

Joint inspection of Jajmau 130 MLD STP dated 25.07.24

Common Points- Hand railing painting, installation of anti skid tiles on platforms/walkways of all units, approach road for units, repair of painted surface in building and land scaping & plantation in the campus is pending.

Inlet Unit- Replacement of structural shade is pending. Concrete platform with 3 side curtain for storage of screening material is pending. Screening material dump on site without laying LDPE sheet and disposal on regular basis are pending. Inlet Screen level sensor kit, display and transmitter installation work is pending. Conveyer belt properly fixing work are pending.

Grit Unit- Replacement of structural shade is pending. Hand trolley arrangement needed. Cleaning and dressing of grit unit area and concrete platform with 3 side curtain for storage of grit material is pending. Organic pump no. 3 is under maintenance. All classifier unit torque switch not working condition. Grit mechanism unit MCB switch and alarm not fixing properly.

Panel Room- Building renovation is Incomplete. Cable trench cover slab damage, Panel room window, drainage pipe & door glass need to be changed. Painting & approach road work is pending. Drainage pipe replacement works are pending.

Distribution chamber- epoxy coating on bottom portion is pending, inside renovation work is pending. Inside renovation work are pending

PST-

1- Sludge chamber to thickener common sludge line needs to be rehabilitated.

2- PST-1 Primary classifier central drive had been broken KRMPL used old central drive which already used before renovation.

3- PST bridge painting, PST load Cell & display not working.

Aeration tank-

1- Erection of hand railing at some points and minor repair are balance.

RSPH-

1- RSPH building door & window replacement/cleaning is pending.

2- RSPH painting work, flooring works are pending.

3- Wring, cleaning & cable trench cleaning works are pending.

TEPH Panel Room-

1- Door, window, painting, wiring and gate replacement works are pending.

New TEPH-

1- Door, window, painting, floor work, finishing work wiring & gate installation are pending.

2- Thrust block and concrete encasing in effluent pipe line are pending.

3- Flooring, finishing and site development work are pending.

Gas engine room- Window glass replacement, door, painting is balance.

Ventilation Room-

Water tank painting, Brick Work, plastering, finishing & roof treatment works are pending.

HT/LT Panel Room-

1- Door, window, installation, flooring, wiring, roof treatment, painting & approach road works are pending.

Flaring unit- Gas pipe line laying is pending.

Chimney- Painting work pending.

Scrubber unit- Shade work & pipe line pending.

Gas holder 1- Base painting is pending.

Gas Holder 2- Foundation & base painting works are pending.

Secondary Digester- 40% sludge cleaning work and rehabilitation are pending.

Digester 1- 25% cleaning, painting, MS plate, sludge valve, inspection chamber glass & hand railing painting works are pending.

Digester 2- Wall dome painting, heat exchanger foundation shade, Recirculation pump installation & outlet gas pipeline works are pending. Heat exchanger foundation costing work completed.

DSPH- window glass replacement & wiring works are pending.

TSPH- 1- window glass replacement & wiring works are pending. Door, window, installation, flooring, staircase finishing wiring and painting approach works are pending.

2- Pump no.2 is under maintenance from last four months. Sludge mixer has been not works properly/

BFP Building-

1- Chute painting, brick Work, finishing, drainage system, sludge storage platform & approach road works are pending.

2- One no. Bore well and appurtenant works are pending.

Major Critical Issues:-

1- The supplied mechanical screens are not working properly from day one. The jaws of the screen gets damage on very frequent basis, they are misaligned, unequally spaced and easily breakable. These all reasons contribute to the non efficient working of mechanical screens. These mechanical screens(3 nos) has been designed for full discharge & a manual bar screen for standby arrangement is provisioned but usually concessionaire takes discharge in both mechanical screen as well as in manual screen. This reflects the non efficiency of mechanical screens. **During inspection it was found that chain of 1 no screen broken so it was U/M since 20.06.24**

2- Screw classifier in grit unit is not working properly as the solid and liquid segregation is not proper. The quantity of grit removed is only 15 to 20% as compared to the designed quantity. Therefore due to the non removal of grit in this unit, it flows to forward units. **ORP pump no -3 in U/M since 23/04/24.**

3- The installed flow meter has not been calibrated, frequently it stops working.

4- The newly installed Scum removal arrangement is acting as a dummy system from day One. A thick layer of scum usually floats on the surface of all 3 PSTs, no scum can be seen floating and carrying by scum carrier blade in to the scum box. This is further withdrawn by concessionaire by manual labour that indicates non working of scum removal system.

5- The work in sludge handling unit is very slow.

i- The installed supernatant pumps is problematic, concessionaire has not attended the problem in operation of supernatant pumps which hinders the whole sludge withdrawal process as the thickeners has not made operational on proper basis after its renovation.

ii- Cleaning of digester no. 1 has not been completed. The landia system in this digester is pending, 50% work is laying of outlet sludge line, installation of recirculation pump and associated works are pending.

iii- The installed 4 BFPs are not running efficiently. Log book of 4 BFPs which are running on intermittent basis since installation clearly indicates the operational problem. It stayed non operational from more than Six months period after the installation before 1 years. During operational the avg. total running of BFP is 11 to 12 Hrs. the extracted quantity of sludge is not as per design calculations, the solid consistency yet has not been checked. During visit it was also found that BFP 1 & 2 U/M.

iv- As per service engineer of Procta BFP feed pump is design for 6% sludge consistency and 14M³ per hrs pumping capacity but actual sludge consistency is 9.90%, this reason for non functional properly.

6- Replacement of various sluice valves and gates are pending.

7- The Old TEPH is still being operated, the New TEPH is not running as a independent new system. Shifting of 3 no. pumps from old TEPH is pending and isolation of rising main is yet to be done. Level sensor and flow meter installation is pending.

8- Chlorination system is not operational on continuous basis and concessionaire has not started testing of samples for fecal coliform.

9- The Electrification system of the plant is compromised. Electrical breakdown at campus is frequent which creates a major issue in operational work. The New DG sets has not been supplied at site, the available DGs at site do not run on the requirement due to various issues like unavailability of fuel, DG issues etc.

10- Lab has not been commissioned and chemist & attendant is working but analysis work has not been started so far. Log book of parameter is not being maintained properly. Sludge record is also not maintained by KRMPL.

11- TSPH pumps no 1, 2 & 3 are operational but 4 no pump U/M since 4 month.

12- Blending tank U/M since 24.07.24

13- During the visit whole chlorination system was shut down.

14- In TEPH sump by pass gate no- 2 installation pending.

15- Aerator no 7 & 14 U/M

16- Screening and grit material is being collected without installing LDPE sheet.

17- During the visit it was observed that the level of overflow wall of CCT was above the invert level of outlet channel of FST.