



पत्रांक:

306/M-15A/15

दिनांक: 20/5/2022

**Inspection Note**

Inspection of 130 MLD & 43 MLD IPSs and STP Jajmau facilities was done by UPJN, STC and KRMPL team dated 05.05.2022.

Following UPJN, STC & KRMPL officials were present.

1. Mr. Gyanendra Choudhary, (PM-1, UPJN Kanpur)
2. Mr. Brajesh Mourya (A.E-Civil,UPJN Kanpur)
3. Mr. J.P Tripathi (O&M expert, STC Kanpur)
4. Mr. Anuj Kushwaha, STC Kanpur (Support Engineer- Civil)
5. Mr. Rahul Sarwan, STC Kanpur (Support Engineer-Electrical).
6. Mr. Anirban Mukhurjee, O&M in charge, KRMPL Kanpur
7. Mr. Akshay Tripathi, Process Expert, KRMPL Kanpur

Some major issues which are pending from long back are highlighted below for IPSs and STPs facilities:-

• **Parmiya IPS:-**

1. Over flow condition at Parmiya IPS.
2. Both mechanical screen and conveyor belt found non-operational at the time of inspection. It was started when asked by UPJN/STC representative. This is false practice and it is not acceptable.
3. Auto starter for DG set needs to be installed by KRMPL.
4. Raw sewage pump no. 1 is not in working condition.
5. RTOLMS needs to be installed by KRMPL.
6. KRMPL has arranged sub- contractors (Supervisors, Operators and sweepers) from vendor "**ACHME**". KRMPL need to take necessary approval From UPJN as per CA Article 8.3(a) and (b).Supervisors, Operators taken by Vendors and they are not suitably skilled and relevant experiences.
7. Level sensors are non-operational since handover for Parmiya IPS.
8. Raw sewage pump no. 3 needs to be repaired on Parmiya IPS.
9. Calibration of instrumentation needs to be done on Parmiya IPS.
10. Refilling of fire exhauster has not done by KRMPL.
11. Sand buckets were not available at site.
12. Material Inward and outward registers has not maintained properly by KRMPL.
13. Log book of pumps and DG set are not being maintained by KRMPL.
14. Diesel quantity record of DG set was not available at site.
15. KRMPL has not arranged adequate number of staff (Operators, Sweepers and relievers) for proper O&M of IPS and attendance register manipulated staff details.

• **Shishamau IPS:-**

1. Mechanical screen No.01 & 02 and panel needs to be repaired for Shishamau IPS.
2. Auto starter for DG set needs to be installed by KRMPL.
3. KRMPL has arranged sub- contractors (Supervisors, Operators and sweepers) from vendor "**ACHME**". KRMPL need to take necessary approval From UPJN as per CA Article 8.3(a) and (b).Supervisors, Operators taken by Vendors and they are not suitably skilled and relevant experiences.
4. RTOLMS needs to be installed by KRMPL.
5. CCTV cameras need to be installed at all sites.
6. Calibration of flow meter is still pending.
7. Raw sewage pump no.05 is under maintenance since 19.04.2022.KRMPL needs to repair pump on urgent basis.

8. Panels, Voltmeter and Ammeters are not in working condition.
9. Material Inward and outward registers has not maintained properly by KRMPL.
10. KRMPL is not being maintained flow records from flow meter.
11. Log book of pumps and DG set are not being maintained by KRMPL.
12. Diesel quantity record of DG set was not available at site.
13. KRMPL has not arranged adequate number of staff (Operators, Sweepers and relievers) for proper O&M of IPS and attendance register manipulated staff details.

• **Nawabganj IPS:-**

1. Overflow condition found during inspection.
2. All Pumps need to be replaced of pump house No.1 under renovation.
3. KRMPL has arranged sub- contractors (Supervisors, Operators and sweepers) from vendor
4. "**ACHME**". KRMPL need to take necessary approval From UPJN as per CA Article 8.3(a) and (b).Supervisors, Operators taken by Vendors and they are not suitably skilled and relevant experiences.
5. Auto starter for DG set needs to be installed by KRMPL.
6. RTOLMS needs to be installed by KRMPL.
7. All Pumps need to be replaced of pump house No.2 under renovation.
8. Raw sewage pumps, 3 Nos. of Pump House No. 2 were damaged due to flooding on 18.01.2022. They were refurbished/ repaired and delivered to site on 15.02.2022. Raw sewage pumps and motors of Pump house No. 2 were found at site. KRMPL has supplied partially valves on 08.04.2022. KRMPL has not installed them yet.
9. Flow meter needs to install at site by KRMPL.
10. Diesel quantity record of DG set was not available at site.
11. KRMPL needs to installed auto switch system.
12. Panels, Voltmeter and Ammeters are not in working condition.
13. Material Inward and outward registers has not maintained properly by KRMPL.
14. Log book of pumps and DG set are not being maintained by KRMPL.
15. KRMPL has not arranged adequate number of staff (Operators, Sweepers and relievers) for proper O&M of IPS and attendance register manipulated staff details.

• **Parmat IPS:-**

1. In pump house 02, pump no. 1 and 3 found non-operational.
2. During site visit of ED (T) on 12.04.2022 at Jajmau campus it was directed to UPJN to conduct a joint survey plan with Jal Kal, KRMPL and STC team for clarified interconnected pipelines for renovate pup house no. 03.
3. KRMPL has arranged sub- contractors (Supervisors, Operators and sweepers) from vendor "**ACHME**". KRMPL need to take necessary approval From UPJN as per CA Article 8.3(a) and (b).Supervisors, Operators taken by Vendors and they are not suitably skilled and relevant experiences.
4. KRMPL needs to installed auto switch system.
5. Balance civil renovation work need to be done by KRMPL.
6. During site visit of ED (T), KRMPL was instructed to install flow meter at site.
7. Log book of pumps and DG set are not being maintained by KRMPL.
8. Panels, Voltmeter and Ammeters are not in working condition.
9. Material Inward and outward registers has not maintained properly by KRMPL.
10. KRMPL has not arranged adequate nos. of staff (Operators, Sweepers and relievers) for proper O&M of IPS and attendance register manipulated staff attendance details.

• **Baba Ghat IPS:-**

1. During site visit of ED (T) on 12.04.2022 it was directed to KRMPL to install flow meter at site at earliest but KRMPL has not taken any action.
2. Material Inward and outward registers has not maintained properly by KRMPL.
3. KRMPL has arranged sub- contractors (Supervisors, Operators and sweepers) from vendor

**"ACHME"**. KRMPL need to take necessary approval From UPJN as per CA Article 8.3(a) and (b).Supervisors, Operators taken by Vendors and they are not suitably skilled and relevant experiences.

4. Log book of pumps and DG set are not being maintained by KRMPL.
5. KRMPL has not arranged adequate number of staff (Operators, Sweepers and relievers) for proper O&M of IPS and attendance register manipulated staff details.

• **Guptar Ghat IPS:-**

1. Both mechanical screen and conveyor belt found non-operational at the time of inspection. Only mechanical screens were started when asked by UPJN/STC representative. Chain of conveyor belt was not available. This is false practice and it is not acceptable.
2. Balance civil renovation work need to be done by KRMPL.
3. KRMPL has arranged sub- contractors (Supervisors, Operators and sweepers) from vendor "**ACHME**". KRMPL need to take necessary approval From UPJN as per CA Article 8.3(a) and (b).Supervisors, Operators taken by Vendors and they are not suitably skilled and relevant experiences.
4. Flow meter found non-functional during site visit.
5. DG set found non-functional at the time of inspection.
6. Diesel stock drum was also not available at site.
7. Damaged handrails has not replaced by KRMPL yet.
8. Log book of pumps and DG set are not being maintained by KRMPL.
9. Material Inward and outward registers has not maintained properly by KRMPL.
10. KRMPL has not arranged adequate nos. of staff (Operators, Sweepers and relievers) for proper O&M of IPS and attendance register manipulated staff attendance details

• **130 MLD STP Jajmau Plant:-**

1. Adequate power backup needs to be arranged by KRMPL for proper operation of plant during shutdown of Power.
11. During site visit of PE and UPJN official in October 2021 found tooth of Mechanical screen no.1 found damaged.PE mentioned in their inspection report issued vide PE letter no. 1230 dated 30.10.2021. KRMPL did not take any rectification work .ED (T) instructed to KRMPL to repair the mechanical screen no. 1 within 7 days. KRMPL has installed a manual bar screen instead mechanical bar screen on 19.04.2022 that is not acceptable by PE & UPJN.KRMPL needs to install mechanical fine bar screen at earliest. Both mechanical screen and conveyor belt found non-operational at the time of inspection. It was started when asked by UPJN/STC representative. This is false practice and it is not acceptable.
2. KRMPL has not arranged operator, sweepers for primary treatment unit at site.
3. ED(T) instructed KRMPL to raise the top lift RCC wall 900mm from N.G.L of sludge thickener01, 02, Primary sedimentation tank 01,02 &03 and final sedimentation tank 01,02 and 03 and after handrails needs to be install but KRMPL has not started the work.
4. ED (T) instructed to KRMPL to install flow meter at each specified locations. KRMPL was instructed to submit QAP and technical data sheet by 18.04.2022 but no action has been taken by KRMPL yet.
5. ED (T) instructed KRMPL during renovation work of replacement of pumps, associated valves and instrumentation needs to be replaced. KRMPL has not taken necessary action.
6. Grit classifier no.01, 02 and 03 needs to be repaired.
7. New Organic pumps 01, 02 and 03 are non-operational due to cable termination work.
8. In PST 01, only plastering work has been started by KRMPL on 25.03.2022, remaining renovation work should be complete on 15.05.2022.
9. Primary sludge wastage from Primary sedimentation tank 02 and 03 are not adequate due to which excessive gas bubbles were found on the surface of the clarifier.
10. Garbage, grit quantity and sludge are not being disposing of at the location decided by UPJN.

11. During site inspection, out of 18 aerators nos. 08, 10 and 12 were found non-functional. 6 Nos. of new aerators should be installed by 15.05.2022.
12. Cable trays have not fixed properly on platform of aeration tank.
13. Sludge cleaning work of FST 01 has been started by KRMPL on 02.04.2022 only. Renovation work needs to be complete within 10.05.2022.
14. Out of 4 Nos. RSPH pumps nos. 1 and 3 are not in working condition.
15. Cable laying work near RSPH pump house has not done.
16. Internal electrification work in RSPH pump house has not started by KRMPL.
17. Out of 11 Nos. of TEPH pumps Nos. 02, 07 and 11 are found non-operational. Balance new TEPH pumps needs to arranged and installed by KRMPL.
18. Utilities shifting work has not started by KRMPL before stated the execution work of new TEPH and CCT facilities.
19. ED(T) directed KRMPL to commission Sludge thickener 02 & blending tank by 13.04.2022 but KRMPL did not submit compliance on PE observations vide PE letter no. 1558 dated 14.04.2022. KRMPL has not complied the PE observations till date.
20. Sludge thickener 01 needs to be commissioned by 15.05.2022 after completing all renovation works.
21. Digested sludge pumps need to be replaced as approved renovation plan.
22. Primary Sludge digester no 1, 02, Secondary sludge digester, Gas holder tank 01 and 02 needs to be renovated at earliest as per approved renovation plan.
23. Centrifuge building needs to be renovated as per plan.
24. DSPH pumps needs to be replaced as per approved renovation plan.
25. ED (T) instructed KRMPL to avoid sludge recirculation process by usages of sludge drying beds. KRMPL needs to submit all sludge disposal quantity with proper documents within 15 days.
26. Approach roads, pathways between units are to be repair / renovation and Landscaping works to be done.
27. KRMPL has arranged sub- contractors (Supervisors, Operators and sweepers) from vendor "**ACHME**". KRMPL need to take necessary approval From UPJN as per CA Article 8.3(a) and (b). Supervisors, Operators taken by Vendors and they are not suitably skilled and relevant experiences
  - **43 MLD STP Jajmau phase-II facilities:-**
    1. Auto system of mechanical screen needs to be installed at 43 MLD STP Jajmau.
    2. ED (T) instructed to KRMPL to arrange temporary chlorination system to control fecal coli form in prescribed limit for 43 MLD STP Phase –II Jajmau. KRMPL has not arranged temporary chlorination system at site.
    3. Both mechanical screen and conveyor belt found non-operational at the time of inspection. It was started when asked by UPJN/STC representative. No operator & sweeper were available at site during site visit of UPJN and PE officials. This is false practice and it is not acceptable.
    4. Grit classifier system need to be operational properly at 43 MLD STP Jajmau.
    5. V-Notches/Weir plates were not available in Grit chamber.
    6. Primary sludge wastage is not adequate due to which excessive gas bubbles were found on the surface of the clarifier.
    7. Power backup for Flow meter need to be installed at 43 MLD STP Jajmau.
    8. KRMPL has not fixed open channel flow meter properly.
    9. In Parshall flume, flow level scales are needs to be paint.

10. The sludge thickener operation needs immediate attention since the supernatant from the thickener is discharging heavy solids into the PST inlet distribution chambers overloading the PST system.
11. The sludge digester taken offline since handover dated 25.08.2022 and it was found that the sludge is being diverted to sludge holding ponds which are already at its brim.
12. Air blower no. 2 needs to repair on urgent basis.
13. In RSPH, waste activated sludge pump no. 3 & 4 needs to be repair on urgent basis.
14. RTLOMS needs to be arrange by KRMP
15. All pumps required hour meter.
16. Deployment of adequate nos. of staff, well qualified and experienced for STP.
17. KRMP has arranged sub- contractors (Supervisors, Operators and sweepers) from vendor "ACHME". KRMP need to take necessary approval From UPJN as per CA Article 8.3(a) and (b).Supervisors, Operators taken by Vendors and they are not suitably skilled and relevant experiences.
18. TEPH pump no.2 needs to be repair on urgent basis.
19. Approach roads, Access ways between units are to be repair / renovation and Landscaping works to be done.
20. TSPH pumps no. 1& 2 needs to be repaired.

(G.K. Chaudhary)  
Project Manager

Copy to the following for information and necessary action (By E-mail) -

1. APD, SMCG-UP, Lucknow.
2. Chief Engineer (K.Z.), UP Jal Nigam(Rural) Kanpur.
3. SE, Circle Office, UP Jal Nigam(Rural), Kanpur.
4. Project Manager-(E&M), GPCU, UP Jal Nigam(Rural) Kanpur.
5. PE, STC, NMCG, Kanpur.
6. M/s KRMP, Kanpur for compliance accordingly.

  
Project Manager

5/5