

# NATIONAL MISSION FOR CLEAN GANGA (NMCG)

MINISTRY OF JAL SHAKTI DEPARTMENT OF WATER RESOURCES,  
RIVER DEVELOPMENT & GANGA REJUVENATION, GOVT. OF INDIA



जल शक्ति मंत्रालय  
जल संसाधन, नदी विकास और गंगा संरक्षण विभाग  
MINISTRY OF JAL SHAKTI  
DEPARTMENT OF WATER RESOURCES,  
RIVER DEVELOPMENT & GANGA REJUVENATION

DEVELOPMENT OF NEW SEWAGE TREATMENT PLANTS,  
REHABILITATION OF EXISTING SEWAGE TREATMENT  
INFRASTRUCTURE AND O&M FOR 15 YEARS IN KANPUR

UNDER

ONE CITY ONE OPERATOR CONCEPT THROUGH HYBRID ANNUITY  
BASED PPP MODE (HAM – KANPUR)

(STC agreement dated 19.04.2019 & LOA: Pr-12012/41/2018-PPP/NMCG dated 04.02.2019)

## Monthly Progress Report

Of

Project Engineer

January - 2023



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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 GoI approved the flagship Namami Gange program for cleaning, rejuvenation, and protection of the river Ganga. In January 2016, the GoI approved a hybrid annuity model to implement STP projects under the Namami Gange program on a PPP basis.

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

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

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

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

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

## 2. HYBRID ANNUITY MODEL (HAM)

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

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

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

## 3. OBJECTIVES

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

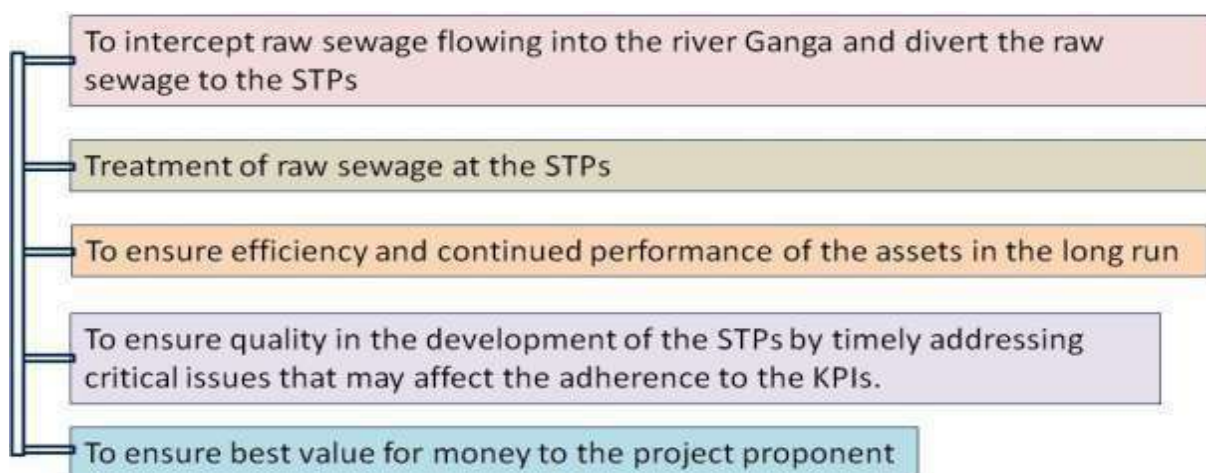


Figure 1: Objectives of NMCG and UP JAL NIGAM

#### 4. HAM KANPUR PROJECT AT A GLANCE

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

**Table 2.1: HAM Kanpur Project at a Glance**

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

## 5. PROJECT WISE DETAILS OF COMPONENTS UNDER HAM KANPUR PROJECT

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

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

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

### PANKHA FACILITIES

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

**Table 5.1: Pankha Facilities**

SN	STP Facility	Capacity/Dia./Size	Nos./Length
<b>Date of Start- Effective Date (11.10.2019)</b>			
<b>Scope of Work- New Construction and O&amp;M</b>			
1	STP	30 MLD	1
2	MPS	115MLD	1
3	ICI Nala IPS	25 MLD	1
4	Sundar Nagar	20 MLD	1
5	Thermal Nala (A) tapping	22 MLD	1
6	Thermal Nala (B)(tapping)	8 MLD	1
7	ICI Nala (tapping)	7.85 MLD	1
8	Rising main (IC Nala IPS to collection chamber)	800mm-φ	6.450 km
9	Rising main (Sundar Nagar IPS to collection chamber)	800mm-φ	0.547 km
10	Common Gravity main (collection chamberto MPS)	2000mm- φ	1.948Km
11	Sewer network		16.624 km
		350mm-φ	2.258 km
		400 mm-φ	0.611 km
		450 mm-φ	0.704 km
		500 mm-φ	0.718 km
		600 mm-φ	1.046 km
		700 mm-φ	1.079 km
		800 mm-φ	3.226 km
		900 mm-φ	1.171 km
		1000 mm- φ	0.060 km
		1200 mm-φ	2.290 km
		1600 mm-φ	1.635 km
		2000 mm-φ	1.826 km
12	Manhole		308 nos.



## UNNAO FACILITIES

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

**Table 5.2: Unnao Facilities**

SN	STP Facility	Capacity/Dia./Size	Nos./Length
<b>Date of Start- Effective Date (11.10.2019)</b>			
<b>Scope of Work- New Construction and O&amp;M</b>			
1.	STP	15 MLD	1
2.	Sump cum Pump house (MPS)	40 MLD	1
3.	I&D works (Nala tapping)	90 MLD	1
4.	Trunk Sewer	1200mm $\phi$	3.6Km
5.	Manholes		46 nos.
6.	Rising main (MPS to STP)	750mm $\phi$	100m
7.	Rising main (bypass)	750mm $\phi$	100m
8.	Effluent gravity channel (STP to discharge point)	1.5m x1.0m	300m
9.	Effluent disposal drain	700mm	570m

## SHUKLAGANJ STP FACILITIES

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

**Table 5.3: Shuklaganj Facilities**

SN	STP Facility	Capacity/Dia./Size	Nos./Length
<b>Date of Start- Effective Date (11.10.2019)</b>			
<b>Scope of Work- New Construction and O&amp;M</b>			
1.	STP	5 MLD	1
2.	Sump cum Pump house (MPS)	20 MLD	1
3.	Connecting sewer (in zone 2)	400-500mm $\phi$	200m
	Effluent Disposal line	400mm $\phi$	310m
	(I&D to STP)	600mm $\phi$	430m
	I&D works (Nala tapping)	45 MLD	1
4.	Collection chamber	3.5mx3.6mx1m	1
5.	Rising main (MPS to STP)	500mm $\phi$	50m
6.	Rising main (bypass)	500mm $\phi$	50m
7.	Effluent channel (STP to discharge point)	1.5m x1m	100m

## JAJMAU (PHASE I) FACILITIES

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

**Table 5.4: Jajmau Facilities**

SN	STP Facility	Capacity/Dia./Size
<b>Date of Start- Effective Date (11.10.2019)</b>		
<b>Scope of Work- Renovation and O&amp;M</b>		
1	STP (ASP) with power Generation	130 MLD
2	Sump cum Pump house (TEPH)	200 MLD
3	CCT	173 MLD
4	Nawabganj IPS	14.35 MLD
	PH1	5.35 MLD
	PH2	9 MLD
7	Parvat IPS	66.67 MLD
	PH1	32.83 MLD
	PH2	21.6 MLD
	PH3	12.4 MLD
11	Baba Ghat / Muar mill IPS	7.42 MLD
	Guptar Ghat IPS	1.44 MLD
	Jajmau CSPA	129.6 MLD

## JAJMAU PHASE II STP FACILITY

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

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

**BINGAWAN FACILITIES**

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

**Table 5.5: Bingawan Facilities**

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

**SAJARI FACILITIES**

Project wise component detail of Sajari is given in table 5.6

**Table 5.6: Sajari Facilities**

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

## 6. PHYSICAL PROGRESS OF WORK

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

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

The overall physical progress of the facilities have been taken in the same proportion as financial progress as per milestones in approved Construction Plan. Overall progress can be monitored as project works have been divided in eight milestones each having progress of 12.5%. Execution of works of new STP facilities and O&M of existing facilities were hampered because of COVID-19 pandemic. Nationwide lockdown was imposed in April 2020 to June 2020 due to which work progress was affected severely. Again in April 2021, due to second wave of COVID-19 progress of work was again affected as majority of workers, staff and officials were affected by the second wave of COVID pandemic.

Once process of unlock started, the Concessionaire was asked to speed up the work. The Concessionaire submitted revised construction plans for new STP construction facilities compensating relevant construction milestone works with extended timeline. Originally, the scheduled date of project completion was 10<sup>th</sup> October 2021 i.e. 24 months from the effective date. But due to COVID pandemic and heavy rainfall during monsoon season of 2021, milestone works were lagging far behind the schedule. On dated 03.09.2021, in the JMD UPJN meeting, new target date for completion of balance works of Pankha and Unnao STPs was given i.e. 15<sup>th</sup> Dec. 2021. But the works of these STPs couldn't be completed on 15<sup>th</sup> Dec. 2021 due to inadequate deployment of manpower and poor work planning / lack of double shift working at these facilities. In the NMCG meeting dated 30.12.2021, the Concessionaire assured to make Pankha plant operational on 15.01.2022 by taking Thermal Nala-A flow into the STP. For Unnao STP, NMCG directed the Concessionaire to complete the works of STP by 31.01.2022.

In the NMCG meeting dated 17.02.2022 the Concessionaire requested for final time extension due to COVID-19 1<sup>st</sup> & 2<sup>nd</sup> waves as per guidelines released by GOI and also requested for extension due to additional works under variation. With above, the Concessionaire requested for EOT for Pankha till 25/04/2022 and for Unnao till 15/05/2022. DG NMCG discussed EOT with UPJN and PE and it was decided to grant the EOT for the aforesaid period with condition of double penalty if works still not completed within extended time. The progress of construction of new STP facilities is given in following headings.

During 11<sup>th</sup> & 12<sup>th</sup> April 2022, ED (T) along with Mr. Rajat Kumar Gupta, SWMS NMCG visited Kanpur to know about the status and progress of the project. It was noted that due

to fund issues with KRMPL, desired progress of STPs has not been achieved. PE informed that at Pankha and Unnao STPs 85-90% of civil works are completed but due to non supply / erection of E&M equipments and incomplete works of sewer laying/manholes and IPS (Sundar Nagar & ICI Nala) progress is not increasing. Also, since last month manpower is extremely low (15-20) and KRMPL will not be able to complete the Pankha and Unnao STPs at scheduled extended dates.

In the NMCG meeting dated 27.04.2022, chaired by DG, progress and status of HAM Kanpur project was again discussed. It was noted that KRMPL has missed the final deadline i.e. 25.04.2022 for the completion of Pankha STP and will also miss the Unnao STP completion date i.e. 15.05.2022. DG, NMCG expressed displeasure towards KRMPL and after discussion completion dates of Pankha and Unnao were decided as 15.07.2022 and 15.06.2022 respectively. DG, NMCG also put condition that failing to complete the mentioned plants on time KRMPL will be subjected to triple fold penalty.

On dated 5<sup>th</sup> & 6<sup>th</sup> June 2022, DG, NMCG along with ED (T) and Mr. R.K. Gupta, SWMS NMCG visited Kanpur for progress review of HAM Kanpur Project. During visit DG NMCG was disappointed with the KRMPL regarding slow progress of the project. DG NMCG gave strict directions to increase the manpower, required machinery and expedite the Pankha, Unnao, Jajmau and Sajari STP works. New timeline to complete Pankha & Unnao STP with full plant operation on SCADA control given is 31/07/2022 and 15/07/2022 respectively.

For Sajari plant, DG noticed that O&M of the plant is not in order with visibly septic conditions in aeration tank. There was recurrent operational issues with thickener, sludge pumps etc. leading to sludge buildup. KRMPL committed to improve the O&M and compliance to the KPIs by 30/06/2022. Improvement has been made in the aeration tank operation and the KPIs are also meeting. But the issues of sludge thickeners operation, gas generation, sludge pumps etc still not resolved.

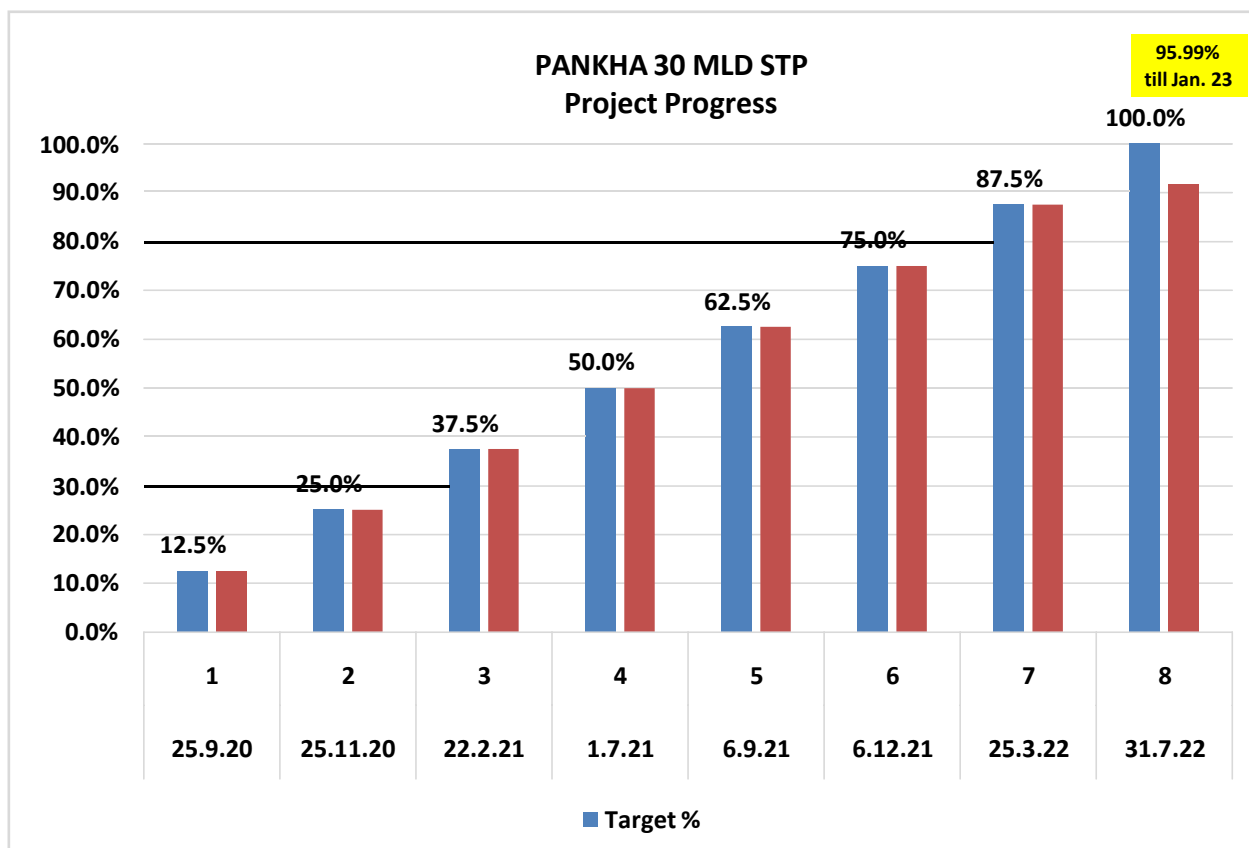
In the NMCG meeting dated 02/08/2022 and Kanpur visit dated 08/08/2022, ED (P) NMCG gave strict directions to increase the manpower, required machinery and expedite the Pankha, Unnao, Jajmau and Shuklaganj STP works. New timeline to complete Pankha, Unnao & Shuklaganj STP with full plant operation on SCADA control given is 31/10/2022, 15/10/2022 and 13/06/2022 respectively.

In the NMCG meeting dated 05/09/2022 ED (P) NMCG again reviewed the progress status and gave strict directions to increase the manpower, required machinery and expedite the Pankha, Unnao, Jajmau and Shuklaganj STP works.

In the NMCG meeting dated 01/11/2022 ED (P) NMCG reviewed the progress status and gave strict directions to increase the manpower, required machinery and expedite the Pankha, Unnao, Jajmau and Shuklaganj STP works. New date for completion of Pankha and Unnao STPs is 20/12/2022.

**30 MLD PANKHA STP FACILITIES & ASSOCIATED INFRASTRUCTURE**

- Total progress of 30 MLD Pankha STP till Jan. 2023 is 95.99%. 7 milestones have been achieved out of total 8.
- As per direction given in the NMCG meeting dated 01.11.2022, Pankha STP was needed to complete by 20.12.2022.

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

Milestone	Schedule Completion date	Actual completion date	Milestone Amount (Rs.)	Targeted Progress till 31.01.2023		
				Milestone Amount (Rs.)	% Target	% Achieved
1st milestone	25.09.2020	25.09.2020	12,48,39,750.00	124,839,750	12.50%	12.50%
2nd milestone	25.11.2020	25.11.2020	12,48,39,750.00	12,48,39,750	12.50%	12.50%
3rd Milestone	22.02.2021	22.02.2021	12,48,39,750.00	12,48,39,750	12.50%	12.50%
4th Milestone	01.07.2021	01.07.2021	12,48,39,750.00	12,48,39,750	12.50%	12.50%
5th Milestone	06.09.2021	06.09.2021	12,48,39,750.00	12,48,39,750	12.50%	12.50%
6th milestone	06.12.2021	06.12.2021	12,48,39,750.00	12,48,39,750	12.5%	12.50%
7th milestone	25.03.2022	25.03.2022	12,48,39,750.00	12,18,69,084	12.5%	12.20%
8th milestone	20.12.2022 Approval pending	Not completed	12,48,39,750.00	87,768,039	12.5%	8.79%
			<b>99,87,18,000.00</b>	<b>958,675,624</b>	<b>100%</b>	<b>95.99%</b>

**Unit Wise Progress Status of 30 MLD STP Pankha**

STP Units	Target %	Achieved %
I&D structure (All 3)	100%	90%
Sewer Laying (15 km of 16.624)	100%	90%
Manholes (245 completed of 308)	100%	80%
Rising Main (6.65 km of 7 km)	100%	93%
MPS	100%	96%
PTU	100%	95%
SBR	100%	97%
Air Blower	100%	94%
CCT	100%	96%
Chlorination Room	100%	92%
Supernatant Sump	100%	96%
Sludge Thickener	100%	98%
Centrifuge Building	100%	95%
Effluent Disposal System	100%	90%
Admin Building	100%	95%
Staff Quarter	100%	98%
Guard Room	100%	97%
Transformer Yard	100%	94%
DG Set	100%	95%
Boundary Wall	100%	92%

**Detail of Balance / Pending Works Status**

Detail of Balance / Pending Works Status is given in the **Annexure 1.1** attached separately with this MPR.

**Milestone Wise Progress of Work**

Detail of Milestone wise progress is given in the **Annexure 1.2** attached separately with this MPR.

## PHOTOGRAPHS OF PANKHA STP SITE

**MPS works****VCB Panel & Admin Building**





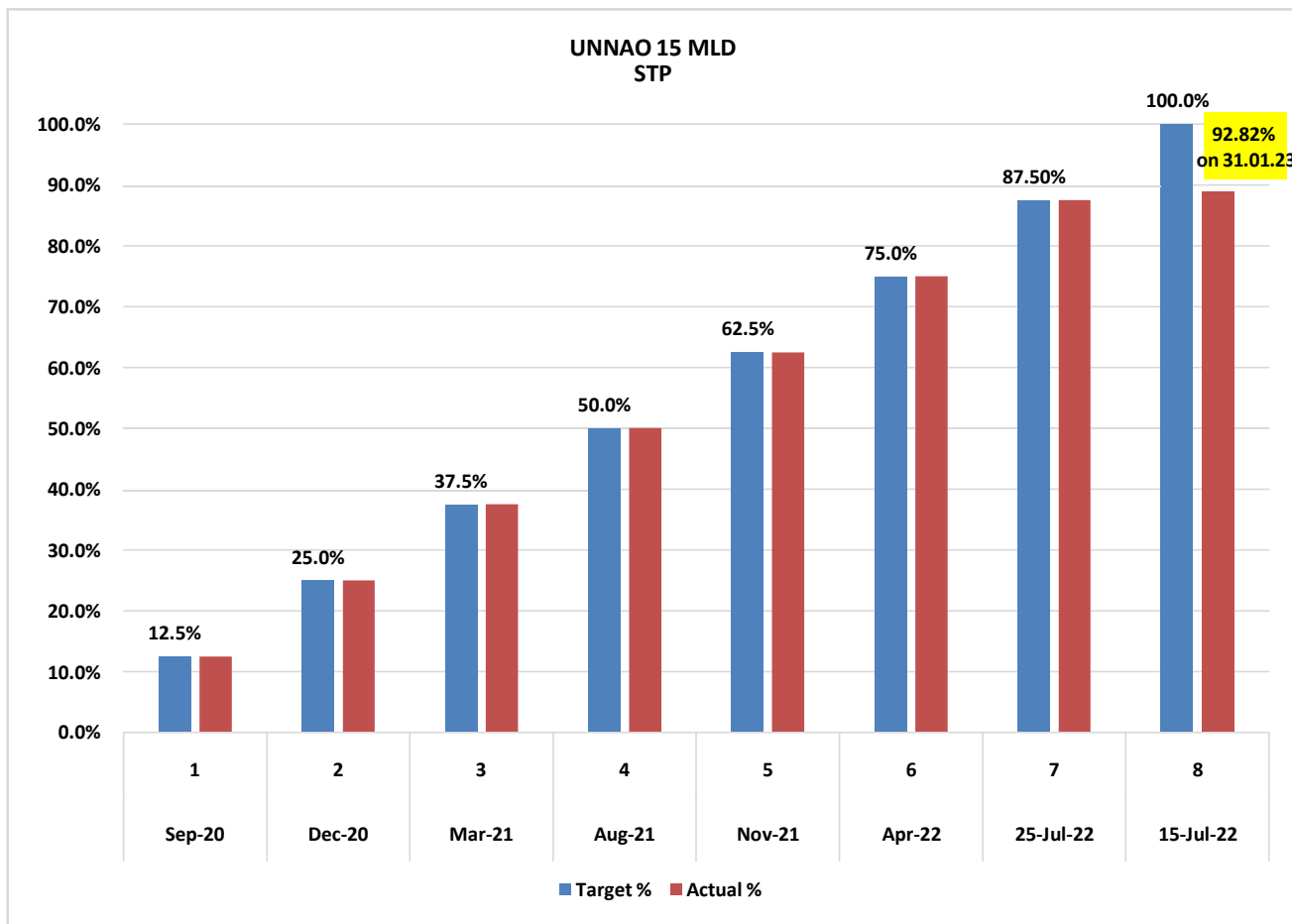
**Chlorination Room**



**Centrifuge Building**

**15 MLD UNNAO STP & ASSOCIATED INFRASTRUCTURE**

- Total progress till Jan 2023 was 92.82%; Till date 7 milestones out of 8 completed.
- Manpower deployed at the 15 MLD STP Unnao site was in the range of 30-40 nos.
- In Dec. 2022 progress was also 92.65%. There is no significant increment in Unnao STP progress.



➤ **Earth Filling Status:**

Permission for earth filling (19000 cum) was given to the Subcontractor of KRMPL (M/s Girjeshwar Trading Company) by DM Unnao vide letter no. NOC/OE/2022/5/13/122855 dated 30.11.2022. In the same reference UPJN vide letter no. 2685/WS-97/197 dated 03.12.2022 directed KRMPL to start earth filling activity immediately and update about progress of earth filling work on daily basis. It is to be noted that permission of earth excavation from the designated Gata (10 nos.) was given till 27.02.2023.

- Since 05.12.2022, 857 no. of Dumpers have been reported to dump soil at the 15 MLD STP, Unnao. Considering average 12 cum earth/dumper, only 10284 cum earth filling has been done against permitted 19000 cum. Earlier, 517 no. of Dumpers earth was dumped during 30.04.2022 to 12.06.2022. Total 16488 cum earth filling has been done against permitted 25000 cum till Jan. 2023.
- KRMPL need to expedite the earth filling and related activities including layer by layer mechanical compaction. Further Field Dry Density (FDD) test should be conducted for each layer after compaction.
- **Sewer Line Issue:**

- i. PE raised concern about choked sewer and Manholes and instructed KRMPL multiple

times for silt cleaning by jetting and super sucker. KRMPL did not comply and delayed the work. Post monsoon water table came up and during dewatering of the line silvery sand started coming through the line which could compromise the safety of the nearby structures i.e. PTU and MPS.

- ii. KRMPL vide letter no. UPJN/KRMPL/Kanpur/2022-23/2740 dated 14/12/2022 disagreed for excavation at joints of sewer line for leakage checking due to safety of adjacent structures.
  - iii. Now, KRMPL acknowledged that laid sewer line from MH 40 to 42 can't be rectified and a temporary arrangement for pumping of sewer will be made till the new sewer line is laid through alternate route.
  - iv. At this juncture of time, to prevent further delay in the STP operation, our opinion is that an alternate route for sewer laying should be finalized. Considering KRMPL proposal submitted vide letter no. UPJN/KRMPL/Kanpur/2022-23/2752 dated 26/12/2022 which has 4 different route options, PE has advised to select the route for sewer laying which will go through the STP campus area to the MPS.
  - v. It is to be noted that the Concessionaire has admitted that cost of the new sewer laying will be borne by KRMPL and there will be no additional cost / variation to the Client.
  - vi. Additionally, KRMPL informed regarding temporary arrangement for sewer line (MS pipe of 500 mm dia) from MH 38/39 at 15 MLD STP Unnao vide letter no. UPJN/KRMPL/Kanpur/2022-23/2752 dated 26/12/2022. Through this line KRMPL will pump sewage from MH 38/39 to the MPS and start trial run.
- Status of progress of different STP units are as following:

STP Units	Target %	Achieved %
I&D structure	100%	100%
Sewer Laying (3.2 km of 3.2 km)	100%	90% (Cleaning and testing due)
Manholes (42 completed of 42)	100%	90% (Cleaning and testing due)
MPS	100%	100%

PTU	100%	100%
SBR	100%	100%
Air Blower	100%	100%
CCT	100%	95%
Chlorination Room	100%	95%
Supernatant Sump	100%	95%
Sludge Thickener	100%	95%
Centrifuge Building	100%	100%
Effluent Disposal System	100%	100%
Admin Building	100%	90%
Staff Quarter	100%	95%
Guard Room	100%	95%
Transformer Yard	100%	95%
DG Set	100%	95%
Boundary Wall	100%	90%

#### SUMMARY OF OVERALL PROGRESS AT UNNAO STP

Milestone	Schedule Completion date	Actual completion date	Milestone Amount (Rs.)	Progress till 31.01.2023		
				Milestone Amount (Rs.)	% Target	% Achieved
1st milestone	25.09.2020	25.09.2020	4,78,36,250.00	47836250.0	12.50%	12.50%
2nd milestone	06.12.2020	06.12.2020	4,78,36,250.00	47836250.0	12.50%	12.50%
3rd Milestone	25.03.2021	25.03.2021	4,78,36,250.00	47836250.0	12.50%	12.50%
4th Milestone	07.08.2021	07.08.2021	4,78,36,250.00	47836250.0	12.50%	12.50%
5th Milestone	15.11.2021	15.11.2021	4,78,36,250.00	47836250.0	12.50%	12.50%
6th milestone	25.03.2022	04.04.2022	4,78,36,250.00	47,563,181	12.50%	12.43%
7th milestone	25.04.2022	Not completed	4,78,36,250.00	34,422,435	12.50%	8.99%
8th milestone	15.06.2022	Not completed	4,78,36,250.00	34,048,966	12.50%	8.89%
<b>Overall Progress</b>			<b>38,26,90,000.00</b>	<b>355,215,832</b>	<b>100%</b>	<b>92.82%</b>

#### Detail of Balance / Pending Works Status

Detail of Balance / Pending Works Status is given in the **Annexure 2.1** attached separately with this MPR.

#### Milestone Wise Progress of Work

Detail of Milestone wise activities and their progress of work for Unnao STP is given in the **Annexure 2.2** attached separately with this MPR.

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**PHOTOGRAPHS OF UNNAO STP SITE**

**MPS final works**



**Decanter Installation & Testing**





**Diffuser leakage testing done**

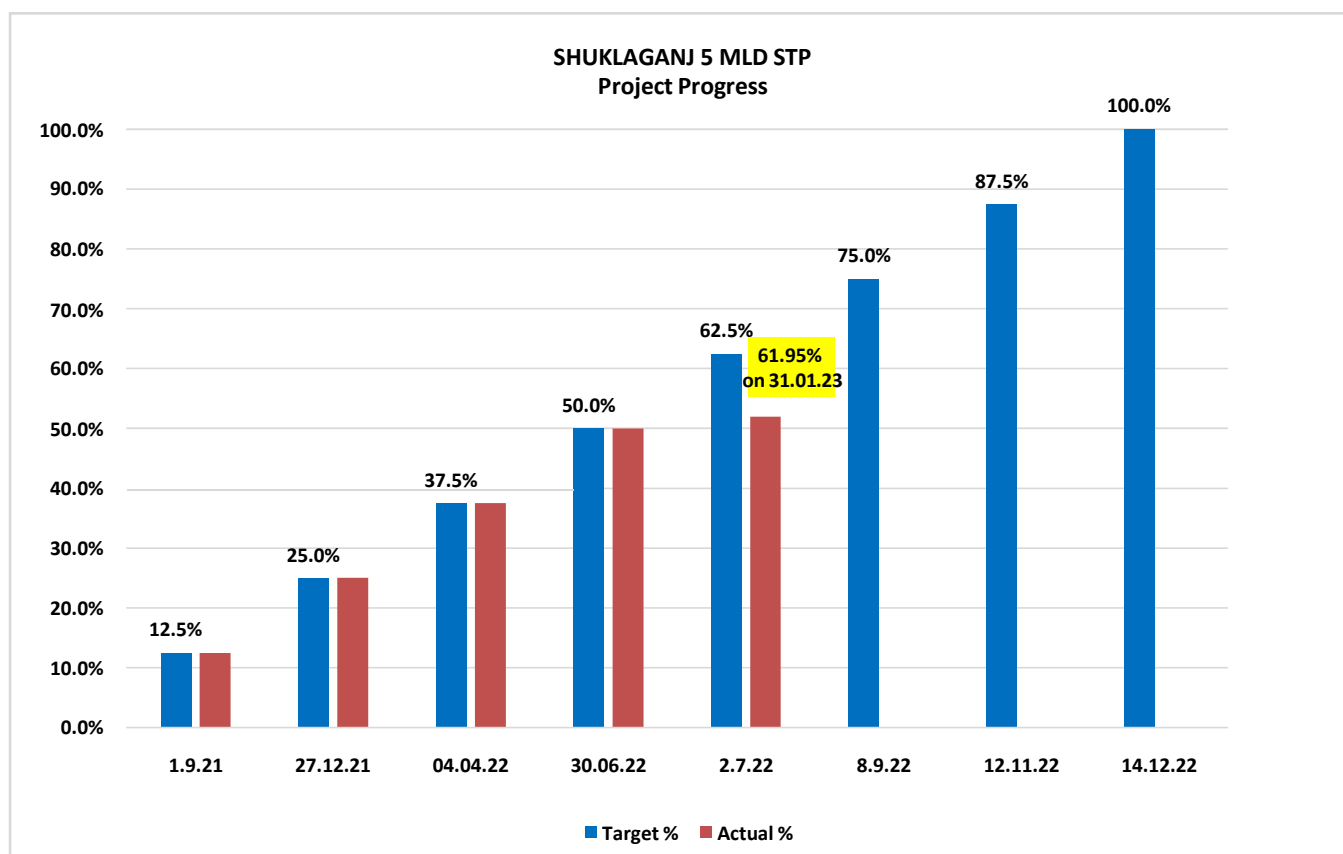


**HT VCB Panel testing done**

**05 MLD SHUKLAGANJ STP & ASSOCIATED INFRASTRUCTURE**

Progress of construction works for 05 MLD STP at Shuklaganj is very slow. Total progress till Jan 2023 is 61.95%. In the meeting dated 01.11.2022, EOT for Shuklaganj STP is recommended till 13.06.2022. Status and progress of Shuklaganj STP is as following:

- During Dec 2022, the manpower deployed at the 05 MLD STP site was 15-20 nos. KRMPL need to increase the manpower up to 100 to achieve the target on time;
- EOT till 13.06.2023 has been considered on behalf of hindrances due of COVID 2nd wave and extra works due poor SBC/land change, flooding and IITR vetting etc.



- Low Manpower (29 against >100).
- KRMPL needs to expedite the progress by increasing the manpower and working on multiple fronts.
- During visit, progress of different STP components was checked as per the approved construction plan and it was found that progress of 05 MLD STP is very slow. Detail is given below:

STP Units	Target %	Achieved %
I&D	38%	0%
Sewer Laying (900 mm, 424m)	38%	10%
Manhole (09 nos.)	38%	0%
Pumping Main (500mm dia, 80 m)	38%	0%
MPS	38%	70%

PTU	38%	20%
SBR	38%	25%
Blower	38%	20%
CCT, Chlorination Building	38%	10%
Thickener, Supernatant Sump	38%	70%
Centrifuge	38%	0%
Admin Building	38%	20%
Staff Quarter	38%	25%
Guard Room	38%	70%
Boundary Wall	38%	30%

### SUMMARY OF OVERALL PROGRESS AT SHUKLAGANJ STP

Milestone	Schedule Completion date	Actual completion date	Milestone Amount (Rs.)	Progress till 31.12.2022		
				Milestone Amount (Rs.)	% Target	% Achieved
1st milestone	01.09.2021	01.09.2021	2,66,18775.0	26618774.62	12.50%	12.50%
2nd milestone	27.12.2021	27.12.2021	2,66,18775.0	26618774.62	12.50%	12.50%
3rd Milestone	25.03.2022	04.04.2022	2,66,18775.0	26,618,775	12.50%	12.50%
4th Milestone	02.05.2022	-	2,66,18775.0	26,618,775	12.50%	12.50%
5th Milestone	02.07.2022	-	2,66,18775.0	13,197,524	12.50%	6.19%
6th milestone	08.09.2022	-	2,66,18775.0	9,625,260	12.50%	4.51%
7th milestone	12.11.2022	-	2,66,18775.0	818,871	12.50%	0.38%
8th milestone	14.12.2022	-	2,66,18775.0	1,800,000	12.50%	0.84%
<b>Overall Progress</b>			<b>21,29,50,200.0</b>	<b>131,916,755</b>	<b>100%</b>	<b>61.95%</b>

### Milestone Wise Progress of Work

Detail of Milestone wise activities and their progress of work for Shuklaganj STP is given in the **Annexure 3.1** attached separately with this MPR.



## Photographs of Shuklaganj STP



**MPS works**



**PTU column casting**



**Supernatant Sump**



**CCT Building works**

## 7. PRESENT STATUS AND ISSUES OF EXISTING STP O&M

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

Till January 2023 overall progress is **69.77%**.

- During the Principal Secretary and ED (P) visit held on 18.11.2022 & 19.11.2022:
  - i. KRMPL was directed to use proper sludge handling and disposal methods.
  - ii. KRMPL was directed to make immediate provisions for 100% backup power for 130 MLD & 43 MLD STPs by renting required number of additional DG unit until new DG and Gas Engines units can be installed & commissioned.
- During NMCG's site visit held on 16.11.2022 & 17.11.2022,
  - i. KRMPL was directed to clear the waste sludge dumped near 43 MLD inlet mechanical screens & grit chamber area onsite.
  - ii. KRMPL was instructed to use appropriate lining sheets before storing solid waste generated onsite.
  - iii. KRMPL was instructed to take necessary action to utilize them to its full capacity and any additional sludge has to be hauled offsite.
  - iv. KRMPL was directed to stop the work of newly installed DI Sludge Pipeline and was also instructed to dig up the pipeline and allow UPJN & PE to inspect for approval and simultaneously submit the drawings with design calculations for the same.
  - v. KRMPL was directed to supply spare parts list and keep stock of all necessary spare parts onsite at the earliest.
  - vi. KRMPL was directed to ensure power backup for the plant at the earliest and mobilize OEM people.
  - vii. KRMPL was directed to raise the RFI after taking OEM certificates. OEM personnel should be present during the inspection of UPJN & PE.

### MILESTONE WISE ACTIVITIES AND PROGRESS

Milestone	Schedule Completion date	Actual Completion date	Milestone Amount	Targeted progress till 31.01.2023		
				Milestone Amount	% Target	% Achieved
1 <sup>st</sup>	15.10.2021	15.10.2021	240160000.00	223,275,791	25%	23.24%
2 <sup>nd</sup>	15.03.2022	15.03.2022	240160000.00	202,117,337	25%	21.04%
3 <sup>rd</sup>	15.06.2022	Not completed	240160000.00	149,184,030	25%	15.53%
4 <sup>th</sup>	09.08.2022	Not completed	240160000.00	95,626,909	25%	9.95%
Overall progress	960640000.000			<b>670,204,067.22</b>	100%	69.77%
<b>Total %</b>	<b>100%</b>				<b>100%</b>	<b>69.77%</b>

**ISSUES & STATUS OF PENDING COMPLIANCE OF 130 MLD JAJMAU PHASE I**

SN	Equipment	Issues in Dec 2022	Status in Jan 2023	Compliance / Remarks
1	Collection Chamber	<ul style="list-style-type: none"> <li>Handrailings completed but toeguard are not installed.</li> </ul>	<ul style="list-style-type: none"> <li>Toe-guard is not installed.</li> </ul>	<ul style="list-style-type: none"> <li>Pending from KRMPL's end.</li> </ul>
2	Gates/ Valves	Completed	<ul style="list-style-type: none"> <li></li> </ul>	<ul style="list-style-type: none"> <li>Completed by KRMPL</li> </ul>
3	Fine screen chamber (Mechanical/M anual)	<ul style="list-style-type: none"> <li>Mechanical Fine Screen no. 1 &amp; 2 are under maintenance.</li> <li>Automation System not installed.</li> </ul>	<ul style="list-style-type: none"> <li>Mechanical Fine Screen no. 1 &amp; 2 are under maintenance.</li> <li>Automation System not installed.</li> </ul>	<ul style="list-style-type: none"> <li>Pending from KRMPL's end.</li> </ul>
4	Grit Chamber	<ul style="list-style-type: none"> <li>Installation of LPBS pending</li> <li>Grit Mechanism No. 3 torque switch was not in working condition.</li> </ul>	<ul style="list-style-type: none"> <li>Installation of LPBS pending</li> <li>Grit Mechanism No. 3 torque switch was not in working condition.</li> </ul>	<ul style="list-style-type: none"> <li>Pending from KRMPL's end.</li> </ul>
5	Inlet Flow Meter	<ul style="list-style-type: none"> <li>Flow chart and level scale not installed.</li> </ul>	<ul style="list-style-type: none"> <li>Flow chart and level scale not installed.</li> </ul>	Pending from KRMPL's end.
6	Primary Sedimentation Tank	<ul style="list-style-type: none"> <li>Overflow was observed in PST No. 1 &amp; PST No.2.</li> <li>Scum box rectification Work pending.</li> <li>Installation of LPBS pending.</li> <li>Torque Switch not working properly for PST No.2.</li> <li>PST-1 Torque switch hooter alarm was not working properly.</li> </ul>	<ul style="list-style-type: none"> <li>PST No. 3 has been charged.</li> <li>Overflow was observed in PST No. 1 &amp; PST No.2.</li> <li>Scum box rectification Work pending.</li> <li>Installation of LPBS pending.</li> <li>Torque Switch not working properly for PST No.2.</li> <li>PST-1 Torque switch hooter alarm was not working properly.</li> </ul>	<ul style="list-style-type: none"> <li>Pending from KRMPL's end.</li> </ul>
7	Sludge Thickener Tank	<ul style="list-style-type: none"> <li>Sludge thickner no. 1 is operational but torque switch are not working properly &amp; Thickner no.2 is non-operational.</li> <li>RFI was raised for PST No.3, STC and UPJN has inspected the PST No. 3 and submitted their</li> </ul>	<ul style="list-style-type: none"> <li>Sludge thickner no. 1 is operational but torque switch are not working properly &amp; Thickner no.2 is non-operational.</li> </ul>	<ul style="list-style-type: none"> <li>Pending from KRMPL's end.</li> </ul>



SN	Equipment	Issues in Dec 2022	Status in Jan 2023	Compliance / Remarks
		observations vide STC letter 1936 compliance to which is pending till date.		
8	Blending Tank Agitator	<ul style="list-style-type: none"> <li>Installation of LPBS</li> </ul>	<ul style="list-style-type: none"> <li>Installation of LPBS pending</li> </ul>	Pending from KRMPL's end.
9	Aeration Tank	<ul style="list-style-type: none"> <li>KRMPL has not completed the sludge removal work from Aeration tank no. 2 till date.</li> <li>Sluice gate not replaced, Cable tray and electrical termination is still pending.</li> </ul>	<ul style="list-style-type: none"> <li>Sludge removal work from aeration tank no. 2 is in progress.</li> <li>Sluice gate not replaced, Cable tray and electrical termination is still pending.</li> </ul>	<ul style="list-style-type: none"> <li>Pending from KRMPL's end.</li> </ul>
10	Return Sludge Pump House	<ul style="list-style-type: none"> <li>Renovation work for Pump no. 4 pending.</li> <li>Replacement of valves, NRVs and pipes are pending.</li> <li>Cable tray, LCS Panel, internal electrification work pending.</li> </ul>	<ul style="list-style-type: none"> <li>Renovation work for Pump no. 4 pending.</li> <li>Replacement of valves, NRVs and pipes are pending.</li> <li>Cable tray, LCS Panel, internal electrification work pending.</li> </ul>	<ul style="list-style-type: none"> <li>Pending from KRMPL's end.</li> </ul>
11	Treated Effluent Pump House	<ul style="list-style-type: none"> <li>5 nos. of pumps are found in operation &amp; 4nos. of pumps found in not in working condition and balance 02 nos. is missing since handover.</li> <li>Cable tray, LCS Panel, internal electrification work pending.</li> </ul>	<ul style="list-style-type: none"> <li>7 nos. of pumps are found in operation &amp; 2nos. of pumps found in not in working condition and balance 02 nos. is missing since handover.</li> <li>Cable tray, LCS Panel, internal electrification work pending.</li> </ul>	<ul style="list-style-type: none"> <li>Pending from KRMPL's end.</li> </ul>

SN	Equipment	Issues in Dec 2022	Status in Jan 2023	Compliance / Remarks
12	Belt Filter Press system	<ul style="list-style-type: none"> <li>At plinth level, Improper Column bar lapping found in Belt filter building. Column Starters steel shifted in one side &amp; Cover for column is not same out at periphery.</li> <li>BFP supply completed.</li> </ul>	<ul style="list-style-type: none"> <li>BFP brick work is pending.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter No. 1936 dated 30.12.2022 and STC Letter 1909 dated 12.12.2022</li> </ul>
13	Supernatant Pumps	<ul style="list-style-type: none"> <li>Supply of pumps &amp; renovation work</li> </ul>	<ul style="list-style-type: none"> <li>Pending</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter 1904 dated 08.12.2022.</li> </ul>
14	Sludge Digester	<ul style="list-style-type: none"> <li>Civil renovation work</li> <li>Supply of equipments</li> </ul>	<ul style="list-style-type: none"> <li>Pending</li> <li>Pending</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter 1904 dated 08.12.2022.</li> </ul>
15	Final Sedimentation Tank	<ul style="list-style-type: none"> <li>Civil renovation work for FST no 3 is pending.</li> <li>Supply of equipment</li> <li>FST-1 Torque switch is not working.</li> <li>FST-2 Torque switch hooter alarm was not working properly.</li> <li>Compliance for PE Observations on RFI vide letter 1855A dated 04.11.2022 &amp; letter no 1899A dated 26.11.2022 is still pending.</li> </ul>	<ul style="list-style-type: none"> <li>Pending</li> <li>Pending</li> <li>FST-1 Torque switch is not working.</li> <li>FST-2 Torque switch hooter alarm was not working properly.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter No. 1936 dated 30.12.2022, STC Letter No. 1931 dated 27.12.2022, STC Letter No. 1875 dated 15.11.2022, STC Letter No. 1889 dated 25.11.2022.</li> </ul>
16	New CCT & TEPH	<ul style="list-style-type: none"> <li>TEPH excavation&amp; PCC is completed &amp; footing Reinforcement placement started.</li> <li>The Reinforcement and shuttering works of the TEPH &amp; CCT is going on at a very slow pace; the major pending items need to be addressed at the earliest.</li> </ul>	<ul style="list-style-type: none"> <li>TEPH excavation&amp; PCC is completed &amp; footing Reinforcement placement in progress.</li> <li>Wall construction for the TEPH has started.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter 1936 dated 30.12.2022 and STC Letter 1909 dated 12.12.2022.</li> </ul>

17	Power Backup (DG set & DFG)	Only 2 out of 5 Nos. DFG sets (DFG no. 02 & 03) are functional, & 2 no. 1250 KVA rental DG set are available at site for proper operation of plant during shutdown of Power.	<ul style="list-style-type: none"> <li>Only 2 out of 5 Nos. DFG sets (DFG no. 02 &amp; 03) are functional, &amp; 2 no. 1250 KVA rental DG set are available at site for proper operation of plant during shutdown of Power.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter 1936 dated 30.12.2022</li> </ul>
18	RTOLMS	<ul style="list-style-type: none"> <li>Design, drawing still pending</li> </ul>	<ul style="list-style-type: none"> <li>Design, drawing still pending</li> </ul>	<ul style="list-style-type: none"> <li>Pending from KRMPL's end</li> </ul>
19	Sludge disposal system	<ul style="list-style-type: none"> <li>Mr. Madhav Kumar asked KRMPL to submit the calculation of sludge generation &amp; maintain the daily sludge removal record.</li> <li>NMCG Team directed KRMPL to remove sludge from STP site at the earliest.</li> </ul>	<ul style="list-style-type: none"> <li>Not complied by KRMPL</li> <li>Not complied by KRMPL</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter 1936 dated 30.12.2022</li> </ul>
20	New Laboratory	<ul style="list-style-type: none"> <li>Under Renovation</li> </ul>	<ul style="list-style-type: none"> <li>Under Renovation</li> </ul>	Pending from KRMPL's end
21	Scrubbing & Flaring System	Supply pending Civil foundation work	Pending Pending	Refer STC Letter 1936 dated 30.12.2022
22	Combined Sewage Pumping Station (CSPS)	Pump supply pending Civil work	Pending Pending	Pending from KRMPL's end
23	Substation	HT & LT room civil construction work	Pending	Refer STC Letter 1936 dated 30.12.2022
24	Joint Sampling & Testing by NABL Laboratory	IIT Kanpur has taken only one composite sample on 21.12.2022 & 22.12.2022 and test result has been submitted by KRMPL.	IIT Kanpur has taken only one composite sample on 18.01.2023 & 19.01.2023 and test result has been submitted by KRMPL.	Test reports have been attached separately.

### Detail of Balance Work Status

Balance Work Status of 130 MLD STP Jajmau attached in **Annexure 4.1** separately with this MPR.

### Detail of Milestone Wise Progress

Milestone wise progress of 130 MLD STP Jajmau attached in **Annexure 4.2** separately with this MPR.

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

- i. **Compliance of Inspection Reports** has not submitted inspection done by NMCG/UPJN and STC team. Inspection done details with their compliance status given below for 130 MLD STP and IPSsJajmau Phase-I :-

S.N	Inspection done dated	Description of Inspection details	Compliances reports status
1.	02.09.2021	Inspection report issued on 06.09.2021	Not complied by KRMPL
2.	18.09.2021	Inspection report issued on 24.09.2021	Not complied by KRMPL
3.	30.09.2021	Inspection report issued on 01.10.2021	Not complied by KRMPL
4.	07.10.2021	Inspection report issued on 31.10.2021	Not complied by KRMPL
5.	10.10.2021		
6.	23.10.2021		
7.	28.10.2021		
8.	29.10.2021		
9.	23.11.2021	Inspection report issued on 30.11.2021	Compliance report submitted by KRMPL
10.	27.11.2021		
11.	10.12.2021	Inspection report issued on 27.12.2021 for 130MLD STP Jajmau	Compliance report submitted by KRMPL
12.	15.12.2021		
13.	16.12.2021		
14.	04.01.2022	Inspection report issued on 10.1.2022 for 130 MLD STP, IPSs and CSPS.	Compliance report submitted by KRMPL
15.	01.02.2022	Inspection report issued on 07.2.2022 and 25.02.2022 for 130 MLD STP, IPSs and CSPS Jajmau	Not complied by KRMPL
16.	03.02.2022		
17.	25.02.2022		
18.	02.03.2022	Inspection report issued on 09.03.2022	Not complied by KRMPL
19.	05.04.2022	Inspection report issued on 08.04.2022 for 130 MLD STP Jajmau	Not complied by KRMPL
20.	07.04.2022	Inspection report issued on 07.04.2022 for 130 MLD IPSs facilities.	Not complied by KRMPL
21.	12.04.2022	ED(T) D. P Mathuria Sir Site visit and Inspection report issued on 20.04.2022 for 130 MLD STP and CSPS facilities	KRMPL has submitted compliance report vide KRMPL letter no. UPJN/KRMPL/Kanpur/2022-23/O&M/009 dated 13.06.2022 received our office on 17.06.2022
22.	19.04.2022	Inspection report issued on 20.04.2022 for 130 MLD STP and CSPS Jajmau facilities	KRMPL has submitted compliance report vide KRMPL letter no. UPJN/KRMPL/Kanpur/2022-23/O&M/009 dated 13.06.2022 received our office on 17.06.2022
23.	05.05.2022	Inspection report issued on 20.05.2022 for 130 MLD & 43 MLD IPSs and STP	Not complied by KRMPL



S.N	Inspection done dated	Description of Inspection details	Compliances reports status
		Jajmau facilities	
24.	18.05.2022	Inspection report issued on 21.05.2022 for 130 MLD STP Jajmau	KRMPL has submitted compliance report vide KRMPL letter no.2495 dated 27.05.2022
25.	20.05.2022	Inspection report issued on 25.05.2022 for Nawabganj IPS	Not complied by KRMPL
26.	01.06.2022	Inspection report issued on 01.06.2022	Not complied by KRMPL
27.	06.06.2022	DG,NMCG,ED(T) and Rajat Gupta Sir site visited on 06.06.2022 and instructed to KRMPL as per M.O.M	Not complied by KRMPL
28.	14.06.2022	Inspection report issued on 14.06.2022	Not complied by KRMPL
29.	06.06.2022, 07.06.2022 and 20.06.2022	Inspection report of 130 MLD, 43 MLD,IPSs and CSPS Jajmau on 29.06.2022	Not complied by KRMPL
30.	23.06.2022	Inspection report of 130 MLD STP Jajmau facilities Phase 1,Inspection report issued on 27.06.2022	Not complied by KRMPL
31.	11.07.2022, 6.07.2022, 21.07.2022, 23.07.2022 and 25.07.2022	Inspection report of 130 MLD STP and IPSs of Jajmau facilities Phase 1,Inspection report issued on 28.07.2022	Not complied by KRMPL
32.	08.08.2022	ED(P),NMCG and Rajat Gupta Sir site visited on 06.06.2022 and instructed to KRMPL as per M.O.M	Not complied by KRMPL
33.	02.08.2022 and 23.08.2022.	Inspection report of 130 MLD STP Jajmau facilities phase 1, inspection report issued 31.08.2022	Not complied by KRMPL
34.	06.09.2022 ,05.09.2022, 20.09.2022 and 23.09.2022	Inspection report of 130 MLD STP Jajmau facilities phase 1, inspection report issued 30.09.2022	Not complied by KRMPL
35.	13.10.2022 & 17.10.2022,	Inspection Report of 130 MLD Jajmau facilities phase 1, inspection report issued on 17.10.2022	KRMPL has submitted compliance report vide KRMPL letter no.168 dated 31.10.2022
36.	27.10.2022	Inspection Report of IPSs (Nawabganj IPS, Parmat IPS, Baba Ghat IPS, & Guptar Ghat IPS) issued on 31.10.2022	Not complied by KRMPL
37.	29.11.2022	Inspection Report of IPSs (Nawabganj IPS, Parmat IPS, Baba Ghat IPS, & Guptar Ghat IPS) issued on 30.11.2022	Not complied by KRMPL
38.	27.12.2022	Inspection Report of 130 MLD Jajmau facilities phase 1, inspection report issued on 27.12.2022	Not complied by KRMPL
39.	29.12.2022	Inspection Report of IPSs (Nawabganj IPS, Parmat IPS, Baba Ghat IPS, & Guptar Ghat IPS) issued on 29.12.2022	Not complied by KRMPL

**130 MLD STP JAJMAU Site Pictures during renovation period (Updated as on 31.01.2023)**



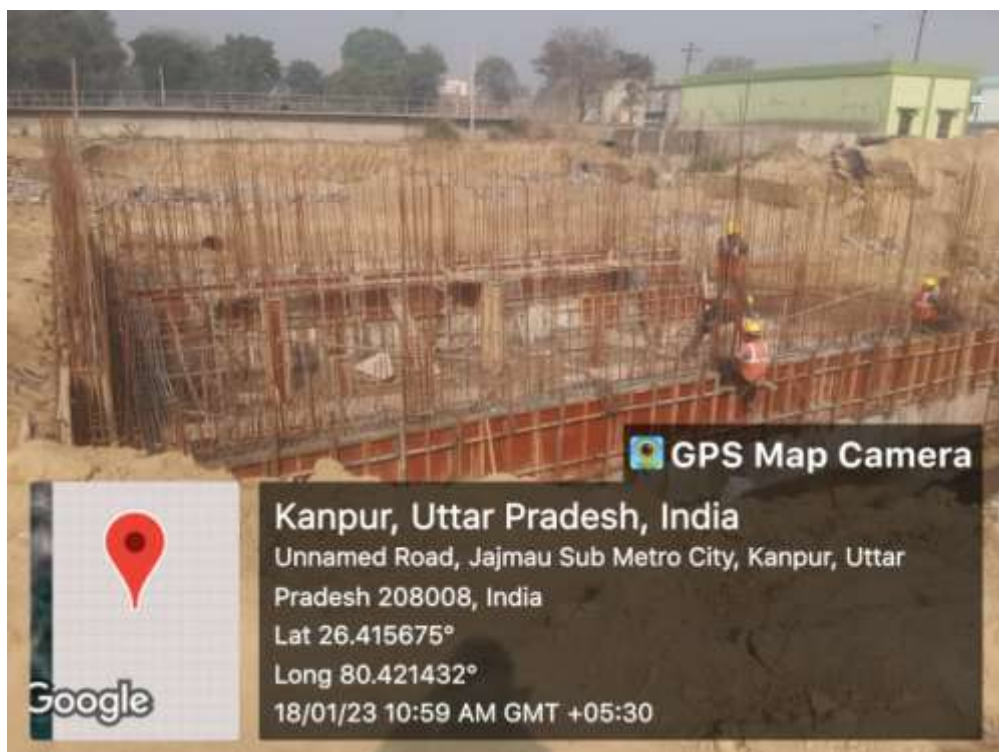
**Sludge cleaning work in progress at aeration tank no.2 in January 2023**



**New Substation construction in January 2023**



**Civil work in progress at belt filter press building in January 2023**



**Construction of new CCT & TEPH in January 2023**

**43 MLD JAJMAU PHASE II**

It has been observed that O&M of 43 MLD Jajmau phase-II is not up to the mark from handover date. During Mr. Madhav Kumar's visit on 28.10.2022 & 29.10.2022,

- i. KRMPL informed that Gas system of 43 MLD STP which are inter-connected with 130 MLD Gas systems. KRMPL was directed to prioritize the installation of the gas-to-power generation system of 130 MLD STP to avoid the penalty for 43 MLD STP over guaranteed power consumption.
- ii. KRMPL was directed to calibrate all Flowmeters of all facilities and submit calibration reports to PE and UPJN. KRMPL committed to calibrate inlet flow meters of 130 MLD STP, 43 MLD STP & its associated IPS by 05.11.2022.

**Issues & Status of Pending Compliance of 43 MLD STP:**

SN	Equipment	Issues in Dec 2022	Status in Jan 2023	Compliance / Remarks
1	Mechanical Screens (Fine Screens)	<ul style="list-style-type: none"> <li>Mechanical screens operational</li> <li>Automation system</li> </ul>	<ul style="list-style-type: none"> <li>Mechanical screens operational</li> <li>Pending</li> </ul>	<ul style="list-style-type: none"> <li>Pending from KRMPL's end</li> </ul>
2	Grit Removal System	<ul style="list-style-type: none"> <li>Grit removal system is functional but classifier system is not functional since handover.</li> </ul>	<ul style="list-style-type: none"> <li>Classifier system is not functional since handover.</li> </ul>	<ul style="list-style-type: none"> <li>Pending from KRMPL's end</li> </ul>
3	Inlet Flow Meter	<ul style="list-style-type: none"> <li>Calibration pending.</li> <li>Level Scale should be properly painted.</li> </ul>	<ul style="list-style-type: none"> <li>Calibration pending.</li> <li>Level Scale should be properly painted.</li> </ul>	Pending from KRMPL's end
4	Primary Sedimentation Tank	<ul style="list-style-type: none"> <li>PST Screw pump is operational.</li> </ul>	<ul style="list-style-type: none"> <li>Operational.</li> </ul>	
5	Sludge Digester System	<ul style="list-style-type: none"> <li>Sludge digested system is not in working condition since handover.</li> </ul>	<ul style="list-style-type: none"> <li>Sludge digested system is not in working condition since handover.</li> </ul>	<ul style="list-style-type: none"> <li>Pending from KRMPL's end</li> </ul>
6	Air Blower System and Aeration Tank	<ul style="list-style-type: none"> <li>Air blower no. 3 is under maintenance since 15.08.2022 it needs to be repaired.</li> <li>Air Blower no. 2 is non- operational since 22.11.2022.</li> </ul>	<ul style="list-style-type: none"> <li>Air blower no. 3 is operational.</li> <li>Air Blower no. 2 is operational.</li> </ul>	<ul style="list-style-type: none"> <li>Pending from KRMPL's end</li> </ul>
7	Centrifuge System	<ul style="list-style-type: none"> <li>Both Centrifuges needs to be repaired.</li> </ul>	<ul style="list-style-type: none"> <li>Need to be overhauled &amp; servicing.</li> </ul>	<ul style="list-style-type: none"> <li>Pending from KRMPL's end</li> </ul>

SN	Equipment	Issues in Dec 2022	Status in Jan 2023	Compliance / Remarks
8	Sludge Thickener	<ul style="list-style-type: none"> <li>Sludge cleaning work from sludge thickener is in progress.</li> </ul>	<ul style="list-style-type: none"> <li>Sludge cleaning work from sludge thickener has been done.</li> </ul>	<ul style="list-style-type: none"> <li>Pending from KRMPL's end</li> </ul>
9	Final Sedimentation Tank	<ul style="list-style-type: none"> <li>Cleaning work need to be done.</li> <li>Painting work needs to be done.</li> <li>"V" notch need to be replaced.</li> </ul>	<ul style="list-style-type: none"> <li>Cleaning work Pending</li> <li>Painting work pending</li> <li>Pending</li> </ul>	<ul style="list-style-type: none"> <li>Pending from KRMPL's end</li> </ul>
10	Sludge Disposal	<ul style="list-style-type: none"> <li>Disposal of sludge is to be done by the KRMPL as per UPPCB norms.</li> </ul>	<ul style="list-style-type: none"> <li>Pending</li> </ul>	<ul style="list-style-type: none"> <li>Pending from KRMPL's end</li> </ul>
11	Return Sludge Pump House	<ul style="list-style-type: none"> <li>Waste activated sludge pump no. 2 is under maintenance since 07.09.2022.</li> </ul>	<ul style="list-style-type: none"> <li>Pending</li> </ul>	<ul style="list-style-type: none"> <li>Pending from KRMPL's end</li> </ul>
12	Power Backup (DG set)	<ul style="list-style-type: none"> <li>Power backup (DG set) for plant operation &amp; RTLOMS for plant online mentoring system are not available at site.</li> </ul>	<ul style="list-style-type: none"> <li>Pending</li> </ul>	<ul style="list-style-type: none"> <li>Pending from KRMPL's end</li> </ul>
13	RTOLMS	<ul style="list-style-type: none"> <li>RTLOMS for plant online mentoring system are not available at site.</li> </ul>	<ul style="list-style-type: none"> <li>Pending</li> </ul>	<ul style="list-style-type: none"> <li>Pending from KRMPL's end.</li> </ul>
14	Chlorination System	<ul style="list-style-type: none"> <li>KRMPL has not arranged temporary chlorination system</li> </ul>	<ul style="list-style-type: none"> <li>No temporary arrangement done for chlorination system</li> </ul>	<ul style="list-style-type: none"> <li>Pending from KRMPL's end</li> </ul>
15	Joint Sampling & Testing by NABL Laboratory	<p>IIT Kanpur has taken only one composite sample on 21.12.2022 &amp; 22.12.2022 and test result has been submitted by KRMPL.</p>	<ul style="list-style-type: none"> <li>IIT Kanpur has taken only one composite sample on 18.01.2023 &amp; 19.01.2023 and test result has been submitted by KRMPL.</li> </ul>	<ul style="list-style-type: none"> <li>Test Report has been attached separately.</li> </ul>
16	KPI adherence report	<p>Weekly IIT test reports for the month of December is not submitted</p>	<ul style="list-style-type: none"> <li>Weekly IIT test reports for the month of January 2023 is not been submitted.</li> </ul>	<ul style="list-style-type: none"> <li>Pending from KRMPL's end</li> </ul>



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

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

SN	Inspection date	Description of Inspection details	Compliances reports status
1.	21.09.2021	Inspection report issued on 30.09.2021	Not complied by KRMPL
2.	30.09.2021	Inspection report issued on 01.10.2021	Not complied by KRMPL
3.	08.10.2021,	Inspection report issued on 30.10.2021	Not complied by KRMPL
4.	25.10.2021	Inspection report issued on 30.10.2021	Not complied by KRMPL
5.	28.10.2021	Inspection report issued on 30.10.2021	Not complied by KRMPL
6.	27.11.2021	Inspection report issued on 30.11.2021(enclosed)	Not complied by KRMPL
7.	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		
8.	Ms. Nidhi Dwivedi, Project Officer (Technical), NMCG, Mr. Bhaskar Ray, TL and Mr. Dinesh Chamoli, O&M Expert, PMC inspected site on 28.10.2021.		
9.	15.12.2021	Inspection report issued on 27.12.2021for 43 MLD STP IPS facilities Jajmau	Not complied by KRMPL
10.	21.12.2021		
11.	10.12.2021	Inspection report issued on 27.12.2021for 43 MLD STP Jajmau Phase II	Not complied by KRMPL
12.	16.12.2021		
13.	20.12.2021		
14.	21.12.2021		
15.	18.01.2022	Inspection report issued on 31.01.2022 for 43 MLD STP Jajmau Phase II.	Not complied by KRMPL
16.	15.02.2022	Inspection report issued on 25.02.2022and 28.02.2022	Not complied by KRMPL
17.	16.02.2022		
18.	25.02.2022		
19.	15.03.2022	Inspection report issued on 26.03.2022and 02.04.2022	Not complied by KRMPL
20.	30.03.2022		
21.	07.04.2022	Inspection report issued on 07.04.2022 for 43 MLD Phase-II IPSs facilities	KRMPL has submitted compliance report vide KRMPL letter no. UPJN/KRMPL/Kanpur/2022-23/O&M/009 dated 13.06.2022 received our office
22.	12.04.2022	ED(T) Shri D.P Mathuria and Shri Rajat Kumar Gupta(SWMS) visited at Jajmau site on 12.04.2022	
23.	19.04.2022	Inspection report issued on 20.04.2022 for 43 MLD STP Jajmau Phase II	on 17.06.2022
24.	05.05.2022	Inspection report issued on 20.05.2022for 130 MLD & 43 MLD IPSs and STP	Not complied by KRMPL

SN	Inspection date	Description of Inspection details	Compliances reports status
		Jajmau facilities	
25.	01.06.2022	Inspection report issued on 01.06.2022	Not complied by KRMPL
26.	06.06.2022	DG,NMCG,ED(T) and Rajat Gupta Sir sitevisited on 06.06.2022 and instructed to KRMPL as per M.O.M	Not complied by KRMPL
27.	06.06.2022, 07.06.2022	Inspection report of 130 MLD, 4 MLD,IPs and CSPS Jajmau on 29.06.2022	Not complied by KRMPL
28.	14.06.2022	Inspection report issued on 14.06.2022	Not complied by KRMPL
29.	11.07.2022,16.07.2022,21.07.2022 ,25.07.2022 and 27.07.2022	Inspection report issued on 28.07.2022	Not complied by KRMPL
30.	08.08.2022	ED(P),NMCG and Rajat Gupta Sir site visited on 06.06.2022 and instructed to KRMPL as per M.O.M	Not complied by KRMPL
31.	02.08.2022 and 23.08.2022.	Inspection report of 43 MLD STP Jajmaufacilities phase II, inspection report issued 31.08.2022	Not complied by KRMPL
32.	05.09.2022,13.09.2022, 20.09.2022 and 23.09.2022	Inspection report of 43 MLD STP Jajmaufacilities phase II, inspection report issued 30.09.2022	Not complied by KRMPL
33.	13.10.2022 &17.10.2022	Inspection report of 43 MLD STP Jajmau facilities phase II, inspection report issued17.10.2022	KRMPL has submitted compliance report vide KRMPL letter no. 168 dated 31.10.2022
34.	29.11.2022	Inspection report of 43 MLD STP Jajmaufacilities phase II, inspection report issued 30.11.2022	Not complied by KRMPL
35.	27.12.2022	Inspection report of 43 MLD STP Jajmau facilities phase II, inspection report issued 31.12.2022	Not complied by KRMPL
36.	29.12.2022	Inspection report of IPs for 43 MLD STP Jajmau facilities phase II, inspection report issued 31.12.2022	Not complied by KRMPL

## Site photographs of 43 MLD STP Jajmau



**Over flow condition at Parmiya IPS**



**Aeration tank at 43 MLD STP Jajmau**



Details of 43 MLD STP Jajmau Phase II, Monthly Activity Report along with IIT Kanpur Lab Reports for Jan. 2023 are attached separately with this MPR as:

**Annexure 5.1: Monthly Activity Report of Jajmau 43 MLD STP**

(Attached Separately)

**Annexure 8: IIT Lab report for Jan. 2023**

(Attached Separately)

## 210 MLD BINGAWAN STP

### ISSUES & STATUS OF PENDING COMPLIANCE OF BINGAWAN STP:

SN	Equipment	Issues in Dec 2022	Status in Jan 2023	Compliance / Remarks
1	COD Nalla	<ul style="list-style-type: none"> <li>Sewage overflow at COD Nalla tapping point is being observed.</li> </ul>	<ul style="list-style-type: none"> <li>Sewage overflow at COD Nalla tapping point is being observed.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter no 1969 dated 03.02.2023</li> </ul>
2	Mechanical Coarse Screens	<ul style="list-style-type: none"> <li>Mechanical coarse screen no. 1 non-operational.</li> </ul>	<ul style="list-style-type: none"> <li>Mechanical coarse screen no. 1 not rectified.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter no 1969 dated 03.02.2023</li> </ul>
3	Main Pumping Station	<ul style="list-style-type: none"> <li>Pumps not rectified yet</li> </ul>	<ul style="list-style-type: none"> <li>5 nos. pumps were not working in the MPS.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter no 1969 dated 03.02.2023</li> </ul>
4	Inlet Chamber	<ul style="list-style-type: none"> <li>Fine mechanical screen not rectified.</li> <li>Grit classifier no. 1 not rectified.</li> <li>Out of 04 grit mechanism, 1 grit mechanism was found to be non-operational.</li> </ul>	<ul style="list-style-type: none"> <li>Fine mechanical screen not rectified.</li> <li>Grit classifier no. 1, 2, and 3 are not working.</li> <li>Out of 04 grit mechanism, 3 grit mechanisms were found to be non-operational.</li> <li>All grit mechanisms were completely filled with the sludge.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter no 1969 dated 03.02.2023 and Refer UPJN letter no. 172 dated 24.01.2023</li> </ul>
5	Cleaning and reactivation of UASB Reactors	<ul style="list-style-type: none"> <li>Out of 16 reactors, 4 reactors are under maintenance.</li> </ul>	<ul style="list-style-type: none"> <li>Out of 16 reactors, 3 reactors are under maintenance.</li> <li>UASB reactor no. 13 has been charged.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter no 1969 dated 03.02.2023</li> </ul>
6	Aeration Lagoon & Final Polishing Unit	<ul style="list-style-type: none"> <li>5 out of 18 aerators were found to be non-operational.</li> </ul>	<ul style="list-style-type: none"> <li>3 out of 18 aerators were found to be non-operational.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter no 1969 dated 03.02.2023 and Refer UPJN letter no. 172 dated 24.01.2023</li> </ul>
7	Belt Filter Press	<ul style="list-style-type: none"> <li>Poly dosing pump no. 3 not rectified.</li> <li>Out of 2 nos. belt wash pump set, 1 nos. wash pump was found non-operational.</li> </ul>	<ul style="list-style-type: none"> <li>Poly dosing pump no. 3 and belt wash set has not been rectified.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter no 1969 dated 03.02.2023 and Refer UPJN letter no. 172 dated 24.01.2023</li> </ul>
8	Chlorination System	<ul style="list-style-type: none"> <li>Chlorinator no 1 is non operational.</li> </ul>	<ul style="list-style-type: none"> <li>Chlorinator no 1 is non operational.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter no 1969 dated 03.02.2023 and Refer UPJN letter no. 172 dated 24.01.2023</li> </ul>

SN	Equipment	Issues in Dec 2022	Status in Jan 2023	Compliance / Remarks
9	Sludge Disposal	<ul style="list-style-type: none"> <li>Sludge disposal was being done at the site.</li> </ul>	<ul style="list-style-type: none"> <li>Sludge disposal was being done at the site.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter no 1969 dated 03.02.2023</li> </ul>
10	Joint Sampling & Testing by NABL Laboratory	<ul style="list-style-type: none"> <li>One composite sample was taken by IIT Kanpur on 19.12.2022 and 20.12.2022, and report has been submitted.</li> </ul>	<ul style="list-style-type: none"> <li>One composite sample was taken by IIT Kanpur on 19.01.2023 and 20.01.2023, and report has been submitted.</li> </ul>	<ul style="list-style-type: none"> <li>Test Report has been attached separately.</li> </ul>
11	Gas Holder	<ul style="list-style-type: none"> <li>Gas holder no.1 is non-operational.</li> </ul>	<ul style="list-style-type: none"> <li>Gas holder no.1 is non-operational.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter no 1929 dated 26.12.2022</li> </ul>
12	Gas Scrubber Unit	<ul style="list-style-type: none"> <li>Pressure gauge is not installed.</li> </ul>	<ul style="list-style-type: none"> <li>Pressure gauge is not installed.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter no 1929 dated 26.12.2022</li> </ul>
13	House Keeping	<ul style="list-style-type: none"> <li>Very poor housekeeping</li> </ul>	<ul style="list-style-type: none"> <li>Very poor housekeeping</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter no 1929 dated 26.12.2022</li> </ul>
14	Outdoor Lights	<ul style="list-style-type: none"> <li>Some of the outdoor lights need to be replaced.</li> </ul>	<ul style="list-style-type: none"> <li>Some of the outdoor lights need to be replaced.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter no 1969 dated 03.02.2023</li> </ul>
15	Schedule Maintenance Works for 1 <sup>st</sup> & 2 <sup>nd</sup> year	<ul style="list-style-type: none"> <li>Not started</li> </ul>	<ul style="list-style-type: none"> <li>Not started</li> </ul>	<ul style="list-style-type: none"> <li>Pending from KRMPL's end</li> </ul>
16	KPI adherence report	<ul style="list-style-type: none"> <li>Weekly IIT results for December month is not submitted.</li> </ul>	<ul style="list-style-type: none"> <li>Weekly IIT results for January month is not submitted.</li> </ul>	<ul style="list-style-type: none"> <li>Pending from KRMPL's end</li> </ul>

**Following points need to be addressed:-**

#### **I. Compliance of Inspection Reports**

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, 18.08.2021
8. 25.08.2021
9. 26.08.2021 Inspection report issued on 31.08.2021, 31.08.2021
11. 10.10.2021
12. 26.10.2021 Inspection report issued on 31.10.2021, 13. 29.10.2021

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14. 16.12.2021 - STP Inspection report issued on 24.12.2021.15. 22.01.2022
  16. 25.01.2022 STP Inspection report issued on 31.01.2022.17. 27.01.2022
  18. 20.01.2022- IPS Inspection report issued on 31.01.2022.
  19. 18.02.2022 STP Inspection report issued on 28.02.2022.20. 22.02.2022
  21. 26.02.2022- IPS Inspection report issued on 28.02.2022.
  22. 25.03.2022- STP Inspection report issued on 31.03.2022.
  23. 24.06.2022- IPS Inspection report issued on 27.06.2022.
  24. 30.06.2022- STP Inspection report issued on 01.07.2022.
  25. 26.07.2022- STP Inspection report issued on 29.07.2022.
  26. 29.07.2022- IPS Inspection report issued on 04.08.2022.
  27. 25.08.2022- STP Inspection report issued on 29.08.2022
  28. 25.08.2022 -IPS Inspection report issued on 29.08.2022
  29. 31.08.2022- STP Inspection report issued on 21.09.2022
  30. 27.09.2022- IPS Inspection report issued on 28.09.2022
  31. 03.10.2022- STP Inspection report issued on 10.10.2022
  32. 14.11.2022- STP Inspection report issued on 15.11.2022
  33. 15.12.2022- STP Inspection report issued on 26.12.2022
  34. 28.12.2022- IPS Inspection report issued on 29.12.2022
  35. 04.01.2023 & 16.01.2023- STP Inspection report issued on 03.02.2023
  36. 28.01.2023- IPS Inspection report issued on 03.02.2023

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

Details of 210 MLD Bingawan STP and associated infrastructure's Inspection Report for Jan. 2023 and Monthly Activity Report along with IIT Kanpur Lab Reports are attached separately with this MPR as:

**Annexure 6.1: Monthly Activity Report of 210 MLD STP Bingawan**

Attached separately

**Annexure 6.2: Inspection Report of 210 MLD STP Bingawan**

Attached separately

**Annexure 6.3: Inspection Report of IPSs for 210 MLD STP Bingawan**

Attached separately

**Annexure 8: IIT Lab report for Jan. 2023**

Attached separately

**42 MLD SAJARI FACILITIES (O&M)**

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.

**ISSUES & STATUS OF PENDING COMPLIANCE OF SAJARI STP:**

SN	Equipment	Issues in Dec 2022	Status in Jan 2023	Compliance / Remarks
1	Mechanical Screens (Coarse & Fine)	<ul style="list-style-type: none"> <li>Mechanical coarse screen No.1 was found non- operational.</li> <li>Auto system to be installed.</li> </ul>	<ul style="list-style-type: none"> <li>Mechanical coarse screen No.1 was found non- operational.</li> <li>Auto system to be installed.</li> </ul>	Pending from KRMPL's end
2	Main Pumping Station	<ul style="list-style-type: none"> <li>Out of 5 pumps, pump no.3 is not functioning</li> </ul>	<ul style="list-style-type: none"> <li>Out of 5 pumps 2 pumps were non- operational.</li> </ul>	Pending from KRMPL's end
3	Inlet Chamber	<ul style="list-style-type: none"> <li>Level sensors are not provided yet for mechanical fine screen atomization.</li> </ul>	<ul style="list-style-type: none"> <li>Level sensors not provided yet.</li> </ul>	Pending from KRMPL's end
4	Return Sludge Pump House	<ul style="list-style-type: none"> <li>Return sludge pump no. 3 is not rectified yet.</li> </ul>	<ul style="list-style-type: none"> <li>Return sludge pump no. 3 is not rectified yet.</li> </ul>	Pending from KRMPL's end
5	Chlorination System	<ul style="list-style-type: none"> <li>Chlorinator No. 1 is non-operational. Vacuum gauge for both chlorinators (No. 1&amp; 2) is not working since 24.11.2022.</li> </ul>	<ul style="list-style-type: none"> <li>Not rectified yet.</li> </ul>	Pending from KRMPL's end
6	Sludge Thickener	<ul style="list-style-type: none"> <li>Operational</li> </ul>	<ul style="list-style-type: none"> <li>Operational</li> </ul>	
7	Gas Generator	<ul style="list-style-type: none"> <li>2 out of 3 nos. of Gas Generators are in working condition and one gas generator is non- operational</li> </ul>	<ul style="list-style-type: none"> <li>Not rectified.</li> </ul>	Pending from KRMPL's end
8	Sludge Digester	<ul style="list-style-type: none"> <li>Operational</li> </ul>	<ul style="list-style-type: none"> <li>Operational</li> </ul>	
9	Joint Sampling & Testing by NABL Laboratory	<ul style="list-style-type: none"> <li>One composite sample was taken by IIT Kanpur in December 2022 i.e. on 23.12.2022 to 24.12.2022 and the</li> </ul>	<ul style="list-style-type: none"> <li>One composite sample was taken by IIT Kanpur in January 2023 i.e. on 23.01.2023 to 24.01.2023 and the</li> </ul>	Test report have been attached separately.

SN	Equipment	Issues in Dec 2022	Status in Jan 2023	Compliance / Remarks
		report was submitted.	report has been submitted.	
10	Power backup and Online Monitoring System	<ul style="list-style-type: none"> <li>Operational</li> </ul>	<ul style="list-style-type: none"> <li>Operational</li> </ul>	
11	Sludge Disposal	<ul style="list-style-type: none"> <li>Not done</li> </ul>	<ul style="list-style-type: none"> <li>Not done</li> </ul>	Pending from KRMPL's end
12	Schedule Maintenance Programme	<ul style="list-style-type: none"> <li>Not started.</li> </ul>	<ul style="list-style-type: none"> <li>Not started.</li> </ul>	Pending from KRMPL's end
16	KPI adherence report	<ul style="list-style-type: none"> <li>Weekly IIT test results for the month of December is not submitted.</li> </ul>	<ul style="list-style-type: none"> <li>Weekly IIT test result for the month of January 2023 is not submitted.</li> </ul>	Pending from KRMPL's end

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

**ii. Compliance of Inspection Reports.**

- 20.10.2021- IPS Inspection report issued on 25.10.2021
- 18.11.2021- IPS Inspection report issued on 27.11.2021
- 14.12.2021- IPS Inspection report issued on 24.12.2021
- 21.12.2021 STP Inspection report issued on 30.12.2021
- 22.12.2021
- 11.01.2022- STP Inspection report issued on 17.01.2022.
- 20.01.2022- IPS Inspection report issued on 31.01.2022.
- 08.02.2022- STP Inspection report issued on 10.02.2022.
- 26.02.2022- IPS Inspection report issued on 28.02.2022.
- 07.03.2022- STP Inspection report issued on 08.03.2022.
- 31.03.2022- IPS Inspection report issued on 02.04.2022.
- 27.04.2022- IPS Inspection report issued on 30.04.2022.
- 08.06.2022- STP Inspection report issued on 15.06.2022.
- 24.06.2022- IPS Inspection report issued on 27.06.2022.

15. 12.07.2022- STP Inspection report issued on 18.07.2022.
16. 29.07.2022- IPS Inspection report issued on 03.08.2022.
17. 17.08.2022 -STP Inspection report issued on 19.08.2022
18. 25.08.2022-IPS inspection report issued on 29.08.2022
19. 20.09.2022-STP inspection report issued on 21.09.2022
20. 30.09.2022- IPS inspection report issued on 30.09.2022
21. 15.10.2022- STP inspection report issued on 19.10.2022
22. 15.10.2022- IPS inspection report issued on 19.10.2022
23. 24.11.2022- STP inspection report issued on 28.11.2022
24. 24.11.2022- IPS inspection report issued on 28.11.2022
25. 27.12.2022- STP inspection report issued on 29.12.2022
26. 28.12.2022- IPS inspection report issued on 29.12.2022

Details of 42 MLD Sajari STP and associated infrastructure's Inspection Report for Jan. 2023 and Monthly Activity Report along with IIT Kanpur Lab Reports are attached separately with this MPR as:

**Annexure 7.1: Monthly Activity Report of 42 MLD STP Sajari**

Attached separately

**Annexure 8: IIT Lab report for Jan. 2023**

Attached separately

**8. CONCESSIONAIRE'S PENDING REPRESENTATION / SPECIFIC IMPROVEMENT IN QUALITY**

Concessionaire's pending representations are attached with this MPR as **Annexure 1.1, 2.1 and 4.1** corresponding to the **Pankha, Unnao & Jajmau 130 MLD STP** respectively.



## 9. STATUS OF BEP & OTHER DETAILS

Status of BEPs & other detail are given in following table 9.1:

SN	STP Facility	Design & Drawing Status		Remarks
A	Construction of New STP Facilities			
1.	30 MLD STP Pankha	BEPS: Construction Plan: Structural Design Drawings: Sewer Network : O&M Plan:	Approved Approved All Approved Approved Under Review	Observations on Control philosophy has been sent vide STC letter no. 1923 dated 23.12.2022. KRMPL compliance is pending.
2.	15 MLD STP Unnao	BEPS: Construction Plan: Structural Design Drawings: Sewer Network : O&M Plan:	Approved Approved All Approved Approved Not Submitted	Observations on Control philosophy has been sent vide STC letter no. 1949 dated 08.01.2023. KRMPL compliance is pending.
3.	05 MLD STP Shuklaganj	BEPS: Construction Plan: Structural Design Drawings: Sewer Network : O&M Plan:	Approved Approved All Approved Approved Not Submitted	Observations on Control philosophy has been sent vide STC letter no. 1949 dated 08.01.2023. KRMPL compliance is pending.
B	Rehabilitation and O&M for 15 years			
4.	130 MLD STP Jajmau I	BEPS: Renovation Plan: Structural Design Drawings: O&M Plan:	Approved Approved All Approved Not Submitted	Control Philosophy Under Review.
5.	43 MLD STP Jajmau II	-	-	Maintenance plan and recommended for approval vide PE letter no. 1626 dated 25.05.2022
6.	210 MLD STP Bingawan	-	-	Bypass arrangement design drawing approved vide letter no. 1948 dated 07.01.2022.
7.	42 MLD STP Sajari	-	-	Observations on resubmission of Annual Maintenance Plan of Sajari year-4 has been submitted vide letter no. 1863 dated 09.11.2022.

## **ANNEXURE**

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**Annexure 1.1: Balance Work Status of 30 MLD STP Pankha**

(Attached Separately)

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## **Annexure 1.2: Milestone Progress of 30 MLD STP Pankha**

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## **Annexure 2.1: Balance Work Status of 15 MLD STP Unnao**

(Attached Separately)

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## **Annexure 2.2: Milestone Progress of 15 MLD STP Unnao**

(Attached Separately)

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### **Annexure 3.1: Milestone Progress of 05 MLD STP Shuklaganj**

(Attached Separately)



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**Annexure 4.1: Balance Work Status for 130 MLD STP Jajmau**

(Attached Separately)

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## **Annexure 4.2: Milestone Progress Report**

(Attached Separately)

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### **Annexure 4.3: Monthly Activity Report Jajmau 130 MLD**

(Attached Separately)

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**Annexure 5.1: Monthly Activity Report of Jajmau 43 MLD STP**

(Attached Separately)

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## **Annexure 6.1: Monthly Activity Report of 210 MLD STP Bingawan**

(Attached Separately)

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**Annexure 6.2: Inspection Report of 210 MLD STP Bingawan**

(Attached Separately)



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## **Annexure 6.3: Inspection Report of IPS of Bingawan**

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**Annexure 7.1: Monthly Activity Report of 42 MLD STP Sajari**

(Attached Separately)

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## **Annexure 8: IIT Lab report for Jan 2023**

(Attached Separately)

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## **Annexure 9: Timesheets of Experts**

(Attached Separately)

### ANNEXURE 10: Monthly Staff Activity – HAM Project Kanpur

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
01.01.2023	Sunday												
02.01.2023	Submission of compliance regarding DO Analyser installed in SBR basin at 30 mld Pankha STP.	02.01.2023 K-2768	-	-	20	-	-	Dr.Giridhar Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1	-	-	-	Under Review
03.01.2023	Submission of compliance regarding DO Analyser installed in SBR basin at 30 MLD Pankha STP.	02.01.2023 K-2768	03.01.2023 S-1941	1	20	-	-	Dr.Giridhar Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1	-	-	-	PE submitted their observation and requested UPJN to direct concessionaire to submit compliance report
03.01.2023	Proposal for alternate route of Sewer line at 15 MLD STP Unnao	26.12.2022 K-2752	03.01.2023 S-1942	8	20	-	-	Dr.Giridhar Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
04.01.2023	Earth filling Activity at 15 MLD STP Unnao	-	04.01.2023 S-1943	-	20	-	-	Dr.Giridhar Anil Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
04.01.2023	Temporary arrangement for sewer from MH 38/39 at 15 MLD STP Unnao	26.12.2022 K-2752	04.01.2023 S-1944	11	20	-	-	Dr.Giridhar Anil Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
05.01.2023	Regarding missing data in design and drawing for 130 MLD STP Jajmau.	26.12.2022 K-2753, 2754, 2755	-	-	20	-	-	Dr.Giridhar Anil Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1	-	-	-	Under Review
06.01.2023	Regarding missing data in design and drawing for 130 MLD STP Jajmau.	26.12.2022 K-2753, 2754, 2755	06.01.2023 S-1945	11	20	-	-	Dr.Giridhar Anil Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
07.01.2023	Pending compliance reports from the KRMPPL's End.	-	07.01.2023 S-1946	-	20	-	-	Dr.Giridhar Anil Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
07.01.2023	Recommendation for your approval of 1800mm NP-3 RCC pipe for Bypass arrangement Bingawan	24.12.2022 K-212	07.01.2023 S-1947	-	20	-	-	Dr.Giridhar Anil Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.



Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
07.01.2023	Recommendation of design and drawing for Bypass arrangement at 210 MLD STP at Bingawan	-	07.01.2023 S-1948	-	20	-	-	Dr.Giridhar Satish Anil Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
08.01.2023	Submission of compliance regarding Operation & Control Philosophy & Interlocking P&ID for 15 MLD STP at Unnao & 5MLD STP at Shuklaganj.	-	08.01.2023 S-1949	-	20	-	-	Dr.Giridhar Anil Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
08.01.2023	DG set for 43 MLD STP at Jajmau.	03.01.2023 UPJN-06/w-34/01	08.01.2023 S-1950	-	20	-	-	Dr.Giridhar Anil Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
09.01.2023	Monthly activity report for the month of December 2022 of 43 MLD STP Jajmau facilities Phase II	07.01.2023 K-221	-	-	20	-	-	Dr.Giridhar Anil Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1	-	-	-	Under review

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
10.01.2023	STC observation on Monthly activity report for the month of December 2022 of 43 MLD STP Jajmau facilities Phase II	07.01.2023 K-221	10.01.2023 S-1953	-	20	-	-	Dr.Giridhar Anil Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
10.01.2023	Observation on Monthly Activity Report of 42 MLD STP Sajari facilities for the month of Dec - 2022	07.01.2023 K-222	10.01.2023 S-1951	-	20	-	-	Dr.Giridhar Anil Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
10.01.2023	STC observation on Monthly activity report for the month of December 2022 of 130 MLD STP Jajmau facilities Phase I.	10.01.2023 K-223	10.01.2023 S-1952	-	20	-	-	Dr.Giridhar Anil Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
11.01.2023	Recommendation for your approval of revised structural drawing for metering and VCB panel room for 5 MLD STP Shuklaganj.	31.12.2022 K-2766	11.01.2023 S-1954	-	20	-	-	Dr.Giridhar Anil Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.

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)
11.01.2023	Regarding pending RFI (civil) for Raw Sewage Sump and pump house, inlet chamber and screen chamber, Meter room cum staff quarter, Guard room, Transformer and DG set area, at IPS located at Sundarnagar and ICI Nallah.	KRMPL RFI dated 10.01.2023	11.01.2023 S-1955	-	20	-	-	Dr.Giridhar Anil Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
11.01.2023	Request letter for Time Extension for 130 MLD STP Jajmau Facility	07.01.2023 U-33/w-4/01	11.01.2023 S-1956	-	20	-	-	Dr.Giridhar Anil Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
12.01.2023	Submission of final invoice for 5th, 6th, and 7th milestone for Unnao & Pankha of construction period.	-	12.01.2023 S-1957	-	20	-	-	Dr.Giridhar Prasoon Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their request for information and necessary actions.
12.01.2023	Regarding Installation & testing of Electromagnetic Flow Meters at 30 MLD STP Pankha and associated IPS.	KRMPL RFI dated 11.01.2023	12.01.2023 S-1960	-	20	-	-	Dr.Giridhar Prasoon Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their request for information and necessary actions.

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)
13.01.2023	Observations on installation of Primary clarifier Mechanism No.3 (PST No.3) for 130 MLD Jajmau Phase-1	10.01.2023 K-2782	13.01.2023 S-1959	-	20	-	-	Dr.Giridhar Prasoon Priyesh Ajay Rahul Indra Dev Divya Karamveer	1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
14.01.2023	Draft MOM of NMCG Meeting dated 09.01.2023	-	-	-	20	-	-	Dr.Giridhar Prasoon Priyesh Ajay Rahul Indra Dev Divya Karamveer	1+1+1+1+1+1+1+1	-	-	-	Under review
15.01.2023	Submission of SBR PLC & BOP SCADA screens for 30 mld STP at Pankha.	09.01.2023 K-2779	-	-	20	-	-	Dr.Giridhar Prasoon Priyesh Ajay Rahul Indra Dev Divya Karamveer	1+1+1+1+1+1+1+1	-	-	-	Under review
16.01.2023	Appointment of PE for STP project at Kanpur under hybrid annuity based PPP mode	-	16.01.2023 S-1961	-	20	-	-	Dr.Giridhar Prasoon Priyesh Ajay Rahul Indra Dev Divya Karamveer	1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.

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)
17.01.2023	Inspection Report of 30 MLD Pankha STP, inspection done on 05/01/2023.	-	17.01.2023 S-1962	-	20	-	-	Dr.Giridhar Prasoon Priyesh Ajay Rahul Indra Dev Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
17.01.2023	Inspection Report of 15 MLD Unnao STP, inspection done on 06/01/2023.	-	17.01.2023 S-1963	-	20	-	-	Dr.Giridhar Prasoon Priyesh Ajay Rahul Indra Dev Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
18.01.2023	Reply of Letter No. STC/PE/ KNP/ 1959 /Jajmau Phase-1 dated 13.01.2023 observations on installation of Primary clarifier Mechanism No.3 (PST-3) for 130 MLD Jajmau Phase-1	18.01.2023 K-2788	-	-	20	-	-	Prasoon Priyesh Ajay Rahul Indra Dev Divya Karamveer	1+1+1+1+1+1+1	-	-	-	Under review
19.01.2023	Observations on compliance submitted by KRMPPL for PST No. 3 renovation and installation work.	18.01.2023 K-2788	Draft sent vide Email to UPJN Kanpur dated 19.01.2023	1	20	-	-	Priyesh Ajay Rahul Indra Dev Divya Karamveer	1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.

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)
19.01.2023	Draft MOM of NMCG Meeting dated 09.01.2023	-	Draft sent vide Email to NMCG New Delhi dated 19.01.2023	-	20	-	-	Priyesh Ajay Rahul Indra Dev Divya Karamveer	1+1+1+11+1	-	-	-	PE submitted MOM of NMCG Meeting for the information and record.
20.01.2023	Submission of “Conductivity type LS & Float operated LS” documents for 130 MLD STP at Jajmau	18.01.2023 K-2786	-	-	20	-	-	Prasoon Priyesh Ajay Rahul Indra Dev Divya Karamveer	1+1+1+1+1+1+1	-	-	-	Under review
21.01.2023	RFI for Commissioning of Chlorination System at 30 MLD STP Pankha	KRMPL RFI dated 21.01.2023	-	-	20	-	-	Priyesh Ajay Rahul Indra Dev Divya Karamveer	1+1+1+11+1	-	-	-	Under Review
22.01.2023	Sunday												
23.01.2023	Submission of SBR PLC & BOP SCADA screens for 30 mld STP at Pankha.	09.01.2023 K-2779	-	-	20	-	-	Sunil Priyesh Ajay Rahul Indra Dev Divya Karamveer	1+1+1+1+1+1+1	-	-	-	Under review
24.01.2023	Submission of “Conductivity type LS & Float operated LS” documents for 130 MLD STP at Jajmau	18.01.2023 K-2786	-	-	20	-	-	Sunil Prasoon Priyesh Ajay Rahul Indra Dev Divya Karamveer	1+1+1+1+1+1+1+1	-	-	-	Under review

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
25.01.2023	Regarding RFI of commissioning for BOP PLC at 30 MLD STP Pankha.	KRMPL RFI dated 18.01.2023	25.01.2023 S-1964	7	20	-	-	Sunil Prasoon Priyesh Ajay Rahul Indra Dev Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
26.01.2023	Submission of SBR PLC & BOP SCADA screens for 30 mld STP at Pankha.	09.01.2023 K-2779	-	-	20	-	-	Sunil Prasoon Priyesh Ajay Rahul Indra Dev Divya Karamveer	1+1+1+1+1+1+1	-	-	-	Under review
27.01.2023	Submission of “Conductivity type LS & Float operated LS” documents for 130 MLD STP at Jajmau	18.01.2023 K-2786	27.01.2023 S-1965	9	20	-	-	Sunil Prasoon Priyesh Ajay Rahul Indra Dev Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
27.01.2023	Submission of SBR PLC & BOP SCADA screens for 30 mld STP at Pankha.	09.01.2023 K-2779	27.01.2023 S-1966	18	20	-	-	Sunil Prasoon Priyesh Ajay Rahul Indra Dev Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.

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)
27.01.2023	Observations on inspection of Chlorination System installed at 30 MLD STP Pankha, inspection done on 23.01.2023 & 24.01.2023.	KRMPL RFI dated 21.01.2023	27.01.2023 S-1967	6	20	-	-	Sunil Prasoon Priyesh Ajay Rahul Indra Dev Divya Karamveer	1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
27.01.2023	Inspection report for mechanical equipment at 30 MLD & associated facility, for inspection done on 11.1.23	-	27.01.2023 S-1968	-	20	-	-	Sunil Prasoon Priyesh Ajay Rahul Indra Dev Divya Karamveer	1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
27.01.2023	Draft Inspection Note of Jajmau 130 MLD & 43 MLD STPs inspection done by Dr. Balkar Singh MD, UPJN Kanpur (Rural)	-	Draft sent vide Email to UPJN Kanpur dated 27.01.2023	-	20	-	-	Sunil Prasoon Priyesh Ajay Rahul Indra Dev Divya Karamveer	1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
28.01.2023	PPT for HAM Kanpur Progress and Status of Show Cause Notice	-	PPT sent vide Email to NMCG New Delhi dated 27.01.2023	-	20	-	-	Sunil Prasoon Priyesh Ajay Rahul Indra Dev Divya Karamveer	1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.



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)
29.01.2023	Completion of 5th Milestone for 05 MLD Shuklaganj STP	25.01.2023 K-2789	-	-	20	-	-	Prasoon Priyesh Ajay Rahul Indra Dev Divya Karamveer	1+1+1+1+1+1+1	-	-	-	Under review
30.01.2023	Dispatch clearance of 1800mm RCC Pipe for Bingawan Bypass Arrangement	30.01.2023	-	-	20	-	-	Prasoon Priyesh Ajay Rahul Indra Dev Divya Karamveer	1+1+1+1+1+1+1	-	-	-	Under review
31.01.2023	Inspection call for Electrical Panel for Thickener and Bar Screen for 130 MLD STP Jajmau facilities.	31.01.2023 K-2800	-	-	20	-	-	Prasoon Priyesh Ajay Rahul Indra Dev Divya Karamveer	1+1+1+1+1+1+1	-	-	-	Under review

**Note:** Man-days and respective inputs of experts for the month of January 2023 are:

SN	Name	Designation	Total Man-days	Input
1.	Dr. Giri Prabhu Kumar	Team Leader cum waste water expert	17	Timesheet attached
2.	Mr. Preetam Walunjkar	Senior Structure Engineer	00	Timesheet attached
3.	Mr. Anil Kumar Seth	Senior Electrical Engineer	08	Timesheet attached
4.	Mr. Satish Kamaraju	Senior Process Engineer	01	Timesheet attached
5.	Mr. Sunil Basutkar	Senior Mechanical Engineer	06	Timesheet attached
6.	Mr. Prasoon Bhardwaj	Instrumentation Engineer	15	Timesheet attached