

## SITE VISIT REPORT

**Inspection note of 30MLD Pankha STP construction site and facilities by Mr. Anil Seth Kumar, Team Leader (I/C), UPJN officials and KRMPL Representatives as given below.**

<b>Date of site visit</b>	<b>04/07/2023</b>
<b>Visit Team &amp; Persons met</b>	Mr. D.K. Gautam ,AE UPJN(Rural) Kanpur Smt. Pooja, AE UPJN(Rural) Kanpur Mr. Rohit Yadav JE UPJN (Rural) Kanpur. Mr. Mahipal Singh ,JE UPJN (Rural) Kanpur ----- Mr. Anil Kumar Seth – Team Leader (I/C), STC Kanpur Mr .Prasoon Bhardwaj – Instrumentation Expert , STC Kanpur Mr. Rahul- Support Engnieer- Electrical , STC Kanpur Mr. Indra Deo Paney- Support Engineer - Civil , STCKanpur ----- Mr. Manobendra ray – Project Manager , KRMPL Kanpur Mr. Raman Kundu – Electrical Engineer , KRMPL Kanpur Mr. Shabaz Khan – Mechanical Engineer , KRMPL Kanpur Mr. Soumitra Samanta – Civil Engineer, KRMPL Kanpur Mr. Abhishek Kumar – Commissioning Engg. KRMPL
<b>LOCATION</b>	<b>STP 30 MLD PANKHA</b>

### **I. General :-**

- Effectively start date 11 Oct. 2019
- Original date of completion 25.08.2023
- Total progress till dated 96.5%
- 7 milestones completed out of total 8.
- 8<sup>th</sup> milestone was due on 25.03.20223
- Date for STP completion in all respect (NMCG meeting dated 06.02.2023 was 31.03.2023). This was 5<sup>th</sup> extension of time.
- M.D. UPJN directed to complete balance works by 10/06/2023.

### **II. Following are the major silent points of inspection :-**

#### **(A) Pankha STP:-**

##### **CIVIL WORKS**

- 11-12 MLD sewage are reaching atSTP. At present no sewage is coming from Sundar Nagar as sewer line desilting work is in progress.
- Road restoration work was found to be very slow.
- Finishing work should be done properly and final painting be done.

- Plinth protection pending for MPS
- Plaster and finishing work not properly done under the grit chamber area. Specially painting of pipes / valves are pending.
- Shade to cover Inlet sluice valves was in progress. The same is to be done for flow meter.

### **MECHANICAL WORKS:-**

- ❖ At the MPS out of installed 5 no. pumps only 4 no. pumps are in working order. 2<sup>nd</sup> no. pump has slipped from dug foot bend since long. The work was in progress to set it right
- ❖ Majority of Mechanical equipments testing & commissioning work is pending. OEM should be mobilized for commissioning at top priority & RFI be given.
- ❖ Fine screen preventive maintenance not done properly. Undue noise was found in both the fine screens.
- ❖ One Organic return pump is not working.
- ❖ Screw conveyor is not working properly.
- ❖ Torque switch installation work is pending.
- ❖ Canopy should be installed at various places to protect from rains.
- ❖ 2 no. pump pressure switch are not working properly & water leakage from flange.
- ❖ Bypass line shed work is pending.
- ❖ Chlorine system analyzer is not working during the inspection.
- ❖ Service water pump earthing not done properly.
- ❖ Some U-bolt in airline on SBR is pending.
- ❖ Toe guard SBR-2&4 are left for installation in last walkway.
- ❖ Grit no.-2 unit motor is in repair.
- ❖ EOT of Air blower not functional.

### **ELECTRICAL WORKS:-**

- ✓ Flexible cable supply and installation pending for EOT (s) of Following units
  - Air Blower
  - Centrifuge
  - Chlorine
- ✓ Earth pit chamber be raised above finish level and pit chamber cover be installed.
- ✓ 6 no. pole cables found damaged need to be replaced immediately.
- ✓ MPS 1 no. exhaust fan is not working.
- ✓ Pole Junction box 10 nos. are found damaged.

### **INSTRUMENTATION WORKS:-**

- RTOLMS data work is pending.
- DO Analyzer installation pending as per CA.

### **NOTE:-**

- ✚ Compliance on previous inspection reports and RFI observations are pending.
- ✚ Board indicating all the details of installed equipments should be installed at each unit

## (B) ICI Nalla IPS :-

### CIVIL WORKS

- ❖ Approach plate form to operate the valve be made at MPS.
- ❖ Entry gate not installed.
- ❖ In pump house crossing of two cable trays be made
- ❖ Hand railing work is pending.
- ❖ Painting of pipes/valves and common header pending.
- ❖ Water connection to tank has not been done.
- ❖ Sanitary fitting are pending in guard room.
- ❖ Brick work crack at panel room near cable trench to be rectify
- ❖ Tiles and flooring work pending in office and PLC room
- ❖ Extra Exhaust holes to be closed.
- ❖ Checkered plate should be install in panel room over cable trench.
- ❖ Shutter of panel room pending.
- ❖ Gates of office PLC room & gurad room pending.
- ❖ Roof treatment not properly done.
- ❖ Stair construction has not been done properly.
- ❖ Plinths are to be made.

### MECHANICAL WORKS:-

- Rising main 800 mm dia. Value installation pending.
- Pressure gauges be checked .All should be functional.
- Mechanical equipment testing & commissioning work is pending.

### ELECTRICAL WORKS:-

- Pump starter LCS Panel 1 nos. not checked
- LT Panel feeder of pump no.2 VFD is not functional.
- LT Panel feeder of pump no.5 is not functional.
- Electrical hoist cable termination & testing pending.
- In pump house three exhaust fan out of 4 no not working.
- Electrical equipment testing & commissioning work is pending.
- Cable trench covers are not fixed.
- Transformer gravel filling work is pending.

### NOTE:-

- ❖ Board indicating all the details of installed equipment should be installed at each unit.
- ❖ Name of the various buildings be written.
- ❖ Safety boards be installed at proper places.

## (C) Sundar Nagar IPS :-

### CIVIL WORKS:-

- ❖ Sewer line choked due to non proper cleaning .Hence 100% sewer is not being taken to the STP at Pankha.
- ❖ Cable pit chamber cover need to be fixed.

- ❖ Railing work of various locations is pending.
- ❖ Checker plate in Panel room installation pending.
- ❖ Main inlet gate wall channel support cracked which need to be rectified.
- ❖ Road work not properly done .It is sinking from sides.
- ❖ Plinth protection in all units pending.
- ❖ Earthing chambers are found in damage condition. Due to sinking of soil one pole has been tilted .Filling of earth soil is important will compression.
- ❖ Site development is pending.
- ❖ Hand railing painting work pending.
- ❖ Water fitting and sanitary fittings pending.
- ❖ Main gate and back gate painting work pending
- ❖ Cleaning of sewer line (1600 mm)
- 2 no teams are deployed for cleaning of sewer line. Total Manpower deployed 16 no on cleaning work. Cleaning detail are given below-
  - Between manhole 334 to 335 (cleaning through W. machine).
    - Out of 120 m length 40 m cleaning works balance.
  - Between manhole 335 to 338 (cleaning through Hydra).
    - Out of 150 m length 0 m cleaning works balance.
  - Between manholes 338 to 339 (cleaning manually).
    - Out of 94 m length 0 m cleaning works balance.
  - Between manholes 339 to 341 (cleaning manually).
    - Out of 70 m length 0 m cleaning works balance.
- ✚ KRMPPL gave anticipated date of cleaning up to 25/06/2023.

### **MECHANICAL WORKS:-**

- All mechanical equipment testing & commissioning work is pending.
- Pressure gauge & switch installation & cable termination work is pending.
- Main hadder pipe reducer 400/300 mm is still pending.
- Air release valve installation work are not done properly at various locations.
- Fire Extinguisher filing date has been expired.
- Canopies are to be made.

### **ELECTRICAL WORKS:-**

- Power supply is pending.
- Cable dressing to be done neatly in cable trays.
- 2 nos. Exhaust fan not installed properly. 1 no. Exhaust fan is hanging and other is not working
- EOT Cable termination work & commissioning work is pending.
- Main gate lighting installation & cable termination work is pending.
- Sluice gate 1 nos . earthing not done properly and it has come out from fitting plate
- Transformer yard gravel filling is pending. Testing & commissioning is pending.

### **INSTRUMENTATION WORKS:-**

- ✚ Differential level transmitter installation work pending.
- ✚ Differential level transmitter, Ultrasonic level transmitter, Electromagnetic flow meter commissioning work is pending.

### **NOTE:-**

- Board indicating all the details of installed equipment should be installed at each unit.
- Safety Board to be installed at proper location.

**OTHERS:-**

- ❖ Man power need to be increase.
  - ❖ Approved drawings should be available at site.
  - ❖ KRMPL and UPJN to meet RITES for permission need special and quick attention.
  - ❖ Power Supply at Sundar Nagar be taken.
  - ❖ OEM should be mobilize for commissioning at top priority.
- 
- Detailed inspection report of instrumentation  
Expert is attached.

