

**Ref.** STC/ PE/ KNP/2154 / Shuklaganj**Date:** 22/01/2024**To,**Superintending Engineer  
3<sup>rd</sup> Circle  
UP Jal Nigam (Rural)  
Lucknow**Sub:** **HAM Kanpur:** PE Inspection Report dated 06/01/2024 for 5 MLD STP Shuklaganj

Dear Sir,

With reference to the above said subject; inspection report of 05 MLD Shuklaganj for the month of January 2024 is attached herewith for your information.

Yours truly,



(Anil Kumar Seth)

TL-In charge, STC Kanpur

Copy to the following for information and necessary action:

1. Mr. R. K. Gupta, SWMS, NMCG, New Delhi
2. Ms. Nidhi Dwivedi, Technical Officer, NMCG, New Delhi
3. Chief Engineer, Ganga UP Jal Nigam (Rural), Lucknow
4. PM (E&M), 13<sup>th</sup> Div, UP Jal Nigam(Rural), Lucknow
5. Project Manager Kanpur River Management Pvt. Ltd., Kanpur

## SITE INSPECTION REPORT - 05 MLD STP AT SHUKLAGANJ

Date of site Inspection	06/01/2024
STC Site Inspection team	Mr. Anil Kr. Seth – TL (I/C) STC Kanpur Mr. Indra Deo pandey - Supp. Engg. STC Kanpur
KRMPL Personal	Mr. Rajpal Singh Construction Manager KRMPL Mr. Avanish Tripathi QA/QC KRMPL

### 1. Specific Points related to the site inspection

- i. Total of manpower / workers were deployed at the site as reported by KRMPL:

SN	Particular	No. of workers
i.	Skilled	8
ii.	Unskilled	24
	<b>Total</b>	<b>32</b>

- ii. Despite directions given during several NMCG meetings, manpower has not been increased by KRMPL. There is acute shortage of manpower at the Shuklaganj STP since long time. During inspection NO manpower was found on the site and work was found totally stopped.
- iii. During visit, progress of different STP components was checked as per the approved construction plan and it was found that progress of 05 MLD STP is very slow. Total progress was found 75.5%.
- iv. Till date only 6 milestones out of total 8 have been completed.

v. Progress (Civil) of different STP components as per milestone are as following:

SN	STP Units	Target Progress till June 2023	Actual progress till Jan 2024
1.	I&D structure	100%	55%
2.	Sewer Laying	100%	0%
3.	Manholes	100%	0%
4.	Rising Main	100%	0%
5.	MPS	100%	75%
6.	PTU	100%	50%
7.	SBR	100%	83%
8.	Air Blower	100%	45%
9.	CCT	100%	85%
10.	Chlorination Room	100%	85%
11.	Supernatant Sump	100%	80%
12.	Sludge Thickener	100%	85%
13.	Centrifuge Building	100%	30%
14.	Effluent Disposal System	100%	10%
15.	Admin Building	100%	50%
16.	Staff Quarter	100%	80%
17.	Guard Room	100%	80%
18.	Transformer Yard Area	100%	75%
19.	DG Shed Area	100%	80%
20.	Sludge Storage Platform	100%	15%
21.	Boundary Wall	100%	55%

2. During visits, some issues in construction and quality works of Different units were observed by STC which are as following:

- i. **I&D Structure:** Work of I&D is very slow. Till date only PCC and raft work has been done, reinforcement work of wall in progress. It is to be noted that safety precautions are not followed by KRMPL. Excavated sites should be fully covered by hard barricading.



- ii. **Sewer System:** KRMPL (900mm dia) 85% laid out of sewer line without Approval Drawing and design, Ref letter STC letter no 1652 and UPJN letter.

- iii. **Main Pumping Station (MPS):** At inlet chamber, step arrangement and proper footrest have not been provided. MPS wall casting up to base slab done and cleaning in progress. KRMPL needs to do hydro testing with clear water as per CEPHEEO MANUAL and IS code 3370 in presence of UPJN & STC, before grinding and tar coal epoxy work.



**MPS wall casting work done**

- iv. **Primary treatment unit (PTU):** Alignment of most of the Columns is not straight, bulged twisted & not in Plum bob, improper covers provided, top of Column wrongly smoothly finished & Column edges bend. Most of Steel is corroded. PTU, Column work completed and slab shuttering and reinforcement work in progress.

Slab Shuttering work – 60%

Grit Chamber – 100%

Channel Slab - 90%



**v. Sequence batch reactor (SBR):**

- SBR outlet channel wall casting completed.
- Slab shuttering works R/F work completed, casting pending;
- Walkway one side completed, one side pending.
- Connecting channel balance
- Decanter foundations are pending.
- Column and beam pending for RAS and SAS pumps.
- KRMPL has not used proper shuttering arrangement. Clear cover is not exactly as per design. Due to use of wide range of cover blocks casting of wall by the Concessionaire is not proper. KRMPL also do not use vibrator frequently at the time of casting due to which at some locations honey combing occurred. KRMPL has been instructed to rectify these issues and use vibrator in regular practice.

**SBR and Admin building cum blower room**



- vi. CCT & Building:** Brick work and plaster is almost completed in Chlorination building and finishing work is pending.



**vii. Administration Building cum Air blower:**

- In Admin building cum Air blower foundation completed.
- Hand railing work in progress.
- Slab for first floor staging material arrived at plant.
- Most of the Column's alignment is not straight, bulged twisted & not in Plum bob. Improper covers provided, top of Column wrongly finished & Column edges are found bend. Most of the Steel is corroded. KRMPL has been instructed to rectify these issues without delay and comply with the standard practices for workmanship and finishing.



**Administration Building cum Air blower**

**Sludge Thickener & Supernatant Sump:** Concrete work completed almost one year ago for Sludge thickener & supernatant Sump. UPJN/STC instructed many time for Hydro test but KRMPL did not conduct hydro test till date. KRMPL need to arrange hydro test according to IS code 3370 in presence of UPJN/STC. There is no manpower.



**Supernatant Sump, Hydro test pending**



**Sludge Thickener, Hydro test pending**

**viii. Staff Quarter:** Plaster work completed finishing and painting work pending.



**ix. DG set Foundation, Transformer area & VCB Panel room:**

- RCC work completed for DG and transformer foundation finishing works pending.



### 3. General Points related to the site

- i. Excavation of soil was done for the Construction of SBR/Staff quarters/Administrative building. To increase of the soil bearing capacity layers of sand and morum etc., was pressed with roller.
- ii. Hard barricading around the excavated structures completely not provided which may lead to unwarranted mishap.
- iii. Around excavated MPR, SBR and along with excavated units hard barricading is urgently needed. IS 3764: 1992, IS 7323: 1994
- iv. Number of Site safety slogan boards and caution boards display are to be increased in different places of site area like: DANGER-DEEP EXCAVATION, MEN AT WORK, ELECTRICAL HAZARD, ASSEMBLY POINT, SITE ENTRANCE MAIN BOARD, FIRE EXTINGUISHER, FIRE POINT, and EMERGENCY TELEPHONE NOS. etc. IS 3764 -1992, IS 1642: 1989. IS 9457; 1980.

### Electro Mechanical Works

1. **Power** is not available which need to be expedited.
2. **Metering Room** Layout done, Excavation in progress.
3. **D.G. Set** has come at site, Foundation completed
4. **Transformers** 2 nos placed on the foundation only. Earthing to be done.
5. **Conduit work** Conduit laying completed in CCT , guard room and staff quarter. Wires are to be laid in conduits except guard room.

6. **Material** Cable, Decanter, SAS & RAS pumps Submersible pumps of MPS, Mechanical pipes reported to be available at site. Poles light fixtures supply completed and stored at Unnao store.
7. **Blower** Foundation of blowers completed.
8. **Sludge Thickener** Bridge installed. Weir plate installed, balance work pending.
9. **Inlet Chamber** Valve gate installation is in progress.
10. All earthing material wires, cables, HT panel, etc are available as informed.
11. Railing work was in progress. In CCT building work completed In admin building work of fitting railing is in progress.
12. Gate of MPS installed. Shaft to be connected
13. Thickener work to start from 12/01/24 and expected to be completed 22/01/24.

**Man power be increased to expedite the work which is very slow.**

