

# 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

February - 2023



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208002



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## ABBREVIATIONS

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

## MONTHLY PROGRESS REPORT – HAM KANPUR

### 1. INTRODUCTION

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

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

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

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

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

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

## 2. HYBRID ANNUITY MODEL (HAM)

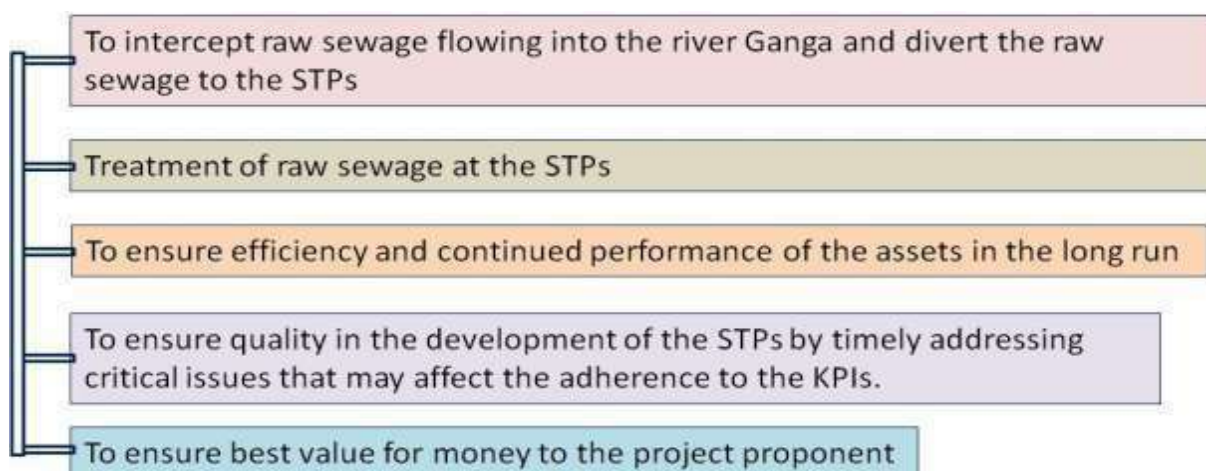
Government of India has approved the Namami Gange program as an integrated approach for effective abatement of pollution in river Ganga and Yamuna. As part of this and to ensure that no untreated domestic sewage flow into the river Ganga and Yamuna, various interventions are planned such as Interception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

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

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

## 3. OBJECTIVES

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



**Figure 1: Objectives of NMCG and UP JAL NIGAM**

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

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

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

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

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

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

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

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

### PANKHA FACILITIES

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

**Table 5.1: Pankha Facilities**

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



**UNNAO FACILITIES**

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

**Table 5.2: Unnao Facilities**

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

**SHUKLAGANJ STP FACILITIES**

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

**Table 5.3: Shuklaganj Facilities**

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

## JAJMAU (PHASE I) FACILITIES

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

**Table 5.4: Jajmau Facilities**

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

## JAJMAU PHASE II STP FACILITY

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

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

**BINGAWAN FACILITIES**

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

**Table 5.5: Bingawan Facilities**

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

**SAJARI FACILITIES**

Project wise component detail of Sajari is given in table 5.6

**Table 5.6: Sajari Facilities**

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

## 6. PHYSICAL PROGRESS OF WORK

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

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

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

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

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

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

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

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

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

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

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

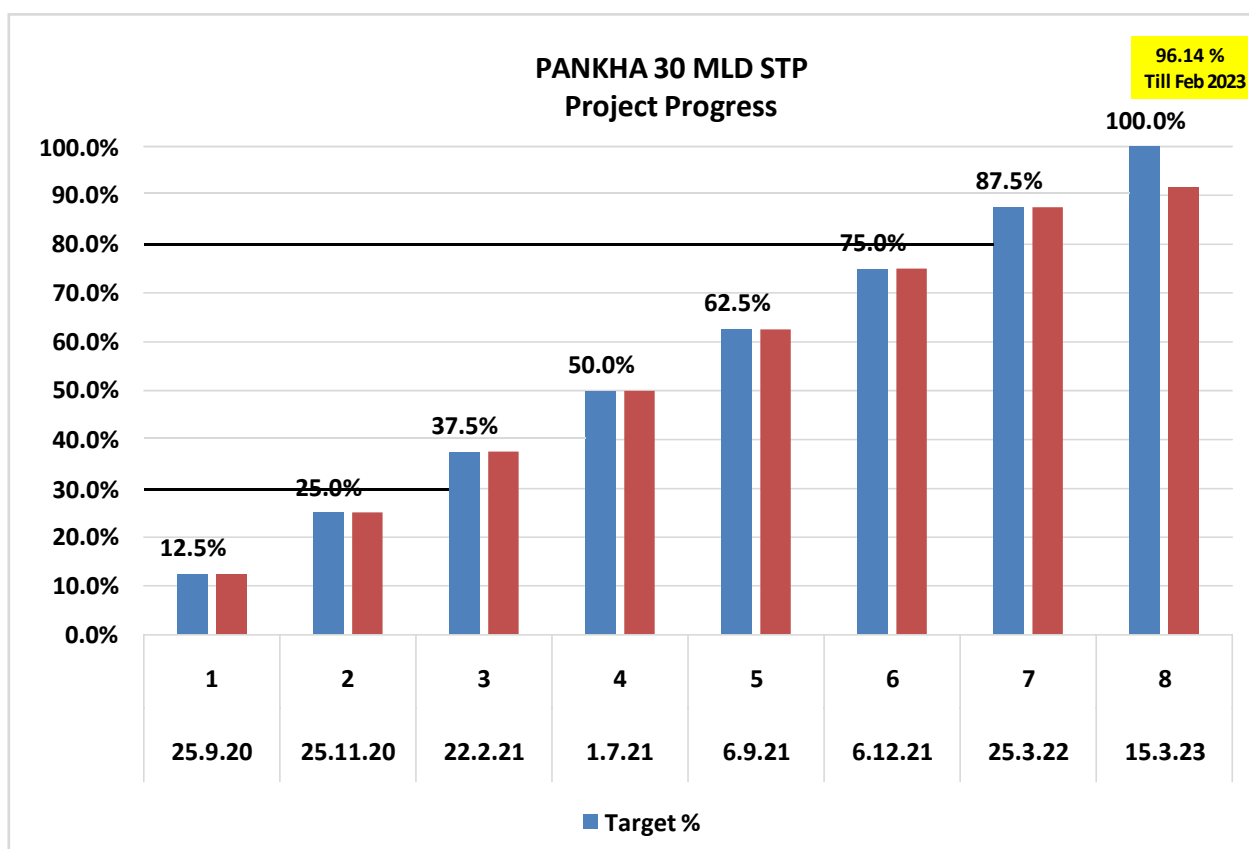
In the NMCG meeting dated 05/09/2022 ED (P) NMCG again reviewed the progress status and gave strict directions to increase the manpower, required machinery and expedite the Pankha, Unnao, Jajmau and Shuklaganj STP works.

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

In the NMCG meeting dated 06/02/2023 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 are 15/03/2023 and 30/04/2023 respectively.

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

- Total progress of 30 MLD Pankha STP till Feb. 2023 is 96.14%. 7 milestones have been achieved out of total 8.
- Manpower deployed was 30-50 nos.
- During NMCG meeting dated 06/02/2023, the Concessionaire was directed to complete the rehabilitation works of Pankha STP by 15/03/2023.
- The effective date and original completion date for Pankha STP facilities were 11/10/2019 and 10/07/2021 respectively;
- EOT considering hindrance of 6 months (4 months on the account of COVID-19 1st wave and 2 months on the account of 2nd wave) were acknowledged in accordance with GOI guidelines vide MOM no. F.18/4/2020-PPD dated 13/05/2020. Also, delay in work completion due to other hindrances and work front related issues were accounted and overall EOT till 25/04/2022 was given to the Concessionaire;
- It is worth to mention that all the due hindrances and delays have been accounted for EOT till 25/04/2022 and LD is not imposed till this date. But there is no any reason on which the Concessionaire further qualifies for non-application of LD beyond 25/04/2022.
- Considering above facts, EOT till 15/03/2023 was granted to the Concessionaire with applicable LD as per CA clause 7.12(a) with double penalty (please refer MOM of NMCG review meeting dated 17.02.2022).



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

Milestone	Schedule Completion date	Actual completion date	Milestone Amount (Rs.)	Targeted Progress till 28.02.2023		
				Milestone Amount (Rs.)	% Target	% Achieved
1st milestone	25.09.2020	25.09.2020	12,48,39,750.00	124,839,750	12.50%	12.50%
2nd milestone	25.11.2020	25.11.2020	12,48,39,750.00	124,839,750	12.50%	12.50%
3rd Milestone	22.02.2021	22.02.2021	12,48,39,750.00	124,839,750	12.50%	12.50%
4th Milestone	01.07.2021	01.07.2021	12,48,39,750.00	124,839,750	12.50%	12.50%
5th Milestone	06.09.2021	06.09.2021	12,48,39,750.00	124,839,750	12.50%	12.50%
6th milestone	06.12.2021	06.12.2021	12,48,39,750.00	124,839,750	12.5%	12.50%
7th milestone	25.03.2022	25.03.2022	12,48,39,750.00	121,887,531	12.5%	12.20%
8th milestone	20.12.2022 Approval pending	Not completed	12,48,39,750.00	89,266,424	12.5%	8.93%
	99,87,18,000.00			960,192,455	100%	96.14%

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

STP Units	Target %	Achieved %
I&D structure (All 3)	100%	93%
Sewer Laying (15 km of 16.624)	100%	90%
Manholes (245 completed of 308)	100%	87%
Rising Main (6.65 km of 7 km)	100%	97%
MPS	100%	97%
PTU	100%	95%
SBR	100%	98%
Air Blower	100%	96%
CCT	100%	98%
Chlorination Room	100%	95%
Supernatant Sump	100%	98%
Sludge Thickener	100%	98%
Centrifuge Building	100%	95%
Effluent Disposal System	100%	95%
Admin Building	100%	96%
Staff Quarter	100%	98%
Guard Room	100%	98%
Transformer Yard	100%	97%
DG Set	100%	97%
Boundary Wall	100%	95%

**Detail of Balance / Pending Works Status**

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

**Milestone Wise Progress of Work**

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



## PHOTOGRAPHS OF PANKHA STP SITE



**MPS works**



**VCB Panel & Admin Building**



**Chlorination Room**



**Centrifuge Building**

**15 MLD UNNAO STP & ASSOCIATED INFRASTRUCTURE**

- Total progress till Feb 2023 was 93.01%; Till date 7 milestones out of 8 completed.
- Manpower deployed at the 15 MLD STP Unnao site was in the range of 20-30 nos.
- During NMCG meeting dated 06/02/2023, the Concessionaire was directed to complete the construction works of Unnao STP by 30/04/2023.
- The effective date and original completion date for Unnao STP facilities were 11/10/2019 and 10/07/2021 (excluding 3 months trial run) respectively;
- Please refer UPJN letter no. 379/022-0501/2021 dated 25/05/2021 vide which 3rd milestone onward dates were revised due to some hindrances at the Unnao STP works. Final date of completion of Unnao STP was 15/09/2021.
- Further, EOT considering hindrance of 6 months (4 months on the account of COVID-19 1st wave and 2 months on the account of 2nd wave) were acknowledged in accordance with GOI guidelines vide MOM no. F.18/4/2020-PPD dated 13/05/2020. In this regard EOT till 15/03/2022 was given to the Concessionaire.
- MOM of NMCG meeting dated 17/02/2022 vide which NMCG granted EOT till 15/05/2022 to the Concessionaire to complete Unnao STP in totality with condition that double penalty shall be imposed on KRMPL if work is not completed by 15/05/2022. The same was approved vide UPJN letter no. 558/W.S.-96/07 dated 25/03/2022.
- It is worth to mention that all the due hindrances and delays have been accounted for EOT till 15/05/2022 and LD is not imposed till this date. But there is no any reason on which the Concessionaire further qualifies for non-application of LD beyond 15/05/2022;
- Considering above facts, it is advised that EOT till 30/04/2023 was granted to the Concessionaire with applicable LD as per CA clause 7.12(a) with double penalty (please refer MOM of NMCG review meeting dated 17.02.2022).

**Earth Filling Status:**

- Till Feb. 2023, total 11,000 cum earth filling has been done by KRMPL out of total 19,000 cum.
- Earth filling activity was stopped since 11.02.2023 and despite many letters by PE and UPJN, KRMPL has not started balance earth filling work.
- KRMPL needs to expedite 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, ground water table has reduced and KRMPL acknowledged that laid sewer line from MH 40 to 42 can be rectified and started sewer line cleaning activity by silt removal.
  - iv. Still, the work of slit cleaning and leakage repair is very slow. Despite many letters and instructions KRMPL is not able to expedite the work.
- Status of progress of different STP units till Feb 2023 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%	93%
Staff Quarter	100%	95%
Guard Room	100%	97%
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 28.02.2023		
				Milestone Amount (Rs.)	% Target	% Achieved
1st milestone	25.09.2020	25.09.2020	4,78,36,250.00	47836250.0	12.50%	12.50%
2nd milestone	06.12.2020	06.12.2020	4,78,36,250.00	47836250.0	12.50%	12.50%
3rd Milestone	25.03.2021	25.03.2021	4,78,36,250.00	47836250.0	12.50%	12.50%
4th Milestone	07.08.2021	07.08.2021	4,78,36,250.00	47836250.0	12.50%	12.50%
5th Milestone	15.11.2021	15.11.2021	4,78,36,250.00	47836250.0	12.50%	12.50%
6th milestone	25.03.2022	04.04.2022	4,78,36,250.00	47,638,413	12.50%	12.44%
7th milestone	25.04.2022	Not completed	4,78,36,250.00	34,684,905	12.50%	9.06%
8th milestone	15.06.2022	Not completed	4,78,36,250.00	34,436,966	12.50%	8.99%
<b>Overall Progress</b>			<b>38,26,90,000.00</b>	<b>355,941,534</b>	<b>100%</b>	<b>93.01%</b>

#### Detail of Balance / Pending Works Status

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

#### Milestone Wise Progress of Work

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



## PHOTOGRAPHS OF UNNAO STP SITE



**MPS final works**



**Decanter Installation & Testing**



**Diffuser leakage testing done**

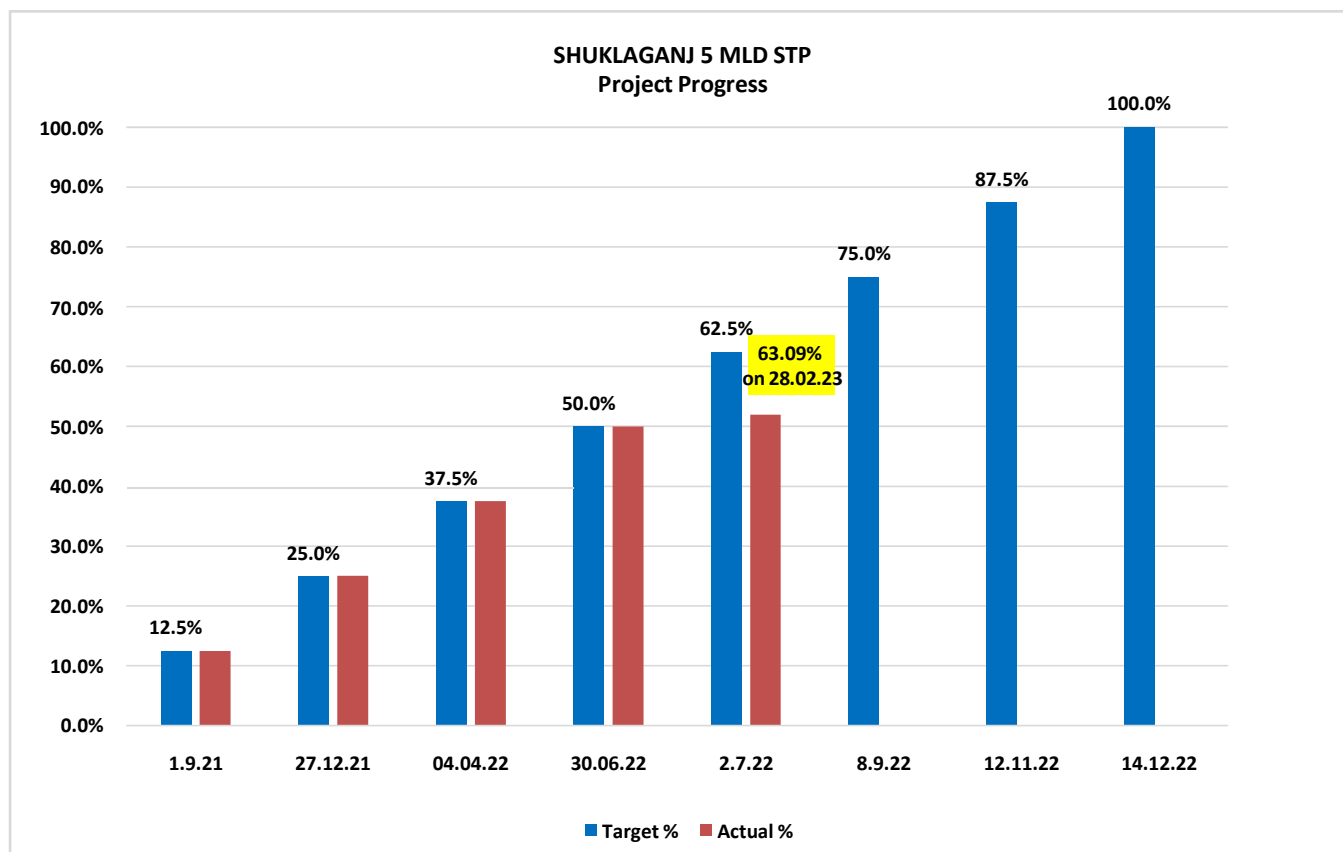


**HT VCB Panel testing done**

**05 MLD SHUKLAGANJ STP & ASSOCIATED INFRASTRUCTURE**

Progress of construction works for 05 MLD STP at Shuklaganj is very slow. Total progress till Feb 2023 is 63.09%. 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 Jan 2023, the manpower deployed at the 05 MLD STP site was 15-20 nos. KRMPL need to increase the manpower up to 100 to achieve the target on time;
- EOT till 13.06.2023 has been considered on behalf of hindrances due of COVID 2nd wave and extra works due poor SBC/land change, flooding and IITR vetting etc.



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

STP Units	Target %	Achieved %
I&D	38%	10%
Sewer Laying (900 mm, 424m)	38%	10%
Manhole (09 nos.)	38%	0%
Pumping Main (500mm dia, 80 m)	38%	0%
MPS	38%	75%



PTU	38%	20%
SBR	38%	65%
Blower	38%	20%
CCT, Chlorination Building	38%	50%
Thickener, Supernatant Sump	38%	75%
Centrifuge	38%	15%
Admin Building	38%	20%
Staff Quarter	38%	45%
Guard Room	38%	70%
Boundary Wall	38%	50%

### SUMMARY OF OVERALL PROGRESS AT SHUKLAGANJ STP

Milestone	Schedule Completion date	Actual completion date	Milestone Amount (Rs.)	Progress till 28.02.2023		
				Milestone Amount (Rs.)	% Target	% Achieved
1st milestone	01.09.2021	01.09.2021	2,66,18775.0	26,618,775	12.50%	12.50%
2nd milestone	27.12.2021	27.12.2021	2,66,18775.0	26,618,775	12.50%	12.50%
3rd Milestone	25.03.2022	04.04.2022	2,66,18775.0	26,618,775	12.50%	12.50%
4th Milestone	02.05.2022	-	2,66,18775.0	26,618,775	12.50%	12.50%
5th Milestone	02.07.2022	-	2,66,18775.0	14,112,361	12.50%	6.62%
6th milestone	08.09.2022	-	2,66,18775.0	9,538,398	12.50%	4.47%
7th milestone	12.11.2022	-	2,66,18775.0	838,491	12.50%	0.39%
8th milestone	14.12.2022	-	2,66,18775.0	3,389,897	12.50%	1.59%
<b>Overall Progress</b>			<b>21,29,50,200.0</b>	<b>134,354,247</b>	<b>100%</b>	<b>63.09%</b>

### Milestone Wise Progress of Work

Detail of Milestone wise activities and their progress of work for Shuklaganj STP is given in the **Annexure 3** attached separately with this MPR.

## Photographs of Shuklaganj STP



**MPS works**



**PTU column casting**



**Supernatant Sump**



**CCT Building works**

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

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

Till February 2023 overall progress is **70.38%**.

- 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 28.02.2023		
				Milestone Amount	% Target	% Achieved
1 <sup>st</sup>	15.10.2021	15.10.2021	240160000.00	240,160,000	25%	25%
2 <sup>nd</sup>	15.03.2022	15.03.2022	240160000.00	240,160,000	25%	25%
3 <sup>rd</sup>	15.06.2022	Not completed	240160000.00	184,164,513	25%	19.17%
4 <sup>th</sup>	09.08.2022	Not completed	240160000.00	11,604,531	25%	1.20%
Overall progress	960640000.000			<b>676,089,043.93</b>	100%	69.77%
<b>Total %</b>	<b>100%</b>				<b>100%</b>	<b>70.38%</b>



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

SN	Equipment	Issues in Jan 2023	Status in Feb 2023	Compliance / Remarks
1	Collection Chamber	<ul style="list-style-type: none"> <li>Toe-guard is not installed.</li> </ul>	<ul style="list-style-type: none"> <li>Toe-guard is not installed.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter No. 2012 and 1974</li> </ul>
2	Fine screen chamber (Mechanical/Manual)	<ul style="list-style-type: none"> <li>Mechanical Fine Screen no. 1 &amp; 2 are under maintenance.</li> <li>Automation System Is not installed.</li> </ul>	<ul style="list-style-type: none"> <li>Mechanical Fine Screen no. 1 &amp; 2 are operational but not serving its purpose.</li> <li>Automation System is not installed.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter No. 2012 and 1974</li> </ul>
3	Grit Chamber	<ul style="list-style-type: none"> <li>Installation of LPBS pending</li> <li>Grit Mechanism No. 3 torque switch was not in working condition.</li> </ul>	<ul style="list-style-type: none"> <li>Installation of LPBS pending</li> <li>Grit classifier no. 2 not working properly.</li> <li>Grit Mechanism No. 3 torque switch was not in working condition.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter No. 2012 and 1974</li> </ul>
4	Inlet Flow Meter	<ul style="list-style-type: none"> <li>Flow chart and level scale not installed.</li> </ul>	<ul style="list-style-type: none"> <li>Flow chart and level scale not installed.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter No. 2012 and 1974</li> </ul>
5	Primary Sedimentation Tank	<ul style="list-style-type: none"> <li>PST No. 3 has been charged.</li> <li>Overflow was observed in PST No. 1 &amp; PST No.2.</li> <li>Scum box rectification Work pending.</li> <li>Installation of LPBS pending.</li> <li>Torque Switch not working properly for PST No.2.</li> <li>PST-1 Torque switch hooter alarm was not working properly.</li> </ul>	<ul style="list-style-type: none"> <li>Overflow was observed in PST No. 1 &amp; PST No.2.</li> <li>Scum box rectification Work pending.</li> <li>Installation of LPBS pending.</li> <li>Torque Switch not working properly for PST No.2.</li> <li>PST-1 Torque switch hooter alarm was not working properly.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter No. 2012 and 1974</li> </ul>
6	Sludge Thickener Tank	<ul style="list-style-type: none"> <li>Sludge thickner no. 1 is operational but torque switch are not working properly &amp; Thickner no.2 is non-operational.</li> </ul>	<ul style="list-style-type: none"> <li>Sludge thickner no. 1 is operational but torque switch are not working properly &amp; Thickner no.2 is under renovation</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter No. 2012 and 1974</li> </ul>

SN	Equipment	Issues in Jan 2023	Status in Feb 2023	Compliance / Remarks
7	Blending Tank Agitator	<ul style="list-style-type: none"> <li>Installation of LPBS pending</li> </ul>	<ul style="list-style-type: none"> <li>Installation of LPBS pending</li> </ul>	Refer STC Letter No. 2012 and 1974
8	Aeration Tank	<ul style="list-style-type: none"> <li>Sludge removal work from aeration tank no. 2 is in progress. Sluice gate not replaced, Cable tray and electrical termination is still pending.</li> </ul>	<ul style="list-style-type: none"> <li>Sludge removal work from aeration tank no. 2 is completed and Sludge removal work from aeration tank no. 1 is under progress.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter No. 2012 and 1974</li> </ul>
9	Return Sludge Pump House	<ul style="list-style-type: none"> <li>Renovation work for Pump no. 4 pending.</li> <li>Replacement of valves, NRVs and pipes are pending.</li> <li>Cable tray, LCS Panel, internal electrification work pending.</li> </ul>	<ul style="list-style-type: none"> <li>Out of 4 pumps only 2 pumps were operational.</li> <li>Renovation work for Pump no. 4 pending.</li> <li>Replacement of valves, NRVs and pipes are pending.</li> <li>Cable tray, LCS Panel, internal electrification work pending.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter No. 2012 and 1974</li> </ul>
10	Treated Effluent Pump House	<ul style="list-style-type: none"> <li>7 nos. of pumps are found in operation &amp; 2nos. of pumps found in not in working condition and balance 02 nos. is missing since handover.</li> <li>Cable tray, LCS Panel, internal electrification work pending</li> </ul>	<ul style="list-style-type: none"> <li>8 nos. of pumps are found in operation &amp; 1 nos.of pumps was not in working condition and balance 02 nos. is missing since handover.</li> <li>Cable tray, LCS Panel, internal electrification work pending.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter No. 2012 and 1974</li> </ul>

SN	Equipment	Issues in Jan 2023	Status in Feb 2023	Compliance / Remarks
11	Belt Filter Press system	<ul style="list-style-type: none"> <li>BFP brick work is pending.</li> </ul>	<ul style="list-style-type: none"> <li>BFP brick work is pending.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter No. 2012 and 1974</li> </ul>
12	Supernatant Pumps	<ul style="list-style-type: none"> <li>Supply of pumps &amp; renovation work</li> </ul>	<ul style="list-style-type: none"> <li>Pending</li> </ul>	Refer STC Letter No. 2012 and 1974
13	Sludge Digester	<ul style="list-style-type: none"> <li>Civil renovation work</li> <li>Supply of equipments</li> </ul>	<ul style="list-style-type: none"> <li>Pending</li> <li>Pending</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter No. 2012 and 1974</li> </ul>
14	Final Sedimentation Tank	<ul style="list-style-type: none"> <li>Civil renovation work for FST no 3 is pending.</li> <li>Supply of equipment</li> <li>FST-1 Torque switch is not working.</li> <li>FST-2 Torque switch hooter alarm was not working properly.</li> </ul>	<ul style="list-style-type: none"> <li>Pending</li> <li>Pending</li> <li>FST-1 Torque switch is not working.</li> <li>FST-2 Torque switch hooter alarm was not working properly.</li> <li>Overflow was observed in FST-1.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter No. 2012 and 1974</li> </ul>
15	New CCT & TEPH	<ul style="list-style-type: none"> <li>TEPH excavation&amp; PCC is completed &amp; footing Reinforcement placement in progress. Wall construction for the TEPH has started.</li> </ul>	<ul style="list-style-type: none"> <li>TEPH excavation&amp; PCC is completed &amp; footing Reinforcement placement in progress.</li> <li>Wall construction for the TEPH has started.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter No. 2012 and 1974</li> </ul>
16	Power Backup (DG set & DFG)	Only 2 out of 5 Nos. DFG sets (DFG no. 02 & 03) are functional, & 2 no. 1250 KVA rental DG set are available at site for proper operation of plant during shutdown of Power.	<ul style="list-style-type: none"> <li>All 5 out of 5 Nos. DFG sets are non functional, and only 2 no. 1250 KVA rental DG set are available at site for proper operation of plant during shutdown of Power.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter No. 2012 and 1974</li> </ul>
17	RTOLMS	<ul style="list-style-type: none"> <li>Design, drawing still pending</li> </ul>	<ul style="list-style-type: none"> <li>Design, drawing still pending</li> </ul>	<ul style="list-style-type: none"> <li>Pending from KRMPL's end</li> </ul>
18	Sludge disposal system	<ul style="list-style-type: none"> <li>Mr. Madhav Kumar asked KRMPL to submit the calculation of sludge generation &amp; maintain the daily sludge removal record.</li> <li>NMCG Team directed KRMPL to remove sludge from STP site at the</li> </ul>	<ul style="list-style-type: none"> <li>Not complied by KRMPL</li> <li>Not complied by KRMPL</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter No. 2012 and 1974</li> </ul>

		earliest.		
19	New Laboratory	• Under Renovation	• Under Renovation	Refer STC Letter No. 2012 and 1974
20	Scrubbing & Flaring System	Supply pending Civil foundation work	Pending Pending	Refer STC Letter No. 2012 and 1974
21	Combined Sewage Pumping Station (CSPS)	Pump supply pending Civil work	Pending Pending	Refer STC Letter No. 2012 and 1974
22	Substation	HT & LT room civil construction work	Pending	Refer STC Letter No. 2012 and 1974
23	Joint Sampling & Testing by NABL Laboratory	IIT Kanpur has taken only one composite sample on 18.01.2023 & 19.01.2023 and test result has been submitted by KRMPL.	IIT Kanpur has taken only one composite sample on 20.02.2023 & 21.02.2023 and test result has been submitted by KRMPL.	Test report have been attached separately.

#### **Annexure 4.1: Balance Work Status for 130 MLD STP Jajmau (Feb. 2023)**

Attached separately

#### **Annexure-4.2: Monthly Activity Report Jajmau 130 MLD**

Attached separately

#### **Annexure-4.3: Inspection Report of Jajmau 130 MLD STP**

Attached separately

#### **Annexure-4.4: Inspection Report of IPSs for Jajmau 130 MLD STP**

Attached separately

#### **Annexure-4.5: Milestone wise activities for 130 MLD STP Jajmau Phase-1 facilities**

Attached separately



**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 IPSs Jajmau 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

S.N	Inspection done dated	Description of Inspection details	Compliances reports status
23.	05.05.2022	Inspection report issued on 20.05.2022 for 130 MLD & 43 MLD IPSs and STP Jajmau facilities	Not complied by KRMPL
24.	18.05.2022	Inspection report issued on 21.05.2022 for 130 MLD STP Jajmau	KRMPL has submitted compliance report vide KRMPL letter no.2495 dated 27.05.2022
25.	20.05.2022	Inspection report issued on 25.05.2022 for Nawabganj IPS	Not complied by KRMPL
26.	01.06.2022	Inspection report issued on 01.06.2022	Not complied by KRMPL
27.	06.06.2022	DG,NMCG,ED(T) and Rajat Gupta Sir site visited on 06.06.2022 and instructed to KRMPL as per M.O.M	Not complied by KRMPL
28.	14.06.2022	Inspection report issued on 14.06.2022	Not complied by KRMPL
29.	06.06.2022, 07.06.2022 and 20.06.2022	Inspection report of 130 MLD, 43 MLD,IPSs and CSPS Jajmau on 29.06.2022	Not complied by KRMPL
30.	23.06.2022	Inspection report of 130 MLD STP Jajmau facilities Phase 1,Inspection report issued on 27.06.2022	Not complied by KRMPL
31.	11.07.2022, 6.07.2022, 21.07.2022, 23.07.2022 and 25.07.2022	Inspection report of 130 MLD STP and IPSs of Jajmau facilities Phase 1,Inspection report issued on 28.07.2022	Not complied by KRMPL
32.	08.08.2022	ED(P),NMCG and Rajat Gupta Sir site visited on 06.06.2022 and instructed to KRMPL as per M.O.M	Not complied by KRMPL
33.	02.08.2022 and 23.08.2022.	Inspection report of 130 MLD STP Jajmau facilities phase 1, inspection report issued 31.08.2022	Not complied by KRMPL
34.	06.09.2022 ,05.09.2022, 20.09.2022 and 23.09.202	Inspection report of 130 MLD STP Jajmau facilities phase 1, inspection report issued 30.09.2022	Not complied by KRMPL
35.	13.10.2022 & 17.10.2022,	Inspection Report of 130 MLD Jajmau facilities phase 1, inspection report issued on 17.10.2022	KRMPL has submitted compliance report vide KRMPL letter no.168 dated 31.10.2022
36.	27.10.2022	Inspection Report of IPSs (Nawabganj IPS, Parmat IPS, Baba Ghat IPS, & Guptar Ghat IPS) issued on 31.10.2022	Not complied by KRMPL
37.	29.11.2022	Inspection Report of IPSs (Nawabganj IPS, Parmat IPS, Baba Ghat IPS, & Guptar Ghat IPS) issued on 30.11.2022	Not complied by KRMPL
38.	27.12.2022	Inspection Report of 130 MLD Jajmau facilities phase 1, inspection report issued on 27.12.2022	Not complied by KRMPL
39.	29.12.2022	Inspection Report of IPSs (Nawabganj IPS, Parmat IPS, Baba Ghat IPS, & Guptar Ghat IPS) issued on 29.12.2022	Not complied by KRMPL

40.	01.02.2023, 04.02.2023, 13.02.2023, and 15.02.2023	Inspection Report of 130 MLD Jajmau facilities phase 1, inspection report issued on 28.02.2023	Not complied by KRMPL
41.	10.02.2023	Inspection Report of IPSs (Nawabganj IPS, Parmat IPS, Baba Ghat IPS, & Guptar Ghat IPS) issued on 28.02.2023	Not complied by KRMPL

**130 MLD STP JAJMAU Site Pictures during renovation period (Updated as on 28.02.2023)**



**Sludge cleaning work at aeration tank no.1 in February 2023**



**Sludge cleaning work at aeration tank no.3 in February 2023**



**Civil work in progress at TEPH in February 2023**



**FST in February 2023**



**43 MLD JAJMAU PHASE II**

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

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

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

SN	Equipment	Issues in Jan 2023	Status in Feb 2023	Compliance / Remarks
1	Mechanical Screens (Fine Screens)	<ul style="list-style-type: none"> <li>Mechanical screens operational</li> <li>Automation system</li> </ul>	<ul style="list-style-type: none"> <li>Mechanical screens operational</li> <li>Pending</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter No. 2007 dated 27.02.2023.</li> </ul>
2	Grit Removal System	<ul style="list-style-type: none"> <li>Grit removal system is functional but classifier system is not functional since handover.</li> </ul>	<ul style="list-style-type: none"> <li>Classifier system is functional.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter No. 2007 dated 27.02.2023.</li> </ul>
3	Inlet Flow Meter	<ul style="list-style-type: none"> <li>Calibration pending.</li> <li>Level Scale should be properly painted.</li> </ul>	<ul style="list-style-type: none"> <li>Calibration pending.</li> <li>Level Scale should be properly painted.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter No. 2007 dated 27.02.2023.</li> </ul>
4	Primary Sedimentation Tank	<ul style="list-style-type: none"> <li>PST Screw pump is operational.</li> </ul>	<ul style="list-style-type: none"> <li>Operational.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter No. 2007 dated 27.02.2023.</li> </ul>
5	Sludge Digester System	<ul style="list-style-type: none"> <li>Sludge digested system is not in working condition since handover.</li> </ul>	<ul style="list-style-type: none"> <li>Sludge digested system is not in working condition since handover.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter No. 2007 dated 27.02.2023.</li> </ul>
6	Air Blower System and Aeration Tank	<ul style="list-style-type: none"> <li>Air blower no. 3 is operational.</li> <li>Air Blower no. 2 is operational.</li> </ul>	<ul style="list-style-type: none"> <li>Air blower no. 1, 2 and 3 are operational.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter No. 2007 dated 27.02.2023.</li> </ul>
7	Centrifuge System	<ul style="list-style-type: none"> <li>Both Centrifuges need to be overhauled &amp; servicing.</li> </ul>	<ul style="list-style-type: none"> <li>Both Centrifuges need to be overhauled &amp; servicing.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter No. 2007 dated 27.02.2023.</li> </ul>
8	Sludge Thickener	<ul style="list-style-type: none"> <li>Sludge cleaning work from sludge thickener has been done.</li> </ul>	<ul style="list-style-type: none"> <li>Sludge thickener is operational.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter No. 2007 dated 27.02.2023.</li> </ul>
9	Final Sedimentation Tank	<ul style="list-style-type: none"> <li>Cleaning work need to be done.</li> <li>Painting work needs to be done.</li> <li>"V" notch need to be replaced.</li> </ul>	<ul style="list-style-type: none"> <li>Cleaning work Pending</li> <li>Painting work pending</li> <li>Pending</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter No. 2007 dated 27.02.2023.</li> </ul>

SN	Equipment	Issues in Jan 2023	Status in Feb 2023	Compliance / Remarks
10	Sludge Disposal	<ul style="list-style-type: none"> <li>Disposal of sludge is to be done by the KRMPL as per UPPCB norms.</li> </ul>	<ul style="list-style-type: none"> <li>Pending</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter No. 2007 dated 27.02.2023.</li> </ul>
11	Return Sludge Pump House	<ul style="list-style-type: none"> <li>Waste activated sludge pump no. 2 is under maintenance since 07.09.2022.</li> </ul>	<ul style="list-style-type: none"> <li>Pump no. 4 non-operational since 10.02.2023.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter No. 2007 dated 27.02.2023.</li> </ul>
12	Power Backup (DG set)	<ul style="list-style-type: none"> <li>Power backup (DG set) for plant operation &amp; RTLOMS for plant online mentoring system are not available at site.</li> </ul>	<ul style="list-style-type: none"> <li>Pending</li> </ul>	<ul style="list-style-type: none"> <li>Pending from KRMPL's end</li> </ul>
13	RTOLMS	<ul style="list-style-type: none"> <li>RTLOMS for plant online mentoring system are not available at site.</li> </ul>	<ul style="list-style-type: none"> <li>Pending</li> </ul>	<ul style="list-style-type: none"> <li>Pending from KRMPL's end</li> </ul>
14	Chlorination System	<ul style="list-style-type: none"> <li>KRMPL has not arranged temporary chlorination system</li> </ul>	<ul style="list-style-type: none"> <li>No temporary arrangement done for chlorination system</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter No. 2007 dated 27.02.2023.</li> </ul>
15	Joint Sampling & Testing by NABL Laboratory	<ul style="list-style-type: none"> <li>IIT Kanpur has taken only one composite sample on 18.01.2023 &amp; 19.01.2023 and test result has been submitted by KRMPL.</li> </ul>	<ul style="list-style-type: none"> <li>IIT Kanpur has taken only one composite sample on 20.02.2023 &amp; 21.02.2023 and test result has been submitted by KRMPL.</li> </ul>	<ul style="list-style-type: none"> <li>Test Report has been attached separately.</li> </ul>
16	KPI adherence report	Weekly IIT test reports for the month of January 2023 is not submitted	<ul style="list-style-type: none"> <li>Weekly IIT test reports for the month of February is not been submitted.</li> </ul>	<ul style="list-style-type: none"> <li>Pending from KRMPL's end</li> </ul>

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

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

SN	Inspection date	Description of Inspection details	Compliances reports status
1.	21.09.2021	Inspection report issued on 30.09.2021	Not complied by KRMPL
2.	30.09.2021	Inspection report issued on 01.10.2021	Not complied by KRMPL
3.	08.10.2021,	Inspection report issued on 30.10.2021	Not complied by KRMPL
4.	25.10.2021	Inspection report issued on 30.10.2021	Not complied by KRMPL
5.	28.10.2021	Inspection report issued on 30.10.2021	Not complied by KRMPL
6.	27.11.2021	Inspection report issued on 30.11.2021(enclosed)	Not complied by KRMPL
7.	ED (Technical) Mr. D.P Mathuria inspected on 08.10.2021 and ED(Project) Mr. Ashok Kumar Singh, IAS inspected on 10.10.2021.MOM of Both inspection has been issued by STC Letter No.1215 dated 27.10.2021		
8.	Ms. Nidhi Dwivedi, Project Officer (Technical), NMCG, Mr. Bhaskar Ray, TL and Mr. Dinesh Chamoli, O&M Expert, PMC inspected site on 28.10.2021.		
9.	15.12.2021	Inspection report issued on 27.12.2021for 43 MLD STP IPS facilities Jajmau	Not complied by KRMPL
10.	21.12.2021		
11.	10.12.2021	Inspection report issued on 27.12.2021for 43 MLD STP Jajmau Phase II	Not complied by KRMPL
12.	16.12.2021		
13.	20.12.2021		
14.	21.12.2021		
15.	18.01.2022	Inspection report issued on 31.01.2022 for 43 MLD STP Jajmau Phase II.	Not complied by KRMPL
16.	15.02.2022	Inspection report issued on 25.02.2022and 28.02.2022	Not complied by KRMPL
17.	16.02.2022		
18.	25.02.2022		
19.	15.03.2022	Inspection report issued on 26.03.2022and 02.04.2022	Not complied by KRMPL
20.	30.03.2022		
21.	07.04.2022	Inspection report issued on 07.04.2022 for 43 MLD Phase-II IPSs facilities	KRMPL has submitted compliance report vide KRMPL letter no. UPJN/KRMPL/Kanpur/2022-23/O&M/009 dated 13.06.2022 received our office
22.	12.04.2022	ED(T) Shri D.P Mathuria and Shri Rajat Kumar Gupta(SWMS) visited at Jajmau site on 12.04.2022	
23.	19.04.2022	Inspection report issued on 20.04.2022 for 43 MLD STP Jajmau Phase II	on 17.06.2022
24.	05.05.2022	Inspection report issued on 20.05.2022for 130 MLD & 43 MLD IPSs and STP	Not complied by KRMPL



29.1 2.20 22	Inspection report of IPSs for 43 MLD	Not complied by KRMPL	<b>Compliances reports status</b>
	STP Jajmau facilities phase II,		
	inspection report issued 31.12.2022		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 Jajmau facilities phase II, inspection report issued 31.08.2022	Not complied by KRMPL
32.	05.09.2022,13.09.20 22, 20.09.2022 and 23.09.2022	Inspection report of 43 MLD STP Jajmau facilities 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 Jajmau facilities 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.	10.02.2023	Inspection report of 43 MLD STP Jajmau facilities phase II, inspection report issued 27.02.2023	Not complied by KRMPL
37.	22.02.2023	Inspection Report of 43 MLD IPS facilities Phase II, inspection report issued 27.02.2023	Not complied by KRMPL

## Site photographs of 43 MLD STP Jajmau



**Over flow condition at Parmiya IPS**



**Aeration tank at 43 MLD STP Jajmau**

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

**Annexure 5.1: Inspection Report of Jajmau 43 MLD STP**

(Attached Separately)

**Annexure 5.2: Inspection Report of IPSs for Jajmau 43 MLD STP**

(Attached Separately)

**Annexure 5.3: Monthly Activity Report of Jajmau 43 MLD STP**

(Attached Separately)

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

(Attached Separately)

**210 MLD BINGAWAN STP**
**ISSUES & STATUS OF PENDING COMPLIANCE OF BINGAWAN STP:**

SN	Equipment	Issues in Jan 2023	Status in Feb 2023	Compliance / Remarks
1	COD Nalla	<ul style="list-style-type: none"> <li>Sewage overflow at COD Nalla tapping point is being observed.</li> </ul>	<ul style="list-style-type: none"> <li>Sewage overflow at COD Nalla tapping point is being observed.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter no 2009 dated 27.02.2023</li> </ul>
2	Mechanical Coarse Screens	<ul style="list-style-type: none"> <li>Mechanical coarse screen no. 1 non-operational.</li> </ul>	<ul style="list-style-type: none"> <li>Mechanical coarse screen no. 1 not rectified.</li> <li>Mechanical coarse screen no. 2 is operational but not serving its purpose.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter no 2009 dated 27.02.2023</li> </ul>
3	Main Pumping Station	5 nos. pumps were not working in the MPS.	<ul style="list-style-type: none"> <li>6 nos. pumps were not working in the MPS.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter no 2009 dated 27.02.2023</li> </ul>
4	Inlet Chamber	<ul style="list-style-type: none"> <li>Fine mechanical screen not rectified.</li> <li>Grit classifier no. 1, 2, and 3 are not working.</li> <li>Out of 04 grit mechanism, 3 grit mechanisms were found to be non-operational. All grit mechanisms were completely filled with the sludge.</li> </ul>	<ul style="list-style-type: none"> <li>Fine mechanical screen not rectified.</li> <li>Grit classifier no. 1, 2, and 3 are not working.</li> <li>Out of 04 grit mechanism, 3 grit mechanisms were found to be non-operational.</li> <li>All grit mechanisms were completely filled with the sludge.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter no 2009 dated 27.02.2023</li> </ul>
5	Cleaning and reactivation of UASB Reactors	<ul style="list-style-type: none"> <li>Out of 16 reactors, 3 reactors are under maintenance.</li> <li>UASB reactor no. 13 has been charged.</li> </ul>	<ul style="list-style-type: none"> <li>Out of 16 reactors, 4 reactors are under maintenance.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter no 2009 dated 27.02.2023</li> </ul>
6	Aeration Lagoon & Final Polishing Unit	<ul style="list-style-type: none"> <li>3 out of 18 aerators were found to be non-operational.</li> </ul>	<ul style="list-style-type: none"> <li>2 out of 18 aerators were found to be non-operational.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter no 2009 dated 27.02.2023</li> </ul>
7	Belt Filter Press	<ul style="list-style-type: none"> <li>Poly dosing pump no. 3 not rectified. Out of 2 nos. belt wash pump set, 1 nos. wash pump was found non-operational.</li> </ul>	<ul style="list-style-type: none"> <li>Poly dosing pump no. 3 and belt wash set has not been rectified.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter no 2009 dated 27.02.2023</li> </ul>

SN	Equipment	Issues in Jan 2023	Status in Feb 2023	Compliance / Remarks
8	Chlorination System	<ul style="list-style-type: none"> <li>Chlorinator no 1 is non operational.</li> </ul>	<ul style="list-style-type: none"> <li>Chlorinator no 1 and 2 were non operational.</li> </ul>	Refer STC Letter no 2009 dated 27.02.2023
9	Sludge Disposal	<ul style="list-style-type: none"> <li>Sludge disposal was being done at the site.</li> </ul>	<ul style="list-style-type: none"> <li>Sludge disposal was being done at the site.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter no 2009 dated 27.02.2023</li> </ul>
10	Joint Sampling & Testing by NABL Laboratory	<ul style="list-style-type: none"> <li>One composite sample was taken by IIT Kanpur on 19.01.2023 and 20.01.2023, and report has been submitted.</li> </ul>	<ul style="list-style-type: none"> <li>One composite sample was taken by IIT Kanpur on 15.02.2023 and 16.02.2023, and report has been submitted.</li> </ul>	<ul style="list-style-type: none"> <li>Test Report has been attached separately.</li> </ul>
11	Gas Holder	<ul style="list-style-type: none"> <li>Gas holder no.1 is non-operational.</li> </ul>	<ul style="list-style-type: none"> <li>Gas holder no.1 is non-operational.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter no 2009 dated 27.02.2023</li> </ul>
12	Gas Scrubber Unit	<ul style="list-style-type: none"> <li>Pressure gauge is not installed.</li> </ul>	<ul style="list-style-type: none"> <li>Pressure gauge is not installed.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter no 2009 dated 27.02.2023</li> </ul>
13	House Keeping	<ul style="list-style-type: none"> <li>Very poor housekeeping</li> </ul>	<ul style="list-style-type: none"> <li>Very poor housekeeping</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter no 2009 dated 27.02.2023</li> </ul>
14	Outdoor Lights	<ul style="list-style-type: none"> <li>Some of the outdoor lights need to be replaced.</li> </ul>	<ul style="list-style-type: none"> <li>Some of the outdoor lights need to be replaced.</li> </ul>	<ul style="list-style-type: none"> <li>Refer STC Letter no 2009 dated 27.02.2023</li> </ul>
15	Schedule Maintenance Works for 1 <sup>st</sup> & 2 <sup>nd</sup> year	<ul style="list-style-type: none"> <li>Not started</li> </ul>	<ul style="list-style-type: none"> <li>Not started</li> </ul>	<ul style="list-style-type: none"> <li>Pending from KRMPL's end</li> </ul>
16	KPI adherence report	<ul style="list-style-type: none"> <li>Weekly IIT results for January month is not submitted.</li> </ul>	<ul style="list-style-type: none"> <li>Weekly IIT results for February month is not submitted.</li> </ul>	<ul style="list-style-type: none"> <li>Pending from KRMPL's end</li> </ul>

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

**I. Compliance of Inspection Reports**

1. 12.11.2020- Inspection report issued on 21.11.2020
2. 02.01.2021- Inspection report issued on 19.01.2021
3. 02.02.2021- Inspection report issued on 04.02.2021
4. 15.06.2021- Inspection report issued on 23.06.2021
5. 12.07.2021- Inspection report issued on 20.07.2021
6. 06.08.2021- Inspection report issued on  
10.08.2021 17. 18.08.2021
8. 25.08.2021
9. 26.08.2021 Inspection report issued on  
31.08.2021 10. 31.08.2021
11. 10.10.2021
12. 26.10.2021 Inspection report issued on  
31.10.2021 13. 29.10.2021
7. 14. 16.12.2021 - STP Inspection report issued on 24.12.2021 15. 22.01.2022
8. 16. 25.01.2022 STP Inspection report issued on 31.01.2022 17. 27.01.2022
18. 20.01.2022- IPS Inspection report issued on 31.01.2022.
19. 18.02.2022 STP Inspection report issued on 28.02.2022 20. 22.02.2022
21. 26.02.2022- IPS Inspection report issued on 28.02.2022.
22. 25.03.2022- STP Inspection report issued on 31.03.2022.
23. 24.06.2022- IPS Inspection report issued on 27.06.2022.
24. 30.06.2022- STP Inspection report issued on 01.07.2022.
25. 26.07.2022- STP Inspection report issued on 29.07.2022.
26. 29.07.2022- IPS Inspection report issued on 04.08.2022.
27. 25.08.2022- STP Inspection report issued on 29.08.2022
28. 25.08.2022 -IPS Inspection report issued on 29.08.2022
29. 31.08.2022- STP Inspection report issued on 21.09.2022
30. 27.09.2022- IPS Inspection report issued on 28.09.2022
31. 03.10.2022- STP Inspection report issued on 10.10.2022
32. 14.11.2022- STP Inspection report issued on 15.11.2022
33. 15.12.2022- STP Inspection report issued on 26.12.2022
34. 28.12.2022- IPS Inspection report issued on 29.12.2022
35. 04.01.2023 & 16.01.2023- STP Inspection report issued on 03.02.2023
36. 28.01.2023- IPS Inspection report issued on 03.02.2023
37. 03.02.2023 & 16.02.2023- STP Inspection report issued on 27.02.2023
38. 10.02.2023- IPS Inspection report issued on 27.02.2023

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**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 Feb. 2023 and Monthly Activity Report along with IIT Kanpur Lab Reports are attached separately with this MPR as:

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

Attached separately

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

Attached separately

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

Attached separately

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

Attached separately



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

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

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

SN	Equipment	Issues in Jan 2023	Status in Feb 2023	Compliance / Remarks
1	Mechanical Screens (Coarse & Fine)	<ul style="list-style-type: none"> <li>Mechanical coarse screen No.1 was found non- operational.</li> <li>Auto system to be installed.</li> </ul>	<ul style="list-style-type: none"> <li>Mechanical coarse screen No.1 and 2 was found operational.</li> <li>Auto system to be installed.</li> </ul>	Refer STC Letter No. 1982 dated 10.02.2023
2	Main Pumping Station	Out of 5 pumps 2 pumps were non-operational.	<ul style="list-style-type: none"> <li>Out of 5 pumps 1 pump was non-operational.</li> </ul>	Refer STC Letter No. 1982 dated 10.02.2023
3	Inlet Chamber	<ul style="list-style-type: none"> <li>Level sensors are not provided yet for mechanical fine screen atomization.</li> </ul>	<ul style="list-style-type: none"> <li>Level sensors not provided yet.</li> </ul>	Refer STC Letter No. 1982 dated 10.02.2023
4	Return Sludge Pump House	<ul style="list-style-type: none"> <li>Return sludge pump no. 3 is not rectified yet.</li> </ul>	<ul style="list-style-type: none"> <li>Return sludge pump no. 3 is finally rectified.</li> </ul>	Refer STC Letter No. 1982 dated 10.02.2023
5	Chlorination System	<ul style="list-style-type: none"> <li>Chlorinator No. 1 is non-operational. Vacuum gauge for both chlorinators (No. 1&amp; 2) is not working since 24.11.2022.</li> </ul>	<ul style="list-style-type: none"> <li>Both chlorinators are operational.</li> <li>Vacuum gauge for both chlorinators (No. 1&amp; 2) is not working since 24.11.2022.</li> </ul>	Refer STC Letter No. 1982 dated 10.02.2023
6	Sludge Thickener	<ul style="list-style-type: none"> <li>Operational</li> </ul>	<ul style="list-style-type: none"> <li>Operational</li> </ul>	
7	Gas Generator	<ul style="list-style-type: none"> <li>2 out of 3 nos. of Gas Generators are in working condition and one gas generator is non-operational</li> </ul>	<ul style="list-style-type: none"> <li>Not rectified.</li> </ul>	Refer STC Letter No. 1982 dated 10.02.2023
8	Sludge Digester	<ul style="list-style-type: none"> <li>Operational</li> </ul>	<ul style="list-style-type: none"> <li>Operational</li> </ul>	
9	Joint Sampling & Testing by NABL Laboratory	<ul style="list-style-type: none"> <li>One composite sample was taken by IIT Kanpur in January 2023 i.e. on 23.01.2023 to 24.01.2023 and the</li> </ul>	<ul style="list-style-type: none"> <li>One composite sample was taken by IIT Kanpur in February 2023 i.e. on 17.02.2023 to 18.02.2023 and the</li> </ul>	Test report has been attached separately.

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

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

**ii. Compliance of Inspection Reports.**

- 20.10.2021- IPS Inspection report issued on 25.10.2021
- 18.11.2021- IPS Inspection report issued on 27.11.2021
- 14.12.2021- IPS Inspection report issued on 24.12.2021
- 21.12.2021 STP Inspection report issued on 30.12.2021
- 22.12.2021
- 11.01.2022- STP Inspection report issued on 17.01.2022.
- 20.01.2022- IPS Inspection report issued on 31.01.2022.
- 08.02.2022- STP Inspection report issued on 10.02.2022.
- 26.02.2022- IPS Inspection report issued on 28.02.2022.
- 07.03.2022- STP Inspection report issued on 08.03.2022.
- 31.03.2022- IPS Inspection report issued on 02.04.2022.
- 27.04.2022- IPS Inspection report issued on 30.04.2022.
- 08.06.2022- STP Inspection report issued on 15.06.2022.
- 24.06.2022- IPS Inspection report issued on 27.06.2022.
- 12.07.2022- STP Inspection report issued on 18.07.2022.
- 29.07.2022- IPS Inspection report issued on 03.08.2022.
- 17.08.2022 -STP Inspection report issued on 19.08.2022
- 25.08.2022-IPS inspection report issued on 29.08.2022
- 20.09.2022-STP inspection report issued on 21.09.2022
- 30.09.2022- IPS inspection report issued on 30.09.2022
- 15.10.2022- STP inspection report issued on 19.10.2022
- 15.10.2022- IPS inspection report issued on 19.10.2022
- 24.11.2022- STP inspection report issued on 28.11.2022
- 24.11.2022- IPS inspection report issued on 28.11.2022
- 27.12.2022- STP inspection report issued on 29.12.2022

26. 28.12.2022- IPS inspection report issued on 29.12.2022

27. 09.02.2023- STP inspection report issued on 10.02.2023

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

**Annexure 7.1: Inspection Report of 42 MLD STP Sajari**

Attached separately

**Annexure 7.2: Monthly Activity Report of 42 MLD STP Sajari**

Attached separately

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

Attached separately

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

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

## 9. STATUS OF BEP & OTHER DETAILS

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

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

## ANNEXURE

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

(Attached Separately)

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



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

(Attached Separately)

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

(Attached Separately)

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### **Annexure 3: Milestone Progress of 05 MLD STP Shuklaganj**

(Attached Separately)

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

(Attached Separately)

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**Annexure 4.2: Monthly Activity Report for 130 MLD STP Jajmau**  
(Attached Separately)

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**Annexure 4.3: Inspection Report for 130 MLD STP Jajmau**  
(Attached Separately)

**Annexure 4.4: Inspection report of IPSs for 130 MLD STP Jajmau**  
(Attached Separately)



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## **Annexure 4.5: Milestone Progress Report Jajmau 130 MLD**

(Attached Separately)

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## **Annexure 5.1: Inspection Report of Jajmau 43 MLD STP**

(Attached Separately)

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## **Annexure 5.2: Inspection Report of IPSs for Jajmau 43 MLD STP**

(Attached Separately)

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### **Annexure 5.3: Monthly Activity Report of Jajmau 43 MLD STP**

(Attached Separately)

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

(Attached Separately)

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

(Attached Separately)

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### **Annexure 6.3: Inspection Report of IPSs for Bingawan**

(Attached Separately)



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## **Annexure 7.1: Inspection Report of 42 MLD STP Sajari**

(Attached Separately)

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## **Annexure 7.2: Monthly Activity Report of 42 MLD STP Sajari**

(Attached Separately)

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**Annexure 8: IIT Lab report for Feb 2023**

(Attached Separately)

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

(Attached Separately)

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

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
01.02.2023	Completion of 5th Milestone for 05 MLD Shuklaganj STP	25.01.2023 K-2789	-	-	20	-	-	Anil Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1	-	-	-	Under Review
02.02.2023	Observation on Monthly Activity Report of 210 MLD STP Bingawan facilities for the month of Dec-2022	12.01.2023 K-271 (Hard copy received on 16.01.2023)	-	-	20	-	-	Anil Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1	-	-	-	Under Review
03.02.2023	Observation on Monthly Activity Report of 210 MLD STP Bingawan facilities for the month of Dec-2022	12.01.2023 K-271 (Hard copy received on 16.01.2023)	03.02.2023 S-1970	18	20	-	-	Anil Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1	-	-	-	PE submitted their observation and requested UPJN to direct concessionaire to submit compliance report
03.02.2023	Inspection Report of 210 MLD STP Bingawan for Inspection held on 04.01.2023 & 16.01.2023.	-	03.02.2023 S-1969	-	20	-	-	Anil Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1	-	-	-	PE submitted their observation 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)
03.02.2023	Inspection report of associated works of 210 MLD Bingawan STP (IPS Rakhimandi, Munshipurwa and Halwakanda) for the inspection done on 28.01.2023	-	03.02.2023 S-1971	-	20	-	-	Anil Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1	-	-	-	PE submitted their observation and requested UPJN to direct concessionaire to submit compliance report.
03.02.2023	Balance Works Status for 30 MLD STP at Pankha as of 02 Feb 2023	-	03.02.2023 S-1973A	-	20	-	-	Anil Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1	-	-	-	PE submitted their observation and requested UPJN to direct concessionaire to submit compliance report.
03.02.2023	Balance Works Status for 15MLD STP at Unnao as of 02 Feb 2023	-	03.02.2023 S-1972	-	20	-	-	Anil Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1	-	-	-	PE submitted their observation and requested UPJN to direct concessionaire to submit compliance report.
03.02.2023	Balance Works Status for 130 MLD STP at Jajmau as of 01 Feb 2023	-	03.02.2023 S-1974	-	20	-	-	Anil Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1	-	-	-	PE submitted their observation and requested UPJN to direct concessionaire to submit compliance report.
03.02.2023	Completion of 5th Milestone for 05 MLD Shuklaganj STP	25.01.2023 K-2789	03.02.2023 S-1975	-	20	-	-	Anil Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1	-	-	-	PE submitted their observation 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)
04.02.2023	Submission of DO Analyzer documents for 130 MLD at Jajmau	14.01.2023 K-2784	-	-	20	-	-	Anil Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1	-	-	-	Under Review
05.02.2023	<b>Sunday</b>												
06.02.2023	Submission of DO Analyzer documents for 130 MLD at Jajmau	14.01.2023 K-2784			20	-	-	Anil Priyesh Ajay Rahul Divya Karamveer	1+1+1+1+1+1	-	-	-	Under Review
07.02.2023	Inspection report for 30 MLD Pankha facility, inspection done on 7.2.23.	-	07.02.2023 S-1977	-	20	-	-	Anil Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
07.02.2023	Submission of DO Analyzer documents for 130 MLD at Jajmau	14.01.2023 K-2784	07.02.2023 S-1976	-	20	-	-	Anil Prasoon Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
08.02.2023	Observation on monthly activity report of 42 MLD STP Sajari facilities for the month of Jan-23	08.02.2023 K-253	-	-	20	-	-	Anil Prasoon Preetam Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1+1	-	-	-	Under Review
09.02.2023	STC observation on monthly activity report for the month of January 2023 of 43 MLD STP Jajmau facilities phase-II	09.02.2023 K-254	-	-	20	-	-	Anil Prasoon Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1	-	-	-	Under Review
10.02.2023	Submission of DO analyzer and conductivity type LS & Float operated LS document for 130 MLD STP at Jajmau	-	10.02.2023 S-1981	-	20	-	-	Anil Prasoon Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
10.02.2023	Inspection report of 42 MLD Sajari facilities, Inspection done on 9.2.23	-	10.02.2023 S-1982	-	20	-	-	Anil Prasoon Priyesh Ajay Rahul Divya Karamveer Indra Dev	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)
10.02.2023	Rejected Drg: letter 2755 submission of Design calculation civil assignment drawing and structural drawing for DG set foundation for 130 MLD STP Jajmau facilities	-	10.01.2023 S-1978	-	20	-	-	Anil Prasoon Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
10.02.2023	Recommendation for your approval of structural drawing for flare structural foundation drawing for 130 MLD STP Jajmau facilities	-	10.02.2023 S-1979	-	20	-	-	Anil Prasoon Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
10.02.2023	Observation on monthly activity report of 42 MLD STP Sajari facilities for the month of Jan-23	08.02.2023 K-253	10.02.2023 S-1983	2	20	-	-	Anil Prasoon Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
10.02.2023	Regarding pending RFI (civil) for Raw Sewage Sump and pump house, inlet chamber and screen chamber, Meter room cum staff quarter, Guard room, Transformer and DG set area, at IPS located at Sundar nagar and ICI Nallah.	KRMPL RFI dated 04.02.2023	10.02.2023 S-1984	6	20	-	-	Anil Prasoon Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1=1	-	-	-	PE submitted their observations for information and necessary actions.

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
10.02.2023	Regarding submission of micro work plan of E&M work for 130 MLD STP Jajmau.	-	10.02.2023 S-1985	-	20	-	-	Anil Prasoon Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
10.02.2023	STC observation on monthly activity report for the month of january 2023 of 43 MLD STP jajmau facilities phase-II	09.02.2023 K-254	10.02.2023 S-1986	1	20	-	-	Anil Prasoon Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
10.02.2023	5th Milestone completion certificate for the 5MLD Shuklaganj STP	08.02.2023 K-2812	10.02.2023 S-1980	2	20	-	-	Anil Prasoon Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
11.02.2023	Second Saturday												
12.02.2023	Sunday												

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
13.02.2023	Inspection report of 30 MLD Pankha STP, Inspection done on 7/1/23.	-	13.02.2023 S-1987	-	20	-	-	Anil Satish Prasoon Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
13.02.2023	STC Observation on monthly activity report for the month of January 2023 of 130 MLD STP Jajmau facilities phase-1	09.02.2023 K-255	13.02.2023 S-1988	4	20	-	-	Anil Satish Prasoon Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
14.02.2023	Submission of MPR for the month of January 23	-	14.02.2023 S-1989	-	20	-	-	Anil Satish Prasoon Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
14.02.2023	05 MLD STP Shuklaganj site inspection report of dated 11th Feb	-	14.02.2023 S-1990	-	20	-	-	Anil Satish Prasoon Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.

Date	Name of Activity#	Date of Receipt	Date of Approval (Vet/ Comment)	No. of day taken	Time as per contract (days)	Delay if any (No. of days) [7=6-5]	Reason for delay*	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concessionaire	Reason for delay	Step taken by PE to avoid such delays	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
14.02.2023	Inspection Report of 130 MLD Jajmau phase I STP, Inspection done on 13.2.23	-	14.02.2023 S-1991	-	20	-	-	Anil Satish Prasoon Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
15.02.2023	Observation on monthly activity report of 210 MLD STP Bingawan facilities	15.02.2023 K-261	15.02.2023 S-1992	1	20	-	-	Anil Satish Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
16.02.2023	Pending supply of Mechanical items for 130 MLD Jajmau STP	-	16.02.2023 S-1993	-	20	-	-	Anil Satish Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
17.02.2023	STC comments on compliance given by KRMPL for STC observation on MAR of 42 MLD Sajari for the month of Jan-23	15.02.2023 K-270	-	-	20	-	-	Anil Satish Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1+1	-	-	-	Under Review

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
18.02.2023	Maha Shiv Ratri												
19.02.2023	Sunday												
20.02.2023	STC comments on compliance given by KRMPL for STC observation on MAR of 42 MLD Sajari for the month of Jan-23	15.02.2023 K-270	20.02.2023 S-1994	1	20	-	-	Anil Sunil Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
21.02.2023	Final Commissioning & Electrical testing of equipments at 15 MLD STP Unnao	KRMPL RFI issued on 17.02.2023	21.02.2023 S-1995	4	20	-	-	Anil Sunil Satish Prasoon Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions
22.02.2023	Inspection report for 15 MLD STP Unnao inspection done on 20.02.2023	-	22.02.2023 S-1996	-	20	-	-	Anil Satish Prasoon Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions for the information and record.

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
22.02.2023	Recommendation for approval of Pump documents for Parmat pump House no.03 at 130 MLD STP Jajmau facilities	08.02.2023 K-2807	22.02.2023 S-1997	14	20	-	-	Anil Prasoon Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions
22.03.2023	Regarding change in dimension of new construction work of CCT at 130 MLD STP Jajmau	-	22.02.2023 S-1998	-	20	-	-	Anil Prasoon Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions
22.03.2023	Regarding for not clear drawing of Bypass Arrangement at 210 MLD STP Bingawan	17.02.2023 K-258	22.03.2023 S-1999	5	20	-	-	Anil Prasoon Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions
23.02.2023	Observation on Annual Maintenance Plan of Bingawan year 03 (10.08.2022 to 09.08.2023)	20.01.2023 K-231	23.02.2023 S-2000	3	20	-	-	Anil Prasoon Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
23.02.2023	Submission of compliance regarding operation & control philosophy & interlocking P&ID for 130 MLD STP at Jajmau	-	23.02.2023 S-2001	-	20	-	-	Anil Prasoon Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions
23.02.2023	Submission of compliance regarding operation & control philosophy & interlocking P&ID for 15 MLD STP Unnao & 5 MLD STP Shuklaganj	-	23.02.2023 S-2002	-	20	-	-	Anil Prasoon Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions
23.02.2023	Submission of " Pressure Gauge" documents for 130 MLD at Jajmau	-	23.02.2023 S-2003	-	20	-	-	Anil Prasoon Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions
23.02.2023	Submission data sheet & QAP of DULT,ULT,PT and RLT document for 130 MLD STP at Jajmau	-	23.02.2023 S-2004	-	20	-	-	Anil Prasoon Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
24.02.2023	Regarding Time Extension for 130 MLD STP Jajmau facility	-	24.02.2023 Draft sent through email to UPJN	-	20	-	-	Anil Prasoon Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions
25.02.2023	Submission of connecting channel drawing from PTU to SBR for 05 MLD STP Shuklaganj	21.02.2023 K-2820	-	-	20	-	-	Anil Prasoon Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1+1	-	-	-	Under review
26.02.2023	<b>Sunday</b>												
27.02.2023	Inspection Report of 130 MLD IPS facilities Phase I for inspection done on 22.02.2023	-	27.02.2023 S-2005	-	20	-	-	Anil Sunil Prasoon Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions
27.02.2023	Inspection Report of 43 MLD IPS facilities Phase II for inspection done on 22.02.2023	-	27.02.2023 S-2006	-	20	-	-	Anil Sunil Prasoon Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.



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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
27.02.2023	Inspection Report of 43 MLD STP Jajmau facilities, Inspection done on 10.02.2023	-	27.02.2023 S-2007	-	20	-	-	Anil Sunil Prasoon Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
27.02.2023	Inspection report of associated works of 210 MLD Bingawan STP (IPS Rakhimandi, Munshipurwa and Halwakanda) for the inspection done on 10.02.2023	-	27.02.2023 S-2008	-	20	-	-	Anil Sunil Prasoon Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
27.02.2023	Inspection Report of 210 MLD STP Bingawan for Inspection held on 03.02.2023 and 16.02.2023	-	27.02.2023 S-2009	-	20	-	-	Anil Sunil Prasoon Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
28.02.2023	Observation on Submission of Operation and maintenance Manual for 30 MLD STP Pankha	-	28.02.2023 S-2010	-	20	-	-	Anil Sunil Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
28.02.2023	Regarding Installation of centrifuge feed pumps -2 nos, dosing pumps 2nos, supretentant sump agitator 1no, sludge sump agitator 1 no, sludge sump agitator 1no, poly dosing sump agitator, fine bar mechanical screen -2 nos at PTU manual screen -1 no at PTU, Air blower-3 nos at 15 MLD STP Unnao Facilities	-	28.02.2023 S-2011	-	20	-	-	Anil Sunil Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
28.02.2023	Inspection Report of 130 MLD STP Jajmau facilities ,Inspection done on 01.02.2023, 04.02.2023, 13.02.2023 and 15.02.2023	-	28.02.2023 S-2012	-	20	-	-	Anil Sunil Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
28.02.2023	Request letter for Time Extension for 30 MLD STP Pankha	10.02.2023 K-2815	28.02.2023 S-2013	18	20	-	-	Anil Sunil Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
28.02.2023	Request letter for Time Extension for 130 MLD STP Jajmau Facilities	10.02.2023 K-2814	28.02.2023 S-2014	18	20	-	-	Anil Sunil Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
28.02.2023	Regarding for Leakage in civil water retaining structure for 30 MLD STP Pankha.	-	28.02.2023 S-2015	-	20	-	-	Anil Sunil Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.
28.02.2023	Regarding missing Data for submission of connecting channel drawing from PTU to SBR for 05 MLD STP Shuklaganj	21.02.2023 K-2820	28.02.2023 S-2016	7	20	-	-	Anil Sunil Priyesh Ajay Rahul Divya Karamveer Indra Dev	1+1+1+1+1+1+1	-	-	-	PE submitted their observations for information and necessary actions.

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

SN	Name	Designation	Total Man-days	Input
1.	Mr. Anil Kumar Seth	Team Leader cum waste water expert	28	Timesheet attached
2.	Mr. Preetam Walunjkar	Senior Structure Engineer	01	Timesheet attached
3.	Mr. Satish Kamaraju	Senior Process Engineer	10	Timesheet attached
4.	Mr. Sunil Basutkar	Senior Mechanical Engineer	04	Timesheet attached
5.	Mr. Prasoon Bhardwaj	Instrumentation Engineer	15	Timesheet attached