








## SITE INSPECTION REPORT FOR 43 MLD JAJMAU PHASE-II STP







JAJMAU PHASE-II  
STP - 43 MLD

Date: 27.12.2022





INSPECTED BY:  
STC Team  
1. Mr.Rahul, Support Engineer (Electrical)  
2. Mr. Karam Veer Singh, Site Supervisor (Civil)  
3. Mrs. Divya Mittal, Site Supervisor (Electrical)  
KRMPL Team  
1. Mr Krishna ( Plant Incharge)  
2. Mr. Akashay Tripathi ( Process Engineer)

S. No.	Equipment	Assessment of Current Condition	Assessment of Current Condition Photo	Corrective Action Suggested by STC	Original Date of Issue	Proposed Date to Resolve by KRMPL	Current Status of Compliance
A	Inlet Chamber	functional	 <div><div>Kanpur Uttar Pradesh India</div><div>Latitude 26.417689 Longitude 80.418068</div><div>Decimal 26.417689 80.418068</div><div>DMS 26°25'3" N 80°25'5" E</div></div>	1. Chamber and hand railing painting work need to be done. 2. Pipe hood to be installed on each rotating wheel. 3.Sluice gate need to be lubricated. 3. Cleaing of inlet chamber need to be done.	21.09.2021		Pending.
1	Fine Screen No.1(Mecahnical)	functional		1.Fine Screen need to be cleaning properly. 2. Screen Level Sensor need to be replaced. 3. Screen panel autosystem need to be repaired. 4. Panel stand need to be painted. 5. Cable tray need to be replaced and painted. 6.All light creen area aneed to be replaced. 7. Disposal material need to be removed on regular basis. 8. Manual trolly need to be provided for Disposal material. 9. All motors need to covered by canopies. 10. Fine screen 2 (mechanical) need to maintenace for proper functional.	21.09.2021		Pending.
2	Fine Screen No.2 (Mecahnical)				21.09.2021		Pending.
3	Fine Screen No.2(Manual)	functional					16.12.2021
B.	Grit Mechanism						



1	Grit chamber-1 1)Organic pump withMotor 2)Scraper 3)Classifier Mechanism	functional		<p>1. Grit removal system is functional but classifier system is not functional since handover and ED(Projects) also instructed to KRMPL for taken action.</p> <p>2. Painting needs to be done to equipment / covers wherever rusting.</p> <p>3. Alignment of classifier found non-functional.</p> <p>4. Cable tray need to be painted.</p> <p>5. All E&amp;M equipments shall be lubricate on regular basis and maintain the log book at site.</p> <p>6. Log book need to be maintained.</p> <p>7. Baffle plates are found to be corroded and therefore need to be replaced.</p>	30.09.2021		Pending
C	Inlet flow meter			<p>1. Log book need to be maintained.</p> <p>2. At the time of power failure there are no power backup is available for flow meter. So KRMPL has to provided power backup facility.</p> <p>3. Level scale needs to be paint.</p> <p>4. Calibration needs to be done by KRMPL because Flow meter shown their flow reading during "No flow condition"</p>	21.09.2021		Pending
	Open Channel	Operational		<p>1. Open channel need to be cover with frame cover .</p> <p>2. Repairing and Painting work need to be done.</p>	16.12.2021		Pending
D	Primary Unit						
1	Primary sedimentation tank	functional		<p>1. Painting work need to be done.</p> <p>2. "V" notch need to be replaced.</p> <p>3. Handrailing work need to be paint.</p> <p>4. Alignment need to be rectified for PST.</p> <p>5. Log book need to be maintained.</p> <p>6. Scum chamber need to be clean.</p> <p>7. Housekeeping need to be done.</p> <p>8. Sludge need to be clean properly .</p>	21.09.2021		Pending
E	Panel room	Operational		<p>1. Screen panel voltmeter need to be replaced.</p> <p>2. Dosing agitator ammeter need to be replaced .</p>	21.09.2021		Pending
F	Sludge System						

1	Centrifuge feed pump(No.1 &2)	Operational		<ol style="list-style-type: none"> <li>1. Pump cleaning need to be required.</li> <li>2. Pump lubrication need to be done on regular basis by KRMPL.</li> <li>3. Pump RPM need to be increase as per design.</li> <li>4. Vibration and Temperature need to be measure on regular basis.</li> <li>5. Pump log book has not maintained by KRMPL.</li> </ol>	21.09.2021		Pending
2	Centrifuge panel	Operational		<ol style="list-style-type: none"> <li>1. Panel no.1 need to be repair.</li> <li>2. Panel no. 2 voltmeter need to be replaced .</li> <li>3. Panel door damage need to be repair</li> <li>4. Panel VFD not working</li> </ol>	21.09.2021		Pending
3	Centrifuge No.1	Operational		<ol style="list-style-type: none"> <li>1. Need to be overhauled &amp; servicing.</li> <li>2. Dosing of PACL in sludge feed line not properly tapping according to design .Therefore dosing line tapping from upword to downward direction.KRMPL has not taken action as same.</li> <li>3. Pipe support shall be installed properly for sludge feed line and dosing line.</li> <li>4. Electrical cables need to be lineup properly.</li> <li>5. 1 CCTV need to be arranged for sludge removal from Trolley on urgent basis.</li> <li>6. The quality of dewatered sludge is not adequate since liquid is being noticed during site visit.</li> <li>7. 2 nos centrifuges operated by KRMPL,12 Hrs.each due to non-availability of VFD,only one at a time operated</li> </ol>	21.09.2021		Pending
4	Centrifuge No.2	Operational		<ol style="list-style-type: none"> <li>1. Need to be overhauled &amp; servicing.</li> <li>2. Dosing of PACL in sludge feed line not properly tapping according to design .Therefore dosing line tapping from upword to downward direction.KRMPL has not taken action as same.</li> <li>3. Dosing line has not been connected with sludge feed line of centrifuge No 2.</li> <li>4. Pipe support shall be installed properly for sludge feed line and dosing line.</li> <li>5 The quality of dewatered sludge is not adequate since liquid is being noticed during site visit.</li> <li>6. 2 nos centrifuges operated by KRMPL,12 Hrs.each due to non-availability of VFD,only one at a time operated</li> </ol>	21.09.2021		Pending
5	Centrifuge thickened sludge sump + Agitator 2 Nos.	1 - Operated 1- Operated		<ol style="list-style-type: none"> <li>1. Sludge cleaning work need to be done.</li> <li>2. Need to be overhauled &amp; servicing as required.</li> <li>3. Log book need to be maintained.</li> </ol>	16.12.2021		Pending
6	Poly Dosing( No.1 & 2)	Pump No.1- Operational Pump No. 2 - damaged		<ol style="list-style-type: none"> <li>1. Leakage was observed in Pump No. 1</li> <li>2. Need to be Overhauled &amp; Servicing.</li> <li>3. Log book need to be maintained.</li> <li>4. Polymixer was not in operation during site visit.</li> <li>5. Pump no.2 are not working .</li> </ol>	21.09.2021		Pending



7	Agitator No.1	Operational		1. Need to be rectified. 2. Need to Be cleaned the Sump bottom 3. Needs to be replaced. 4. Cleaning work of tank needs to be done.	21.09.2021		Pending						
8	Agitator No.2	Operational		1. Rusted steel Structure need to be replaced.	21.09.2021		Pending						
9	Digester No.1	Non-operated	 <table><tr><td>CCBB+5J46, Jajmau Sub Metro City, Kanpur, Uttar Pradesh 208008, India</td><td>Decimal</td><td>DMS</td></tr><tr><td>Kanpur Uttar Pradesh India</td><td>Latitude 26.41614 Longitude 80.418319</td><td>26°24'58" N 80°25'5" E</td></tr></table>	CCBB+5J46, Jajmau Sub Metro City, Kanpur, Uttar Pradesh 208008, India	Decimal	DMS	Kanpur Uttar Pradesh India	Latitude 26.41614 Longitude 80.418319	26°24'58" N 80°25'5" E	1. Digster Need to be cleaned. 2. Civil Leakage need to be repaired. 3. Pressure relive valve need to be calibration. 4. All four nos of motors need to be repaired. 5. Canopies need to be replace. 6. HDPE gas pipe line need to be proper support. 7. Sludge digester taken offline since 8 months and it was found that the sludge is being diverted to sludge holding ponds which are already birm. It is very urgent that KRMPL address this issue at the highest priority.	21.09.2021		Pending
CCBB+5J46, Jajmau Sub Metro City, Kanpur, Uttar Pradesh 208008, India	Decimal	DMS											
Kanpur Uttar Pradesh India	Latitude 26.41614 Longitude 80.418319	26°24'58" N 80°25'5" E											
10	Thickened sludge Pump(No.1 & 2)	Both pumps Non-operational	 <table><tr><td>CCBB+5J46, Jajmau Sub Metro City, Kanpur, Uttar Pradesh 208008, India</td><td>Decimal</td><td>DMS</td></tr><tr><td>Kanpur Uttar Pradesh India</td><td>Latitude 26.416096 Longitude 80.418207</td><td>26°24'57" N 80°25'5" E</td></tr></table>	CCBB+5J46, Jajmau Sub Metro City, Kanpur, Uttar Pradesh 208008, India	Decimal	DMS	Kanpur Uttar Pradesh India	Latitude 26.416096 Longitude 80.418207	26°24'57" N 80°25'5" E	1. Need to be overhall and servicing. 2. Lubrication of pump need to be done.	21.09.2021		Pending
CCBB+5J46, Jajmau Sub Metro City, Kanpur, Uttar Pradesh 208008, India	Decimal	DMS											
Kanpur Uttar Pradesh India	Latitude 26.416096 Longitude 80.418207	26°24'57" N 80°25'5" E											
G	Sludge Thickner No.1	Non-Operated		1. Need to be painted. 2. Need to be Clean wier plates. 3. Sludge cleaning need to be done. 4. Need to be Overhaul and servicing. 5. Sludge thickener operation needs immediate attention since supertanant from the thickener is discharging heavy solids into the PST inlet distribution chambers overloading the PST system.	21.09.2021		Pending						
1	Thickened Sludge Sump (Feed pump no 1 & 2)	Operational	 <table><tr><td>CCBB+5J46, Jajmau Sub Metro City, Kanpur, Uttar Pradesh 208008, India</td><td>Decimal</td><td>DMS</td></tr><tr><td>Kanpur Uttar Pradesh India</td><td>Latitude 26.416122 Longitude 80.418369</td><td>26°24'58" N 80°25'6" E</td></tr></table>	CCBB+5J46, Jajmau Sub Metro City, Kanpur, Uttar Pradesh 208008, India	Decimal	DMS	Kanpur Uttar Pradesh India	Latitude 26.416122 Longitude 80.418369	26°24'58" N 80°25'6" E	1. We have found heavy vibration at Pump no 2 during visit. KRMPL need to be repair. 2. Pipe support need to be replace as required . 3. Vibration and Temperature need to be measure on regular basis. 4. Pump log book has not maintained by KRMPL. 5. Dewatering from the sump need to be required.	16.12.2021		Pending
CCBB+5J46, Jajmau Sub Metro City, Kanpur, Uttar Pradesh 208008, India	Decimal	DMS											
Kanpur Uttar Pradesh India	Latitude 26.416122 Longitude 80.418369	26°24'58" N 80°25'6" E											

2	Thickened Sludge Pump house	Operational		1. Need to be Overhaul and repair. 2. Cleaning work need to be done. 3. Vibration and Temperature need to be measure on regular basis.	21.09.2021		Pending
H	Blower Room						
1	Air Blower No.1	Operated		1. Air Blower remote system cable need to dressed properly. 2. Air blower no.1 need to be reactified . 3. Acoustic hood need to be installed . 4. Vibration and Temperature need to be measure on regular basis. 5. Log book need to be maintained. 6. Pressure guages need to be installed. 7. PRV need to be checked. 8. Insulation work in discharge line needs to be done by KRMP.L.	21.09.2021	Pending	
2	Air Blower No.2	Non-operational since 22.11.2022					
3	Air Blower No.3	Operational since 08.07.2022					
I	Aeration Tank	Operated		1. Air pipes were observed to be rusted. 2. Pipe lines need to be changed. 3. Valves need to be changed. 4. Handrails need to be painted. 5. Diffuser line need to be Cleaned and mentained records also. 6. Insulation required for discharge line of blower. 7. Rope need to be replaced. 8. 4 Sets of diffuser needs to be repired on urgent basis.	21.09.2021		Pending
J	Final Sedimentation tank	Operated		1. Cleaning work need to be done. 2. Painiting work need to be done. 3. Alignment of Mechanism need to be rectified. 4. "V" notch need to be replace.	21.09.2021		Pending

K	43 MLD TEPH(5 Nos Pumps)	Operational		<div>1. Pump No. 2 was non operational. 2. Pressure gauges not working in all pumps. 3. Internal lights were not working. 4. Each pump capacity 900m3/hr. 5. Lubrication of each equipment need to be done. 6. Log book need to be maintain properly. 7. Vibration and Temperature need to be measure on regular basis. 8. Ameter need to be repaired.</div>	21.09.2021		Pending
L	RSPH	Operational		<div>1. 2 Nos. of pumps in Operational(1 W +1 S). 2. Waste activated sludge pump No. 2 is under maintenance since 07.09.2022. 3. Ameter need to be repaired. 4. Wash water pump are not working.</div>	21.9.2021		Pending
Remarks:-			<div>Important Note- 1. At the time of power failure there are no power backup is available. KRMPL has been shutting down the STP which was deteriorated process of the 43 MLD STP plant. 2. CCTV cameras required to installed immediately at centrifuge equipments as agreed by KRMPL. 3. Landscaping work need to be done by KRMPL. 4. All mechanical, electrical and instrumentation equipments need to be functional properly. 5. Painting work need to be done by KRMPL because acceptance criteria not fulfilled yet given below:- i) All painted surfaces shall be uniform and pleasing appearance. ii) The colour, textures etc shall match exactly with approved samples. iii) All stains, splashes and splatters of paint shall be removed from surrounding surfaces.</div> <div>P. Girdhar</div>				