

130 MLD STP Jajmau facilities Associated IPS

Site Inspection Report

Inspection note of 130 MLD STP Jajmau facilities Associated IPS by Mr. Anil Kumar Seth, PE,TL (I/C), and KRMPL Representative as given below:-

Date of site visit	01/12/2023
Visit Team & Persons met	Mr. Kumar Seth–TeamLeader (I/C), STC Kanpur Mr. Indra Deo Pandey, Support Engineer, STC Kanpur Mr.Jadab Karmakar –Mech. Engg, KRMPL Kanpur
Location	Nawabganj IPS, Parmath IPS and Babaghat IPS

Nawabganj IPS

Civil Works-

1. During the inspection over flow in the naala was observed due to inadequate pumping.
2. It appears that the pumps are not working efficiently.
3. There are no flow meters installed to ascertain actual pumping quantities.
4. Proper arrangement be made to safeguard public throwing garbage in the Naala near the inlet chamber.
5. Staircases & Tiles are found damaged. Need to be rectified.
6. Number of cracks were observed on the boundary wall.
7. Painting of dry sump in both pump houses are not satisfactory.
8. Technical details of installation and unit names of structure are to be written.
9. Valve chambers should be plastered and covered properly.
10. Housekeeping is not satisfactory.

Electro Mechanical Works.-

1. Over hauling of Sump sluice valve of 800 MM dia needs to be done as it was not operated for last 2 years.
2. Cable from transformer to incoming panel in pump house no-1 has been laid in open ground which is to be embedded properly.

Pump House NO-1

3. KRMPL to see that switch fuse unit be replaced by KESco.
4. The pumping plants are running by new starters but they are not installed properly. They are kept on floor.
5. All the old dismantled materials be removed from inside the pump house and be staged at one place.
6. 3 no's New Pumping plants are installed 2 no's of 40 HP (330 m3/hr) 1 no's of 20 HP (150 m3/hr). 20 HP pumping plant due to alignment problem and pending suitable sump construction has not been installed.

7. Internal electrification in the pump house and in the dry sump has not been done.
8. 2 no's exhaust fans need to be replaced as they are very old and are burnt.
9. All the lighting boards with switches were found damaged. They need to be replaced by new.
10. 110 KVA DG set (Jyoti alternator + Crompton engine) is installed and they are about 25 years old. and is giving lot of noise pollution.
11. There was no lighting arrangement in DG room.
12. Main MCCB 250 A to be changed immediately in supply panel.

Pump House no-2

13. The Supply of power to pump house 2 has been taken from Pump house 1.
14. No internal electrification in pump house and dry sump has been done.
15. 4 no's pumping plants are installed. All are in running condition. 2 no's of 40 HP (300 me/hr), 2 no's of 20 HP (150 m3/hr)
16. There was leakage through pump glands so the dewatering system be improved through pit arrangement.
17. 4 no's new starter are installed but they are not properly installed and are kept on floor.
18. Some of the old cables be replaced by new cables.
19. All the old dismantled be removed from the pump house.
20. No exhaust fans are installed in the pump house. Although provision of holes are there.
21. Log books of pumps & DG set are to be maintained properly. At the end monthly running hours are to be summarized.

Instrumentation Works

1. PLC panel supply pending.
2. Level sensor Supply pending.
3. Pressure transmitter supply pending.

Paramat IPS

Civil works

1. There are no flow meters installed to ascertain actual quantity pumped.
2. Plaster works need to done in screen chamber.
3. Cleaning and landscaping are to be done.
4. Doors/window/ventilation and louvers need to be replaced.
5. Painting works pending.
6. Cracks in LT panel room & PH 3 are to be repaired.

Electro-mechanical works

Pump House no-2

1. 1 no's pumping plant of 125 HP was in operation with new starter.
2. Remaining 2 no's pumping plant have not been installed.
3. It was informed that by some mistake/confusion manufacture has supplied wrong rotation pumps. This cannot be installed without changing delivery pipe system. It was informed that they are in touch with manufacturer. The same was not informed by KRMPL before to UPJN.

Pump House no-1

4. 2 no's new pumping plants of 100 HP are installed and found to be operational.
5. One pump is running with new starter and 2nd pump new installed but commissioning pending.
6. Old panels are installed in panel room in which Voltmeter, Ammeter, Indicators are not working.
7. New panels have come at Jajmau as informed and installation is pending.
8. 250 KVA DG Set is installed with alternator Jyoti and Engines Cumins. It is about 23 years old.
9. There was no lighting arrangement in the DG room.
10. Battrey of Babaghat was shifted to this site due to discharge of battery at this site Proper charging

arrangement should be there.

11. **Transformer** – 400 KVA new transformer is installed.
12. There is defect in HT panel and therefore by passing it, supply is given to the motor panel. Need to be attended as there is no fault protection left.
13. **Common delivery valve** (near pump house no-2) It has not been replaced yet. Although it is available at site.

Instrumentation works

1. PLC panel supply pending.
2. Level sensor supply pending.
3. Pressure transmitter supply pending.

Babaghat IPS

Electro-mechanical works-

1. **Lt Panel** has come at Jajmau which is to be installed. Presently old LT panel is being used.
2. **DG-** No battery was available to run generator in emergency. As it was shifted to Parmat.
3. **Submersible pumping plant-** 3 no's of 40 HP and 1 no's of 20 HP.
4. Two pumps of 40 HP were operational but motor of 20 HP was burnt for the last 8 months.

Instrumentation works

1. PLC panel supply pending.
2. Level sensor supply pending.
3. Pressure transmitter supply pending.