

NATIONAL MISSION FOR CLEAN GANGA (NMCG)
**MINISTRY OF JAL SHAKTI DEPARTMENT OF WATER RESOURCES,
RIVER DEVELOPMENT & GANGA REJUVENATION, GOVT. OF INDIA**



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

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

UNDER

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

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

Monthly Progress Report

Of

Project Engineer

December - 2022



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ABBREVIATIONS

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

MONTHLY PROGRESS REPORT – HAM KANPUR

1. INTRODUCTION

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

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

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

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

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

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

2. HYBRID ANNUITY MODEL (HAM)

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

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

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

3. OBJECTIVES

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

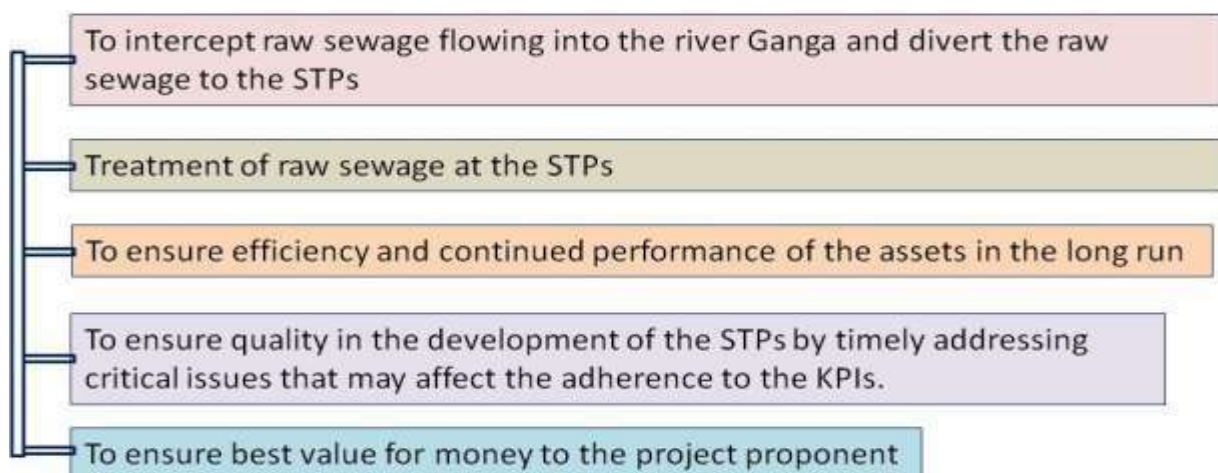


Figure 1: Objectives of NMCG and UP JAL NIGAM

4. HAM KANPUR PROJECT AT A GLANCE

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

Table 2.1: HAM Kanpur Project at a Glance

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

5. PROJECT WISE DETAILS OF COMPONENTS UNDER HAM KANPUR PROJECT

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

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

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

5.1 PANKHA FACILITIES

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

Table 5.1: Pankha Facilities

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

5.2 UNNAO FACILITIES

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

Table 5.2: Unnao Facilities

SN	STP Facility	Capacity/Dia./Size	Nos./Length
Date of Start- Effective Date (11.10.2019)			
Scope of Work- New Construction and O&M			
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 ϕ	3.6Km
5.	Manholes		46 nos.
6.	Rising main (MPS to STP)	750mm ϕ	100m
7.	Rising main (bypass)	750mm ϕ	100m
8.	Effluent gravity channel (STP to discharge point)	1.5m x1.0m	300m
9.	Effluent disposal drain	700mm	570m

5.3 SHUKLAGANJ STP FACILITIES

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

Table 5.3: Shuklaganj Facilities

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

5.4 JAJMAU (PHASE I) FACILITIES

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

Table 5.4: Jajmau Facilities

SN	STP Facility	Capacity/Dia./Size
Date of Start- Effective Date (11.10.2019)		
Scope of Work- Renovation and O&M		
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	Parmat IPS	66.67 MLD
	PH1	32.83 MLD
	PH2	21.6 MLD
	PH3	12.4 MLD
11	Baba Ghat / Muar mill IPS	7.42 MLD
	Guptar Ghat IPS	1.44 MLD
	Jajmau CSPA	129.6 MLD

5.5 JAJMAU PHASE II STP FACILITY

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

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

5.6 BINGAWAN FACILITIES

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

Table 5.5: Bingawan Facilities

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

5.7 SAJARI FACILITIES

Project wise component detail of Sajari is given in table 5.6

Table 5.6: Sajari Facilities

SN	STP Facility	Capacity/Dia./Size
Schedule Handing Over Date- 11.10.2019		
Scope of Work- O&M for 15 years		
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 19th April 2019. Effective date for work execution under HAM Kanpur project was declared on 11th October 2019. Hence, work related to construction / execution of new STP facilities and related infrastructure 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 10th 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. 15th Dec. 2021. But the works of these STPs couldn't be completed on 15th 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 1st & 2nd 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 11th & 12th 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 5th & 6th 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.

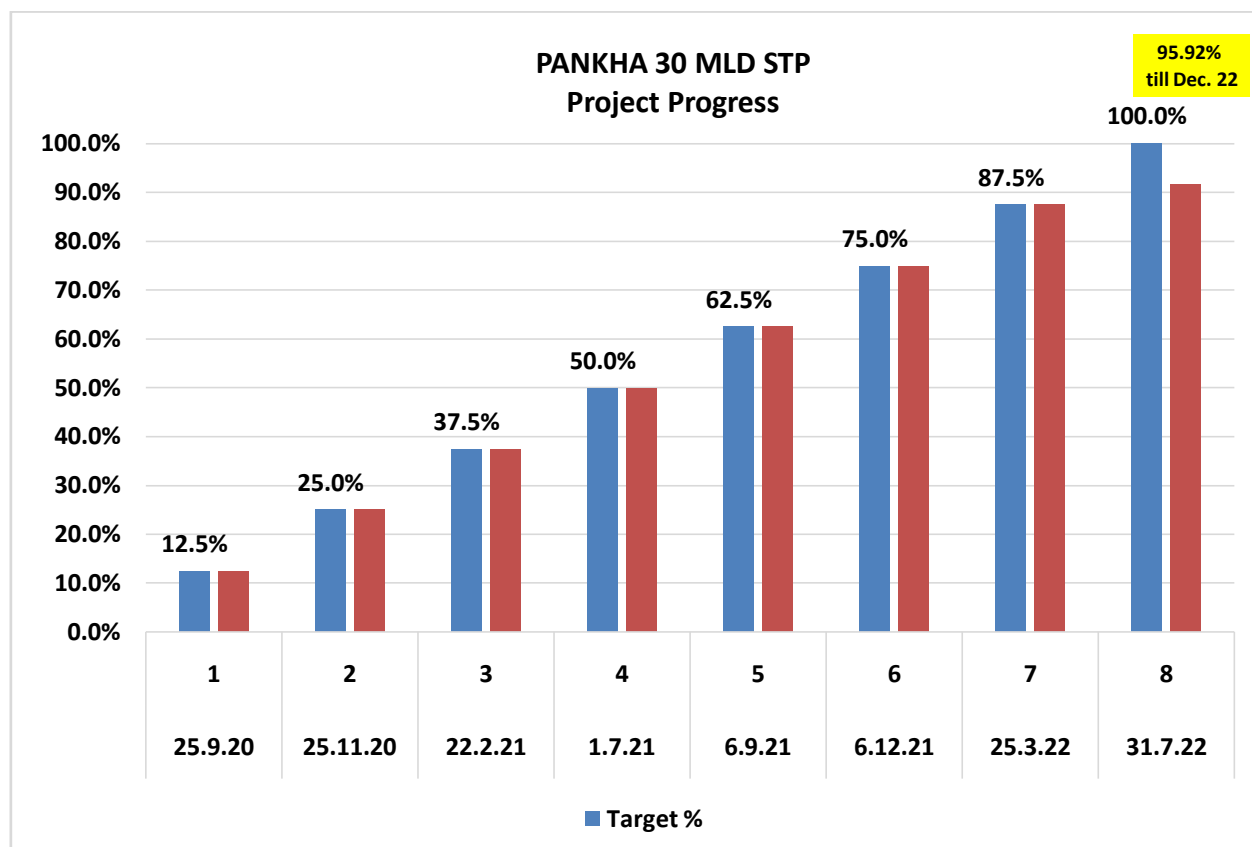
In the NMCG meeting dated 02/08/2022 and Kanpur visit dated 08/08/2022, ED (P) NMCG gave strict directions to increase the manpower, required machinery and expedite the Pankha, Unnao, Jajmau and Shuklaganj STP works. New timeline to complete Pankha, Unnao & Shuklaganj STP with full plant operation on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

6.1 30 MLD PANKHA STP FACILITIES & ASSOCIATED INFRASTRUCTURE

- Total progress of 30 MLD Pankha STP till Dec. 2022 is 95.92%. 7 milestones have been achieved out of total 8.
- In Nov. 2022 progress was also 95.92%. There is no increase in Pankha STP progress.
- Manpower deployed during Nov 2022 was 30-50 nos.
- 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 31.12.2022		
				Milestone Amount (Rs.)	% Target	% Achieved
1st milestone	25.09.2020	25.09.2020	12,48,39,750.00	12,48,39,750	12.50%	12.50%
2nd milestone	25.11.2020	25.11.2020	12,48,39,750.00	12,48,39,750	12.50%	12.50%
3rd Milestone	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	8,70,66,052	12.5%	8.72%
			99,87,18,000.00	95,79,73,636	100%	95.92%

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%

6.2 Detail of Balance / Pending Works Status

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

6.3 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



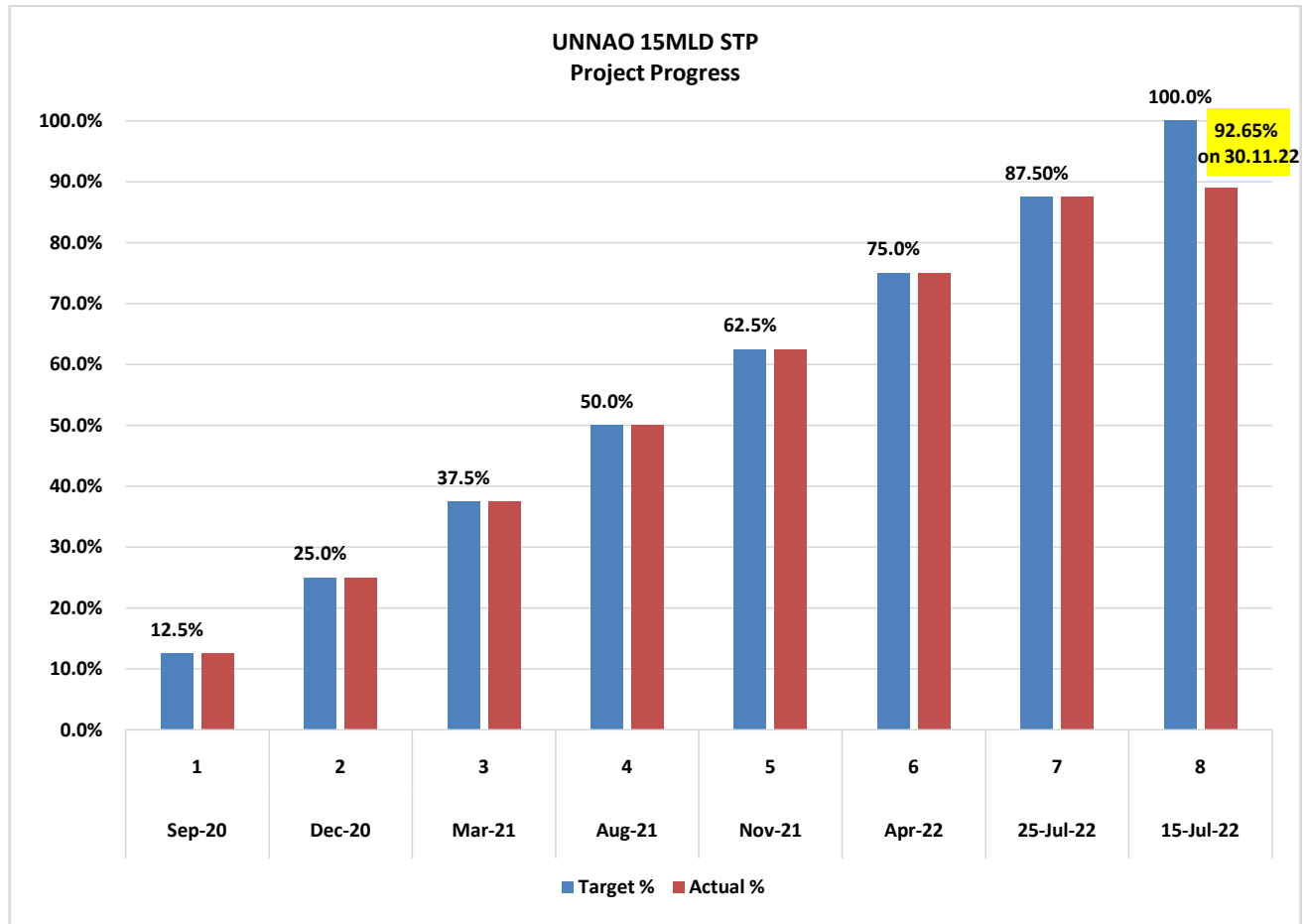
Chlorination Room



Centrifuge Building

6.4 15 MLD UNNAO STP & ASSOCIATED INFRASTRUCTURE

- Total progress till Dec 2022 was 92.65%; 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 Nov. 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, 649 no. of Dumpers have been reported to dump soil at the 15 MLD STP, Unnao. Considering average 12 cum earth/dumper, only 7788 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 13992 cum earth filling has been done against permitted 25000 cum till date.
- Despite regular visits and follow up by PE and UPJN persons, KRMPL is neither expediting earth filling activity nor have deployed proper machinery for compaction of filled earth.

- Moreover, earth filling activity has been stopped by KRMPL since 29.12.2022 due to payment related issue with Subcontractor. Earth filling activity has not been started till date.
- 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, UPJN is 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 till Dec 2022 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 31.12.2022		
				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	46950353.9	12.50%	12.27%
7th milestone	25.04.2022	Not completed	4,78,36,250.00	36365542.0	12.50%	9.50%
8th milestone	15.06.2022	Not completed	4,78,36,250.00	32050966.0	12.50%	8.38%
Overall Progress	38,26,90,000.00			35,45,48,111.00	100%	92.65%

6.5 Detail of Balance / Pending Works Status

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

6.6 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.

PHOTOGRAPHS OF UNNAO STP SITE



MPS final works



Decanter Installation & Testing



Diffuser leakage testing done

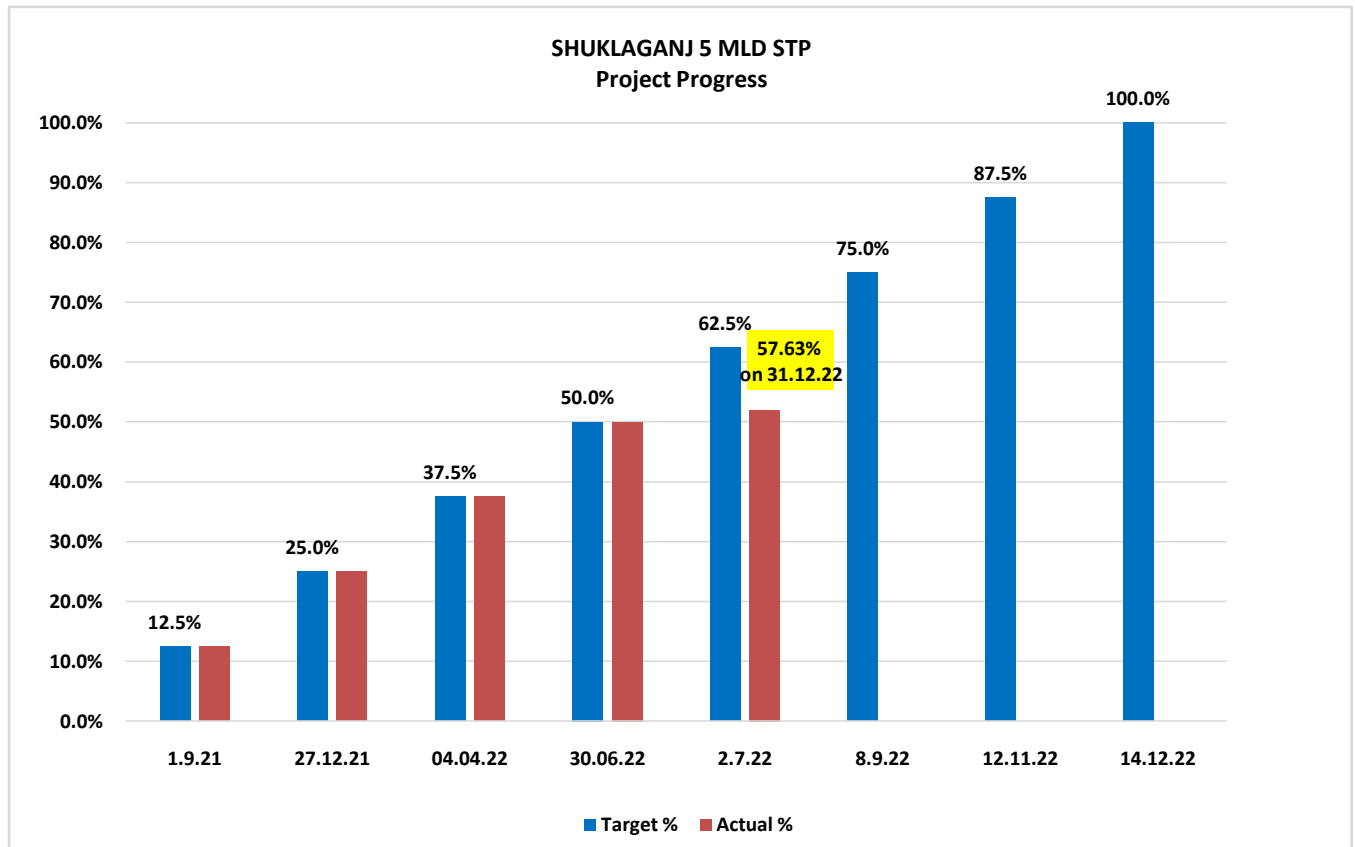


HT VCB Panel testing done

6.7 05 MLD SHUKLAGANJ STP & ASSOCIATED INFRASTRUCTURE

Progress of construction works for 05 MLD STP at Shuklaganj is very slow. Total progress till Dec 2022 is 57.63%. 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 ITR 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	23927475.83	12.50%	11.24%
4th Milestone	02.05.2022	-	2,66,18775.0	17890323.81	12.50%	8.40%
5th Milestone	02.07.2022	-	2,66,18775.0	16013722.38	12.50%	7.52%
6th milestone	08.09.2022	-	2,66,18775.0	4523915.62	12.50%	2.12%
7th milestone	12.11.2022	-	2,66,18775.0	7120000.00	12.50%	3.34%
8th milestone	14.12.2022	-	2,66,18775.0	0.00	12.50%	0.00%
Overall Progress			21,29,50,200.0	1227,12,987	100%	57.63%

6.8 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

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

Till December 2022 overall progress is **68.14%**.

- 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 31.12.2022		
				Milestone Amount	% Target	% Achieved
1 st	15.10.2021	15.10.2021	240160000.00	223,083,663	25%	23.22%
2 nd	15.03.2022	15.03.2022	240160000.00	201,598,592	25%	20.98%
3 rd	15.06.2022	Not completed	240160000.00	147,529,327	25%	15.36%
4 th	09.08.2022	Not completed	240160000.00	82,336,454	25%	8.57%
Overall progress	960640000.000			654,548,036.82	100%	68.14%
Total %	100%				100%	68.14%

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

SN	Equipment	Issues in Nov 2022	Status in Dec 2022	Compliance / Remarks
1	Collection Chamber	<ul style="list-style-type: none"> Handrailings and restoration work 	<ul style="list-style-type: none"> Handrailings completed but toeguard are not installed. 	<ul style="list-style-type: none"> Refer STC Letter No. 1936 dated 30.12.2022
2	Gates/ Valves	<ul style="list-style-type: none"> Overhauling/Replac ement 	<ul style="list-style-type: none"> Completed 	<ul style="list-style-type: none"> Completed by KRMPPL
3	Fine screen chamber (Mechanical/M anua l)	<ul style="list-style-type: none"> Screens Under Maintenance Automation System needs to be installed. 	<ul style="list-style-type: none"> Mechanical Fine Screen no. 1 & 2 are under maintenance. Automation System not installed. 	<ul style="list-style-type: none"> Refer STC Letter No. 1936 dated 30.12.2022
4	Grit Chamber	<ul style="list-style-type: none"> Installation of LPBS pending Torque Switch not working properly 	<ul style="list-style-type: none"> Installation of LPBS pending Grit Mechanism No. 3 torque switch was not in working condition. 	<ul style="list-style-type: none"> Refer STC Letter No. 1936 dated 30.12.2022 and STC Letter No. 1931 dated 27.12.2022.
5	Inlet Flow Meter	<ul style="list-style-type: none"> Flow chart and level scale not installed. 	<ul style="list-style-type: none"> Flow chart and level scale not installed. 	<ul style="list-style-type: none"> Refer STC Letter No. 1936 dated 30.12.2022 and STC Letter No. 1936 dated 30.12.2022.
6	Primary Sedimentation Tank	<ul style="list-style-type: none"> Scum box rectification Work pending Installation of LPBS pending Torque Switch not working properly Installation of LPBS and Torque switch 	<ul style="list-style-type: none"> Overflow was observed in PST No. 1 & PST No.2. Scum box rectification Work pending Installation of LPBS pending Torque Switch not working properly for PST No.2 PST-1 Torque switch hooter alarm was not working properly. 	<ul style="list-style-type: none"> Refer STC Letter No. 1936 dated 30.12.2022, STC Letter No. 1931 dated 27.12.2022, and STC Letter No. 1937 dated 31.12.2022.
7	Sludge Thickener Tank	<ul style="list-style-type: none"> Installation of LPBS pending Torque Switch not working properly 	<ul style="list-style-type: none"> Sludge thickner no. 1 is operational but torque switch are not working properly & Thickner no.2 is non-operational. RFI was raised for PST No.3, STC and UPJN has inspected the PST No. 3 and submitted their 	<ul style="list-style-type: none"> Refer STC Letter No. 1936 dated 30.12.2022

SN	Equipment	Issues in Nov 2022	Status in Dec 2022	Compliance / Remarks
			observations vide STC letter 1936 compliance to which is pending till date.	
8	Blending Tank Agitator	<ul style="list-style-type: none"> Installation of LPBS 	<ul style="list-style-type: none"> Installation of LPBS pending 	<ul style="list-style-type: none"> Refer STC Letter No. 1936 dated 30.12.2022
9	Aeration Tank	<ul style="list-style-type: none"> 17 aerators installation done 1 aerator installation pending, Tank no 2 under renovation , Tank no 1 & 3 civil renovation has not started, Sluice gate not replaced, Cable tray and electrical termination is still pending. 	<ul style="list-style-type: none"> KRMPL has not completed the sludge removal work from Aeration tank no. 2 till date. Sluice gate not replaced, Cable tray and electrical termination is still pending. 	<ul style="list-style-type: none"> Refer STC Letter No. 1936 dated 30.12.2022
10	Return Sludge PumpHouse	<ul style="list-style-type: none"> Pump renovation work. Valve NRV and Pipeline. Cable tray, LCS Panel, internal electrification work. 	<ul style="list-style-type: none"> Renovation work for Pump no. 4 pending. Replacement of valves, NRVs and pipes are pending. Cable tray, LCS Panel, internal electrification work pending. 	<ul style="list-style-type: none"> Refer STC Letter no 1893 dated 28.11.2022
11	Treated Effluent Pump House	<ul style="list-style-type: none"> Cable tray, LCS Panel, internal electrification work pending 	<ul style="list-style-type: none"> 5 nos. of pumps are found in operation & 4nos. of pumps found in not in working condition and balance 02 nos. is missing since Handover Cable tray, LCS Panel, internal electrification work pending. 	<ul style="list-style-type: none"> Refer STC Letter No. 1936 dated 30.12.2022

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

17	Power Backup (DG set & DFG)	<ul style="list-style-type: none"> During the Principal Secretary and ED (P) visit held on 18.11.2022 & 19.11.2022, KRMPL was directed to make immediate provisions for 100% backup power for 130 MLD & 43 MLD STPs. 	<ul style="list-style-type: none"> 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"> Refer STC Letter 1936 dated 30.12.2022
18	RTOLMS	<ul style="list-style-type: none"> Design, drawing still pending 	<ul style="list-style-type: none"> Design, drawing still pending 	<ul style="list-style-type: none"> Pending from KRMPL's end
19	Sludge disposal system	<ul style="list-style-type: none"> Mr. Madhav Kumar asked KRMPL to submit the calculation of sludge generation & maintain the daily sludge removal record. NMCG Team directed KRMPL to remove sludge from STP site at the earliest. 	<ul style="list-style-type: none"> Not complied by KRMPL Not complied by KRMPL 	<ul style="list-style-type: none"> Refer STC Letter 1936 dated 30.12.2022
20	New Laboratory	<ul style="list-style-type: none"> Under Renovation 	<ul style="list-style-type: none"> Under Renovation 	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 15.11.2022 & 16.11.2022 and test result has been submitted by KRMPL in the month of December.	IIT Kanpur has taken only one composite sample on 21.12.2022 & 22.12.2022 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 4.1** 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,IPs and CSPA 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 IPs 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 IPs (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 IPs (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 IPs (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 31.12.2022)



Overflow at Nawabganj IPS in December 2022



New Substation construction in December 2022



Renovation of PST No. 3 in December 2022



Construction of new CCT & TEPH in December 2022

7.2 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 Nov 2022	Status in Dec 2022	Compliance / Remarks
1	Mechanical Screens (Fine Screens)	<ul style="list-style-type: none"> Mechanical screens operational Automation system 	<ul style="list-style-type: none"> Mechanical screens operational Pending 	<ul style="list-style-type: none"> Refer STC Letter No. 1940 dated 31.12.2022
2	Grit Removal System	<ul style="list-style-type: none"> Grit removal system is functional but classifier system is not functional since handover. 	<ul style="list-style-type: none"> Classifier system is not functional since handover. 	<ul style="list-style-type: none"> Refer STC Letter No. 1940 dated 31.12.2022
3	Inlet Flow Meter	<ul style="list-style-type: none"> Flow meter operational Calibration pending 	<ul style="list-style-type: none"> Calibration pending. Level Scale should be properly painted. 	<ul style="list-style-type: none"> Refer STC Letter No. 1940 dated 31.12.2022
4	Primary Sedimentation Tank	<ul style="list-style-type: none"> PST operational PST Screw pump is under maintenance. 	<ul style="list-style-type: none"> PST Screw pump is operational. 	<ul style="list-style-type: none"> Refer STC Letter No. 1940 dated 31.12.2022
5	Sludge Digester System	<ul style="list-style-type: none"> Sludge digested system is not in working condition since handover. 	<ul style="list-style-type: none"> Sludge digested system is not in working condition since handover. 	<ul style="list-style-type: none"> Refer STC Letter No. 1940 dated 31.12.2022
6	Air Blower System and Aeration Tank	<ul style="list-style-type: none"> Air blower no. 3 is under maintenance since 15.08.2022 it needs to be repaired. 	<ul style="list-style-type: none"> Air blower no. 3 is under maintenance since 15.08.2022 it needs to be repaired. Air Blower no. 2 is non- operational since 22.11.2022. 	<ul style="list-style-type: none"> Refer STC Letter No. 1940 dated 31.12.2022 and STC Letter No. 1928 dated 26.12.2022.
7	Centrifuge System	<ul style="list-style-type: none"> Both Centrifuges needs to be repaired. Need to be overhauled & servicing. 	<ul style="list-style-type: none"> Need to be overhauled & servicing. 	<ul style="list-style-type: none"> Refer STC Letter No. 1940 dated 31.12.2022

SN	Equipment	Issues in Nov 2022	Status in Dec 2022	Compliance / Remarks
8	Sludge Thickener	<ul style="list-style-type: none"> Sludge thickener non-functional since handover. 	<ul style="list-style-type: none"> Sludge cleaning work from sludge thickener is in progress. 	<ul style="list-style-type: none"> Refer STC Letter No. 1940 dated 31.12.2022
9	Final Sedimentation Tank	<ul style="list-style-type: none"> Cleaning work need to be done. Painting work needs to be done. "V" notch need to be replaced. 	<ul style="list-style-type: none"> Cleaning work Pending Painting work pending Pending 	<ul style="list-style-type: none"> Refer STC Letter No. 1940 dated 31.12.2022
10	Sludge Disposal	<ul style="list-style-type: none"> Disposal of sludge is to be done by the KRMPL as per UPPCB norms. 	<ul style="list-style-type: none"> Pending 	<ul style="list-style-type: none"> Refer STC Letter No. 1940 dated 31.12.2022
11	Return Sludge Pump House	<ul style="list-style-type: none"> RSPH (excess sludge) pumps no. 3 maintenance work completed. 	<ul style="list-style-type: none"> Waste activated sludge pump no. 2 is under maintenance since 07.09.2022. 	<ul style="list-style-type: none"> Refer STC Letter No. 1940 dated 31.12.2022
12	Power Backup (DG set)	<ul style="list-style-type: none"> Power backup (DG set) for plant operation & RTLOMS for plant online mentoring system are not available at site. 	<ul style="list-style-type: none"> Pending 	<ul style="list-style-type: none"> Refer STC Letter No. 1940 dated 31.12.2022 and STC Letter No. 1914 dated 16.12.2022.
13	RTOLMS	<ul style="list-style-type: none"> RTLOMS for plant online mentoring system are not available at site. 	<ul style="list-style-type: none"> Pending 	<ul style="list-style-type: none"> Refer STC Letter No. 1940 dated 31.12.2022.
14	Chlorination System	<ul style="list-style-type: none"> KRMPL has not arranged temporary chlorination system 	<ul style="list-style-type: none"> No temporary arrangement done for chlorination system 	<ul style="list-style-type: none"> Refer STC Letter No. 1940 dated 31.12.2022
15	Joint Sampling & Testing by NABL Laboratory	<ul style="list-style-type: none"> IIT Kanpur has taken only one composite sample on 15.11.2022 & 16.11.2022 and test result was submitted in the month of Dec 2022. 	<ul style="list-style-type: none"> IIT Kanpur has taken only one composite sample on 21.12.2022 & 22.12.2022 and test result has been submitted by KRMPL. 	<ul style="list-style-type: none"> Test Report has been attached separately.
16	KPI adherence report	<ul style="list-style-type: none"> Weekly IIT test reports for the month of November is not submitted. 	<ul style="list-style-type: none"> Weekly IIT test reports for the month of December is not submitted. 	<ul style="list-style-type: none"> Pending from KRMPL's end

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 n o. UPJN/KRMPL/Kanpur/2022-23/O&M/009 dat ed 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,IPSS 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 IPSS 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



Over flow condition happens during peak hour at Shishamau IPS

Details of 43 MLD STP Jajmau Phase II and associated infrastructure's Inspection Report for Nov. 2022 and Monthly Activity Report along with IIT Kanpur Lab Reports are attached separately with this MPR as:

Annexure 4.1: Inspection Report of Jajmau 43 MLD STP

(Attached Separately)

Annexure 4.2: Inspection Report of IPSs for Jajmau 43 MLD STP

(Attached Separately)

Annexure 4.3: Monthly Activity Report of Jajmau 43 MLD STP

(Attached Separately)

Annexure 7: IIT Lab report for Nov. 2022

(Attached Separately)

Annexure 8: IIT Lab report for Dec. 2022

(Attached Separately)

7.3 210 MLD BINGAWAN STP

ISSUES & STATUS OF PENDING COMPLIANCE OF BINGAWAN STP:

SN	Equipment	Issues in Nov 2022	Status in Dec 2022	Compliance / Remarks
1	COD Nalla	<ul style="list-style-type: none"> Sewage overflow at COD Nalla tapping point is being observed. 	<ul style="list-style-type: none"> Sewage overflow at COD Nalla tapping point is being observed. 	<ul style="list-style-type: none"> Refer STC Letter no 1929 dated 26.12.2022
2	Mechanical Coarse Screens	<ul style="list-style-type: none"> Mechanical coarse screen no. 1 not rectified. 	<ul style="list-style-type: none"> Mechanical coarse screen no. 1 not rectified yet. 	<ul style="list-style-type: none"> Refer STC Letter no 1929 dated 26.12.2022
3	Main Pumping Station	<ul style="list-style-type: none"> Out of 12 nos. pumps 4 nos. of pumps (i.e. 4, 7, 8, & 9) are not working, while 2 nos. pumps (i.e. 11 & 12) are under maintenance. 	<ul style="list-style-type: none"> Pumps not rectified yet 	<ul style="list-style-type: none"> Refer STC Letter no 1929 dated 26.12.2022
4	Inlet Chamber	<ul style="list-style-type: none"> Out of 3 nos. fine mechanical screen, all are non functional. Out of 04 grit removal system, Grit classifier no. 1 is under maintenance. 	<ul style="list-style-type: none"> Fine mechanical screen not rectified. Grit classifier no. 1 not rectified. Out of 04 grit mechanism, 1 grit mechanism was found to be non-operational. 	<ul style="list-style-type: none"> Refer STC Letter no 1929 dated 26.12.2022 and Refer UPJN letter no. 31 dated 23.12.2022
5	Cleaning and reactivation of UASB Reactors	<ul style="list-style-type: none"> Out of 16 reactors, 4 reactors are under maintenance. 	<ul style="list-style-type: none"> Out of 16 reactors, 4 reactors are under maintenance. 	<ul style="list-style-type: none"> Refer STC Letter no 1929 dated 26.12.2022
6	Aeration Lagoon & Final Polishing Unit	<ul style="list-style-type: none"> Aerator no. 13 non operational and aerator no. 18 under maintenance. 	<ul style="list-style-type: none"> 5 out of 18 aerators were found to be non-operational. 	<ul style="list-style-type: none"> Refer UPJN letter no. 31 dated 23.12.2022
7	Belt Filter Press	<ul style="list-style-type: none"> Out of 3 nos. poly dosing pumps installed, 3 no. poly dosing pump is not in working condition due to diaphragm portion fully damaged. 	<ul style="list-style-type: none"> Poly dosing pump no. 3 not rectified. Out of 2 nos. belt wash pump set, 1 nos. wash pump was found non-operational. 	<ul style="list-style-type: none"> Refer STC Letter no 1929 dated 26.12.2022 and Refer UPJN letter no. 31 dated 23.12.2022
8	Chlorination System	<ul style="list-style-type: none"> Chlorinator no 1 is non operational. 	<ul style="list-style-type: none"> Not rectified. 	<ul style="list-style-type: none"> Refer STC Letter no 1929 dated 26.12.2022 and Refer UPJN letter no. 31 dated 23.12.2022

SN	Equipment	Issues in Nov 2022	Status in Dec 2022	Compliance / Remarks
9	Sludge Disposal	<ul style="list-style-type: none"> Sludge disposal from site started. 	<ul style="list-style-type: none"> Sludge disposal was being done at the site. 	<ul style="list-style-type: none"> Refer STC Letter no 1929 dated 26.12.2022
10	Joint Sampling & Testing by NABL Laboratory	<ul style="list-style-type: none"> One composite sample was taken by IIT Kanpur on 17.11.2022 and 18.11.2022, and report was submitted in the month of Dec 2022. 	<ul style="list-style-type: none"> One composite sample was taken by IIT Kanpur on 19.12.2022 and 20.12.2022, and report has been submitted. 	<ul style="list-style-type: none"> Test Reports have been attached separately.
11	Gas Holder	<ul style="list-style-type: none"> Gas holder no.1 is non-operational. 	<ul style="list-style-type: none"> Gas holder no.1 is not rectified yet. 	<ul style="list-style-type: none"> Refer STC Letter no 1929 dated 26.12.2022
12	Gas Scrubber Unit	<ul style="list-style-type: none"> Pressure gauge is not installed. 	<ul style="list-style-type: none"> Pending 	<ul style="list-style-type: none"> Refer STC Letter no 1929 dated 26.12.2022
13	House Keeping	<ul style="list-style-type: none"> Very poor housekeeping 	<ul style="list-style-type: none"> Very poor housekeeping 	<ul style="list-style-type: none"> Refer STC Letter no 1929 dated 26.12.2022
14	Outdoor Lights	<ul style="list-style-type: none"> Some of the outdoor lights need to be replaced. 	<ul style="list-style-type: none"> Not rectified. 	<ul style="list-style-type: none"> Refer STC Letter no 1929 dated 26.12.2022
15	Schedule Maintenance Works for 1 st & 2 nd year	<ul style="list-style-type: none"> Not started 	<ul style="list-style-type: none"> Not started 	<ul style="list-style-type: none"> Pending from KRMPL's end
16	KPI adherence report	<ul style="list-style-type: none"> Weekly IIT results for November month is not submitted. 	<ul style="list-style-type: none"> Weekly IIT results for December month is not submitted. 	<ul style="list-style-type: none"> Pending from KRMPL's end

Following points need to be addressed:-

I. Compliance of Inspection Reports

- 12.11.2020- Inspection report issued on 21.11.2020
- 02.01.2021- Inspection report issued on 19.01.2021
- 02.02.2021- Inspection report issued on 04.02.2021
- 15.06.2021- Inspection report issued on 23.06.2021
- 12.07.2021- Inspection report issued on 20.07.2021
- 06.08.2021- Inspection report issued on 10.08.2021, 18.08.2021
- 25.08.2021
- 26.08.2021 Inspection report issued on 31.08.2021, 10.08.2021
- 10.10.2021
- 26.10.2021 Inspection report issued on 31.10.2021, 13.29.10.2021

14. 16.12.2021 - STP Inspection report issued on 24.12.2021.15. 22.01.2022
16. 25.01.2022 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

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 Dec. 2022 and Monthly Activity Report along with IIT Kanpur Lab Reports are attached separately with this MPR as:

Annexure 5.1: Inspection Report of 210 MLD STP Bingawan

Attached separately

Annexure 5.2: Inspection Report of 210 MLD STP Bingawan

Attached separately

Annexure 5.3: Monthly Activity Report of 210 MLD STP Bingawan

Attached separately

Annexure 7: IIT Lab report for Nov. 2022

Attached separately

Annexure 8: IIT Lab report for Dec. 2022

Attached separately

7.4 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 Nov 2022	Status in Dec 2022	Compliance / Remarks
1	Mechanical Screens (Coarse & Fine)	<ul style="list-style-type: none"> Both screens operational. Auto system needs to be installed. 	<ul style="list-style-type: none"> Mechanical coarse screen No.1 was found non-operational. Auto system to be installed. 	Refer STC Letter no 1933 dated 29.12.2022
2	Main Pumping Station	<ul style="list-style-type: none"> Out of 5 pumps, pump no.3 is not functioning 	<ul style="list-style-type: none"> Pending 	Refer STC Letter no 1933 dated 29.12.2022
3	Inlet Chamber	<ul style="list-style-type: none"> Level sensors are not provided yet for mechanical fine screen atomization. Flow measuring Scale is finally fixed on 24.11.2022 	<ul style="list-style-type: none"> Level sensors not provided yet. 	Refer STC Letter no 1933 dated 29.12.2022
4	Return Sludge Pump House	<ul style="list-style-type: none"> Return sludge pump no. 1 is operational. Return sludge pump no. 2 is operational. Return sludge pump no. 3 is non-operational. 	<ul style="list-style-type: none"> Return sludge pump no. 3 is not rectified yet. 	Refer STC Letter no 1933 dated 29.12.2022
5	Chlorination System	<ul style="list-style-type: none"> Chlorinator No. 1 is non-operational. Vacuum gauge for both chlorinators (No. 1& 2) is not working since 24.11.2022. 	<ul style="list-style-type: none"> Not rectified yet. 	Refer STC Letter no 1933 dated 29.12.2022
6	Sludge Thickener	<ul style="list-style-type: none"> Operational 	<ul style="list-style-type: none"> Operational 	Refer STC Letter no 1933 dated 29.12.2022
7	Gas Generator	<ul style="list-style-type: none"> 2 out of 3 nos. of Gas Generators are in working condition and one gas generator is non-operational 	<ul style="list-style-type: none"> Not rectified. 	Refer STC Letter no 1933 dated 29.12.2022
8	Sludge Digester	<ul style="list-style-type: none"> Operational 	<ul style="list-style-type: none"> Operational 	Refer STC Letter no 1933 dated 29.12.2022
9	Joint Sampling & Testing by NABL Laboratory	<ul style="list-style-type: none"> One composite sample was taken by IIT Kanpur in November 2022 i.e. on 19.11.2022 to 20.11.2022 and the 	<ul style="list-style-type: none"> One composite sample was taken by IIT Kanpur in December 2022 i.e. on 23.12.2022 to 24.12.2022 and the 	Test reports have been attached separately.

SN	Equipment	Issues in Nov 2022	Status in Dec 2022	Compliance / Remarks
		report was submitted in the month of Dec 2022	report has been submitted.	
10	Power backup and Online Monitoring System	<ul style="list-style-type: none"> Operational 	<ul style="list-style-type: none"> Operational 	Refer STC Letter no 1933 dated 29.12.2022
11	Sludge Disposal	<ul style="list-style-type: none"> Not done 	<ul style="list-style-type: none"> Not done 	Refer STC Letter no 1933 dated 29.12.2022
12	Schedule Maintenance Programme	<ul style="list-style-type: none"> Not started. 	<ul style="list-style-type: none"> Not started. 	Refer STC Letter no 1933 dated 29.12.2022
13	Outdoor Lights	<ul style="list-style-type: none"> Rectified. 		Refer STC Letter no 1933 dated 29.12.2022
16	KPI adherence report	<ul style="list-style-type: none"> Weekly IIT test results for the month of November is submitted in the month of December. 	<ul style="list-style-type: none"> Weekly IIT test results for the month of December is not submitted. 	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 Dec.2022 and Monthly Activity Report along with IIT Kanpur Lab Reports are attached separately with this MPR as:

Annexure 6.1: Inspection Report of 42 MLD STP Sajari

Attached separately

Annexure 6.2: Inspection Report of 42 MLD STP Sajari IPS

Attached separately

Annexure 6.3: Monthly Activity Report of 42 MLD STP Sajari

Attached separately

Annexure 7: IIT Lab report for Nov. 2022

Attached separately

Annexure 8: IIT Lab report for Dec. 2022

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 Not Submitted	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

Annexure 1.1: Balance Work Status of 30 MLD STP Pankha

(Attached Separately)

Annexure 1.2: Milestone Progress of 30 MLD STP Pankha

Annexure 2.1: Balance Work Status of 15 MLD STP Unnao

(Attached Separately)

Annexure 2.2: Milestone Progress of 15 MLD STP Unnao

(Attached Separately)

Annexure 3.1: Milestone Progress of 05 MLD STP Shuklaganj

(Attached Separately)

Annexure 4.1: Balance Work Status for 130 MLD STP Jajmau

(Attached Separately)

Annexure 4.2: Milestone Progress Report

(Attached Separately)

Annexure 4.3: Monthly Activity Report Jajmau 130 MLD

(Attached Separately)

Annexure 4.4: Inspection Report of Jajmau 130 MLD STP

(Attached Separately)

Annexure 4.5: Inspection Report of Jajmau 130 MLD IPSs

(Attached Separately)

Annexure 5.1: Monthly Activity Report of Jajmau 43 MLD STP

(Attached Separately)

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 IPS of Bingawan

Annexure 7.1: Monthly Activity Report of 42 MLD STP Sajari

(Attached Separately)

Annexure 7.2: Inspection Report of 42 MLD STP Sajari

(Attached Separately)

Annexure 7.3: Inspection Report of 42 MLD STP Sajari IPS

(Attached Separately)

Annexure 8.1: IIT Lab report for Dec 2022

(Attached Separately)

Annexure 8.2: IIT Lab report for Nov 2022

(Attached Separately)

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)
01.12.2022	Balance Works Status for 30 MLD STP at Pankha	-	01.12.2022 S-1899	-	20	-	-	Dr.Giridhar Prasoon Preetam Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
01.12.2022	Balance Works Status for 15 MLD STP at Unnao	-	01.12.2022 S-1900	-	20	-	-	Dr.Giridhar Prasoon Preetam Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
02.12.2022	Recommendation on Submission of compliance regarding Operation & Control Philosophy & Interlocking P&ID for 30 MLD STP & 2 nos. IPS at Pankha.	29.11.2022 K-2716	-	-	20	-	-	Dr.Giridhar Prasoon Preetam Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	Under Review
03.12.2022	Inspection of Pankha STP Sewer Laying Work	-	03.12.2022 S-1901	-	20	-	-	Dr.Giridhar Prasoon Preetam Priyesh Ajay Rahul 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)
04.12.2022	Recommendation on Submission of compliance regarding Operation & Control Philosophy & Interlocking P&ID for 30 MLD STP & 2 nos. IPS at Pankha facilities.	29.11.2022 K-2716	-	-	20	-	-	Dr.Giridhar Prasoon Preetam Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	Under Review
05.12.2022	Regarding Pankha STP Sewer Laying Work	03.12.2022 UPJN letter 946/w-14/105	-	-	20	-	-	Dr.Giridhar Prasoon Preetam Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	Under Review
06.12.2022	Inspection of Pankha STP Sewer Laying Work	03.12.2022 UPJN letter 946/w-14/105	06.12.2022 S-1902	03	20	-	-	Dr.Giridhar Prasoon Preetam Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
07.12.2022	Recommendation on Submission of compliance regarding Operation & Control Philosophy & Interlocking P&ID for 30 MLD STP & 2 nos. IPS at Pankha	29.11.2022 K-2716	07.12.2022 S-1903	09	20	-	-	Dr.Giridhar Prasoon Preetam Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their review on the comments of last submittal of Concessionaire

	facilities.												
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Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
07.12.2022	Inspection Report and Checklist of Balance Work Status for 15 MLD STP Unnao	-	07.12.2022 S-1903A	-	20	-	-	Dr.Giridhar Prasoon Preetam Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observation and requested UPJN to direct concessionaire to submit compliance report
08.12.2022	Balance Works Status for 130 MLD STP & Associated facilities at Jajmau	-	08.12.2022 S-1904	-	20	-	-	Dr.Giridhar Prasoon Preetam Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
09.12.2022	STC observation on Monthly activity report for the month of September 2022 & October 2022 of 43 MLD STP Jajmau facilities Phase II		09.12.2022 S-1905		20	-	-	Dr.Giridhar Prasoon Preetam Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions
10.12.2022	Road and Drain Layout drawing for 30 MLD STP Pankha.	28.11.2022 K-2714	-	-	20	-	-	Dr.Giridhar Preetam Priyesh Ajay Rahul Divya Karamveer	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)
11.12.2022	Structural drawing for admin Building cum air blower for 5 MLD STP Shuklaganj	06.12.2022 K-2720	-	-	20	-	-	Dr.Giridhar Preetam Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	Under Review
12.12.2022	STC observation on Road and Drain Layout drawing for 30 MLD STP Pankha.	28.11.2022 K-2714	12.12.2022 S-1907	14	20	-	-	Dr.Giridhar Satish Prasoon Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations and requested UPJN to direct concessionaire to submit compliance report
12.12.2022	Shuklaganj STP work Sr. Structural Engineer Site Inspection Report.	-	12.12.2022 S-1908	-	20	-	-	Dr.Giridhar Satish Prasoon Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations and requested UPJN to direct concessionaire to submit compliance report
12.12.2022	130 MLD STP Jajmau inspection report by Sr. Structural Engineer of STC.	-	12.12.2022 S-1909	-	20	-	-	Dr.Giridhar Satish Prasoon Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations and requested UPJN to direct concessionaire to submit compliance report

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
12.12.2022	STC observation on Monthly activity report for the month of September -2022 & October 2022 of 130 MLD STP Jajmau facilities Phase I.		12.12.2022 S-1910	-	20	-	-	Dr.Giridhar Satish Prasoon Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations and requested UPJN to direct concessionaire to submit compliance report
12.12.2022	Regarding site visit for ongoing instrumentation activities at 30MLD STP Pankha, 15 MLD STP at Unnao and 130 MLD STP at Jajmau	-	12.12.2022 S-1911	-	20	-	-	Dr.Giridhar Satish Prasoon Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations and requested UPJN to direct concessionaire to submit compliance report
12.12.2022	Structural drawing for admin Building cum air blower for 5 MLD STP Shuklaganj	06.12.2022 K-2720	12.12.2022 S-1912	6	20	-	-	Dr.Giridhar Satish Prasoon Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions
13.12.2022	Sewer Network for 30 MLD Pankha STP & associated Infrastructure	-	13.12.2022 S-1913	-	20	-	-	Dr.Giridhar Satish Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations and requested UPJN to direct concessionaire to submit compliance report

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
14.12.2022	Submission of DG sets for 43 MLD STP at Jajmau.	10.12.2022 K-199	-	-	20	-	-	Dr.Giridhar Satish Prasoon Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	Under Review
15.12.2022	KRMPL compliance on Road and Drain Layout drawing for 30 MLD STP Pankha.	14.12.2022 K-2737	-	-	20	-	-	Dr.Giridhar Satish Prasoon Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	Under Review
16.12.2022	Submission of DG sets for 43 MLD STP at Jajmau.	10.12.2022 K-199	16.12.2022 S-1914	6	20	-	-	Dr.Giridhar Satish Prasoon Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations and requested UPJN to direct concessionaire to submit compliance report
17.12.2022	Structural Drawing for Metering Room and VCB Panel Room for 05 MLD STP Shuklaganj facilities	30.11.2022 K-2718	-	-	20	-	-	Dr.Giridhar Satish Prasoon Priyesh Ajay Rahul Divya Karamveer	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)
18.12.2022	KRMPL compliance on Road and Drain Layout drawing for 30 MLD STP Pankha.	14.12.2022 K-2737	-	-	20	-	-	Dr.Giridhar Satish Prasoon Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	Under Review
19.12.2022	STC comments on KRMPL compliance on Road and Drain Layout drawing for 30 MLD STP Pankha.	14.12.2022 K-2737	19.12.2022 S-1915	5	20	-	-	Dr.Giridhar Satish Sunil Preetam Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations and requested UPJN to direct concessionaire to submit compliance report
20.12.2022	Structural Drawing for Metering Room and VCB Panel Room for 05 MLD STP Shuklaganj facilities	30.11.2022 K-2718	20.12.2022 S-1916	20	20	-	-	Dr.Giridhar Satish Sunil Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations and requested UPJN to direct concessionaire to submit compliance report
21.12.2022	Regarding Installation of Electromagnetic Flow Meter at 25 MLD ICI Nalla IPS & 20 MLD Sundar Nagar IPS.	19.12.2022 K-2745	-	-	20	-	-	Dr.Giridhar Satish Sunil Priyesh Ajay Rahul Divya Karamveer	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)
22.12.2022	Regarding Installation of Electromagnetic Flow Meter at 25 MLD ICI Nalla IPS & 20 MLD Sundar Nagar IPS.	19.12.2022 K-2745	22.12.2022 S-1917	3	20	-	-	Dr.Giridhar Satish Sunil Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations and requested UPJN to direct concessionaire to submit compliance report
23.12.2022	STC observation on Monthly activity report for the month of November 2022 of 130 MLD STP Jajmau facilities Phase I	09.12.2022 K-197	23.12.2022 S-1918	14	20	-	-	Dr.Giridhar Satish Sunil Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations and requested UPJN to direct concessionaire to submit compliance report
23.12.2022	Observation on Monthly Activity Report of 210 MLD STP Bingawan facilities for the month of Sep-2022, Oct-2022, & Nov-2022	12.12.2022 K-201	23.12.2022 S-1919	11	20	-	-	Dr.Giridhar Satish Sunil Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations and requested UPJN to direct concessionaire to submit compliance report

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
23.12.2022	Observation on Monthly Activity Report of 42 MLD STP Sajari facilities for the month of Sep-2022, Oct-2022, & Nov-2022	08.12.2022 K-195	23.12.2022 S-1920	15	20	-	-	Dr.Giridhar Satish Sunil Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations and requested UPJN to direct concessionaire to submit compliance report
23.12.2022	Regarding pending approval of various drawings of 05 MLD Shuklaganj STP	15.12.2022 K-2782	23.12.2022 S-1922	8	20	-	-	Dr.Giridhar Satish Sunil Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations and requested UPJN to direct concessionaire to submit compliance report
23.12.2022	Recommendation on Submission of compliance regarding Operation & Control Philosophy & Interlocking P&ID for 30 MLD STP & 2 nos. IPS at Pankha facilities.	-	23.12.2022 S-1923	-	20	-	-	Dr.Giridhar Satish Sunil Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations and requested UPJN to direct concessionaire to submit compliance report
23.12.2022	Release of PE Payment against completed Milestones	-	23.12.2022 S-1924	-	20	-	-	Dr.Giridhar Satish Sunil Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE requested for release of payments against completed milestones

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)
24.12.2022	Regarding Construction & Installation works of Thermal Nalla-B I&D at 20 MLD Sundar Nagar IPS.	-	24.12.2022 S-1925	-	20	-	-	Dr.Giridhar Satish Sunil Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations and requested UPJN to direct concessionaire to submit compliance report
24.12.2022	Balance Works Status for 30 MLD STP at Pankha as of 21st December 2022	19.12.2022 K-2745	24.12.2022 S-1926	5	20	-	-	Dr.Giridhar Satish Sunil Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations and requested UPJN to direct concessionaire to submit compliance report
24.12.2022	Balance Works Status for 15 MLD STP at Unnao as of 20th December 2022	14.12.2022 K-2740	24.12.2022 S-1927	10	20	-	-	Dr.Giridhar Satish Sunil Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations and requested UPJN to direct concessionaire to submit compliance report
24.12.2022	STC observation on Monthly activity report for the month of November 2022 of 43 MLD STP Jajmau facilities Phase II	09.12.2022 K-198	24.12.2022 S-1921	15	20	-	-	Dr.Giridhar Satish Sunil Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations and requested UPJN to direct concessionaire to submit compliance report

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
24.12.2022	Revised Milestone Plan for 05 MLD Shuklaganj STP	23.12.2022 U-2891	24.12.2022 1930	1	20	-	-	Dr.Giridhar Satish Sunil Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations and requested UPJN to direct concessionaire to submit compliance report
25.12.2022	Sunday												
26.12.2022	Submission of documents for overhauling of Air Blower no.2 and repairing of PST-Central bearing at 43 MLD STP Jajmau.	21.12.2022 U-3104	26.12.2022 1928	5	20	-	-	Dr.Giridhar Anil Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations and requested UPJN to direct concessionaire to submit compliance report
26.12.2022	Inspection Report of 210 MLD STP Bingawan for Inspection held on 15.12.2022.	-	26.12.2022 1929	-	20	-	-	Dr.Giridhar Anil Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations and requested UPJN to direct concessionaire to submit compliance report
27.12.2022	Regarding Installation & testing of torque switches for Grit Mechanism, Primary Clarifiers, Secondary Clarifiers, Sludge Thickener, at 130 MLD STP Jajmau.	RFI dated 24.12.2022 & RFI dated 17.12.2022	27.12.2022 1931	3	20	-	-	Dr.Giridhar Anil Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations and requested UPJN to direct concessionaire to submit compliance report

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
27.12.2022	Observations on Test Results of Dewatered Sludge Sample of Different STPs	17.12.2022 K-205	27.12.2022 1932	10	20	-	-	Dr.Giridhar Anil Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE reviewed the test report and submitted their observation on test results.
28.12.2022	Regarding 130 MLD STP existing bypass line dismantling and re-route for water discharge line which is coming from water treatment Plant Pilot Plant operated by IIT Kanpur at Jajmau STP premises.	28.12.2022 K-2759	-	-	20	-	-	Dr.Giridhar Anil Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	Under Review
29.12.2022	Inspection Report of 42 MLD Sajari facilities, inspection done on 27.12.2022.	-	29.12.2022 S-1933	-	20	-	-	Dr.Giridhar Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1	-	-	-	PE submitted their observations and requested UPJN to direct concessionaire to submit compliance report
29.12.2022	Inspection report of associated works of 210 MLD Bingawan STP (IPS Rakhimandi, Munshipurwa and Halwakanda) for the inspection done on	-	29.12.2022 S-1934	-	20	-	-	Dr.Giridhar Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1	-	-	-	PE submitted their observations and requested UPJN to direct concessionaire to submit compliance report

	28.12.2022												
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Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
29.12.2022	Inspection report of associated works of 42 MLD Sajari STP (IPS Chakeri and Sanigawan) for the inspection done on 28.12.2022.	-	29.12.2022 S-1935	-	20	-	-	Dr.Giridhar Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1	-	-	-	PE submitted their observations and requested UPJN to direct concessionaire to submit compliance report
30.12.2022	Inspection Report of 130 MLD STP Jajmau facilities, Inspection done on 27.12.2022	-	30.12.2022 S-1936	-	20	-	-	Dr.Giridhar Preetam Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations and requested UPJN to direct concessionaire to submit compliance report
31.12.2022	Observations on installation of Primary clarifier Mechanism No.3 (PST No.3) for 130 MLD Jajmau Phase-1	KRMPL RFI dated 30.12.2022	31.12.2022 S-1937	1	20	-	-	Dr.Giridhar Preetam Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations and requested UPJN to direct concessionaire to submit compliance report
31.12.2022	Inspection Report of IPSs (Nawabganj IPS, Parmat IPS, Baba Ghat IPS, & Guptar Ghat IPS) of 130 MLD Jajmau phase 1, Inspection done on 29.12.2022	-	31.12.2022 S-1938	-	20	-	-	Dr.Giridhar Preetam Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations and requested UPJN to direct concessionaire to submit compliance report

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
31.12.2022	Inspection Report of 43 MLD IPS facilities Phase II for inspection done on 29.12.2022	-	31.12.2022 S-1939	-	20	-	-	Dr.Giridhar Preetam Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations and requested UPJN to direct concessionaire to submit compliance report
31.12.2022	Inspection Report of 43 MLD STP Jajmau facilities, Inspection done on 27.12.2022	-	31.12.2022 S-1940	-	20	-	-	Dr.Giridhar Preetam Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1+1	-	-	-	PE submitted their observations and requested UPJN to direct concessionaire to submit compliance report

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

SN	Name	Designation	Total Man-days	Input
1.	Dr. Giri Prabhu Kumar	Team Leader cum waste water expert	31	Timesheet attached
2.	Mr. Preetam Walunjkar	Senior Structure Engineer	11	Timesheet attached
3.	Mr. Anil Kumar Seth	Senior Electrical Engineer	03	Timesheet attached
4.	Mr. Satish Kamaraju	Senior Process Engineer	13	Timesheet attached
5.	Mr. Sunil Basutkar	Senior Mechanical Engineer	06	Timesheet attached
6.	Mr. Prasoon Bhardwaj	Instrumentation Engineer	16	Timesheet attached