

SITE INSPECTION REPROT

PANKHA 30 MLD STP

Date of Inspection	08/01/2022
PE Inspection Team & KRMPL Personnel	Mr. Sunil Basutkar – Mechanical Expert, STC Kanpur Mr. Rohit Suman-Support Engineer-Mechanical, STC Kanpur Mr. Rahul- Support Engineer- Electrical, STC Kanpur Mr. Satendra Sharma - Support Engineer- Civil, STC Kanpur ----- Mr. Shawaz - Mechanical Engineer Mr. Raman Kundu – Electrical Engineer, KRMPL Kanpur
LOCATION	STP 30 MLD PANKHA

Mechanical Observations are as follows: -

Following are the observations of PE against the RFI raised by KRMPL dated 05.01.2020

1. Manual Screen (I&D Thermal Nala A):

- Installation of manual screen was not found as per the drawing, the differences as under;
- Anchor fasteners were found missing at several places.
- Upper section of the manual screen was found approx 1 ft. above RCC slab which should suppose to fix at the level of RCC slab for proper fixing.



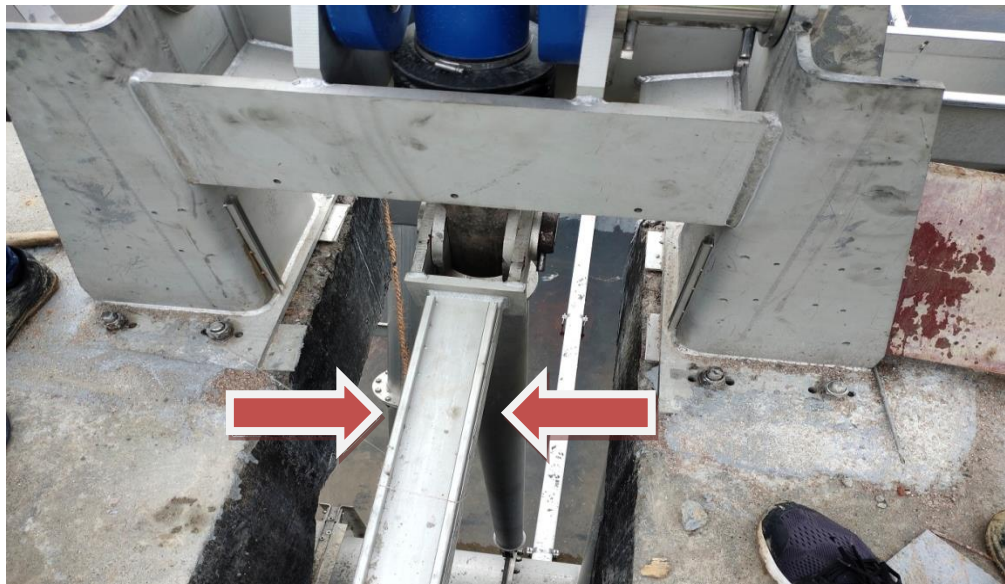
2. Decanter at Basin 1 & 3:

- Decanter was found installed inside basin no. 1 & 2 instead of basin 1 & 3 as stated in RFI.
- KRMPL could not check the weir plate level due to KRMPL personnel could not provide necessary instruments/ manpower. Moreover it was not accessible.
- Timer grease (Sima Lube) was not found fixed with the decanter.

- KRMPL has to submit the specification of the gasket used in the installation for review.
- SS 316/ 304 nut bolts were found missing at various places and on some places GI nut bolts were found which is not acceptable. Nut-bolts were found in loose condition at various places.



- Switches and sensors were not found installed at respective place.



- Water sensor was also not found installed on the decanter.
- KRMPL has to insure that all the SS 316/ 304 nut bolts has to be greased by Anti-Seize compound.
- KRMPL has to complete the installation work of decanters in all respect then after get it inspected by PE & UPJN.

3. PTU & Grit Mechanism Gates:

- Gates were not found properly installed as per drawing. The differences are as under;
- Bottom part of the gate should be leveled with RCC slab but found approx 120mm to 150mm above to that of RCC slab.



- PTU downstream gates flow direction was found opposite to that of actual flow direction. Clarify

4. Inlet Gates of SBR Basin 1/ 2/ 3/ 4:

- Gates were not found properly installed as per drawing. The differences are as under;
- Bottom part of the gates should be leveled with RCC slab but found approx 120mm to 150mm above to that of RCC slab.



- Some of the gates grouting work found not done yet.



- All the gates were found at different levels upto 40mm when compared with each others.

5. Air Blowers 1 & 2 / Blower Cabling/ Cable tray / LPBS:

- Pulley safety guard was not found fixed.



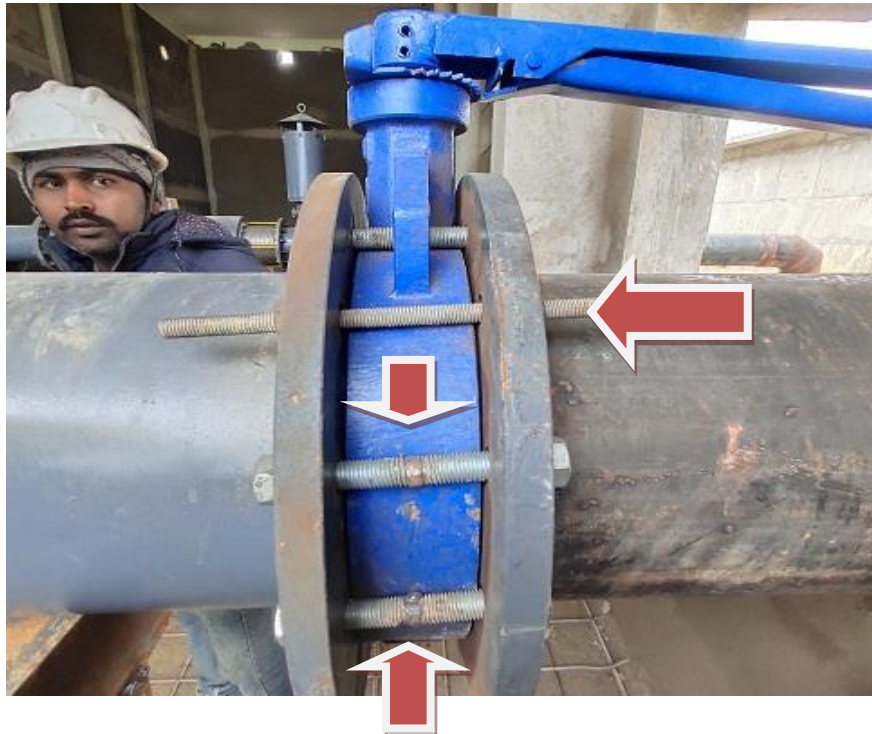
- Nut bolts found rusted at various places and no lubrication was found on the nut bolts. Also various nut bolts were found in loose condition.



- Acoustic hood was not installed yet.



- All NRV's and valve's directions must be properly fixed and checked.
- Pressure gauges were not found installed.
- KRMPPL has to submit the specifications of the gasket used in the installation for review.
- KRMPPL could not check the base frame level due to KRMPPL personnel could not provide necessary instruments/ manpower.
- Damaged/ temporary fixed nut bolts at various places have to be replaced.



- End part of MS pipe from blower was found not as per drawing. The end has to be packed with blind flange instead of permanent fixing.



- MS piping work from Air blower to SBR was not found as per the approved drawing.
- Also the downcomer SS 316/ 304 pipe lines inside SBR basins are not as per the approved drawing.
- No solenoid valves were found fixed on MS air pipe line which has to be fixed.
- Cable gland was found in loose condition in both blower motors.
- Cable dressing was not done properly. Cable dressing should be done by clamps.
- Checker plate fixing work was not done on cable trenches.

6. PMCC & APFC Panel:

- Checker plate fixing work was not done on cable trenches.
- Insert plates of cable trays were found in loose condition.
- Earthing of APFC panel was not done.
- Insert plates and cable tray was not found fixed inside trench for MPS & PTU cables.
- Cable dressing was not done properly. Cable dressing should be done by clamps.



7. RAS & SAS LCS:

- LCS Panels were not fixed properly through anchor fastener at multiple positions.



- Earthing of LCS panels was not done yet.

Note:- All the above points have to be complied and the installation work has to be completed in all respect and then after it has to be re-inspected by UPJN /PE.