KRMP/20-21/SPECTRO/SEPTEMBER-21/BINGAWAN/SAMPLE-2
DATED-11.09.21

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

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

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



ULR-TC63142100009668F

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TEST REPORT

Form No. SALL/007/10/05
Rev. No. 01 Issue Date: 01-08-11

Page 2 of 2

Report No. K210916019/K210916019-41

Discipline - Biological
Group - Water

Microbiological Testing

S. No.	Test Parameters	Observed Results	PROTOCOL
1.	Faecal Coliform MPN/100ml	50,000	IS:1522:1981

Rabindra Koni
Analyst Signature



– End of Test Report –

ULR:TC63142100009668F



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TEST REPORT

Test Report Issued To:

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SHAPORJI PALLONI & CO PVT. LTD., BINGAWAN, BEHIND MAHARSHI VIDYA MANDIR, HAMIRPUR ROAD, KANPUR, UTTAR PRADESH - 208001, INDIA

Test Report No: **K210916019/K210916019-40**
Date of Issue: **11-Oct-2021**



Sample Booking/Receipt Date: **16-Sep-2021**
Date of Start of Testing: **17-Sep-2021**
Date of Completion of Test: **11-Oct-2021**

Customer Relationship Number: **65302**

Sample Description :
210 MLD STP BINGAWAN DEWATERED SLUDGE



Customer Reference No:
KRAMPL/20-21/SPECTRO/SEPTEMBER-21/BINGAWAN/SAMPLE-2, DATED-11.09.21

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

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

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



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TEST REPORT

Group- Pollution & Environment

Discipline- Chemical

ID : K210916019-4

TEST PARAMETER	OBSERVED RESULT	TEST METHOD
Total Solid Concentration, % w/w	40.26	EPA-821-R-01-015

– End of Test Report –

Raksha
Analyst Signature



Authorised Signatory

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TEST REPORT

Test Report Issued To

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BEHIND MAHARSHI VIDYA MANDIR, HAMIRPUR ROAD,
KANPUR, UTTAR PRADESH - 208001,
INDIA

Test Report No: **K210926022/K210926022-11**

Date of Issue: **06-Oct-2021**



Sample Booking/Receipt Date: **26-Sep-2021**

Date of Start of Testing: **27-Sep-2021**

Date of Completion of Test: **05-Oct-2021**

Customer Relationship Number: **55302**

Sample Description :

210 MLD STP BINGAWAN RAW (INLET) COMPOSITE SAMPLE 24 SEP. (10 am) TO 25 SEP. (8am)



Customer Reference No

EMAIL DATED 25.09.2021

Kind Attention: **MR. SHRIRAM SASTE**

E-Mail: **AMIT.SHARAMBE@shapoorji.com, shriram** Contact No: **9833373175**

Sample Condition: **Good**

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

Sample Size (Approx): **100 ml**

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



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ID- K210926022-1

Discipline: Chemical
Group: Pollution & Environment

Sl. No.	Test Parameter	Observed Value	Test Method
1.	Total Suspended Solids, mg/l	586	IS:3025(P-15)-1994 (RA-2019)
2.	C.O.D, mg/l	710.06	IS:3025(P-58)-2006 (RA-2017)
3.	B.O.D (5 days) at 20°C, mg/l	214.29	APHA 5210-B (23rd Edition)- 2017
4.	Sulphates (as SO ₄), mg/l	81.76	IS:3025(P-24)-1986 (RA-2019)

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

Analyst Signature     -- End of Test Report --
ULR-TC78452100000265F  
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CIN: U73200DL2006PTC355036

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Issue No. 01, Rev. 04 Date: 01/04/2017
Page: 1 of 2

TEST REPORT

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SHAPOORJI FALLOONI & CO. PVT. LTD., BINGAWAN,
BEHIND MAHARSHI VIDYA MANDIR, HAMIRPUR ROAD,
KANPUR, UTTAR PRADESH - 208001,
INDIA

Test Report No: K210926022/K210926022-21

Date of Issue: 06-Oct-2021



Sample Booking/Receipt Date: 26-Sep-2021

Date of Start of Testing: 27-Sep-2021

Date of Completion of Test: 05-Oct-2021

Customer Relationship Number: 65302

Sample Description :

210 MLD STP BINGAWAN RAW (OUTLET) COMPOSITE SAMPLE 24 SEP. (10 am) TO 25 SEP. (8am)



Customer Reference No

EMAIL DATED 25.08.2021

Kind Attention: MR. SHRIRAM SASTE

E-Mail: AMIT.BHARAMBE@shapoorji.com, shriram Contact No: 9833373179

Sample Condition: Good

Sample Quantity (Approx): 7 - Bottle

Sample Size (Approx): --

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



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ID- K210926022-2

Discipline: Chemical
Group : Pollution & Environment

Sl. No.	Test Parameter	Observed Value	Test Method
1.	Total Suspended Solids, mg/l	66.0	IS:3025(P-15)-1994 (RA-2019)
2.	C.O.D, mg/l	149.51	IS:3025(P-58)-2006 (RA-2017)
3.	B.O.D (5 days) at 20°C, mg/l	54.73	APHA 5210-B (23rd Edition)- 2017

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

[Signature]
Analyst Signature



– End of Test Report –

ULR-TC704521000009263F



Authorized Signatory

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Page 1 of 2

TEST REPORT

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SHAPORJI PALLONJI & CO. PVT. LTD., BINGAWAN,
BEHIND MAHARSHI VIDYA MANDIR, HAMIRPUR ROAD,
KANPUR, UTTAR PRADESH - 205001,
INDIA

Test Report No: K210926022/K210926022-40

Date of Issue: 11-Oct-2021



Sample Booking/Receipt Date: 26-Sep-2021

Date of Start of Testing: 27-Sep-2021

Date of Completion of Test: 11-Oct-2021

Customer Relationship Number 65302

Sample Description :

210 MLD STP BINGAWAN DEWATERED SLUDGE



Customer Reference No :

EMAIL DATED 25.09.2021

Kind Attention : MR. SHRIRAM SASTE

E-Mail: AMIT.SHARAMBE@shaporji.com, shritam Contact No: 9833373179

Sample Condition : Good

Sample Quantity (Approx): 1 - PKT

Sample Size (Approx): **

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



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TEST REPORT

Format No: SALLQNTRF/GEN
Issue No: 01, Issue Date: 01.04.17

Page 2 of 2

Report No: K210926022/K210926022-40

Group- Pollution & Environment

Discipline- Chemical

ID : K210926022-4

TEST PARAMETER	OBSERVED RESULT	TEST METHOD
Total Solid Concentration, % w/w	37.19	EPA-821-R-01-015.

-- End of Test Report --

Raksha

Analyst Signature



Authorised Signatory




Spectro Analytical Labs Limited

S-1, GNE/3/F, Surapur Industrial Area Phase V, Kinna, Greater Noida-201308 (India)



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



SITE INSPECTION REPORT FOR 42 MLD Sajari STP				SAJARI STP			INSPECTED BY: UPIN Team: 1) Mr. Ankit Kumar (JE, E&M) STC Team: 1) Dr. Gridhar Prabhu Kumar (TL) 2) Mr. J.P. Tripathi (O&M Expert) 3) Mr. Satish Kamaraju (Process Expert) 4) Mr. Linga Krishna Rao (Safety Expert) 5) Mr. Rohit Surmen (Supp. Engr. Mech.) 6) Mr. Rahul Sarwan (Supp. Engr. Ele.) 7) Mr. Parkaj Rawat (Support Supervisor)	
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	Inlet Sluice Gates	STC team found that the gates not fully opened		Make the sluice gate fully opened when the down stream equipments are operational		27-10-2021		
2	Mech. Coarse screen (no 1)	Auto-system is installed recently but not working properly.		Auto system level settings needs to be done for proper functioning		Since handover 11-10-2019		LONG PENDING
3	Mech. Coarse screen (no 2)	When STC / UP Jal Nigam team reached the site, we found that mechanical screen was in still condition and upon asking by STC team, KRMPL operator started the mechanical screen. Manually operational but not automated		1) Level sensor has to be installed at earliest for automation. 2) Needs to run regularly.		Since handover 11-10-2019		LONG PENDING
4	Mechanical Screen Level transmitter display	1) Auto System of Mech Coarse Screen -1 & 2 are Under Maintenance 2) Not operating the mechanical screen perfectly 3) Level sensor of 2nd mechanical screen is not available		1) The level has to be correctly set as per the inflow level. 2) Closing gate must be fixed to the level transmitter casing box. 3) Painting needs to be done on the casing box.		Since handover 11-10-2019		LONG PENDING







5	Belt Conveyor	When STC / UP Jal Nigam team reached the site, we found that the conveyor belt was in still condition and upon asking by STC team, WWRP operator started the belt.		Belt conveyor is required to run on regular basis.	27-10-2021		
6	Belt Conveyor disposal	STC team found no trolley available for shifting debris.		1) Provide trolley 2) Remove the debris/ disposal materials regularly.	31.07.2021		PENDING
7	Mech. Coarse Screen On-site Panel	Door glasses not available and some of the indicators not working		1) Door glass must be fixed 2) Non working indicators should be replaced.	31.07.2021		LONG PENDING
8	RAW SEWAGE PUMPING STATION						
1	Raw Sewage Pump-01	Operational		Discharge line pressure gauge needs to be replaced.	23-09-2021		LONG PENDING
2	Raw Sewage Pump-02	Non Operational No pressure gauge were found		1) It is to be immediately rectified 2) Discharge line pressure gauge needs to be fixed.	31.07.2021		LONG PENDING
3	Raw Sewage Pump-03	Operational		Discharge line pressure gauge needs to be replaced.	31.07.2021		LONG PENDING
4	Raw Sewage Pump-04	Operational		Discharge line pressure gauge needs to be replaced.	31.07.2021		LONG PENDING
5	Raw Sewage Pump-05	Operational		Discharge line pressure gauge needs to be replaced.	27-10-2021		
6	Raw Sewage Pumps : operation	STC & UPN team found that the pumps were not being operated as per requirement.		Run the pumps as per requirement to avoid back flow.	27-10-2021		
7	EST	Upward movement of rope is not working properly		Overhauling needs to be done.	27-10-2021		






8	Raw Sewage Pump Starter cable	Raw Sewage pump starter cable dressing are not done		Need to do dressing of cable starter properly	31.07.2021		LONG PENDING
9	Raw Sewage Pump Starter-5			Need to repair the starter of raw sewage pump no. 5	27-10-2021		
10	DI Common header Line	Water logging found		1) Desludging and cleaning work must be done at earliest. 2) Minor leakage from gate valve must be rectified.	27.10.2021		
11	Electro-Magnetic flow meter			Get the calibration done & submit the calibration certificate at earliest.	Since handover 11-10-2019		LONG PENDING
12	Panel Room	1) HT Panel & Float cum boost charger ammeter not working. 2) Some of the indoor light lights not working. 3) One no. exhaust fan not working.		1) HT Panel ammeter need to be replace. 2) Indoor light 7 no. need to be replace. 3) Exhaust fan 1 no. need to be repair. 4) Float cum boost charger ammeter need to be repair immediately.	21.09.2021		LONG PENDING
C PRIMARY UNIT							
1	Fine screen (No. 1 West)	The bar spacing at some places in the screen has increased		Need to be rectified at earliest.	27-10-2021		
2	Fine screen (No. 2 West)	The bar spacing at some places in the screen has increased.		Need to be rectified at earliest. Pressure gauge need to be replace	27-10-2021		

3	Fine Mechanical Screen auto system	No level sensor were present around fine mechanical screen.		<ul style="list-style-type: none"> 1) Level sensor must be installed at earliest. 2) Fine screen must be automated at earliest. 	Since handover 11-10-2019		LONG PENDING
4	Cable tray	Fine screen cable tray has been found in fluted condition		Need to paint the fluted cable tray	21-09-2021		LONG PENDING
5	FTU On site Panel	Door glasses not available and some of the indicators not working		<ul style="list-style-type: none"> 1) Door glasses must be fixed 2) Non working indicators should be replaced 3) Panel box painting need to be done 	27-10-2021		
6	Manual screen	Operational		Regular Cleaning of Manual screen to be done.	27-10-2021		
7	Grit chamber-1 1) Organic pump with Motor 2) Scraper 3) Classifier Mechanism	Operational		<ul style="list-style-type: none"> 1) Classifier alignment need to be rectified. 2) Canopy must be provide on every motor. 3) Naming of Grit Mechanism must be done in bold letter so that it can be seen from far positions also. 	31.07.2021		LONG PENDING
8	Grit chamber-2 1) Motor 2) Scraper/Starter 3) Rack Classifier Mechanism	Operational		<ul style="list-style-type: none"> 2) Canopy must be provide on every motor. 3) Naming of Grit Mechanism must be done in bold letter so that it can be seen from far positions also. 	31.07.2021		LONG PENDING
9	Grit Disposal	Huge piles of grit were found at grit disposal area and no tractor trolleys was found available.		<ul style="list-style-type: none"> 1) Remove the grit on regular basis. 2) Provide tractor trolley below chutes. 	27-10-2021		



10	Final Flume	No ultrasonic level sensor and no scale were found at site		1) Level sensor must be installed at earliest. 2) Scale & chart for flow measurement must be fixed at earliest.	Since handover 13-10-2021		LONG PENDING
11	PST-1	Operational Sewage is not flowing uniformly through weir notch		1) Weir notch must be levelled at earliest. 2) Vibration check on regular basis And lubrication require for PST-1.	21-10-2021		
12	PST-2	Started operating 2nd stream from 18-10-2021 Sewage is not flowing uniformly through weir notch		1) Weir notch must be levelled at earliest. 2) Vibration check on regular basis And lubrication require for PST-2.	21-10-2021		
13	Cable tray of PST-1 & PST-2	PST-1 & PST-2 Cable tray has been found rusted condition		Need to paint the rusted cable tray	31-07-2021		LONG PENDING
D AERATION TANK							
1	Aerator no 1	Operational		1) Bottom part rusted, Overhauling and servicing required. 2) Vibration check on regular basis And lubrication require for each aerator.	21-09-2021		LONG PENDING
1	Aerator no 2	Operational		Vibration check on regular basis And lubrication require for each aerator.	21-09-2021		LONG PENDING

	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		LONG PENDING
3	Aerator no 3	Operational		Vibration check on regular basis And lubrication require for each aerator	31.07.2021		
4	Aerator no 4	Operational		Vibration check on regular basis And lubrication require for each aerator	31.07.2021		
5	Aerator no 5	Operational		Vibration check on regular basis And lubrication require for each aerator	31.07.2021		
6	Aerator no 6	Operational		Vibration check on regular basis And lubrication require for each aerator	31.07.2021		
7	Aerator no 7	Started operating 2nd stream from 18-10-2021		Vibration check on regular basis And lubrication require for each aerator	31.07.2021		
8	Aerator no 8	Started operating 2nd stream from 18-10-2021		Vibration check on regular basis And lubrication required for each aerator	31.07.2021		
9	Aerator no 9	Started operating 2nd stream from 18-10-2021		Vibration check on regular basis And lubrication required for each aerator	31.07.2021		
10	Aerator no 10	Started operating 2nd stream from 18-10-2021		Vibration check on regular basis And lubrication required for each aerator	31.07.2021		
11	Aerator no 11	Not Operational		1) Overhauling must be done at earliest 2) Vibration check on regular basis. And lubrication required for each aerator.	22-06-2021		PENDING
12	Aerator no 12	Started operating 2nd stream from 18-10-2021		Vibration check on regular basis And lubrication required for each aerator	31.07.2021		
E SECONDARY CLARIFIER AREA							


1	SST 1	When STC / UP Jal Nigam team reached the site, we found the system in still condition due to non availability of Power		Needs to be run on regular basis as required.	21-10-2021		
2	SST 2	Started operating 2nd stream from 18-10-2021 When STC / UP Jal Nigam team reached the site, we found the system in still condition due to non availability of Power		Needs to be run on regular basis as required.	21-10-2021		
3	Return sludge pump 1	Non-Operational		1) It is required to immediately rectify 2) Discharge line pressure gauge needs to be replaced.	09-09-2021		PENDING
4	Return sludge pump 2	Operational Pressure Gauge not available		Pressure gauge must be fixed at earliest.	21-09-2021		PENDING
5	Return sludge pump 3	Operational Pressure Gauge not working		1) Pressure gauge must be replaced at earliest 2) Need dressing of cable	21-09-2021		PENDING
F. CALDRINATION AREA							
1	Chlorine Tonnets (Total Qty = 06 Nos.)	Operational 1) STC found 03 nos chlorine tonnets missing 2) STC found leakages in the chlorine when connected with second chlorine stream.		1) Install back the remaining tonnets at earliest. 2) The leakages found must be fixed at earliest.	4/1/2022		PENDING
2	Booster Pump no. 1 & 2	1) STC team found that the operator is not running booster pumps. Upon asking by STC, Operator started running the pumps. 2) Operator doesn't know how to operate the booster pumps.		1) Run the booster pumps everytime 2) Leakage from Gate valve must be fixed at earliest 3) Deploy experienced operator who knows the operation.	21-09-2021		PENDING

3	Chlorination Leak detection device	During visit, cylinder was changed and there was leakage of chlorine but leak detecting device sensor doesn't sense chlorine. It shows that leak detecting device is not working. Non-Operational		Leakage detection device should be rectified.	31.07.2021		PENDING
4	Safety shower	Operational					
6	Sludge system						
1	Sludge thickeners 1	Operational Sludge Thickener is filled with sludge and influent is not properly treated by Sludge Thickener. Sludge withdrawal not properly		1) Do clearing of Sludge thickener 2) Overhaul whole mechanical system	03.03.2021		PENDING
2	Sludge thickeners 2	Non-Operational		Sludge Thickener is filled with sludge and influent is properly not treated by Sludge Thickener. Sludge withdrawal not properly	03.03.2021		PENDING
3	Thickened sludge pump	Non-Operational		Needs to be rectified at the earliest	23.04.2021		PENDING
4	Thickened sludge pump	Operational					
5	Sludge digester-01	Operational					
6	Sludge digester-02	Pending from long time Non-Operational		Needs to be rectified at the earliest	01.06.2020		PENDING

7	Gas engine-1	Operational					
8	Gas engine-2	Operational					
9	Gas engine-3	Repaired but non operational due to non availability of battery.		Please provide the battery backup		01.06.2020	PENDING
10	Gas Scrubbers	Operational					
11	Biogas compressor - 1	Operational					
12	Sludge drying bed 1	Filled with sludge		Beds are required to be emptied periodically and Sludge to be disposed on regular basis		23.02.2021	No record of disposal of sludge is available
13	Sludge drying bed 2	Filled with sludge		Beds are required to be emptied periodically and Sludge to be disposed on regular basis		23.02.2021	No record of disposal of sludge is available
14	Sludge drying bed 3	Filled with sludge		Beds are required to be emptied periodically and Sludge to be disposed on regular basis		23.02.2021	No record of disposal of sludge is available
15	Sludge drying bed 4	Filled with sludge					
16	Sludge drying bed 5	Filled with sludge					
17	Sludge drying bed 6	Filled with sludge					
18	Sludge drying bed 7	Filled with sludge					
19	Sludge drying bed 8	Filled with sludge					
20	Sludge drying bed 9	Filled with sludge					
21	Sludge drying bed 10	Filled with sludge					
22	Sludge drying bed 11	Filled with sludge					
23	Sludge drying bed 12	Filled with sludge					
24	Sludge drying bed 13	Filled with sludge					
25	Sludge drying bed 14	Filled with sludge					
26	Sludge drying bed 15	Filled with sludge					
27	Sludge drying bed 16	Filled with sludge					
28	Sludge drying bed 17	Filled with sludge					
29	Sludge drying bed 18	Filled with sludge					
				Beds are required to be emptied periodically and Sludge to be disposed on regular basis		23.02.2021	No record of disposal of sludge is available

30	Sludge drying bed	Leakage found around sludge drying bed		Needs to be restored at the earliest	29.10.2021		
31	Tubewell pump 1	Operational					
32	Dilution water submersible pump-1	Operational					
33	Dilution water submersible pump-2	Operational					
34	Treated effluent outlet channel			Suspended solids carryover at the outlet of OCT	31.07.2021		
Miscellaneous							
1	Motor Canopy	STC found that no canopies were present on the motors of equipments.		Fix canopy to each motors of equipments.	27-10-2021		
2	Chlorination Unit Stock & consumption register	Not available in the chlorination room		Stock and consumption register must be maintained and remain available at chlorination unit.	27-10-2021		
3	Laboratory	<ol style="list-style-type: none"> 1) Samples collected are not labelled. 2) There is no date wise record of base data available at the lab. 3) Cooling jacket setup was found improper. 4) BOD samples found in the incubator were not labelled. 5) Filter paper used for TSS measurement was found to be washed and used. 6) Fecal coliform tests were not conducted with the right dilutions as needed. 7) Chemist do not have the right training/ experience for conducting laboratory analyses. 		<ol style="list-style-type: none"> 1) Samples collected must be labelled. 2) Lab Chemist has to maintain date wise base data of all the testings done. 3) Cooling jacket must be correctly installed. 4) Only new filter paper must be used for every testings. 5) Fecal coliform tests must be done properly. 6) Trained chemist has to be present for testings at laboratory. 	27-10-2021		
4	Log Books			Log Books must be maintained and remain available for all units	27-10-2021		
5	House Keeping works			Do the house keeping works on regular basis	27-10-2021		

Annexure 7: Test Result of Joint Sampling Report of Influent & Treated Effluent (Sajari)



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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: **KS09070276-210907027-14**

Date of Issue: **10/09/2021**



Head Office: **Plot No. 20, Sector 10, Gurgaon, Haryana**


Regional Office: **Kanpur**

Branch Office: **Kanpur**

Customer Relationship Number: **65304**

Sample Description:

42 MLD STP SAJARI RAW (INLET) COMPOSITE SAMPLE 03 SEP. (10 am) TO 04 SEP. (10am)



Customer Reference No:

KRMP/20-21/SPECTRO/SAJARI/SEPTEMBER-21-SAMPLE-1, DATED 04.09.21


Kind Attention: **MR. SHRIRAM BASTE**

E-Mail: **amit.bharambe@shapoorji.com, ramulet29@gmail.com** Contact No: **9833373179**

Sample Condition: **Good**

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

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



ULR-TC784521800009133F

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ID- K210907027-1

Discipline: Chemical
Group: Pollution & Environment

Sl. No.	Test Parameter	Observed Value	Test Method
1.	Total Suspended Solids, mg/l	310	IS 3025(P.15)-1984 (RA-2019)
2.	C.O.D, mg/l	553.43	IS 3023(P.50)-2006 (RA-2017)
3.	B.O.D (5 days) at 20°C, mg/l	105.19	APHA 5210-B (21st Edition): 2017
4.	Sulphates (as SO ₄), mg/l	133.21	IS 3025(P.21)-1984 (RA-2019)

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

[Signature]
Analyst Signature



– End of Test Report –

ULR-TC784521000009133F



Authorized Signatory

Spectro Research Lab Ventures (P) Ltd, G-3, Bajrang Ball Industrial Area, Near Panki Site-II, Kanpur-206020 (India)
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CIN:U73200DL2006PTC355036

Format No: SRL/TRF/GEN
Issue No: 01 Issue Date: 04/08/21
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TEST REPORT

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SAJARI GADN, ALANKANDA ENCLAVE,
KANPUR, UTTAR PRADESH - 208008,
INDIA

Test Report No	KP/03/07/21/K210E07022001
Client Name	04/08/2021
Barcode	
Sample Reference No	04/08/2021
Print of Sample Test No	04/08/2021
Print of Certificate No	04/08/2021

Customer Relationship Number **65304**

Sample Description :

42 MLD STP SAJARI TREATED (OUTLET) COMPOSITE SAMPLE 03 SEP. (10 am) TO 04 SEP. (8am)



Customer Reference No

KRMPL/20-21/SPECTRO/SAJARI/SEPTEMBER-21-SAMPLE-1, DATED 04.08.21

Kind Attention **MR. SHRIRAM SASTE**
E-Mail: amit.bhambhe@shapoorji.com, ramuirt20@gmail.com Contact No: **9633373179**

Sample Condition : **Good**

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

Sample Size (Approx) : **100 ml**

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



ULR-TC784521000099138F

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TEST REPORT

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Issue No. 01, Issue Date: 01.04.17

Page 2 of 2

Report No. K210907027/K210907027-21

ID- K210907027-2

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	62.99	IS:3025(P-58)-2006 (RA-2017)
3.	B.O.D (5 days) at 20°C, mg/l	24.86	APHA 5210-B (23rd Edition): 2017

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

Analyst Signature:      

– End of Test Report –

Spectro Research Lab Ventures (P) Ltd, G-3, Bajrang Ball Industrial Area, Near Pankaj Site-IV, Kanpur-208020(India)
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SAJARI GAON, ALANKANDA ENCLAVE,
KANPUR, UTTAR PRADESH - 208008,
INDIA

Test Report No: **K210007027/IND-10007007-30**

Date of Issue: **22-Sep-2021**



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

Date of Start of Testing: **08-Sep-2021**

Date of Completion of Test: **21-Sep-2021**

Customer Relationship Number: **65304**

Sample Description :

42 MLD STP SAJARI DEWATERED SLUDGE



Customer Reference No :

KRMPL/20-21/SPECTRO/SAJARI/SEPTEMBER-21-SAMPLE-1, DATED 04.09.21

Kind Attention : **MR. SHRIRAM SASTE**

E-Mail: **amit.bharambe@shapoorji.com, ramule129@** Contact No: **9833373173**

Sample Condition : **Good**

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

Sample Size (Approx) : **.. .**

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



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Format No. SALLGNTRF/GEN
Issue No. 01, Issue Date: 01.04.17

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Report No K210907027/K210907027-30

ID- K210907027-3

TEST PARAMETER	OBSERVED RESULT	TEST METHOD
Total Solid Concentration, % w/w	74.80	EPA-821-R-01-015

– End of Test Report –

Raksha
Analyst Signature



Authorized Signatory

Spectro Analytical Labs Limited S-1, GPO-199, Sitapur Industrial Area, Phase V, Kasna, Greater Noida-201308 (India)

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Format No: SALLGN/TR/IGEN
Issue No: 01 Issue Date: 01-04-2017
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SAJARI GADN, ALANKHANDA ENCLAVE,
KANPUR, UTTAR PRADESH - 208008,
INDIA

Test Report No: **IC100070027/IC100070027-1***

Date of Issue: **22-Sep-2021**



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

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

Date of Completion of Test: **21-Sep-2021**

Customer Relationship Number: **65304**

Sample Description :

42 MLD STP SAJARI DEWATERED SLUDGE



Customer Reference No :

KRMPL/20-21/SPECTRO/SAJARI/SEPTEMBER-21-SAMPLE-1, DATED 04.09.21

Kind Attention : **MR. SHRIRAM SASTE**

E-Mail: **amit.bharambe@shapoorji.com, ramul129@** Contact No: **5833373173**

Sample Condition: **Good**

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

Sample Size (Approx): **.. .**

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



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Format No. SAL/ONTR/REG/2
Issue No. 01, Issue Date: 01/04/17
Page 2 of 2
Report No K210907027/K210907027-31

TEST REPORT

Discipline: - Biological
Group: - Water

Microbiological Testing

S. No.	Test Parameters	Observed Results	PROTOCOL
1.	Faecal Coliform, MPN/100ml	110	IS:1622:1981

- End of Test Report -

Analyst Signature: *Pabitra Koni*

TC-8314

ULR-TC63142100009579F

Digitally signed by MAHARASHI BANO
Date: 2021.05.20
15:27:06 +05:30

Authorised Signatory

Spectro Analytical Labs Limited - SP1, ONEPIP, Sector Industrial Area, Phase-V, Katna, Greater Noida-201308 (India)
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MULTI-CYCLE ANALYSIS 01.01.2017
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TEST REPORT

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

Test Report No.	KS100070772/KS10007077-44
Date of Issue:	22-Sep-2021
	
Sample Booking/Receipt Date:	07-Sep-2021
Date of Start of Testing:	08-Sep-2021
Date of Completion of Test:	12-Sep-2021

Customer Relationship Number **65304**

Sample Description :
42 MLD STP SAJARI TREATED (OUTLET) COMPOSITE SAMPLE 03 SEP. (10 am) TO 04 SEP. (8am)



Customer Reference No :
KRMPL/20-21/SPECTRO/SAJAR/SEPTEMBER-21-SAMPLE-1, DATED 04.09.21

Analysation : **MR. SHRIRAM SASTE**
E-Mail: **amit.bharambe@shapoorji.com, ramulci254** Contact No: **9833373179**

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

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



ULR-TC63142100009580F

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4220DL1998PLC092698

TEST REPORT



Format No. SALLQVTRF0321
Issue No. 01, Issue Date: 01/04/17
Page 2 of 2
Report No. K210907027/K210907027-41

Discipline: - Biological
Group: - Water

Microbiological Testing

S. No.	Test Parameters	Observed Results	PROTOCOL
1.	Faecal Coliform, MPN/100ml	Absent (< 2)	IS:1622:1981


Pabitra Rani
Analyst Signature





TC-4314

– End of Test Report –

ULR-TC631421000009580F





Digitally signed by MAHVISH BANO
Date: 2021.09.22
15:32:28 +05'30
Authorised Signatory

Spectro Analytical Labs Limited | S-1, GNCEP, Surajpur Industrial Area Phase-V, Kashi, Greater Noida-201308 (India)
Phone : +91-120-2341252, 2341251 || URL : www.spectro.in || Email : care@spectro.in
BIS & DDA Approved, ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Laboratory

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CIN U73200DL2006PTC355036

Form No. SRL/TFP/0014

Page 1 of 2

TEST REPORT

Test Report Issued To:

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

Test Report No. **ULR/TC78452100009271F**

Date of Issue: **30-08-2021**



Sample Booking/Received Date: **26-08-2021**

Date of Start of Testing: **27-08-2021**

Date of Completion of Test: **28-08-2021**

Customer Relationship Number: **65304**

Sample Description:

42 MLD STP SAJARI RAW (INLET) COMPOSITE SAMPLE 24 SEP (10 am) TO 25 SEP (5am)



Customer Reference No:

EMAIL DATED 25.09.2021

Kind Attention: MR. SHRIRAM SASTE

E-Mail: sm.bharambe@shapoorji.com, rsthur128@ Contact No: 9633373179

Sample Condition: Good

Sample Quantity (Approx): 1 - Bottle

Sample Size (Approx):

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



ULR-TC78452100009271F

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

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

Spectro Research Lab Ventures (P) Ltd, G-3, Begang Dal Industrial Area, Near Park II, Kanpur 208008(India)

Phone: +91-5225503864/85 | Web: www.spectroresearchlabs.com | Email: info@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

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ID- K210926021-1

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	394.48	IS 3025(P-58)-2006 (RA-2017)
3.	B.O.D (5 days) at 20 °C, mg/l	184.21	APHA 5210-B (23rd Edition): 2017
4.	Sulphates (as SO ₄), mg/l	56.88	IS 3025(P-24)-1984 (RA-2019)

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

Analyst Signature       

– End of Test Report –
ULR-TC78452100009271F
Authorized Signatory

Spectro Research Lab Ventures (P) Ltd, G-3, Bajrang Ball Industrial Area, Near Paras Ehsa-Fy Kanpur-208033(India)
Phone :+91-4235003894-85 | Web : www.spectroresearchlabs.com | Email : info@spectro.in

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Research Lab Ventures (P) Ltd.

Format No SRL/TRF/GEN
06/14/2021 Rev. 01/20/21
Page 1 of 2

CIN:U73200DL2004PTC355036

TEST REPORT

Test Report Issued To

KANPUR RIVER MANAGEMENT PRIVATE LIMITED (SAJARI)
SHAPOORJI PALLONJI & CO. PVT. LTD., NEAR KDA COLONY,
SAJARI GAON, ALANKHANDA ENCLAVE,
KANPUR, UTTAR PRADESH - 208006,
INDIA

Test Report No: K210926021/K210926021-21

Date of Issue: 08-Oct-2021



Sample Booking/Receipt Date: 28-Sep-2021

Date of Start of Testing: 27-Sep-2021

Date of Completion of Test: 08-Oct-2021

Customer Relationship Number: 65304

Sample Description :

42 MLD STP SAJARI RAW (OUTLET) COMPOSITE SAMPLE 24 SEP.
(10 am) TO 25 SEP. (6am)



Customer Reference No

EMNL DATED 25.09.2021

Kind Attention MR. SHRIRAM SASTE

E-Mail: smh.bharambe@shapoorji.com, ramul@SPECTRO Contact No: 9833373179

Sample Condition : Good

Sample Quantity (Approx): 1 - Bottle

Sample Size (Approx): *-*

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



ULR-TC78452100009268F

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

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Spectro Research Lab Ventures (P) Ltd, G-3, Rajrang Ball Industrial Area, Near Park Site-IV, Kanpur-208000(India)

Phone: +91-5220029685 | Web: www.spectroresearchlabs.com | Email: info@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

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ID- K210926021-2

Discipline: Chemical
Group : Pollution & Environment

Sl. No.	Test Parameter	Observed Value	Test Method
1.	Total Suspended Solids, mg/l	54	IS:3025(P-15)-1994 (RA-2019)
2.	C.O.D, mg/l	99.67	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 -

ULM-TC784521800009268F



Authorised Signatory

Spectro Research Lab Ventures (P) Ltd, G-3, Bawang Ball Industrial Area, Near Parka Site-IV Kanpur-209002(Uttar Pradesh)
Phone: +91-422500094-85 | Web: www.spectroresearchlabs.com | Email: info@spectro.in
ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Laboratory

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TEST REPORT

Test Report Issued To:

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

Test Report No: **K210926021/K210926021-40**

Date of Issue: **11-Oct-2021**



Sample Booking/Receipt Date: **25-Sep-2021**

Date of Start of Testing: **27-Sep-2021**

Date of Completion of Test: **11-Oct-2021**

Customer Relationship Number: **65304**

Sample Description:

42 MLD STP SAJARI DEWATERED SLUDGE



Customer Reference No:
EMHL DATED 25-09-2021

Test Member: **MR. DHIRAM SASTE**

E-Mail: **emh@kanbe@spectro.com, ramh@emh** Contact No: **9833373179**

Sample Condition: **Good**

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

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

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



Report Issued by

Authenticity of report can be verified by mail at emh@kanbe@spectro.com

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

Spectro Analytical Labs Limited, G-7, Sector-10, Noida, Greater Noida, Uttar Pradesh, India

Phone: +91 9225411111, 2412511 | URL: www.spectro.in | Email: emh@spectro.in

ISO & OHS Approved, ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Laboratory

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SPECTRO
Analytical Labs Limited
CN: U74220DL1998PLC092698

TEST REPORT


Report No: K210926021/K210926021-40
Page 2 of 2
Group- Pollution & Environment
Discipline- Chemical


ID : K210926021-4

TEST PARAMETER	OBSERVED RESULT	TEST METHOD
Total Solid Concentration, % w/w	58.42	EPA-821-R-01-015

-- End of Test Report --

[Signature]
Analyst Signature




Authorised Signatory

Spectro Analytical Labs Limited | S-1, GATE #11, Surajpur Industrial Area, Phase V, Kanpur, Greater Noida 201308 (India)
Phone: +91 120 2341250 / 2341251 | URL: www.spectro.in | Email: info@spectro.in
BIS & DOI Approved, ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Laboratory

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Annexure 8: Sajari Performance report October 2021

42 MLD SEWAGE TREATMENT PLANT, SAJARI, KANPUR																		
MONTHLY FLOW & LAB REPORT																		
Month: October, 2021																		
Date	INLET FLOW in MLD	Plant Run in HRS	RAW SEWAGE						FINAL OUTLET						POWER SHUTDOWN		REMARK	
			Temp	TDS	PH (7-8)	COD (450 mg/l)	BOD (250 mg/l)	TSS (600 mg/l)	Temp	TDS	PH (7-8)	COD (<100mg/l)	BOD (<30mg/l)	TSS (<50mg/l)	F.C (<500)	HRS		MINS
			°c	ppm		ppm	ppm	ppm	°c	ppm		ppm	ppm	ppm	MPN/100mL			
1-Oct	24.42	24.00	30	1260	7.7	512	185	330	30	1115	7.9	106	25	48	370			ONLY ONE STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
2-Oct	25.08	24.00	30	1285	7.5	548	170	337	30	1130	8.1	110	27	52.0	430			ONLY ONE STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
3-Oct	23.76	24.00	30	1230	7.6	440	168	290	30	1075	7.9	98	26	42	360			ONLY ONE STREAM IS UNDER OPERATION
4-Oct	25.08	24.00	30	1325	7.5	512	180	325	30	1105	8.1	104	28	46.0	340			ONLY ONE STREAM IS UNDER OPERATION
5-Oct	24.42	24.00	30	1290	7.5	416	155	292	30	1050	7.9	96	25	39	310			ONLY ONE STREAM IS UNDER OPERATION
6-Oct	25.25	24.00	30	1305	7.5	512	160	318	30	1042	8.1	102	29	42	360	1	25	ONLY ONE STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
7-Oct	24.59	24.00	30	1298	7.5	432	155	291	30	1032	7.9	98	26	39	290			ONLY ONE STREAM IS UNDER OPERATION
8-Oct	25.41	24.00	30	1320	7.6	480	180	315	30	1085	8.1	104	25	41	230			ONLY ONE STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
9-Oct	24.95	24.00	30	1340	7.5	512	195	335	30	1102	7.9	106	26	43	225			ONLY ONE STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
10-Oct	23.70	24.00	30	1280	7.6	428	158	297	30	1086	8.1	96	24	38	270			ONLY ONE STREAM IS UNDER OPERATION
11-Oct	24.75	24.00	30	1370	7.5	480	175	330	30	1030	7.9	104	26	36	315			ONLY ONE STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
12-Oct	25.41	24.00	30	1390	7.6	458	172	345	30	1045	8.1	96	25	39	260			ONLY ONE STREAM IS UNDER OPERATION
13-Oct	23.76	24.00	30	1280	7.5	416	156	293	30	1025	7.9	92	24	36	280			ONLY ONE STREAM IS UNDER OPERATION
14-Oct	24.09	24.00	30	1295	7.6	556	185	335	30	1030	8.0	104	26	40	310			ONLY ONE STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
15-Oct	24.42	24.00	30	1310	7.7	468	175	297	30	1018	7.9	96	24	35	250			ONLY ONE STREAM IS UNDER OPERATION
16-Oct	24.42	24.00	30	1348	7.6	540	195	342	30	1038	7.9	106	25	37	270			ONLY ONE STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
17-Oct	25.59	24.00	30	1305	7.5	452	170	315	30	1015	7.8	92	23	34	230			ONLY ONE STREAM IS UNDER OPERATION
18-Oct	28.22	24.00	30	1260	7.6	380	158	275	30	1005	8.0	88	24	37	225	2	20	TWO STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
19-Oct	27.89	24.00	30	1290	7.5	416	165	295	30	1030	8.1	96	25	39	260			TWO STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
20-Oct	32.18	24.00	30	1220	7.6	384	155	316	30	1010	7.9	90	23	35	290			TWO STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
21-Oct	26.32	24.00	30	1320	7.5	396	160	335	30	1038	8.0	92	25	37	340			TWO STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
22-Oct	25.25	24.00	30	1390	7.6	484	185	340	30	1050	7.9	96	24	33	315			TWO STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
23-Oct	24.92	24.00	30	1370	7.5	468	160	360	30	1120	8.1	90	25	35	286			TWO STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
24-Oct	23.76	24.00	30	1340	7.6	440	165	346	30	1105	8.0	88	23	31	254			TWO STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
25-Oct	24.55	24.00	29	1360	7.5	480	180	330	30	1090	7.9	96	24	34	315			TWO STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
26-Oct	23.92	24.00	29	1320	7.7	464	185	350	30	1050	8.0	88	22	32	355			TWO STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
27-Oct	23.01	24.00	29	1275	7.5	460	175	310	29	1020	8.1	88	23	34	271	1	35	TWO STREAM IS UNDER OPERATION
28-Oct	22.94	24.00	28	1260	7.6	440	170	290	28	990	8.0	80	24	31	335			TWO STREAM IS UNDER OPERATION
29-Oct	23.27	24.00	28	1310	7.5	464	175	320	28	1020	8.1	96	22	33	254			TWO STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
30-Oct	22.85	24.00	28	1340	7.6	480	195	345	28	1035	8.1	92	24	36	365			TWO STREAM IS UNDER OPERATION Found Dye color in Raw Sewage
31-Oct	23.27	24.00	28	1230	7.7	416	165	295	28	1030	7.9	88	21	31	438			TWO STREAM IS UNDER OPERATION
TOTAL	771.39															5	20	
AVG	24.88	24.00	29.65	1,306.97	7.56	462.39	171.84	319.16	29.70	1,052.13	7.99	96.06	24.61	37.58	303.32			

Note : Their is ingress of Industrial Waste water [coloured] at STP from Sanigawan area, which was experienced on dates of 1,2,4,6,7,8,9,10,12,15,17,22,23,25,26,27,29,30 Oct. 2021.