

SITE VISIT REPORT

Inspection note of 30MLD Pankha STP construction site and facilities by Mr. Anil Seth Kumar, Sr. Electrical Engineer and KRMPL Representative as given below.

Date of site visit	19/11/2021
Visit Team & Persons met	Mr. Anil Kumar Seth – Sr.Engineer-Electrical, STC Kanpur Mr. Ajay Kumar Goyal-Support Engnieer-Mechanical , STC Kanpur Mr. Rahul- Support Engnieer- Electrical , STC Kanpur Mr. Anuj kushwaha - Support Engineer- Civil , STC Kanpur ----- ----- Mr.Sumit Katiyar –Construction Manager- KRMPL Kanpur Mr.Giri –Plant in-charge Mr.Shawaz-Mechanical Engineer Mr. Raman Kundu – Electrical Engineer, KRMPL Kanpur
LOCATION	STP 30 MLD PANKHA

I. MECHANICAL Observations are follows

1. General:

- i. Kindly Completed the Civil activity as per construction plan. And, submit the list of Civil units which are 100% completed by Civil team of KRMPL and handover to Mechanical team of KRMPL for completion of Mechanical works.
- ii. All type Stud bolt has not yet supplied at site.
- iii. All sluice gate has not supplied yet at site.
- iv. Manpower for Mechanical equipment installation were only 12 Nos available onsite, which is insufficient. It is recommended to increase the manpower for installation of mechanical equipment for commissioning From I&D Thermal Nalla –A to 30 MLD STP Pankha on 15.12.2021 as per Commitment by KRMPL higher authorities during NMCG meeting on 17.11.2021.
- v. Total Mechanical Manpower (12 nos) descriptions below:
 - a. Fitter- 2 Nos.
 - b. Welder- 2 Nos.
 - c. Rigger- 3 Nos.
 - d. Helper- 5 Nos.

2. I&D Receiving Chamber:

- Civil work has not yet completed for installation of screens-1 no. & gates 2 nos. (size- 3000X500- 1 no. & 500X500-1 no.)



3. MPS Receiving Chamber:

- Civil finish work has not yet completed for installation of screens & Gates.



4. Main Pump station (MPS):

- Civil work has not yet completed for installation of Pumps, Pumps discharge line & hoist.
- Foundation of pumps has not casted yet. For installation of pump 5 nos (3w+2sb) capacity 955 m³/hr & head 21 m.
- Electrical hoist column & Pump discharge line platform has not casted yet. Civil pipe support still has not casted yet.
- Inlet flow meter has not supplied yet.



- PE Team instructed /suggested to KRMPL team for work progress and hydro test work.
- Discharge line of pump house has been not complete till date as per below figure.
- Rain Water still not dewatered by KRMPL.



5. Primary treatment unit(PTU):

- Civil work has not been completed yet for installation of Mechanical equipment.



6. Blower Room:

- Civil work has not completed yet for installations of Air Blowers & Electrical Hoist.
- Blower foundation has not casted by KRMPPL till date
- Total Air Blowers =05 nos with 3800 Nm³/hr (4w+2sb) has not supplied yet.



7. Sequencing batch reactor (SBR):

- Civil work, Painting & Hydro test has not completed yet for installations of diffuser & decanter etc.
- Painting work ongoing at site without approval of painting vendor and procedure & specification of painting.
- RAS pumps capacity 165 m³/hr & head 4.5 m and SAS Pumps capacity 230 m³/hr & head 10 m foundation has not yet completed for installation.
- Welders has not approved by UPJN/STC. Without test conducted welders are performed job of welding for pipes at SBR basin.
- Welding and NDT procedure to be submitted as per CA Schedule 11.(refer STC letter no.1180 dated 09.10.2021.)



- Without blasting and painting pipes are to be installed by KRMPPL at SBR basin as per below photos.



8. Chlorine contact tank:

- Civil work & Painting has not completed yet for installations of Chlorination system & Chlorine booster pumps.





II. ELECTRICAL Observations are follows:

Pankha STP was inspected on 15.11.2021 and electrical-related work status has been updated as on 19.11.2021 is as below:

1. Procurement of electrical items

S. No.	Electrical Items	Procurement Status
1	Generator 750KKVA, 2 Nos.	Inspection call awaited and expected date of delivery 05.01.2022
2	Transformer 1600KVA, 2 Nos.	Delivered onsite
3	HT VCB Panel 630A, 1 set	Delivered onsite
4	LT Cables lot	Delivered onsite
5	HT Cable lot	Reached at Jajmau site. Instrumentation cable expected dispatch date 22.11.2021
6	LT Panel Set	Inspection call expected upto 22.11.2021 and expected date of delivery at site 25.11.2021
7	Cable tray lot	Inspection call expected upto 20.11.2021. expected date of delivery at site 27.11.2021
8	Earthing Material Lots	Inspection call expected upto 20.11.2021. expected date of delivery at site 27.11.2021
9	Poles & luminaries	Expected 21.11.2021 at site. expected date of delivery at site 27.11.2021

2. It was informed that electrical vendor M/s. G.P tech, Delhi has been finalized last week. 8 manpower including electrician & supervisor reached at site.

3. Installation schedule:

S. No.	Electrical Installation / Works	Completion Dates
1	Generator 750KKVA, 2 Nos.	TBD
2	Transformer 1600KVA, 2 Nos.	Shifting in progress expected date 22.11.2021
3	HT VCB Panel	30.11.2021
4	LT panel	05.12.2021
5	Cable laying and termination along with cable tray	05.12.2021
6	Earthing	05.12.2021
7	Indoor Lighting	10.12.2021
8	Outdoor Lighting	14.12.2021
9	Testing and Trail Run	10.12.2021 to 12.12.2021

Note: - Above date are subjected to civil works completion and clearances

4. General Observations:

- Civil Works were in progress at various units – Shuttering to be removed to start electromechanical work at administrative building, Blower room and LT Panel room. MPS pump floor and building to be completed for electrical works to start.
- Laying of Hume pipe was in progress along the SBR to carry cables to other units.
- Manpower and shift need to be increased and team to be distributed for parallel working.
- UPJN to ascertain power supply from KESCO Kanpur for testing and trial run. Payment has already been made.
- KRMPPL to ensure completion of DG installation for 100% backup power provision for testing & trial run during commissioning and startup of the Plant.
- No sprinkling of water was done at site to avoid dust accumulation on sensitive electrical items.
- Storage shed construction is still pending completion and delivered items are stored outdoors at site.
- Between 2 power transformer fire wall is to be made and in yard stone blasts be arranged and laid
- Electrical resistance sheet, fire extinguisher, danger board, lugs, nutbolts, cable clamps, HT cable jointing material, exhaust fan to be arranged immediately.
- Special attention to be give on civil work at thermal nalla tapping as presently plant testing is to be done through it.
- MPS Station civil work to be finished urgently as electro-mechanical work has to be done.
- Foundation of Generator and Air Blower not yet started.
- Procurement of DG set expected to be delayed therefore it will be responsibility of Concessionaire to arranged generator for trial run of the plant
- Location of Mechanical items are fixed. So, it is suggested that without further delay, installation of cable be drawn up to destination with cable trays to speed up the work.

III. CIVIL Observations are follows:

1. Thermal Nala A, I&D work :

- i) During site visit it was found that there are only mud cleaning work is in progress. Foundation and 1st lift of wall Rcc work done. Steel binding work found done upto 2nd lift. Shuttering work of 2nd lift and RCC work of wall is pending.
- ii) 1000mm diameter RCC Np3 pipe line laying work 6 nos of pipe each of 2.5mtr has been layed out of 85 m.

2. 30MLD STP PANKA:

- i) Finishing work (Grinding work) is in progress for MPS receiving chamber.
- ii) For MPS, Shuttering work of slab for half slab and Steel binding work, Shuttering work and RCC work is in progress.
- iii) Hydro test work of Settling chamber, Fine bar screen chamber is in progress.
- iv) Side partition wall, Slab and walkway for mechanical grit chamber is pending.

- v) Parshall flume unit completed upto slab bottom.
- vi) Inter connection RCC channel from Distribution chamber to SBR tank is in progress
- vii) At SBR unit Balance RCC wall, walkway is in progress.
- viii) At Blower Room, Shuttering removal work of ground floor slab is in progress
- ix) Brickwork in admin building ground floor, Steel binding work for First floor slab is in progress.
- x) Interconnection work of 1000mm dia RCC NP3 pipe from SBR to Chlorination contact tank is in progress.
- xi) At Chlorination contact tank, Pending work of final lift of RCC work is in progress.
- xii) At Chlorination Building, Only RCC frame structure completed.
- xiii) At Gravity Sludge Thickener, RCC work completed, Only finishing work is pending.
- xiv) Staff quarter building brickwork in ground floor started but No labour found today at site.
- xv) During site visit it was found that at location guard room building, RCC work upto plinth beam.

3. Unit wise labours present at site were found as under-

S. No.	Unit	Number of Labour
1	Thermal Nala Pump House	06
2	Interconnection work Thermal Nalla to Manhole-1000mm dia RCC NP3	12
3	MPS receiving chamber	06
4	MPS	45
5	Interconnection work PTU to SBR	8
6	SBR	29
7	Blower Room	10
8	Admin Building	35
9	Interconnection 1000mm RCC NP3 pipe SBR to CCT	08
10	Chlorination Contact Tank	09
	TOTAL	168

*Note: - Need to increase the manpower more than 300 Nos.