

## **130 MLD STP Jajmau Site Inspection Report**

**Inspection report of 130 MLD STP Jajmau for ongoing construction works by STC and KRMPL Representative as given below:-**

<b>Date of site visit</b>	<b>02/12/2023</b>
<b>Visit Team &amp; Persons met</b>	Mr. Anil Kumar Seth–Team Leader(I/C),STC Kanpur Mr. Indra Deo Pandey, Support Engineer, STC Kanpur  Mr. Vidyut–Civil Supervisor,KRMPL,Kanpur Mr. Avijit Datta –Mech. Supervisor KRMPL Mr. Alokesh Das–Electrical Engg.,KRMPL Mr. Somitra Samanta Civil Engineer
<b>Location</b>	<b>130MLDSTPJajmau</b>

### **CIVIL Works of CCT & TEPH**

**TEPH**- Brickwork, Stair work, plasterwork and finishing work were pending. About 90.5% work progress was observed. It was reported that the vendor was construction of Brick wall has left the work and new vendor has been allotted this work which will start after 3 days



**TEPH**



**Proposed Staircase of TEPH**

**CCT & Common Channel-** Inlet Chamber construction, connecting channel and finishing works are pending. About 92% work progress was observed. CCT finishing and cleaning work was in progress.



**Chlorine Contact Tank**





**Common Channel**

**Chlorination building-** Slab costing done a month ago but deshuttering work still pending. Brick work, plaster work, finishing work and approach road is pending.



**Chlorination Building**

### Electromechanical works of CCT & TEPH

- It was informed by KRMPL that civil works will be complete by 25/12/2023
- List of mechanical materials required along with supplied and pending is enclosed.
- Cutting and welding of pipes in progress.
- In site TEPH following mechanical progress was observed.

Item	Total Req.	Available for installation	Available in Old TEPH	Remark
Base Plate	11	6	5	5 to be shifted from Old TEPH to New TEPH
Motor	11	2	9	9 to be shifted from Old TEPH to New TEPH
Pump	11	6	5	5 to be shifted from Old TEPH to New TEPH
Valve	NRV 11 (500 MM) 11 (300 MM) DM Joint 11 no (Suction)	11 11 11		
Common header	54 M	54 M		Epoxy coating done painting due.
Air Valve	11	11		
Monorail				
2T	1	1		
3T	1	1		
Delivery Pipe( MS)	11	11		Ready for installation from pump 2 common header.



**Base plate and Pump Installation at TEPH**





**Paddle pipe fitting**



**Common header connection in TEPH**

- Paddle pipe fixed in valve for connecting section 11 nos installed in the wall. Grouting work was in

progress.

- List of available and pending materials

MATERIALS STATUS FOR TEPH AND CCT					
TEPH MATERIALS					
SL NO.	ITEM	UNIT	Req. Qty	Supplied Qty.	STATUS
1	PUMP	NOS	11	11	AVAILABLE
2	SIUICH VALVE	NOS	11	11	AVAILABLE
3	PIPE (DIFFERENT DIA)	R.M	130	130	AVAILABLE
4	NUT BOLT WITH DOUBLE WASHER	NOS			AVAILABLE
5	BUTTERFY VALVE	NOS	11	11	AVAILABLE
6	NRV	NOS	11	11	AVAILABLE
7	DM JOINT	NOS	11	11	AVAILABLE
8	PADDLE PIPE	NOS	11	11	AVAILABLE
9	DISTANCE PIPE	NOS	11	11	AVAILABLE
10	ELBOW 90 DEGREE	NOS	11	11	AVAILABLE
11	ECENTRIC REDUCER	NOS	11	0	AVAILABLE
12	CONCENTRIC REDUCER	NOS	11	11	AVAILABLE
13	ELBOW 90 DEGREE (1200 DIA)	NOS	1	0	AVAILABLE
14	FLANGE AND GASKET (1200 DIA)	NOS	1	0	AVAILABLE
15	BLIENT FLANGE (1200 DIA)	NOS	1	0	NOT AVAILABLE
16	ISMB 300	RM	72	0	NOT AVAILABLE
CCT MATERIALS					
1	BOOSTER PUMP	NOS	2	2	AVAILABLE
2	CHLORINE TONNER	NOS	16	0	NOT AVAILABLE
3	SUCTION AIR BLOWER	NOS	2	2	AVAILABLE
4	NURILIZATION TANK	NOS	1	0	NOT AVAILABLE
5	FRP PIPE	RM	30	0	NOT AVAILABLE
6	CHLORINATOR UNIT	NOS	2	2	AVAILABLE
7	ROLLER BASE	NOS	32	32	AVAILABLE
8	INJECTOR	NOS	2	2	AVAILABLE
9	REGULATOR	NOS	2	2	AVAILABLE
10	FILTER	NOS	2	2	AVAILABLE
11	UPVE PIPE	RM	12	12	AVAILABLE
12	MS PIPE	RM	30	30	AVAILABLE
13	CHLORINE SENSOR UNIT	NOS	4	0	NOT AVAILABLE
14	PRESSURE GAUGE	NOS	4	4	AVAILABLE
15	COPPER TUBE	NOS	16	16	AVAILABLE
16	VACUM GAUGE	NOS	2	2	AVAILABLE
17	SAFETY TOOL BOX	NOS	1	1	AVAILABLE
18	CENTRIFUGAL PUMP	NOS	2	2	AVAILABLE

### Target Dates

As per Review meeting of DG NMCG Dated 01/11/23 and MOM issued, following are the committed dates

- Operationalization of CCT & TEPH by **15.12.2023.**
- Operationalization of Digester 1 with gas flaring by **15/12/2023.**
- Operationalization of Digester 2 with commissioning of Gas Engine for Power production and DG Sets commissioning by **31/12/2023.**
- Full Plant operations on SCADA/PLC by **31/12/2023.**

- KRMPL has not submitted micro planning to achieve the target as required vide **PE letter no 2140 dated 28/11/23** for monitoring purpose.
- Daily progress photos are not sent regularly.



## **HT LT Panel Civil work**

Finishing works, painting works, approach road work, gate and Window works are pending.



## **HT LT Panel Room**

## **HT LT Panel E&M work**

1. In 11/0.44 KV substation 1600 KVA new transformer has been installed. Oil filtration/BDV test done. Pre commissioning of transformer is pending. Cable termination work is in progress.  
There are 4 no's transformers 1600 KVA (New), 1600 KVA (Old), 1600 KVA (Old) and 1000 KVA (Old). It is proposed by KRMPL to use 1600 KVA 3 no's transformers for 130 MLD STP and 1000 KVA (Old) for 43 MLD STP.
2. Remote tap changing control (RTCC) panel erection works done. Cable termination is in progress.
3. HT VCB panel with 3 no's outgoing has been installed in which cable termination is in progress.
4. LT panels have not received and therefore erection is pending.
5. Internal electrification and installation of exhausts fan are yet to be done.



**Installation of HT Panel in the panel room**

### **Belt Filter Press**

1. All four BFP were reported by KRMPL to be installed but at the time of inspection none of them were in operation and no staffs were present at site to show the operation. OEM has also left who were here to commission to newly install BFP. The progress of OEM visit for commissioning has not been reported. Neither anything at site was informed.
2. Two bores to supply water for BFP were to be made but only one bore has been made through which requirement of water for 3 no's BFP is insufficient for operation (3 working and 1 standby).
3. Hand railing work, painting work and finishing works are pending.
4. Supernatant Pumps installed but commissioning is pending to make BFP functional.





## **Digester**

**Digester 1-** It was informed that about 1.2 M desalting work is still pending.

**Digester 2-** Inside painting work has not been completed.

## **Biogas Engine**

Two no's supplied but they are yet to be installed. Radiator supply is pending. EOT not functional which is hindrance for their installation.

## **DG Sets**

Two no's foundations are made but supply of DG sets are pending.

## **Chimney & Gas Pipeline work**

1. Chimney foundation has been made. Fabrication of 3/4 Chimney has been done.
2. Gas pipeline work from digester to gas holder total length 166 m but it is not laid.
3. Total pedestals 90 no's, Excavation completed 59 no's and concreting work completed 59 no's. No progress for the last 1 month.

**Ventilation Room-** Water tank wall costing done and finishing work are pending.



**Ventilation unit and chimney foundation**

**Gas Holder-** Central column construction in one unit and hand railing work in other are pending.

**Scrubber Unit-** Shed structure is pending. Mechanical equipment only placed on foundation. Dehumidifier supply is pending.

**Inlet Panel Room-** Cable trench construction work and approach road are pending.

**DSPH-** Out of 4 no pumps installed 2 nos pump were in working order and 2 are not function.

## **OTHERS**

- For 130 MLD STP and associated faculties IPS and CSPA material required/received/installation progress given by EE (E&M) vide their letter no 2430/W-21/74 dated 04/10/2023 which is to be updated by KRMPL has still not been done.
- LPBS 91 nos supply still pending.
- Supply of LT panels for TEPH are still pending
- Aeration tank motor winding is still pending since last.
- Heat exchanger and screw pump unit not supplied.
- Automation system not received.
- Main LT distribution panel and supply of various units be done with the help of power supply unit available with KRMPL to ease the installation and negligible shutdown. This disposes of their revised proposal submitted by KRMPL through email dated 22/11/23.

## **NOTE**

1. Manpower deployment by KRMPL is inadequate and there is lack of continuity in work.
2. Housekeeping is very unsatisfactory.
3. Compliance of inspection reports are not given by KRMPL.
4. Old dismantle material stacking is not properly done and no record is being made.