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

SEPTEMBER - 20



Executing Agency

Uttar Pradesh Jal Nigam Benajhabar Road, Kanpur

Uttar Pradesh - 208002



Funding Agency

National Mission for Clean Ganga MoWR, River Development & Ganga Rejuvenation, New Delhi



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ABBREVIATIONS

ASP Activated Sludge Process
BEP Basic Engineering Package
BOD Biochemical Oxygen Demand

CETP Common Effluent Treatment Plant

COD Chemical Oxygen Demand
COD Commercial Operation Date

CPs Condition Precedent
CTE Consent To Establish
CTO Consent to Operate
DFGs Dual Fuel Generators
DPR Detailed Project Report

ESHS Environment, Social, Health And Safety

GOI Government of India
HAM Hybrid Annuity Model
I&D Interception & Diversion

IPS Intermediate Pumping Station
KPIs Key Performance Indicators

KRMPL Kanpur River Management Private Limited

LOA Letter of Award

MOM Minutes of Meeting

MPS Main Pumping Station

O&M Operation and Maintenance
PLC Programmable Logic Control
PMC Project Management Consultant

PDD Proposal Due Date

PDMC Project Development and Monitoring Consultant

PPP Public Private Partnership
QAP Quality Assurance Plan
RFP Request for Proposal
RTU Remote Terminal Unit

RTOLMS Real Time Online Monitoring System

TOR Terms of Reference

SBR Sequential Batch Reactors
STP Sewage Treatment Plant

TEPH Treated Effluent Pump House

UASB Up-Flow Anaerobic Sludge Blanket Reactor



MONTHLY PROGRESS REPORT – HAM KANPUR

1 INTRODUCTION

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

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

Rapidly increasing population, rising standards of living and exponential growth of industrialisation and urbanisation 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 programme and the Ganga 2016 order in the State of Uttar Pradesh, the Jal Nigam, in association with NMCG has decided to undertake the development of:

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

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



2 HYBRID ANNUITY MODEL (HAM)

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

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

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

3 OBJECTIVES

To achieve above objectives effective development of STPs at Unnao, Shuklaganj and Pankha rehabilitation of existing STPs with O&M for 15 years in Kanpur 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.

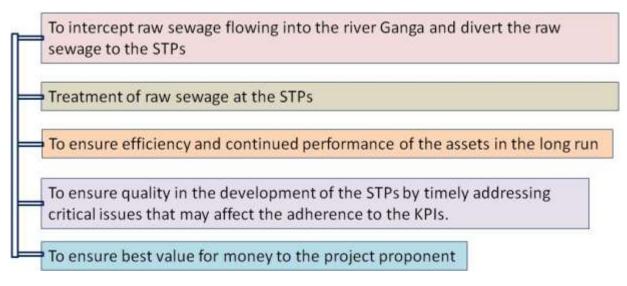


Figure 1: Objectives of NMCG and UP JAL NIGAM



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

Particulars		Description
Name of Project	:	Development of new Sewage Treatment Plants and O&M for 15 years, Rehabilitation of existing Sewage Treatment Infrastructure and O&M for 15 years in Kanpur under One City One Operator concept through Hybrid Annuity based PPP mode. (HAM – Kanpur)
Client	:	National Mission for Clean Ganga (NMCG), New Delhi and UP Jal Nigam
Execution Agency	:	Uttar Pradesh Jal Nigam (UPJN)
Consultant	:	Shah Technical Consultants (P) Ltd. as 'Project Engineer'
Agreement &LOA	:	STC Agreement dated 12.04.2019 & LOA: Pr-12012/41/2018-PPP/NMCG dated 04.02.2019
Concessionaire	:	Kanpur River Management Private Limited (KRMPL) an SPV of Shapoorji Pallonji& Company Private Limited, Mumbai
Concessionaire's Agreement	:	14/GM/2018-19dated 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	:	24 Months from effective date
(as per contract)		(21 months construction + 3 months trial run)
O&M period	:	15 years after last Commercial Operation Date (COD)
Description of Work	:	 Construction of three new STPs (SBR) at different locations (30 MLD at Pankha, 15 MLD at Unnao and 5 MLD STP at Shuklaganj) and related infrastructure with 15 years of O&M Rehabilitation of 130 MLD (Phase-I) STP at Jajmau with construction of 200 MLD TEPS and 173 MLD CCT at Jajmau with O&M for 15 years; O&M of 43 MLD (Phase-II) Jajmau facilities, O&M of 210 MLD Bingawan facilities and O&M of 42 MLD Sajari facilities for 15 years;



5 PROJECT WISE DETAILS OF COMPONENTS UNDER HAM KANPUR PROJECT

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

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

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

5.1 PANKHA FACILITIES

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

Table 5.1: Pankha Facilities

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



		900 mm-ф	2.170km
		1200 mm-ф	3.634km
		1600 mm-ф	1.596km
		2000 mm-ф	1.948km
Milestones	Date		Amount in Rs.
1 st Milestone	12-Oct-2019 to 25-Apr-20		1248,39,750
2 nd Milestone	26-Apr-20 to 10-Jul-20		1248,39,750
3 rd Milestone	11-Jul-20 to 24-Sep-20		1248,39,750
4 th Milestone	25-Sep-20 to 09-Dec-20		1248,39,750
5 th Milestone	10-Dec-20 to 13-Feb-2021		1248,39,750
6 th Milestone	14-Feb-2021 to 21-Apr-2021		1248,39,750
7 th Milestone	22-Apr-2021 to 22-Jun-2021		1248,39,750
8 th Milestone	23-Jun-2021 to 25-Aug-2021		1248,39,750
	1 st Milestone 2 nd Milestone 3 rd Milestone 4 th Milestone 5 th Milestone 6 th Milestone 7 th Milestone	1st Milestone12-Oct-2019 to 25-Apr-202nd Milestone26-Apr-20 to 10-Jul-203rd Milestone11-Jul-20 to 24-Sep-204th Milestone25-Sep-20 to 09-Dec-205th Milestone10-Dec-20 to 13-Feb-20216th Milestone14-Feb-2021 to 21-Apr-20217th Milestone22-Apr-2021 to 22-Jun-2021	1200 mm-ф 1600 mm-ф 2000

5.2 UNNAO FACILITIES

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

Table 5.2: Unnao Facilities

SN	STP Facilities				
	Date of Start- Effe	ctive Date (11.10.2019)	Capacity/	No. of units/length	
	Scope of Work- Ne	ew Construction and O&M	dia. /size		
1.1	STP		15 MLD	1	
1.2	Sump cum Pump h	ouse (MPS)	40 MLD	1	
1.3	Trunk Sewer		1200mm ф	3.2Km	
1.4	I&D works (Nala ta	pping)	40 MLD	1	
1.5	Trash screen		7m-1.7m x 0.8m	1	
1.6	Grit chamber		12m-4m x 1m	2	
1.7	Collection chamber		3.4m-6.2m x 3m	1	
1.8	Rising main (MPS to STP)		750mm ф	100m	
1.9	Rising main (bypass)		750mm ф	100m	
1.10	Effluent distribution chamber		-	1	
1.11	Effluent gravity c point)	hannel (STP to discharge	1.5m x 1.0m	300m	
1.12	Effluent disposal d	rains	-	500m	
1.13	Milestones Date			Amount in Rs.	
	1 st Milestone	12-Oct-2019 to 24-Feb-20)	478,36,250	
	2 nd Milestone	25-Feb-20 to 15-May-20		478,36,250	
	3 rd Milestone	16-May-20to 30-Jul-20		478,36,250	



4 th Milestone	30-Jul-20to 14-Oct-20	478,36,250
5 th Milestone	15-Oct-20to 24-Dec-20	478,36,250
6 th Milestone	10-Dec-20 to 01-Mar-2021	478,36,250
7 th Milestone	02-Mar-2021 to 05-May-2021	478,36,250
8 th Milestone	06-May-2021to 10-Jul-2021	478,36,250

5.3 SHUKLAGANJ STP FACILITIES

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

Table 5.3: Shuklaganj Facilities*

SN	STP Facilities	Capacity/dia.	No. of
	Date of Start- Effective Date (11.10.2019)	/size	units/length
	Scope of Work- New Construction and O&M		
1.1	STP	5 MLD*	1
1.2	Sump cum Pump house (MPS)	20 MLD	1
1.3	Connecting sewer	-	1
1.4	I&D works (Nala tapping)	-	1
1.5	Collection chamber	-	1
1.6	Rising main (MPS to STP)	500mm φ	50m
1.7	Rising main (bypass)	500mm φ	50m
1.8	Retaining wall		1
1.9	Effluent channel (STP to discharge point)	1.5m x1m	100m
1.10	Milestones	To be submitted*	

^{*}CTE for new land has been received in July 20.Geotech survey is in progress

5.4 JAJMAU (PHASE I) FACILITIES

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

Table 5.4: Jajmau Facilities

SN	STP Facilities		
Α	Phase-I	Capacity/dia.	No. of
	Date of Start- Effective Date (11.10.2019)	/size	units/length
	Scope of Work- Renovation and O&M		
1.1	STP 1 on ASP technology with power Generation	130 MLD	1
1.2	Sump cum Pump house (TEPH)	200 MLD	1
1.3	ССТ	173 MLD	1
1.4	Nawabganj IPS	-	1
1.5	Parmat IPS	-	1
1.6	Baba Ghat/Muar mill IPS	-	1



1.7	GuptarGhat IPS	-	1
1.8	Jajmau CSPS	-	1

5.5 JAJMAU PHASE II STP FACILITY

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

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

5.6 BINGAWAN FACILITIES

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

Table 5.5: Bingawan Facilities

SN	STP Facilities Capacity		No. of
	Schedule Handing Over Date- 01.04.2019	/dia. - /size	units/length
	Scope of Work- Renovation and O&M for 15 years	/ 3126	
1.1	STP on UASB Technology with power generation	210 MLD	1
1.2	Installation of online monitoring system (RTOLMS)		L.S.
1.3	Bingawan MPS	200 MLD	1
1.4	Rakhimandi IPS	100 MLD	1
1.5	Halwakhanda IPS	20 MLD	1
1.6	Munshipurwa IPS	67 MLD	1
1.7	ShisamauNala (tapping)	8MLD	1

5.7 SAJARI FACILITIES

Project wise component detail of Sajari is given in table 5.6

Table 5.6: Sajari Facilities

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



6 PHYSICAL PROGRESS OF WORK

As per the provision of Concessionaire Agreement, effective date of the project was to be declared before 19th April 2019. Effective date for work execution under HAM Kanpur project was declared on 11th October 2019. Hence, work related to construction / execution of new STP facilities and related infrastructure i.e. Pankha, Unnao & Shuklaganj and renovation of existing facilities i.e. Jajmau 130 MLD started after effective date.

The overall physical progress of the facilities have been taken in the same proportion as financial progress as per milestones in approved Construction Plan. Overall progress can be monitored as project works have been divided in eight milestones each having progress of 12.5%. The scheduled date of project completion is 10th October 2021 i.e. 24 months from the effective date.

6.1 MILESTONE WISE ACTIVITIES AND PROGRESS: PANKHA STP FACILITIES

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



Table 6.1: Pankha STP Facilities

SN	Description	Milestone-1 (From 26th Nov.'19 to 25th Sep'20)	Amount	Achieved	Balance	Remarks
		Physical	Financial	Physical	Financial	
	Design & Drawings of STP Sewer Laying work					
Α	Design & Drawings of STP Sewer Laying work					
i	Approved of BEP	100%	24967950	100%	0%	Completed
ii	On approval of Design & Drawings for civil & Sewerage work	100%	24967950	100%	0%	Completed
В	STP (30 MLD)					
1	SBR Basin Area					
i	Site Clearance	100%	250000	100%	0%	Completed
ii	Excavation	100%	9838400	100%	0%	Completed
iii	PCC	100%	14757600	100%	0%	Completed
iii	RCC Foundation/ Raft	40%	9838400	100%	0%	Completed
2	Chlorine Contact Tank Area					
i	Site Clearance	100%	150000	100%	0%	Completed
ii	Excavation	100%	737880	100%	0%	Completed
iii	PCC	100%	1106820	100%	0%	Completed
3	Chlorination House Area					
i	Site Clearance	100%	100000	100%	0%	Completed
ii	Excavation	100%	368940	100%	0%	Completed
iii	PCC	100.00%	553410	100%	0%	Completed
5	Sludge Thickener Area					
i	Site Clearance	100%	100000	100%	0%	Completed
ii	Excavation	100%	737880	100%	0%	Completed
iii	PCC	100%	1106820	100%	0%	Completed
9	Admin Building Area					



SN	Description	Milestone-1 (From 26th Nov.'19 to 25th Sep'20)	Amount	Achieved	Balance	Remarks
		Physical	Financial	Physical	Financial	
i	Site Clearance	100%	100000	100%	0%	Completed
ii	Excavation	100%	368940	100%	0%	Completed
iii	PCC	100%	553410	100%	0%	Completed
18	External Development					
В	Compound Wall with Gate					
i	Excavation & PCC	40%	2459600	100%	0%	Completed
ii	RCC Column Footing (220No.)	40%	2459600	100%	0%	Completed
iii	RCC Column & Beam (625 mt)	40%	2459600	100%	0%	Completed
19	MPS-2 (115 MLD)					
	Civil					
Α	Construction of Raw Sewage Sump					
I	Site Clearance	100%	150000	100%	0%	Completed
ii	Excavation	15%	517760.1	100%	0%	Completed
В	Construction of Inlet Chamber & Screen channel					
i	Site Clearance	100%	50000	100%	0%	Completed
20	ICI Nala IPS					
	CIVIL					
Α	Construction of Raw Sewage Sump					
i	Site Clearance	100%	150000	100%	0%	Completed
21	IPS-6 (Sundar Nagar- 20 MLD)-Pankha Area					
	CIVIL					
Α	Construction of Raw Sewage Sump					
i	Site Clearance	100%	150000	100%	0%	Completed



SN	Description	Milestone-1 (From 26th Nov.'19 to 25th Sep'20)	Amount	Achieved	Balance	Remarks
		Physical	Financial	Physical	Financial	
ii	Excavation	11%	168696	100%	0%	Completed
24	Sewer System Area (RCC Pipes-NP3 Types)					
i	Supply of pipes	16%	25670093.9	100%	0%	Completed
	Total Achieved		124839750	12.50%		
				100.00%		1 st milestone 100% completed



PHOTOGRAPHS OF PANKHA STP SITE



Boundary Wall work



Commissioner Visit on 24.09.20





Admin building Excavation work



Ongoing work of RCC Pipe laying



6.2 MILESTONE WISE ACTIVITIES AND PROGRESS: UNNAO STP

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

TABLE 6.2: UNNAO FACILITIES (DISTRICT UNNAO)

SN	Activity		one 1 (12.5%) on 25.09.20		Achieved I 25.09.20	Remaining	Remarks
314	Activity	Physical	Financial (Rs)	Physical	Financial (Rs)	works	Kemarks
ı	Design & Drawing & STP & Sewer Laying works	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(110)	711,010	(110)		
1	On approval of BEP	100%	191,34,500.00	100%	191,34,500.00		Completed
2	On approval of design & drawings for Civil & Sewerage works	25%	47,83,625.00	25%	47,83,625.00		Completed
II	CONSTRUCTION OF 15 MLD UNNAO STP						
i	SBR Basin Area						
1	Site Clearance	100%	5,00,000.00	100%	5,00,000.00	0%	Completed
2	Excavation wall footing	100%	22,46,137.60	100%	22,46,137.60	0%	Completed
3	PCC wall footing	100%	27,46,137.60	100%	27,46,137.60	0%	Completed
4	RCC Foundation/Raft of wall						
ii	Sludge Thickener Area						
1	Site Clearance	100%	1,50,000.00	100%	1,50,000.00	0%	Completed
2	Excavation	100%	3,64,900.80	100%	3,64,900.80	0%	Completed
3	PCC	100%	2,57,450.40	100%	2,57,450.40	0%	Completed
iii	Supernatant Sump Area						
1	Site Clearance	100%	1,00,000.00	100%	1,00,000.00	0%	Completed
2	Excavation	100%	1,14,422.40	100%	1,14,422.40	0%	Completed
3	PCC	100%	1,14,422.40	100%	1,14,422.40	0%	Completed
4	RCC Foundation wall/base slab	100%	1,28,844.80	100%	1,28,844.80	0%	Completed
iv	Chlorine Contact Tank Area						
1	Site Clearance	100%	1,50,000.00	100%	1,50,000.00	0%	Completed



		Milest	one 1 (12.5%)	P	Achieved		
SN	Activity	Due	on 25.09.20	Til	l 25.09.20	Remaining works	Remarks
		Physical	Financial (Rs)	Physical	Financial (Rs)	WOIKS	
2	Excavation	100%	4,22,112.00	100%	4,22,112.00	0%	Completed
3	PCC	100%	5,72,112.00	100%	5,72,112.00	0%	Completed
4	RCC Foundation / Raft	100%	9,15,000.00	100%	9,15,000.00	0%	
V	Air Blower Room Area						
1	Site Clearance	100%	2,50,000.00	100%	2,50,000.00	0%	Completed
2	Excavation	100%	3,43,267.20	100%	3,43,267.20	0%	Completed
3	PCC	100%	3,43,267.20	100%	3,43,267.20	0%	Completed
vi	Staff Quarter Area (G+1)						
1	Site Clearance	100%	50,000.00	100%	50,000.00	0%	Completed
2	Excavation	100%	71,000.00	100%	71,000.00	0%	Completed
3	PCC	100%	71,000.00	100%	71,000.00	0%	Completed
4	RCC Foundation/column footing	100%	92,000.00	100%	92,000.00	0%	Completed
vii	Guard Room Area						
1	Site Clearance	100%	50,000.00	100%	50,000.00	0%	Completed
2	Excavation	100%	82,211.20	100%	82,211.20	0%	Completed
3	PCC	100%	82,211.20	100%	82,211.20	0%	Completed
4	RCC Foundation/column footing	100%	1,14,422.40	100%	1,14,422.40	0%	Completed
5	Column & Beam	100%	1,14,422.40	100%	1,14,422.40	0%	Completed
6	RCC ground floor slab	100%	1,14,442.40	100%	1,14,442.40	0%	
viii	Chlorination Room Area						
1	Site Clearance	100%	1,50,000.00	100%	1,50,000.00	0%	Completed
2	Excavation	100%	4,57,689.60	100%	4,57,689.60	0%	Completed
3	PCC	50%	2,28,844.80	50%	2,28,844.80	0%	Completed
4	RCC Foundation/Column footing						
xviii	EXTERNAL DEVELOPMENT						



		Milest	one 1 (12.5%)	Į.	Achieved		
SN	Activity	Due	on 25.09.20	Til	l 25.09.20	Remaining works	Remarks
		Physical	Financial (Rs)	Physical	Financial (Rs)	WO I RO	
	Boundary Wall with Gate						
1	Site Clearance	100%	-		-		
2	Excavation	40%	1,33,900.00	51%	1,33,900.00	0%	Out of 665m, 336m completed
3	PCC	40%	2,00,850.00	71%	2,00,850.00	0%	Out of 158, 112 completed
4	RCC Column footing	40%	2,00,850.00	71%	2,00,850.00	0%	Out of 158, 112 completed
5	RCC Column & Beam	40%	2,00,850.00	44%	2,00,850.00	0%	Out of 158, 69 completed
6	Brickwork	15%	75,318.75	24%	75,318.75	0%	Out of 445 rmt, 84 rmt iscomple
С	MPS-40 MLD						
	Civil Work						
i	Construction of Raw Sewage Sump						
1	Site Clearance	100%	5,00,000.00	100%	5,00,000.00	0%	Completed
iii	Construction of Inlet chamber and screen channel						
1	Site Clearance	100%	1,50,000.00	100%	1,50,000.00	0%	Completed
2	Excavation						
ix	SEWER SYSTEM AREA (3.2 Km)						
1	Site Clearance	100%	-	100%		0%	Completed
2	Supply of pipes	20%	110,60,057.85	20%	110,60,057.85	0%	Completed
	Total achieved out of 12.5%		478,36,270.00	12.5%	478,36,270.00	0%	100% Milestone-1 achieved



PHOTOGRAPHS OF UNNAO STP SITE



Site inspection by SMCG & SMEC



Concrete work of CCT





Supernatant sump wall correction & Funny bag wrapping and Curing



Concrete work of sludge thickener



7 PRESENT STATUS AND ISSUES OF HAM PROJECT KANPUR

7.1 PANKHA 30 MLDSTP:

- Approval of design & drawings completed;
- ➤ 1st milestone (12.5% of total work) completed on as per revised project schedule date i.e. 25.09.2020;
- > 2nd milestone is to be completed by 25.11.2020 which will be cumulative 25% of the total work cost;
- Construction work for SBR, BW, CCT, MPS excavation, sludge thickener, admin building and laying of sewer are under progress;
- Manpower deployment by the Concessionaire has been done but is not sufficient. Total no. of workers deployed at site are 30-35 (as on 30.09.20) whereas 100-150 labours are required to speed up the works to attain targets.
- Construction work for SBR, BW, CCT, MPS and Sundar Nagar IPS works are under progress;

7.2 UNNAO 15 MLD STP FACILITIES:

- Approval of design & drawings completed;
- ➤ 1st milestone (12.5% of total work) completed as per revised project schedule date i.e. 25.09.2020;
- Manpower deployment by the Concessionaire has been done but is not sufficient. Total no. of workers deployed at site are 30-35 (as on 30.09.20) whereas 100-150 labours are required to speed up the works to attain targets.
- ➤ New land for I&D works has been identified and acquisition is in process;
- > 2nd Milestone is to be completed by 25.11.2020 which will be cumulative 25% of the total work cost.
- Construction work for SBR, BW, CCT, sludge thickener, supernatant sump under progress;
- > Electricity connection work in progress. Poles and electric line are being installed;

7.3 SHUKLAGANJ 5 MLD STP FACILITIES:

CTE was not granted by UPPCB on the previously allotted land. Now new site, about 400m away from previous site is selected. CTE has been obtained on 10.07.2020. At present, Geotech investigations and site layout finalization works are in progress.

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

- ➤ Handing over is planned by UPJN by 19.07.20 as agreed by concessionaire but could not materialised due to labour issue.
- > CTO received on 10.06.20.
- Drawing & Datasheet along with QAP for PST, SST, Surface Aerators, Grit Mechanism, Screen & Thickener:

The submittals has been vetted by PE and recommended for conditional approval except screen vide STC letter no.488 dated 07.09.20.



After meeting with GM, GPCU, UP Jal Nigam dated 18.09.20; it was decided to use SS304 and IE2 instead of SS316 and IE3 resp. for Jajmau 130 MLD STP. As per meeting, drawing and datasheet along with QAP for PST, SST, Surface Aerators, Grit Mechanism & Thickener is recommended for approval vide STC letter no.505 dated 19.09.20 and the same has been approved by UPJN vide letter no. 1988/w-10/94 dated 19.09.20.

After that Concessionaire has submitted the compliance report and additional documents of Screen vide their letter no.641 dated 17.09.20 and the same has been vetted by PE and found ok and recommended for approval vide STC letter no.513 dated 22.09.20. The same has been approved by UPJN vide letter no. 2007/w-10/95 dated 25.09.20.

Structural rehabilitation & retrofit for 130 MLD STP:

PE has submitted their comments on structural rehabilitation & retrofit vide their letter no.494 dated 10.09.20. Concessionaire has submitted the compliance report for Structural rehabilitation & retrofit vide their letter no.643 dated 18.09.20. The submittals and compliance report are reviewed by PE and found ok. Therefore, recommended for approval vide STC letter no.511 dated 22.09.20 and the same has been approved by UPJN vide letter no. 2602/w-30/34 dated 29.09.20.

Submission of BEP for 130 MLD STP:

Concessionaire has submitted the hard copies of BEP for 130 MLD STP on 23.09.20 after approval from IIT Roorkee (along with IITR letter) without attaching any soft copy.

Electrical Load list and SLD for 130 MLD Jajmau:

Concessionaire has submitted the revised electrical load list and SLD for the 130 MLD Jajmau vide their letter no.664 dated 29.09.20 without any attached enclosures.

7.5 43 MLD JAJMAU PHASE II

- The plant is ready to be handed over to the Concessionaire. UPJN has written to the Concessionaire to deploy adequate staff for operation of the plant immediately;
- CTO received on 10.08.2020.

7.6 210 MLD BINGAWAN FACILITIES

The schedule date of handover of 210 MLD Bingawan Facilities as per CA was 01/04/2019 but actually could be handed over on 08/07/2019. From handover date itself it was observed and informed from time to time to Concessionaire that the operation and maintenance of the plant was not up to the mark. Commercial Operation Date of Bingawan facility declared by UPJN as 10.08.20 vide their letter no 2324/w-37/100 dated 10.09.20.

Following points need to be addressed:

i. Compliance of Inspection Reports

PE inspected 210 MLD Bingawan STP on 04.09.20 and issued inspection report on 5th September 20. Compliance report on Inspection note at Bingawan facilities on 05.09.20 has been submitted by KRMPL on 15.09.20. Since 28th January 20 rectification of defects indicated in different inspection reports has not been done by the KRMPL and they are extending dates continuously every month. Copy of Inspection report of Bingawan site is enclosed.



ii. O&M Manual

Revised O&M manual of Bingawan incorporating the points decided in the meeting dated 16.12.2019 has been submitted by the Concessionaire on 31.07.20 which is recommended for approval by PE on 17.08.20 and approved by UPJN on 24/08/20.

iii. Insurance Policies

Only All Risk Industrial Insurance Policy has been submitted and remaining policies are not submitted after so many reminders. Comprehensive General Liability Policies submitted by concessionaire is not acceptable. Notarized Industrial all risk policy for Bingawan has been submitted by KRMPL on 26.08.20 on which PE submitted the point-wise comments on 28.08.20. Compliance report has been submitted by KRMPL on 28.08.20. No action taken by concessionaire on STC's comments.

iv. Performance of Plant

a. Cleaning and reactivation of UASB Reactors:

All the KPIs are not being met during the month of September 2020. Out of 16 no's reactors, UASB reactor no. 1, 4 & 8 has been filled for reactivation after cleaning. Reactor no. 2 & 3 has been taken up for cleaning from 4.08.20 & 20.08.20. The Concessionaire has not submitted the action plan for cleaning and reactivation of UASB reactors but taking randomly for cleaning and reactivation. Performance report of September 2020 enclosed.

b. BFP: Out of 3, only 1 no. Bed filter press is operational during the month of September 2020. The Concessionaire has promised that one more BFP will be operational by 20th Sept. 2020 but only 1 no of BFP is operational till the end of Sept. 2020. Also, concessionaire ensures to put BFP no. 2 in operation by 15.10.20.

Only 1 no. tractor trolley has been found in working for disposal of dewatered sludge. It was always required to run 2 nos. filter press at a time. So, 2 nos. tractors and 3 nos. trolleys always needed at site for disposal of the dewatered sludge.

v. Joint Sampling and Testing by IIT Kanpur

It was decided in the meeting of GM GPCU UPJN on 16-12-2019 (MOM issued vide letter no. 3847/M-2A/116 dated 18-12-2019) that at least once in a month joint sampling of raw sewage and treated effluent will be done by UPJN and KRMPL and testing to be done by IIT Kanpur. KRMPL has taken the sample jointly on 29.09.20 for testing. Also, UPPCB Kanpur has taken the samples on 02.09.20 & 07.09.20 and testing reports submitted by UPJN vide their letter no. 2266/w-37/89 dated 04.09.20 and letter no. 2355/w-37/102 dated 15.09.20. Copy Enclosed. Testing report from Spectra research Lab ventures (P) Ltd. of the Joint sample taken on 30.08.20 has been submitted by concessionaire on 28.09.20. Copy attached.

iv. Renovation Completion Certificate

Renovation (Installation of RTOLMS and Rectification of Pumps) Completion Certificate has been issued by UPJN as 10.08.20 vide UPJN letter no. 2033/w-37/67 dated 18.08.20. Calibration certificate with witness certificate for RTOLMS is to be submitted by KRMPL.

v. Gas Holder

Out of 2 no's both are not in working condition.



vi. Schedule Maintenance Works for the year 2020-21

Schedule maintenance works as per approved O&M manual were to be started from 1/08/2020, but not started yet.

7.7 42 MLD SAJARI STP

As per CA, Schedule Handing over date for Sajari is effective date (11.10.2019) but plant was handed over to the KRMPL on 29.05.2019. O&M expenditure from 29.05.2019 until effective date 11.10.2019 has been paid to KRMPL separately which is not covered under CA. Till Dec. 2019 KPIs (especially COD) of treated effluent was not under control and KRMPL was asked by NMCG to suggest improvements for COD to be within prescribed limit. KRMPL proposed to add one additional Aeration Tank on 07.12.2019.

Mr. Madhav Kumar NMCG requested Mr. S. Kamaraju Process Expert STC to visit the Sajari Plant to give his recommendations. Mr. S. Kamaraju Process Expert visited the Sajari Plant on 27-28 Dec 2019 and concluded that the Sajari Plant is designed for all 12 aerators to run without any standby but the plant was being run with 8 aerators only keeping 4 aerators as stand by. He submitted calculations for available aeration on dated 28.12.2019 (in discussion with GM, UPJN Kanpur) and found that sufficient aeration is available to reduce COD from 250 to 100. Therefore there is no need for any improvement as suggested by KRMPL. Commercial Operation Date of Sajari facility was declared by UPJN on 20.06.20. Following Points needs to be addressed:

i. Compliance of Inspection Reports

Compliance report of Inspection held at 42 MLD STP on 02.09.2020 and inspection report issued on 04.09.20 has not been submitted by the concessionaire. Rectification of defects indicated in different inspection reports from the start of the project has not been done by the KRMPL and they are extending dates continuously every month. Copy of Inspection report of Sajari Site is enclosed.

ii. O&M Manual

O&M Manual already approved by UP Jal Nigam.

iii. Insurance Policies

Only All Risk Industrial Insurance Policy has been submitted and remaining policies are not submitted after so many reminders. Comprehensive General Liability Policies submitted by concessionaire is not acceptable. Notarized Industrial all risk policy for Sajari has been submitted by KRMPL on 28.08.20 on which PE submitted the pointwise comments on 31.08.20. No action taken by concessionaire on STC's comments.

iv. Performance of Plant:

All KPIs are within prescribed limit for the month of September 20 except the dates when the parameters of raw sewage are beyond prescribed limit for which concessionaire is not responsible. Performance Report of September 20 enclosed.

a) Mechanical Screens (Coarse & Fine Screens)

Auto System of both Mechanical Screens need to be repaired.



b) Gas Generators

All 3 no's of Gas Generators installed are not operational since handover date. KRMPL had promised previously to get all the 3 gas generators operational by 30.06.20 vide KRMPL letter no. 453 dated 11.06.20, now KRMPL has promised to get the Gas generators operational by 30.09.20 but no action has been taken by concessionaire till the end of Sept. 20.

v. Joint Sampling and Testing by IIT Kanpur

It was decided in the meeting of GM GPCU UPJN on 16-12-2019 (MOM issued vide letter no 3847/M-2A/116 dated 18-12-2019) that atleast once in a month joint sampling of raw sewage and treated effluent will be done by UPJN and KRMPL and testing to be done by IIT Kanpur. KRMPL has took the sample jointly on 15.09.20 and sent it for testing. Testing reports from NABL accredited Laboratory Spectro Research Lab Ventures (P) Ltd of joint samples taken on 01.07.20 and 28.07.20 has been received on 15.09.20. Both test reports are enclosed.

vi. Power backup and Online Monitoring System

DG set for power backup has been made operational by UPJN on 14.07.20. Online monitoring system has been installed and synchronised but to be calibrated.

vii. Work plan For Sludge Disposal

Work plan for sludge disposal on UPJN identified land to be submitted by the Concessionaire.

viii. Submission of Schedule Maintenance Programme

Submission of schedule maintenance programmes for the next year is still pending from the Concessionaire side.

GENERAL ISSUES

- 1) Power Back- up to be provided at all locations as per Article 8.7 (b) which is not being accepted by KRMPL.
- 2) As per Article 8.8 (a): At each STP/Pumping Station (new or existing) of all locations, the Concessionaire shall install and maintain an online monitoring system, in accordance with the Technical Specifications and Applicable Laws (including specifically, the EPA) to monitor the volume, specifications and characteristics of the incoming Sewage and the Treated Effluent, as applicable.
- 3) As per Article 11.2: During the O&M Period of the Facilities, the Concessionaire shall obtain and maintain insurance policies including but not limited to the following:
 - (i) loss, damage or destruction of the Facilities, at replacement value;
 - (ii) comprehensive third party liability insurance including injury to or death of personnel of the Jal Nigam or NMCG or others caused by the Project;
 - (iii) the Concessionaire's general liability arising out of the Project;
 - (iv) liability to third parties for goods or property damage;
 - (v) workmen's compensation insurance; and



(vi) any other insurance that may be necessary to protect the Facilities, the Concessionaire and its employees, including for all Force Majeure Events that are insurable at commercially reasonable premiums and not otherwise covered in items (i) to (v) above.

8 STATUS OF BEP& OTHER DETAILS

Status of BEPs & other detail are given in following table 6.2:

Table 6.2: BEPs and other details

	N Particulars Status										
SN	Particulars	Status									
		Approved	Pending								
1.	BEPs (Process, Mechanical & Electrical)	GA, Data Sheet and QAP of centrifuge, submersible pump and mechanical grid collection system, Unnaoreviewed & recommended for approval on 25.02.20 GA, Data Sheet and QAP of centrifuge, submersible pump and mechanical grid collection system, Pankhareviewed & recommended for approval on 28.02.20 130 MLD Jajmau - QAP for PST, SST, Surface Aerators, Grit Mechanism & Thickener approved. Structural rehabilitation & retrofit for 130 MLD STP approved.	Concessionaire has submitted the hard copies of BEP for 130 MLD STP on 23.09.20 after approval from IIT Roorkee (along with IITR letter) without attaching any soft copy. Concessionaire has submitted the revised electrical load list and SLD for the 130 MLD Jajmau vide their letter no.664 dated 29.09.20 without any attached enclosures.								
2.	BEP Structure Design & Drawings	SBR Rev Structural design drawing, Unnaorecommended for approval on 30.06.20 Guard Room design, Unnaorecommended for approval on 01.04.20 SBR REV-RCC design drawing, Unnaorecommended for approval on 11.04.20 PTU Rev Structural design drawing, Unnaorecommended for approval on 11.04.20 Staff Quarters Revised RCC design of Unnao STPrecommended for approval on 15.04.20 Rev Structure design of Blower Room of Unnao STPrecommended for approval on 16.04.20 ADMIN build drawing, Unnaorecommended for approval on 10.04.20 Sludge thickener & Sludge re-circulation Sump Rev. Structural drawing, Unnaorecommended for approval on 11.04.20 CCT Rev Structure design drawing, Unnaorecommended for approval on 10.04.20 Blower Room Structure drawing and design of Pankha STP-recommended for approval on 30.04.20	Acquisition of land for I&D works Unnao is under progress								



		Structure drawing of CCT & TEPH, Jajmau- recommendations for approval on 06.03.20	
		Electrical drawing, Pankha- recommendations for approval on 17.03.20	
		Structure drawing, Unnao MPS- recommended for approval on 29.02.20	
		Revised drawing of boundary wall, Unnao- recommended for approval on 29.02.20	
		CTE for Shuklaganj STP received from UPPCB dated 10.07.2020	
		GA, data sheet & QAP - Fine screen, coarse screen and belt conveyor for Unnao vetted by letter no. 455 dated 13.08.2020	
		GA, data sheet & QAP - Centrifuge feed pump Unnao vetted by STC letter no. 463 dated 18.08.2020	
		GA, data sheet & QAP for Dosing Pump –Unnao Vetted by STC letter no. 482 dated 03.09.2020	
3.	Construction Plan	Revised construction plan Pankha-recommended for approval on 18.06.20 & 29.07.20 without extending completion date.	
		Revised construction plan Unnao-recommended for approval by STC letter vide on 441 dated 31.07.2020 without extending completion date	
4.	Sewer Network/Line Design	Design and drawings of sewer work Pankha- recommended for approval On 10.02.20	
	Design	Design and drawings of sewer work Unnao- recommended for approval On 20.02.20	
5.	ESHS Plan	ESHS approval-Already vetted by STC. Approved by UPJN on 26.09.19	
6.	O&M	Bingawan RTOLMS - Reviewed & found in order. Recommended for approval on 03.12.19/ 19.12.19 with some conditions	Only All Risk Industrial Insurance Policy has been submitted and remaining
		Level transmitter & flow metre - vetted & approved on 27.12.19	policies are not submitted after so many reminders. Comprehensive General
		Bingawan O&M manual - approved Sajari O&M manual – Approved	Liability Policies submitted by concessionaire is not acceptable.



ANNEXURE



ANNEXURE 1: Progress of Work – HAM Project Kanpur

Date	Name of Activity#	Date of Receipt	Date of Approva I (Vet/ Commen t)	No. of day take n	Time as per contra ct (days)	Dela y if any (No. of days) [7=6 -5]	Reaso n for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concess ionaire	Reason for delay	Step take n by PE to avoi d such dela ys	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14
01.09.20	Submission of drawing &datasheet along with QAP for PST.	28.08.20 UPJN- 2146/w- 20/26	01.09.20 S-476	4	20-	-		C.M.Dimri Linga Rao Vikas Priyesh Satendra Lokesh Kapil	1+1+1+1+1 +1+1	-	-	-	Under vetting
02.09.20	Submission of compliance report on comments given on manhole for Pankha sewage facilities.	28.08.20 K-600	02.09.20 S-480	4	20			C.M.Dimri J.P.Tripathi Linga Rao Vikas Priyesh Satendra Lokesh Kapil	1+1+1+1 +1+1+1				Vetted & Recommen ded for approval



Date	Name of Activity#	Date of Receipt	Date of Approva I (Vet/ Commen t)	No. of day take n	Time as per contra ct (days)	Dela y if any (No. of days) [7=6 -5]	Reaso n for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concess ionaire	Reason for delay	Step take n by PE to avoi d such dela ys	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14
03.09.20	Submission of GA Technical data sheet & QAP for centrifuge feed pump, fine and coarse screen, mechanical grid collection system Unnao.	20.07.20 K-528 & 18.08.20 S-463	03.09.20 S-481	16	20			C.M.Dimri S Basutkar Linga Rao Vikas Priyesh Satendra Lokesh Kapil	1+1+1+1+1 +1+1+1				Vetted & Recommen ded for approval
03.09.20	Approval of GA,Datasheet and QAP of Dosing pump for 05 MLD,15 MLD,30MLD STP facilities.	01.09.20 By email of KRMPL	03.09.20 S-482	2	20			C.M.Dimri S Basutkar Linga Rao Vikas Priyesh Satendra Lokesh Kapil	1+1+1+1+1 +1+1+1				Vetted & Recommen ded for approval
04.09.20	Pankha & Unnao facilities manhole	24.07.20	04.09.20	-	20	-	-	JP Tripathi	1+1+1+1+1 +1+1	-	-	-	



Date	Name of Activity#	Date of Receipt	Date of Approva I (Vet/ Commen t)	No. of day take n	Time as per contra ct (days)	Dela y if any (No. of days) [7=6	Reaso n for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concess ionaire	Reason for delay	Step take n by PE to avoi d such dela ys	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14
	details.	S-429 Reminder	S-483 Reminde r					Linga Rao Vikas Priyesh Satendra Lokesh Kapil					
04.09.20	Inspection Report of 42 MLD Sajari STP.		04.09.20 S-484		20			JP Tripathi Linga Rao Vikas Priyesh Satendra Lokesh Kapil	1+1+1+1+1 +1+1				
05.09.20	Submission of Quality control plan & work method statement for Approval.	29.08.20 K-606	05.09.20 S-485	6	20			C.M.Dimri Linga Rao Vikas Priyesh	1+1+1+1+1 +1+1				



Date	Name of Activity#	Date of Receipt	Date of Approva I (Vet/ Commen t)	No. of day take n	Time as per contra ct (days)	Dela y if any (No. of days) [7=6 -5]	Reaso n for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concess ionaire	Reason for delay	Step take n by PE to avoi d such dela ys	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14
								Satendra Lokesh Kapil					
05.09.20	Inspection Report of 210 MLD Bingawan STP.		05.09.20 S-486		20			C.M.Dimri Linga Rao Vikas Priyesh Satendra Lokesh Kapil	1+1+1+1+1 +1+1				
06.09.20	Sunday												
07.09.20	Submission of compliance report on comments given on Unnao and Pankha site for Brick Manholes MOC.	04.09.20 K-619	07.09.20 S-487	3	20			C.M.Dimri Linga Rao Vikas Priyesh Satendra	1+1+1+1+1 +1+1+				



Date	Name of Activity#	Date of Receipt	Date of Approva I (Vet/ Commen t)	No. of day take n	Time as per contra ct (days)	Dela y if any (No. of days) [7=6 -5]	Reaso n for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concess ionaire	Reason for delay	Step take n by PE to avoi d such dela ys	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14
								Lokesh Kapil					
07.09.20	Submission of drawing & data sheet along with Qap for PST,SST ,surface,aerator,grit machine,screen,thic kner for 130 MLD STP Jajmau. Project.	31.08.20 K-608	07.09.20 S-488	7	20	-	-	C.M.Dimri S Basutkar Linga Rao Vikas Priyesh Satendra Lokesh Kapil	1+1+1+1+1 +1+1+1	-	-	-	
08.09.20	Submission of drawing & data sheet along with QAP for PST,SST, surface, aerator, grit machine, screen, thickener for 130 MLD STP Jajmau. Project.	31.08.20 K-608	07.09.20 S-488	7	20			C.M.Dimri Linga Rao Vikas Priyesh Satendra Lokesh Kapil	1+1+1+1+1 +1+1				Under Vetting



Date	Name of Activity#	Date of Receipt	Date of Approva I (Vet/ Commen t)	No. of day take n	Time as per contra ct (days)	Dela y if any (No. of days) [7=6 -5]	Reaso n for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concess ionaire	Reason for delay	Step take n by PE to avoi d such dela ys	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14
09.09.20	Inspection Report of Unnao STP,15 MLD .		09.09.20 S-490		20			J.P. Tripathi Linga Rao Vikas Priyesh Satendra Lokesh Kapil	1+1+1+1+1 +1+1				
09.09.20	Regarding sewer Bedding calculation latest revision R-02	03.09.20 K-615	09.09.20 S-491	6	20			C.M.Dimri Linga Rao Vikas Priyesh Satendra Lokesh Kapil	1+1+1+1+1 +1+1				
09.09.20	Submission of Revised Network drawing for Pankha	29.08.20 K-607	09.09.20 S-492	11	20			C.M.Dimri J.P.Tripathi Linga Rao Vikas	1+1+1+1+1 +1+1+1				Vetted & Recommen ded for approval



Date	Name of Activity#	Date of Receipt	Date of Approva I (Vet/ Commen t)	No. of day take n	Time as per contra ct (days)	Dela y if any (No. of days) [7=6 -5]	Reaso n for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concess ionaire	Reason for delay	Step take n by PE to avoi d such dela ys	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14
								Priyesh Satendra Lokesh Kapil					
09.09.20	Submission of piping GAD for 15 MLD Unnao & 30 MLD for Pankha Approval	27.08.20 K-538	09.09.20 S-493	13	20			C.M.Dimri Linga Rao Vikas Priyesh Satendra Lokesh Kapil	1+1+1+1+1 +1+1				Vetted & Recommen ded for approval
10.09.20	Structural Rehabilitation & Retrofit report for 130 MLD Jajmau facilities.	19.08.20 K-574	10.09.20 S-494	19	20			C.M.Dimri J.P.Tripathi Linga Rao Vikas Priyesh Satendra Lokesh	1+1+1+1+1 +1+1+1+1				



Date	Name of Activity#	Date of Receipt	Date of Approva I (Vet/ Commen t)	No. of day take n	Time as per contra ct (days)	Dela y if any (No. of days) [7=6 -5]	Reaso n for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concess ionaire	Reason for delay	Step take n by PE to avoi d such dela ys	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14
								Kapil Mahendra					
11.09.20	Structural Rehabilitation & Retrofit report for 130 MLD Jajmau facilities.	19.08.20 K-574	10.09.20 S-494	19	20			C.M.Dimri Anil Seth Linga Rao Vikas Priyesh Satendra Lokesh Kapil Mahendra	1+1+1+1+1 +1+1+1+1		-	-	Under Vetting
16.09.20	Submission of Electrical drawing for 130 MLD Jajmau facilities Reminder - 03	24.08.20 S-470 Reminder-2	16.09.20 S-498		20			C.M.Dimri Anil seth Vikas Priyesh Satendra Lokesh Kapil	1+1+1+1+1 +1+1				Under Vetting



Date	Name of Activity#	Date of Receipt	Date of Approva I (Vet/ Commen t)	No. of day take n	Time as per contra ct (days)	Dela y if any (No. of days) [7=6 -5]	Reaso n for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concess ionaire	Reason for delay	Step take n by PE to avoi d such dela ys	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14
16.09.20	Submission of drawing of valves along with QAP for Approval.	14.09.20 K-636	16.09.20 S-499	2	20	-	-	C.M.Dimri Anil seth Vikas Priyesh Lokesh Kapil Mahendra	1+1+1+1+1 +1+1	-	-	-	
16.09.20	Submission of RCC Design & Drawing- Pankha I&D structures.	20.08.20 K-578	16.09.20 S-500	27	20	-		C.M.Dimri Anil seth Vikas Priyesh Kapil Lokesh Mahendra	1+1+1+1+1 +1+1	-	-		
17.09.20	Inspection Report of Unnao STP 15 MLD dated 11.09.20		17.09.20 S-501		20			J.P.Tripathi Anil seth Lokesh Kapil Mahendra	1+1+1+1+1	-	-	-	Inspection done by our engineers at Unnao STP



Date	Name of Activity#	Date of Receipt	Date of Approva I (Vet/ Commen t)	No. of day take n	Time as per contra ct (days)	Dela y if any (No. of days) [7=6 -5]	Reaso n for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concess ionaire	Reason for delay	Step take n by PE to avoi d such dela ys	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14
17.09.20	Submission of sewerage Network design Pankha	20.08.20 K-578	17.09.20 S-502	28	20			J.P.Tripathi Anil seth Lokeshl Mahendra	1+1+1+1+1	-	-	-	Comments
17.09.20	Undertaking for laying of sewerage network for 30 MLD STP Pankha.	14.09.20 K-635	17.09.20 S-503	3	20			J.P.Tripathi Anil seth Lokeshl Mahendra	1+1+1+1+1	-	-	-	
17.09.20	Submission of QAP for RCC pipe- Manufacturer K.K Spun India Ltd.	01.09.20 K-612	17.09.20 S-504	16	20	-	-	J.P.Tripathi Anil seth Lokesh Kapil Mahendra	1+1+1+1+1	-	-	-	
18.09.20	Submission of QAP for RCC pipe- Manufacturer K.K Spun India Ltd.	01.09.20 K-612	17.09.20 S-504					J.P.Tripathi Anil seth Lokesh Kapil	1+1+1+1+1				Under Review



Date	Name of Activity#	Date of Receipt	Date of Approva I (Vet/ Commen t)	No. of day take n	Time as per contra ct (days)	Dela y if any (No. of days) [7=6	Reaso n for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concess ionaire	Reason for delay	Step take n by PE to avoi d such dela ys	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14
								Mahendra					
19.09.20	Approval of drawing & datasheet along with QAP to PST,SST,surface aerator, grit mechanism,Thickne r for 130MLD STP Jajmau.	29.08.2020 S- 476(Remind er)	19.09.20 S-505	18	20	-		C.M.Dimri Anil seth Vikas Priyesh Satendra	1+1+1+1+1 +1 +1		•	1	
19.09.20	Rcc design & drawing-Pankha I&D structure	20.08.20 K-578	19.09.20 S-506	25	20	-	1	C.M.Dimri Anil seth Vikas Priyesh Satendra	1+1+1+1+1 +1	-		-	
20.09.20	Sunday												
21.09.20	Excel sheet of the BEP Shuklaganj.		21.09.20 S-507		20			C.M.Dimri O.P.Asati Kapil Ajay	1+1+1+1+1				Under review



Date	Name of Activity#	Date of Receipt	Date of Approva I (Vet/ Commen t)	No. of day take n	Time as per contra ct (days)	Dela y if any (No. of days) [7=6 -5]	Reaso n for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concess ionaire	Reason for delay	Step take n by PE to avoi d such dela ys	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14
								Mahendra					
21.09.20	Process calculation for I&D work at Unnao.	09.09.20	21.09.20	12	20			C.M.Dimri	1+1+1+1+1				
	Offinao.	K-627	S-508					O.P.Asati					
			,					Kapil					
								Ajay					
								Mahendra					
21.09.20	Rcc drawing for supernatant sump	09.09.20	21.09.20	12	20			C.M.Dimri	1+1+1+1+1				
	for Unnao.	K-627	S-509					O.P.Asati					
								Kapil					
								Ajay					
								Mahendra					
21.09.20	Design & drawing for gravity sewage	09.09.20	21.09.20	10	20			C.M.Dimri	1+1+1+1+1				
	network of Unnao.	K-627	S-510					O.P.Asati					
								Kapil					
								Ajay					
								Mahendra					
22.09.20	Compliance report for Structural	18.09.20	22.09.20	4	20			C.M.Dimri	1+1+1+1+1 +1	-	-	-	



Date	Name of Activity#	Date of Receipt	Date of Approva I (Vet/ Commen t)	No. of day take n	Time as per contra ct (days)	Dela y if any (No. of days) [7=6 -5]	Reaso n for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concess ionaire	Reason for delay	Step take n by PE to avoi d such dela ys	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14
	Rehabilitation & Retrofit report for 130 MLD Jajmau facilities.	K-643	S-511					J.P.Tripathi O.P.Asati Vikas Ajay Mahendra					
22.09.20	Submission of Revised sewerage Network design Pankha.	29.08.20 K-607	22.09.20 S-512	19	20			C.M.Dimri J.P.Tripathi O.P.Asati Vikas Ajay Mahendra	1+1+1+1+1 +1				
22.09.20	Approval of drawing & datasheet along with QAP for screen for 130 MLD STP Jajmau.	17.09.20 K-641	22.09.20 S-513	5	20			C.M.Dimri J.P.Tripathi O.P.Asati Vikas Ajay Mahendra	1+1+1+1+1 +1				



Date	Name of Activity#	Date of Receipt	Date of Approva I (Vet/ Commen t)	No. of day take n	Time as per contra ct (days)	Dela y if any (No. of days) [7=6 -5]	Reaso n for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concess ionaire	Reason for delay	Step take n by PE to avoi d such dela ys	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14
23.09.20	Submission of Valves along with QAP for approval for 15 MLD STP Unnao	14.09.20 K-636	24.09.20 S-515	10	20			C.M.Dimri J.P.Tripathi O.P.Asati Anil seth Vikas Priyesh Satendra Lokesh Kapil Ajay Mahendra	1+1+1+1+1 +1+1+1+1+ 1+1				Under review
24.09.20	Submission of Valves along with QAP for approval for 15 MLD STP Unnao.	14.09.20 K-636	24.09.20 S-515	10	20			C.M.Dimri J.P.Tripathi O.P.Asati Anil seth Vikas Priyesh Satendra	1+1+1+1+1 +1+1+1+1+ 1+1				Under review



Date	Name of Activity#	Date of Receipt	Date of Approva I (Vet/ Commen t)	No. of day take n	Time as per contra ct (days)	Dela y if any (No. of days) [7=6 -5]	Reaso n for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concess ionaire	Reason for delay	Step take n by PE to avoi d such dela ys	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14
								Lokesh					
								Kapil					
								Ajay					
								Mahendra					
24.09.20	Development of sewerage treatment	17.09.20	24.09.20	8	20			C.M.Dimri	1+1+1+1+1 +1+1+1+1+				
	plant on hybrid annuity PPP basis at Kanpur, State of	Upjn- 1824/m- 47/63	S-514					J.P.Tripathi	1+1				
	Uttar Pradesh-15	47/03						O.P.Asati					
	MLD STP Unnao.							Anil seth					
								Vikas					
								Priyesh					
								Satendra					
								Lokesh					
								Kapil					
								Ajay					
								Mahendra					
25.09.20	Submission of	16.09.20	26.09.20	10	20			C.M.Dimri	1+1+1+1+1				
	documents for 5 MLD STP at Shuklaganj.	K-640	S-517					J.P.Tripathi	+1+1+1+1+ 1+1				



Date	Name of Activity#	Date of Receipt	Date of Approva I (Vet/ Commen t)	No. of day take n	Time as per contra ct (days)	Dela y if any (No. of days) [7=6 -5]	Reaso n for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concess ionaire	Reason for delay	Step take n by PE to avoi d such dela ys	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14
								O.P.Asati Anil seth					
								Vikas					
								Priyesh					
								Satendra					
								Lokesh					
								Kapil					
								Ajay					
								Mahendra					
26.09.20	Submission of documents for 5	16.09.20	26.09.20	10	20			C.M.Dimri	1+1+1+1+1 +1+1+1+1+				Under Review
	MLD STP at Shuklaganj.	K-640	S-517					J.P.Tripathi	1+1				
								O.P.Asati					
								Anil seth					
								Vikas					
								Priyesh					
								Satendra					
								Lokesh					
								Kapil					
								Ajay					



Date	Name of Activity#	Date of Receipt	Date of Approva I (Vet/ Commen t)	No. of day take n	Time as per contra ct (days)	Dela y if any (No. of days) [7=6 -5]	Reaso n for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concess ionaire	Reason for delay	Step take n by PE to avoi d such dela ys	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14
								Mahendra					
27.09.20	Sunday												
28.09.20	Chief Engineer Kanpur meeting regarding Pankha site progress.		28.09.20					C.M.Dimri J.P.Tripathi O.P.Asati Anil seth Vikas Priyesh Satendra Lokesh Kapil Ajay Mahendra	1+1+1+1+1 +1+1+1+1+ 1+1				We had prepared mom for Pankha site.
29.09.20	Chief Engineer Kanpur meeting regarding Pankha process discussion.		29.09.20					C.M.Dimri J.P.Tripathi O.P.Asati Anil seth P. Walunjkar Vikas Priyesh	1+1+1+1+1 +1+1+1+1+ 1+1+1				We had prepared mom for Pankha site.



Date	Name of Activity#	Date of Receipt	Date of Approva I (Vet/ Commen t)	No. of day take n	Time as per contra ct (days)	Dela y if any (No. of days) [7=6 -5]	Reaso n for delay *	Key Personnel deployed	Man-days of each Key Personnel	Delay by Concess ionaire	Reason for delay	Step take n by PE to avoi d such dela ys	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14
								Satendra Lokesh Kapil Ajay Mahendra					
30.09.20	Email send to UPJN for update progress of Pankha Site		30.09.20 By mail		20			C.M.Dimri J.P.Tripathi O.P.Asati Anil seth P. Walunjkar Vikas Priyesh Satendra Lokesh Kapil Ajay Mahendra	1+1+1+1+1 +1+1+1+1+ 1+1+1				



Note: Man-days and respective inputs of experts for the month of September 2020 are:

SN	Name	Designation	Total Man-days	Input
1.	Mr. Chandra Mauleshwar Dimri	Senior Civil Engineer	30	Timesheet attached
2.	Mr. Jai Prakash Tripathi	O&M Engineer	30	Timesheet attached
3.	Mr. Anil Kumar Seth	Senior Electrical Engineer	15	Timesheet attached
4.	Mr. Sunil Basutkar	Senior Mechanical Engineer	03	Timesheet attached
5.	Mr. S. Kamaraju	Senior Process Expert	03	Timesheet attached
6.	Mr. P Walunjkar	Structural Engineer	02	Timesheet attached
7.	Mr. Linga Krishna Rao	Safety expert	15	Timesheet attached
8.	Mr. OP Asati	O&M Engineer	08	Timesheet attached



Annexure 2: Timesheets of Experts

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

	Shah Techanical Consultants Pvt Limited							
	NMCG-STP Projects at Kanpur under Hybrid Annuity based PPP	Mode						
Name :	Mr. Chandra Mauleshwar Dimri	Month/Year:						
A CONTRACTOR AND ADMINISTRATION OF THE PARTY	Senioe Engineer Civil	Sep-20						
Date	Description	Location						
2	New email created & Manhole chamber vetting Retrofitting of jajmau vetting and discussion with CEK	Kanpur						
3	Mismatch of layout of jajmau level(& discussion	Kanpur						
4	Discussion with GM,CEK about COD Bingawan	Kanpur						
5	Sewer bedding design discussion & Manhole chamber Vetting	Kanpur						
7	SUNDAY Network design pankha discussions	Kanpur Kanpur						
8	Work method statement apprasial	Kanpur						
9	Sewer bedding calculation & network discussion	Kanpur						
10	COD Bingawan declared & bedding calculation;ok	Kanpur						
11	Sever network design & bedding calculation discussed	Kanpur						
12	Pankha network design discussed with Mr. Jha R. Sunday	Kanpur Kanpur						
14	Meeting with CEK about Pankha progress	Kanpur						
15	Inspection of Pankha & Bingawan with SMCG	Kanpur						
16	Inspection of Jajmau and Unnao with SMCG	Kanpur						
17	Discussion with KRMPL about Jajmau 130 MLD	Kanpur						
18	Meeting with GM,PM 3 and E&M about various approvals	Kanpur Kanpur						
20	Meeting in office with PM and APM KRMPL about approval Sunday	Kanpur						
21	Discussion with SE 3rd about I&D Unnao	Kanpur						
22	Pankha sewarage network discussed & ok	Kanpur						
23	office Meeting about pending vender list & COD Sajari	Kanpur						
24	Discussion about compliance on Sajari	Kanpur						
25	Meeting at GM office about sajari COD issues	Kanpur						
26	First running milestone certificate issue for Pankha & Unnao	Kanpur						
27	Sunday	Kanpur						
28	Chief Engineer kanpur meeting Pankha STP Progress	Kanpur						
30	Pankha Process discussion with jha & jajmau structure Discussion with CEK on Pankha progress & Unnao construction Plan	Kanpur						
	e of Employee Signature of Team Leader	y working time for t						



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

Name	NMCG-STP Projects at Kanpur under Hybrid Annuity based PPP Mode Dally Report	100			
-	The second secon				
-	JAI PRAKASH TRIPATHI	Month/Year:			
Positio	1: O & M ENGINEER	Sep-20			
Date	Description	Location			
1	Prepared Time sheet and Invoice for the Month of August 2020 Discussed with PM (E & M) GPCU UPJN Kanpur regarding status of power back up and on	Kanpur			
2	line monitoring system of Sajarin being installed by UPJN	Kanpur			
3	Discussed with CE UPJN Kanpur regarding Bingawan COD	Kanpur			
5	Wrote letter to GM GPCU UPJN forwarding inspection report of Sajari Facilities Wrote letter to GM GPCU UPJN forwarding inspection report of Bingawan Facilities	Kanpur Kanpur			
8	Sunday	T GEOGRAFIA			
7	Discussed with PM 2 GPCU UPJN Kanpur regarding performance of Sajari Facilities	Kanpur			
8	Finalized proforms of ID Card to be printed for the employees of STC Kanpur project	Kanpur Kanpur			
9	Discussed with GM GPCU UPJN Kanpur regarding Bingawan COD Corrected draft letter to be sent by GM GPCU UPJNto KRMPL regarding Bingawan COD	Kanpur			
11	Discussed with Dr. Shaifall Env. Expert SMCG Lucknow regarding SMCG team visit of	Kanpur			
	Kanpur HAM project from 14/09/2020 to 16/09/2020	Kanpur			
12	Second Saturday Sunday	-			
14	Attended meeting with CE & GM GPCU UPJN in the office of CE UPJN Kanpur	Kanpur			
15	Visit of Pankha and Bingawan Facilities with the team of SMCG lucknow	Kanpur			
16	Visit of Sajari Facilities with the team of SMCG lucknow Vishwakarma Poola in office	Kanpur Kanpur			
18	Helped in preparing of MPR of the month of Aug 2020	Kanpur			
19	Corrected and finalized MPR of the month of Aug 2020	Kanpur			
20	Sunday Revelwed representation by KRMPL regarding preponement of COD for Sajari Facilities	Vanne			
22	Reveiwed representation by KRMPL regarding preponement of COD for Sajari Facilities	Kanpur Kanpur			
23	Discussed with UPJN officials regarding representation by KRMPL for preponement of COD	Kanpur			
24	for Sajari Facilities Revelwed Daily performance reports submitted by KRMPL of Sajari Facilities	1200000			
25	Reveiwed Daily performance reports submitted by KRMPL of Bingawan Facilities	Kanpur			
26		Kanpur			
		Kannur			
	Explained and instructed Mr. Ajai Goel Support Engineer(Mech) to inspect Sajari and	10000000			
		7,000,000			
	6.	970			
25 26 27 28 29 30	Reveiwed Daily performance reports submitted by KRMPL of Bingawan Facilities Discussed with Mr. Priyesh Shukla Support Engineer regarding MPR Sunday Discussed with Mr. Ajai Goel Support Engineer(Mech) regarding Sajarl and Bingawan Explained and instructed Mr. Ajai Goel Support Engineer(Mech) to inspect Sajarl and Bingawan STPs Reveiwed compliance submitted by by KRMPL regarding COD for Bingawan Facilities ertify that the time report above is a true and complete statement of my working time for the	Kanpur Kanpur Kanpur Kanpur e payroll peri			



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

Date Description Location 1	roject Engi	neer	Shah Techanic	cal Consultants Pvt Lim	ited
Name: ANIL KUMAR SETH Position: Sinor Electrical Eng., Sep-19 Date Description Location 1. Sep-19 Location 1. Locat	N	MCG-STP Pro	jects at Kanpur under	Hybrid Annuity based Pf	PP Mode
Date Description Sinor Electrical Eng. Description Location 1 2 3 4 5 6 6 7 8 8 9 10 11 arther up trepared for IE-), IE-2 & IE-3 class of malors Rampur 12 SECOND SATURDAY 13 SUNDAY 14 Alterded the Visit of SMcG Jeans with TL Kampur 15 Alterded the Visit of SMcG Jeans with TL Pankin Kampur 16 Alterded the Visit of SMcG Jeans with TL Pankin Kampur 17 Island Tall Visit of SMcG Jeans with TL Umag, safari Kampur 18 Frederich and Visit of SMcG Jeans with TL Umag, safari Kampur 19 Trest of Pankin Semil to Cheek the progress of which Kampur 18 Frederich of Pankin Circuit of Mechanical Screen Kampur 20 Cheeking of Central Circuit of Mechanical Screen Kampur 21 Cheeking of Central Circuit of Mechanical Screen Kampur 22 Cheeking of Central Circuit of Mechanical Screen Kampur 23 Prescueded in the Strip Salman & Appire and Letter progress Kampur 24 Cast of Januar & Appire and Jetter progress Kampur 25 Cheeking of Jesus & PS 7 for Paulika damaged Kampur 26 Wash Commercial with Sunktadoon; STP, Meking Kampur 27 SUNDAY 28 Ingress Profession of Washington Unitalities motors 30 Owthat hereby certify that the time report above is a true and complete statement of my worki			Daily Re	port	
Date Description Description Description Description Location Description Description Location Description Description Location Description Location Description De	Name:	ANIL K	CUMAR SETH		
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Mr. S. Kamaraju (Senior Process Expert)

Project		2000	Techanical	Consultants I	vt Limited	
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Position:		AUGUSTO CONTRACTOR OF THE PARTY				
Posmen:	Office Manag	BF .				
Date		Description		Duration (Days)	STP/Nalas	Work Performed Location
20/01/2020		Shadge Handling System of ponding to the request reor 20/1/20 from TL.		0.25	Jajmau STP	Home
22/01/2020		Sludge Handling System of		0.25	Jajmau STP	Home
08/03/2020	Review (ponding to the request reci comments of ICI Nata & Su to the request received via	ndernagar Nala -	0.5	Nates	Home
	Benjaw (from TL. Comments of ICI Nala & Su	ndemanar Nala			
19/03/2020	Responding	to the request received via from TL	email dated 18/3/20	0.5	Nalas	Home
04/04/2020	Review of TE received via	Ps of Jajmau STP - Respo email dated 04/04/20 from ' (Mr. Priyesh Shukla	TL/Support Engineer	1	Jajmau STP	Home
67/05/2020		Process Calculations based onding to the request received 03/05/20 from TL		0.5	Sajari STP	Home
11/05/2020	100-100-100	rafted on KRMPL R3 Revisi MLD Renovation		0.5	Jajmau STP	Home
21/05/2020		drafted on KRMPL Letter or to the request received via from TL.		0.25	Sajari STP	Home
18/07/2020	Review Com/	nents of I&D Work at Them Nala & ICI Nale	nat Nala, IPS Sundar	1	Natos	Home
20/07/2020		IT Comments on Jajmau S responding the comments t		4	Jajman STP	Home
26/07/2020	Review Come Phone calls	nents given on new layout o Responding to the reques dated 25/7/20 from T	fiame siv bevisoer t	9.	Shuklagani STP	Home
31/07/2020	Review of request	Pankha STP CCT Dwg - R received via email dated 3	tesponding to the 0/7/20 from TL	0.5	Pankha STP	Home
10/08/2020	Layout & Responding t	ver the phone with TL on S Drafting an email response of the request received via e from TL.	in this regard - small dated 10/08/20	0.5	Shuklaganj STP	Home
24/09/2020	Review of I Status - Resp	CRMPL/STC Letters on 5hi landing to the request received 23/9/20 from TL	uklagani BEP CIR Ived via email dated	1	Shuklagani STP	Home
28/00/2020		nents of process calculation ronding to the request received 28/09/20 from TL		f:	Urinao	Home
29/09/2020	Review com Unnao - Resp	nents of process calculation conding to the request received 26/09/20 from TL.	ns for I&D Works at ived via small dated	1	Unnao	Home
04/10/2020		nary of the letters on Shukk anding to the request receiv 03/10/20 from TL		1	Shuklagani STP	Home
12/10/2020	Client \	C Meeting - NMCG, JN, S	TC & KRMPL	0.25	All Projects	Home
16/10/2020		summary of the letters on a the request received via e from TL		t	Jajmau STP	Home
19/10/2020		e given on CA Agreement ince for BEPs (Shuklegary		0.5	Shuklagani STP	Home .
05/11/2020	received on \$	Letters, drafting a detailed e &D Works for Unnao STP - scalved via email dated 04:	Responding to the		Unnao I&D	Home



Mr. P Walunjkar (Structure Engineer)

RAJASTHAN RURAL WATER SUPPLY & FLUOROSIS MITIGATION PROJECT (NAGAUR) PMSC: STC-NKI-AECOM JV MONTHLY ACTIVITY RECORD

Name: / Preetam Walunjkar (Structural Specialist)

Month/Year: Sep 2020

Date	Package	Location	Details of Work
01-09-2020			Leave
02-09-2020			Leave
03-09-2020			Leave
04-09-2020			Leave
05-09-2020			Saturday Holiday
06-09-2020			Sunday Holiday
07-09-2020	Nagaur	Site	Site Visit to Deshnok CWR
08-09-2020	Nagaur	Office	Preparation of Site Visit Report for Deshnok & Study Window opening problem in ESR 100 KL
09-09-2020	Nagaur	Office	Meeting with SE & CE regarding CWR Deshnok Issue
10-09-2020	Nagaur	Office	CD5 As build Drawing ESR Checking
11-09-2020	Nagaur	Office	CD6 A5 build Drawing ESR& Pump House Checked
12-09-2020			Saturday Holiday
13-09-2020			Sunday Holiday
14-09-2020	Nagaur	Office	Solve window problem of ESR Store room & Study Kanpoor Nala Drg
15-09-2020	Nagaur	Office	CD6 As build Drawing CWR Checking
16-09-2020	Nagaur	Office	CD6 As build Drawing PSP & VTC Checking
17-09-2020	Nagaur	Office	CD6 As build Drawing ESR Checking
18-09-2020	Nagaur	Office	CD6 As build Drawing Pump House Checking
19-09-2020			Saturday Holiday
20-09-2020			Sunday Holiday
21-09-2020	Nagaur	Office	CD6 As build Drawing Checking/Visit new Guest House
22-09-2020	Nagaur	Office	Excel Sheet preparation for Deshnok CWR work & meeting with CE
23-09-2020	- Nagaur	Office	Preparation of Site visit Report CDS-05 Ladnu (DLP)
24-09-2020	Nagaur	Office	Preparation of Site visit Report CDS-05 Ladnu (DLP)
25-09-2020	Nagaur	Office	Preparation of Site visit Report CDS-05 Ladnu (DLP)
26-09-2020			Saturday Holiday
27-09-2020			Sunday Holiday
28-09-2020	Nagaur	Office	CD6 As build Drawing VTC & CWT Checking
29-09-2020	Kanpur	Office	Check Compliance report submitted by KRMPL for Jajmau Retrofitting work
30-09-2020	Kanpur	Office	Rehabilitation Report Study for NMCG

SIGNATURE

TL/ DTL PMSC for RRWS&FMP (Nagaur)

Page 1 of 1



Mr. L.K. Rao (Safety Expert)

Project Engine		Shah Technical Consultants Pvt Limited	
Lingini	oci	NMCG-STP Projects at Kanpur under Hybrid Annuity based PPP Mode	
		Daily Report	
Name :	Linga Krishni Safety Expert		Month/Year:
Date		Description	Sep-20 Location
1	Office work a	afterded, Recard Begans Impection copies collected from recording outgoing files and office greats (LPUL. FORMPL and our STC) Consequencement for proposed also impeccon purpose.	Kanpur
2:	01	files work attention. Bayer 27 Mr.O.P. Lend Liver Life by grupon which when it may an improve	Kanpur
3	Diffice work a	His cod, Sajan 47 M D the impection report prepared and decreed with TL for that approval and sent to concerned parts with As instructor by TL Order Constructor in Memory of exercising a Children or an exercising and the production of the constructor of the co	Kanpur
4	Office work as	reviewed stat added the required costs tended. Ferrito 30 MLD Project work site trujo-750 LLong with the support engineer fet Seterate Sharms &	
6	A CONTRACTOR OF THE PARTY OF TH	bingown 210 MLD Site inspection done along with site supervisor Mr.Lokesh inded. Parkha 30 MLD Site inspection report arguined and discussed with TL for final approval and Ripneway.	Kanour
	Sammer Cont.	216 MLD 51P Plant inspection report sent to UPJN and the concerned.	Kanpur
6	-	SURPLAY	Kenpur
7		The Wall attended. Limite to MLD Project work site inspection along with divid aupport angineer.	Kanpur
		offended. Unner 15 MLD Picycal Inspector report or claims are arrived to 1, 6 senit, the UF 2h and other concerned berguines.	Kanpur
9	Office or	ork attended. Purefue 20 MLD file impection rupt operancel and strouged with fill ox final approval	Kanpur
10		Montess Painting 10 km 2 Project interests in report concerns and around in TL & perit in the LPLAN and other concerned personnel.	- 4
. 11	DMISS work	introdes. Shistograp to the characteristic of Mr.O. Projects are proposed along with consupout originals.	
12		Securi Naturaly	
(13)		BUNDAY	
15	Visit to Panta:	20 MLD Construction and Storphism 217 MLD (DAM) and January 130 MLD and 45 MLD (CAM) photos stong with SetCG orticals.	Kanpur
15	Viento	9 Sajan 42 MLD (DAW) plant Dense 15 MLD STP construction site along with SMCD efficials.	Karpur
	7		



Mr. O.P. Asati (O&M Engineer)

P	Project Engineer		Shah Techanical Consultants Pvt Limited								
E	gee.	- N	IMCG-STP Projects at Kanpur under Hybrid Annuity based PPP II Daily Report	Node							
-	Mana	Mr. O.P		Month/Year:							
	Name : Position:			Sep-20							
1	Date	Octivi Ci	Description	Location							
1	21	Relived	from Haridwar	Kanpur							
1	22	Journey	Period	Kanpur							
t	23	Joining	at office & Study of Agreement	Kanpur							
	24	Study o	f Concessionaire Agreement	Kanpur Kanpur							
	25	Study o	f case file of Jajmau	Kanpur							
	26	Site Vis	it of jajmau	Kanpur							
-	27		Sunday								
	28	etc.	in chief office for discussion about work progress of Pankha STP	Kanpur							
	29	Renew	of BEP of jajmau.	Kanpur							
	30	Study o	of correspondance with KRMPL company. That the time report above is a true and complete statement of my	Kanpur working time for the							

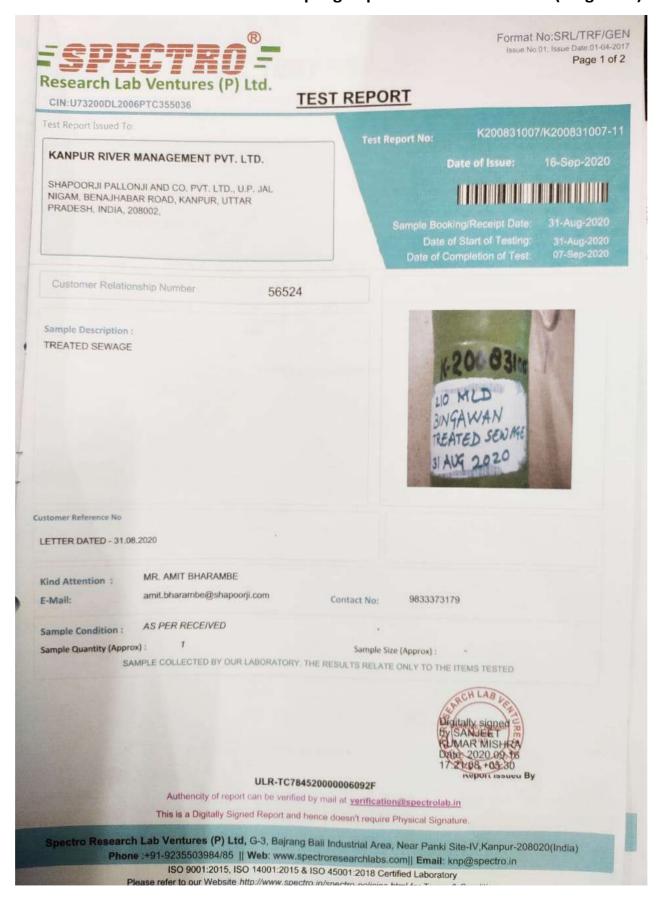


Annexure 3: Monthly Performance Report of Bingawan

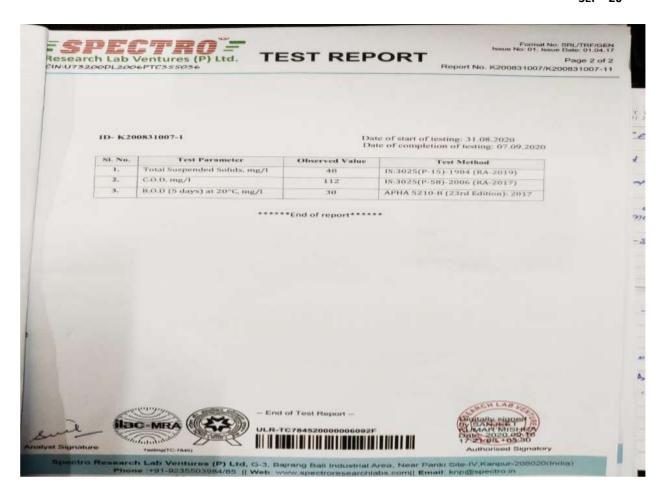
							0	MONTH	LY FLOW	& LAS RE	NINT.	AN,KANPUR	0		_	PIC	ONTH:SEPTEMBER-201	
						FINAL OUTLET										WER	REMARK	
						COD	800	TSS	2000	me	PH	COD	800 (<10mn/l)	155 (<50mg/l)	SHUT	DOWN	garann.	
Date	INLET FLOW in MLD	In HRS	Temp	TD5	PH (7-8)			UNCODATIVAN	Temp	TD5	(7-8)	(<100mg/l)	ppm	ppm	HRS	MINS		
	1,42,43		90	ppm	pon	ppm	ppri	ppm	"c	ppm	pom	ppm 112	31	52				
15 p- 35	136.25	24.0	11	936	73	223	136	378	11	930	75	120	35	50	1	25	33KV HT Feeder Fault From KesCO st	
14p.10	120.81	24/0	31	E70	7.3	960	188	396	31	900	7.5		13	54	8	39	33Kv HT Feeder Fault From KesCO sid	
3-Sep-20	133.64	24/0	30	780	7.2	628	190	508	装	890	7.6	128	12	54				
4-Sep-20	130.66	24.0	11	770	7.2	568	區	400	31	800	7.4	136	Attend	48				
5-Sep-20	117.00	24.0	11	870	7.3	540	200	386	11	907	7.4	144	11	46	==			
6-Sep-20	109.54	24.0	32	963	7,4	632	205	409	32	950	7,5	157	12	50		40	33Kv HT Feeder Fault From KesCO side	
7-Sep-20	117.17	24.0	I	900	23	756	198	438	12	936	7.4	194	33	- 00	5	DIESE OF	13Kv HT Feeder Fault From KesCO side	
8-Sep-20	85.80	24.0	11	900	7.4	620	190	380	12	920	7.6	168	22	44	8	1000	33KV HT Feeder Fault From KesCO side	
95tp-21	87.EB	24.0	11	850	7,4	992	185	388	N	940	7.5	134	17	55		- 44	2411	
18-Sep-20	128.25	24.0	n	880	7,4	524	240	400	32	970	7,6	175	33	22	-	-		
11-Sep-20	112.32	24,0	33	1000	7.3	592	190	436	35	980	7,5	168	31	52	-			
12-Sep-20	128.08	24.0	32	1010	7.4	584	195	424	12	1000	7.5	176	11	31		20	13kv HT Feeder Fault From KesCO side	
13-Sep-20	118.39	24.0	13	980	7.3	592	178	360	33	1000	7.5	190	35	55	1	20	2247 75 74545 7454 777	
145ep-20	116.81	24.0	B	970	7.3	608	153	390	33	1000	7.5	144	ă	50	-			
15-Sep 20	131.56	24.0	11	960	7.2	500	164	368	33	990	7.4	152	30	57	-			
16-Sep-10	128.25	24.0	33	980	7.3	624	135	404	33	990	7.4	144	30	11	-			
17-Sep-10	121.32	24.0	12	990	7.7	580	15%	388	12	1900	7.3	156	29	2	-			
18-5m-20	120.97	24.0	12	940	7,3	500	145	40	32	995	7,4	150	30	54		-	_	
CONTRACTOR OF THE PARTY OF THE	112.32	24.0	11	940	7.3	592	150	480	33	970	7.3	136	29	55	-	-	NPUH W	
1950-20	190.70	24.0	33	980	7.3	640	165	528	33	972	7.3	120	30	9			14 3 1	
20-5ep-20		24.0	17	970	7.2	632	148	590	N	990	7.3	135	25	50	-		14 3	
25.50-20	131,72	74.0	30	980	11	632	154	528	30	1000	73	128	31	46	_		2 3	
22-dep-20	122.38	100000	30	960	7.2	561	163	508	30	980	7.5	120	25	ž.			My 2 CM	
23-Sep-30	128.52	24.0		800	7.3	980	158	45)	-30	900	7.4	112	H	50			Wa III	
24-Sep-27	125.17	24.0	10	900	7.2	604	162	522	12	525	7.3	135	31	54				
25-Sep-25	123.05	24.0	32	908	13	672	158	518	30	930	7.5	128	N	50				
26-Sep-20	123.65	24.0	30	533	72	712	155	510	30	930	7.5	136	31	55				
27-Sep-20	130.00	24.0	N	910	10000	721	170	498	28	980	7.3	144	30	N				
28-Sep-20	125.88	24.5	26	960	7.2	685	155	522	25	990	7,4	136	30	53	ā	Ala	33KV HT Feeder Fault From KesCO side	
245sp20	103.48	24.0	26	940	72	1000	153	508	25	548	7.5	144	29	9	3	50	33Ks HT Feeder Fault From KesCD side	
38-Sep-20	100.19	24.0	73	530	73	680	(94%)								36	57		
TOTAL	3603.57					-			21.1	954.0	7.4	144.7	30.7	52.2	Hrs	Mins		
AVG	120.12	24.00	31.4	921.1	73	624.8	173.0	448.2	31.4	3341)	100	*****		-	-	-	1	



Annexure 4: Test Result of Joint Sampling Report of Treated Effluent (Bingawan)



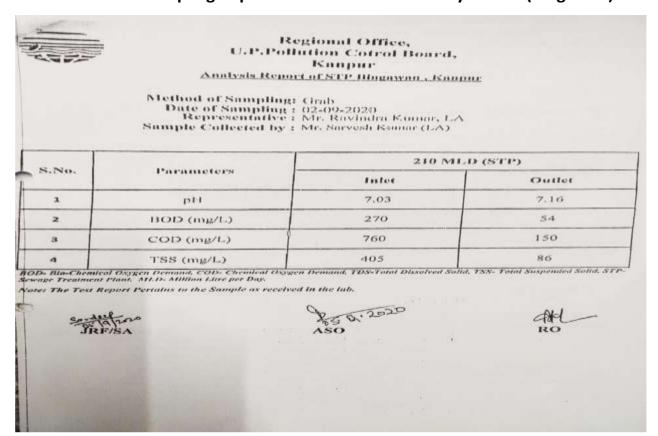








Annexure 5: Test Result of Sampling Report of Influent & Effluent by UPPCB (Bingawan)





Regional Office, U.P.Pollution Corrol Board, Kanpur

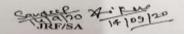
Analysis Report of STP Bingawan , Kampur

Method of Sampling: Grab
Date of Sampling: 07-09-2020
Representative: Mr. Shuilash Yadav, Lab Incharge
Sample Collected by: Mr. Sarvosh Kumar (LA)

S.No.	D	210 MLD (STP)								
	Parameters	Inlet	Outlet							
1	рН	7.18	7.26							
2	BOD (mg/L)	228	43.5							
3	COD (mg/L)	512	184							
4	TSS (mg/L)	496	146							

Sevage Teament Plant, MLD Million Live per Day.

Note: The Test Report Pertains to the Sample as received in the lab.



Asign Jeso

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Annexure 6: Site Inspection Report for the Month of Sept. 2020 (Bingawan)

Inspection report of 210 MLD STP Bingawan

Inspected on date 04-09-2020 Following were present

- Mr. Linga Krishna Rao, Safety Expert
- Mr. Lokesh Khandelwal, Support site supervisor Engineer
- Mr. Salesh Yadav, Lab Chemist, KRMPL

Observations:-

1. Online Monitoring System :-

- Out of 2 no's Electro-Magnetic Flow meters in inlet, 1 no. has been installed at site and it has been synchronised with RTOLMS. At 12.30 PM, EFM reading has been found 1998.5 cum/hr and at the same time, reading by online system was 1992.5 cum/hr. There's difference between both the readings. Hence, EMF needs to be calibrated.
- · Inlet sump 2 nos. level transmitters are installed and found in working condition and has been synchronised with RTOLMS. At 12.29 PM, Level Transmitter readings have been found (A&B) 13.816m and 13.814m and at the same time, online monitoring system was showing 13.76m & 13.88m. Please rectify the difference in readings.
- · Online monitoring system, RTU, DNP & UPS installed at Inlet & Outlet, and it has been synchronised with RTOLMS and testing results (COD, BOD & TSS) are changing for every 15
 - INLET Analyser readings have been found (COD-508.5mg/l, BOD-167.7mg/l & TSS-418.0mg/l) at 12.45 PM and at same time, online system readings were showing (COD-508.25mg/l, BOD167.72mg/l & TSS-418.03mg/l).
 - CUTLET Analyser readings have been found (COD-70.83mg/l, BOD-23.37mg/l & TSS-34.37mg/l) at 12.58 PM. At the same time, online system was also showing the same readings. Both feeding pumps are not placed at the fixed location.
- It is also necessary to update the proper power consumption and timing of both Power supply and Power backup (DG set) in RTOLMS.
- Electromagnetic flow meter for treated effluent has not been installed yet. Installation of Flow meter at the Treated effluent channel of the STP is necessary and should be synchronised with RTOLMS.



- Note:-RTOLMS Instruments and equipments are installed & have been verified for installation at site. Technical parameters need to be ensured by the concessionaire.
- 2. Collection Chamber
- 2 no's of manual screen are in working condition.
- 2 no's of mechanical screen, 1 no. has been found in running condition. Both mechanical screens and conveyer belt structure has to be painted. Currently in corroded state.
- Chain cover has not been found in mechanical screen structure.





3. Main Pumping Station

Out of 12 no's sewage transfer pump installed. All are in working condition.



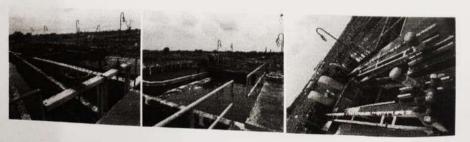
4. Inlet chamber

- 2 no's of manual screen are in working condition.
- 3 no's of mechanical fine screen including belt conveyer assembly are installed. One no mechanical fine screen has not been in running condition.



5. Grit removal assembly

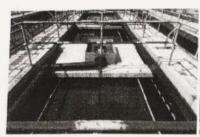
- Out of 4 no's, all are in working condition. Coupling guard & Chain guards has yet to be placed
- Painting has to be carried out for all the gates.





6. UASB reactor

Out of 16 no's, Reactors, cleaning and maintenance works are completed reactor no. 1, 4 & 8 and working has been found satisfactory. Reactor no. 2 & 3 are under maintenance works from 4.08.2020 & 20.08.2020. KRMPL has not submitted work programme schedule of reactors cleaning, sludge removal and maintenance.



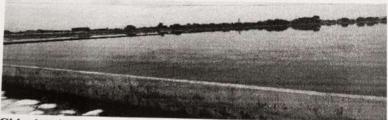


7. Aeration pond

- Out of 18 no's of aerators 2 no's are under maintenance (electric motor maintenance).
- · Painting of panels and hand railing has to be carried out.
- · Most of the cable trays are in corroded condition.



8. Final polishing pond



9. Chlorination

Chlorination system has been found ok and dosing of chlorine was providing 5 kg/hour.

10. Gas holder

Out of 2 no's both are not in working condition.

11. <u>DFG & DG set</u>

 Out of 2 no's DFG, 1 no. DFG has found in working condition and another under maintenance.



12. Belt filter press

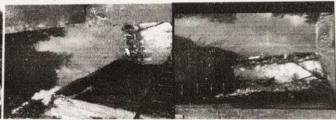
- Out of 3 no's, 1st no. Belt Filter Press has been found in working condition. 3rd no. Belt Filter Press maintenance works completed and in working from dated 4.09.2020 and 2nd no. BFP has found under maintenance. KRMPL ensures to repair the same completely before
- 1 no. tractor trolley has been found in working to disposal of dewatered sludge. It is always required to run 2 no. filter press at a time. So, 2 nos. Tractors and 3 nos. Trolley always needed at site for disposal of the dewatered sludge.



13. COD Nala Screen

- No person was available for screen cleaning. There is no arrangement for cleaning day and
- COD nala structure platform, hand railing and ladder got damaged due to corrosion or erosion. It must be rectified immediately.





14. Miscellaneous

- There is no proper road in plants approach and internal campus road. Balance boundary wall work is to be completed as earlier by upin.
- Housekeeping works was found in plant campus. Grass cutting machine used in this work.
- IP camera is to be installed around the plant

15. Safety points

- Qualified compounder with First aid certificate holder to be mobilized. First aid facility like first air box, stretcher to be arranged immediately in the site.
- Chlorine safety system to be improved, required proper caution boards and safe operation procedure at outside and inside area of chlorine handling to provided, chlorine detector and emergency alarm system to be arranged for safety of operators and workers working in this plant area.
- SCBA (self contained breathing apparatus) which is not in good condition and required, good condition SCBA to be provided and training to be given all the chlorine handling workers.



- Every month monthly safety committee meeting to be conducted along with the workers, staff, consultant representative and client representatives. The minutes of meeting to be circulated to all the concerned personnel and the compliance to done updated in next month meeting to all the personnel those who have attended meeting. Safety chairmen will be the Project Manager of KRMPL and Safety Secretary will be the Safety officer of KRMPL.
- Mock drills of Chlorine emergency, Incident, Fire, Poison, Fall from height etc., to be conducted once in a month each topic. Such mock drill report to be prepared and shared to the consultant and client and the gaps/short coming any to be discussed and implemented as lesson learning.
- Near mosque well top plate or grill to arrange in protection point of view.
- While entering in to 'DARGA" in/out checking and monitoring to be done at entry gate in safety point of view. In case of any problem in this area then the Concessioner should take liability as per Factories Act.
- In plant all ladders hand railing supports to be arranged for avoiding the fall of persons while climbing and getting down from ladder.
- In plant entire platforms area toe boards with 100X6 mm plate to be arranged for avoiding fall of persons legs in down.
- Coupling guards and chain belt guards to be provided for all the pumps and motors in the site area.
- DG area cautions boards, do's and don'ts along with "no smoking" to be written on the DG fence gate.
- In entire plant safety cautions boards, slogans, pictorial message, and flexes to be arranged for creating safety awareness to the workers, staff and visitors of the plant.

1. Covid 19 precautions followed at site

Thermal measuring and Nose masks providing is followed only 80%. Fogging is being done in labour camps; Sanitizer implementation, disinfection spray, personal screening and awareness programme are implemented.

2. Covid-19 precautions to be followed

Some of the workers were found not wearing Nose masks, PPE's Ear Plugs, Goggles, Hand gloves and Goggles not provided to the workers, staff and visitors. Recent some of the KRMPL staff got Covid-19, But the KRMPL representatives not taken any initiative for informing the same to Consultant and Client.

Lokesh Khandelwal

Support Engineer

Linga Krishna Rao Safety Expert

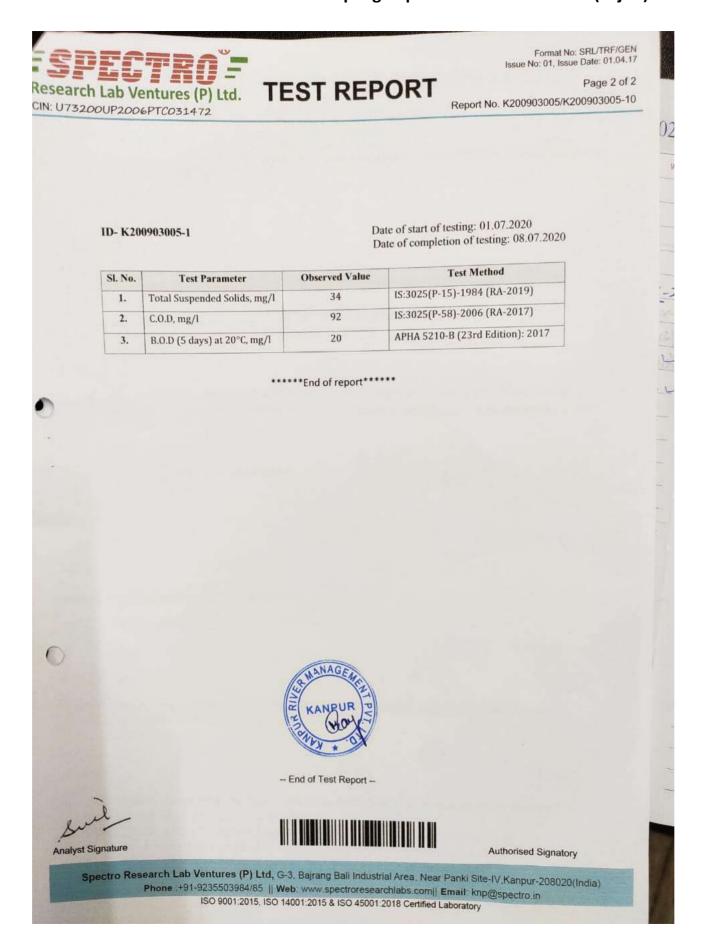


Annexure 7: Summary of Monthly Performance Report of Sajari

									NTHLY	FLOW	& LAB	REPORT		. 6	,		Month	September 2020	
					-	RAW SEWACI						FINAL OUTLET			Arration			propressions areas	
Date	INLET FLOW In MLD	Plant Ran in HRS	Temp	TDS	PH (7-0)	(50 mg/l)	800 (256 mg/l)	TSS (600 mg/l)	Temp	TDS	79 (7-8)	(00 (<100mg/l)	800 (<30mg/l)	755 (<50mg/l)	50	POWER SHUTDOWN		REMARK	
		_	Ŷ	ppm		720	ppn	ppn	4	ppm		ppm	ppe	ppn	gjn	HBS	MINS		
1-Sep-20	19.80	20.0	28	1380	7.5	495	168	303	26	892	7,9	124	24	30	1.5			1 STREAM IS UNDER OPERATION	
2-Sep-21	23.76	24.0	.28	1205	7.5	384	155	261	26	839	7.9	56	21	25.0	18			2 STREAM IS UNDER OPERATION	
3-5p-2	23.76	24.0	28	1318	7.5	512	174	316	28	908	7.9	104	23	33	17			2 STREAM IS UNDER OPERATION	
45p-21	22.77	23.0	28	1256	7.5	415	150	291	28	883	7.9	88	22	28.0	15			2 STREAM IS UNDER OPERATION	
5 Sep 23	21.75	21.0	28	1349	7.5	44)	154	339	28	841	7.9	92	23	25	12			2 STREAM IS UNDER OPERATION	
6-Sep-20	23.76	24.0	28	1402	7.5	442	162	318	28	854	7,9	96	25	32	13			2 STREAM IS UNDER OPERATION	
1.8ep.31	22.77	23.0	28	1508	7.5	528	175	321	28	918	7.9	104	22	34	18		15	2 STREAM IS UNDER OPERATION	
8-Sep.21	23.76	24.0	28	1405	7.5	440	158	296	28	810	7.9	88	21	27	1.9			2 STREAM IS UNDER OPERATION	
5-Sep-20	21.76	22.0	28	1296	7.5	384	145	264	28	827	7.9	%	22	29	1.7			2 STREAM IS UNDER OPERATION	
1-Sq-20	23.76	240	78	1502	7.5	575	180	316	28	902	7.9	104	24	31	1.8			2 STREAM IS UNDER OPERATION	
Se-31	12.67	13.0	28	1519	7.5	560	175	319	28	931	7.9	117	26	33	12	21	9	2 STREAM IS UNDER OPERATION	
2-Sep-20	22.36	22.0	28	1310	7.5	512	165	293	28	898	7.9	104	23	28	13	. 64.	20	Pound Dive color in Raw Sewage 2 STREAM IS UNDER OPERATION Found Dive color in Raw Sewage	
1.Sp.77	23.76	24.0	28	1291	7.5	432	150	267	28	847	7.9	96	21	26	11			2 STREAM IS UNDER CHERATION	
48p2i	19.97	20.0	28	1318	7.5	416	142	294	28	B11	7.9	88	22	29	17	3	45	2 STREAM IS UNDER OPERATION	
55p21	23.76	24.0	28	1390	7,5	440	560	297	28	829	7.9	95	24	33	1.6			2 STREAM IS UNDER OPERATION	
6-Sep-20	19.30	15.0	26	1381	7,5	552	175	319	28	905	7.9	104	26	-31	15			2 STREAM IS UNDER OPERATION	
išpži	21.29	21.0	28	1296	7.5	380	150	276	28	891	7.9	96	21	28	15			Found Die color in Raw Sewage 2 STREAM IS UNDER OPERATION	
5 0 38	22.28	22.0	28	1190	7.5	356	145	243	28	802	7.9	88	20	26	18			2 STREAM IS UNDER OPERATION	
-Sq-20	29.46	21.0	28	1336	7.5	48	160	292	28	934	7.9	92	23	31	17			2 STREAM IS UNDER OPERATION	
-Sep-20	19.80	20.0	28	1250	7.5	408	165	297	28	816	7.9	80	21	27	13			2 STREAM IS UNDER OPERATION	
Sp-31	22.28	22.0	28	1497	7.5	540	175	316	28	992	7.9	194	23					2 STREAM IS UNDER OPERATION	
	-						722	1000	A.C.	774	-3		4	32	17			Found Dye color in Raw Sewace	
-Sep-20	19.80	20.0	27	1503	7.5	608	182	323	27	1009	7.9	111	25	33	1.6			2 STREAM IS UNDER OPERATION Found Dive color in Raw Sewage	
5p-20	23.76	24.0	27	1480	7.5	440	155	291	27	911	7.9	96	22	28	18	600	RIVE	2 STREAM IS UNDER OPERATION Found Dive color in Rain Sewege 2 STREAM IS UNDER OPERATION 2 STREAM IS UNDER OPERATION	
3cp-20	22.77	23.0	27	1310	7.5	384	140	286	27	805	7.9	88	21	26	15	Y	×	STREAM IS UNDER OPERATION	
Sep.20	23.10	23.0	27	1419	7.5	496	165	311	27	916	7.9	104	23	31	12	1	Ž	2 STREAM IS UNDER OPERATION	
Sep-20	23.76	24.0	U	1403	7.5	448	160	291	27	894	7.9	%	22	34	14		PU/	Sebund Dive color in Raw Sewage Settream is under operation	
Sq-10	22.28	23.0	27	1390	7.5	408	185	276	27	816	7.9	88	20	29	-		W.	Z STREAM IS UNDER OPERATION	
-6q-38	18.65	19.0	27	1419	7.5	512	180	315	27	953	7.9	104	24	31	-	10	K	2 STREAM IS UNDER OPERATION	
Sep-20	19.64	20.0	27	1343	7.5	440	160	294	27	829	7.9				14	-		Found Dive color in Raw Sewace	
				DENESON.	100		100			-	Carlo	96	12	27	17.			2 STREAM IS UNDER OPERATION	
Sep-30	16.83	17.0	27	1218	7.5	336	场	243	27	801	7.9	80	21	25	18			2 STREAM IS UNDER OPERATION Found Dive color in Raw Sevace	
ANG	645.39 21.51	21.67	28	1364	7.5	458.6	161.7	294.6	28	875	7.9	04.7	20.0			26	18		
			- FOOTH					77777				96.5 21,22,25,28 Sept	22.6	29.4	LT				



ANNEXURE 8: Test Result of Joint Sampling Report of Treated Effluent (Sajari)







TEST REPORT

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

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Report No. K200903006/K200903006-10

ID- K200903006-1

Date of start of testing: 28.07.2020 Date of completion of testing: 04.08.2020

Sl. No.	Test Parameter	Test Parameter Observed Value					
1.	Total Suspended Solids, mg/l	27	IS:3025(P-15)-1984 (RA-2019)				
2.	C.O.D, mg/l	91	IS:3025(P-58)-2006 (RA-2017)				
3.	B.O.D (5 days) at 20°C, mg/l	21	APHA 5210-B (23rd Edition): 2017				

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



- End of Test Report -

Analyst Signature

Authorised Signatory

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

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



Annexure 9: Site Inspection Report for the Month of Sept. 20 (Sajari)

Inspection report of 42 MLD STP, Sajari

Inspected on date 02-09-2020 Following were present,

- 1. Mr. Lokesh Khandelwal, Support Site Supervisor, STC
- 2. Mr. Linga Krishna Rao, Safety Expert, STC
- 3. Mr. Ram Khilawan, lab Chemist, KRMPL

Observation

- 1. Collection chamber
- 1 no. of Manual screen is in working condition.
- 2 no's of Mechanical screens are in working but one screen is not satisfactory in working due to proper alignment. Auto system of both mechanical screens are not rectified.
- 2. Main Pumping Station
- All 5 nos. sewage transfer pumps are checked and found in working condition.
- EOT crane (5T) is found well and all movements activates are working.
- Out of 5 no's pressure gauges are installed, 1no. Gauge is not working. Display glass
 of all pressure gauges to be changed with glasses for proper visibility.
- Platform already provided at location for operating gauges.
- 3. Inlet Chamber
- 1 no. of Manual screen is working.
- 2 no's of Mechanical fine screens are in working condition.
- Auto systems of both mechanical screens are not rectified.
- 4. Grit Separator
- 2 no's of Mechanical grit removal system are working.
- Screen control panel was found in rusted condition.
- 5. Primary clarifier
- 2 no's of Primary clarifier mechanism are working.
- 6. Aeration system
- 12 no's of aerators are working during our visit.
- 7. Secondary clarifier
- 2 no's of Secondary clarifier mechanism are working.
- 8. Chlorination system
- Chlorination system has been found ok and dosing of chlorine was providing 3.5
 kg/hour
- 9. On-Line Monitor System
- Inlet Analyser panel with censer installed at site. It has not been synchronised with RTOLMS. Analyser results are found at site (PH-7.63, COD-242 mg/l, BOD-121 mg/l, TSS- 165 mg/l).



 Out let Analyser panel with censer installed at site. It has not been synchronised with RTOLMS. Analyser results are found at site (PH-7.84, COD-76.9 mg/l, BOD-22.3 mg/l, TSS-6 mg/l).

Primary Sludge pump

2 no's of screw pump both are checked ok in running.

11. Thickener Sludge pump

Out of 2 no's of screw pump, both are checked ok in running.

12. Return Sludge pump

- 3 no's of submersible pump are in working condition.
- 1no. pressure gauge is not working. Display glass of all pressure gauges to be changed with glasses for proper visibility.
- Manual chain pulley system provided at site.

13. Digester

- Both of Sludge digester mixer are in working condition
- EFM at outlet of digester was installed, but not working due to calibration.

14. Gas Holder/Gas Scrubber/Gas flaring units

- 3 no's of Gas engine installation. Gas engine not working now, KRMPL told that GGE
 the manufacturer representative has suggested to overhauling of all the gas engines
 to be carried out. From KRMPL side there is no regular operator for the Gas
 generators.
- Out of 6 no's of battery, 2 no's are in working condition in gas gen sets.

15. Power Back-up To DG Set

DG set has been procured, installed and put to use under trial run.

16. Miscellaneous

- Painting of the outer civil structural's and hand railing in walkways & ladders have to be carried out.
- Plant area housekeeping and grass cutting work are in progress.
- Treated water colour is showing as a reddish (light pink) colour.
- The dried sludge removed at sludge drying bed no. 1 in month of august and disposed at located site near sanigawan with in 10 KM. from STP Plant. One tractortrolley has been used to disposal of sludge. Totally 22 nos. Trolley sludge disposed in the month of august. Each trolley weight is not mentioned in the record. In this month drying bed no. 3 is used as sludge filling.
- Staff attendance register is not found at site office.

16. Safety Points

- Gas unit area workers sleeping and storing their PPE's and uniforms. KRMPL must require providing rest room for workers.
- Some of the workers not using safety shoes, nose masks while working in the plant.
- Chlorine Self Contained Breathing Apparatus (SCBA) not in working condition. It is required to arrange immediately at work site for meeting chlorine emergency.



- Chlorine gas mock drills to be conducted at site once in 3 months.
- Chlorine neutralisation system is not in working condition.
- 1 no. of safety shower has been installed and found in working condition.
- Chlorine Self Contained breathing apparatus (SCBA) is not in working condition. In case of chlorine leak it is very difficult to control it. So the KRMPL must arrange a new SCBA immediately.
- At Electrical panel room back side rubber mats to be arranged in safety point of view. In this area good house-keeping to be maintained.
- EOT crane chain pulleys and chain blocks third party testing and certification is to be get it done.

Lokesh Khandelwal (Civil)

Supt. Engr.

Linga Krishna Rao Safety expert

