

## SITE INSPECTION REPORT-05MLD STPATSHUKLAGANJ

Date of site inspection	30/12/2023
STC Site Inspection team	Mr. Anil Kr. Seth – TL(I/c) STC Kanpur Mr. Indra Deopandey – Supp. Engg. STC Kanpur
KRMPL Personal	Mr. Vijay Jadhav – Construction Manager KRMPL Mr. Vimlendu Bhushan – Safety 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	1
ii.	Unskilled	2
	<b>Total</b>	<b>3</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)ofdifferentSTPcomponentsaspermilestoneareas following:

SN	STP Units	TargetProgresstillJune 2023	ActualprogresstillNov 2023
1.	I&Dstructure	100%	52%
2.	Sewer Laying	100%	0%
3.	Manholes	100%	0%
4.	RisingMain	100%	0%
5.	MPS	100%	75%
6.	PTU	100%	50%
7.	SBR	100%	80%
8.	Air Blower	100%	45%
9.	CCT	100%	85%
10.	ChlorinationRoom	100%	85%
11.	SupernatantSump	100%	80%
12.	SludgeThickener	100%	85%
13.	CentrifugeBuilding	100%	30%
14.	EffluentDisposalSystem	100%	10%
15.	AdminBuilding	100%	50%
16.	StaffQuarter	100%	80%
17.	GuardRoom	100%	80%
18.	TransformerYardArea	100%	75%
19.	DGShedArea	100%	80%
20.	SludgeStoragePlatform	100%	15%
21.	BoundaryWall	100%	55%

2. During visits, some issues in construction and quality works of Different units wereobserved 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.It istobe noted thatsafetyprecautionsare notfollowed byKRMPL.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 CEPHEO 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. Sequencebatchreactor(SBR):**

- SBRoutletchannelwallcastingcompleted.
- SlabshutteringworksR/Fworkcompleted,castingpending;
- Walkwayonesidecompleted,onesidepending.
- KRMPL has not used proper shutteringarrangement. 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 timeof casting dueto which at some locations honey combing occurred. KRMPL has been instructed to rectify these issues and use vibrator in regular practice.

**SBRandAdminbuildingcumblowerroom**



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



**vii. AdministrationBuildingcumAirblower:**

- InAdminbuildingcumAirblowerfoundationcompleted.
- Slabforfirstfloorstagingmaterialarrivedatplant.
- Most of the Column's alignment is not straight, bulged twisted & not in Plum bob.Impropercoversprovided,topofColumnwronglyfinished&Columnedges arefoundbend.MostoftheSteeliscorroded.KRMPLhasbeeninstructedto



rectify these issues without delay and comply with the standard practices for workmanship and finishing.



**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.



**Supernatant Sump, Hydro test pending**



**Sludge Thickener, Hydrotest pending**

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



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

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





### **3. GeneralPointsrelatedtothesite**

- 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, FIREPOINT, and EMERGENCY TELEPHONE NOS. etc. IS 3764 -1992, IS 1642: 1989. IS 9457; 1980.

### **ElectroMechanical Works**

1. **Power** is not available which needs to be expedited.
2. **Metering Room** Layout done, Excavation in progress.
3. **D.G. Set** has come at site, Foundation completed
4. **Transformers** have come at site, foundation completed
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.

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