
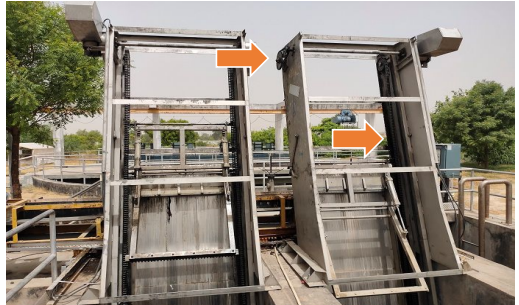


SITE INSPECTION REPORT FOR 42 MLD Sajari STP

SAJARI STP

Date:
08.06.2022


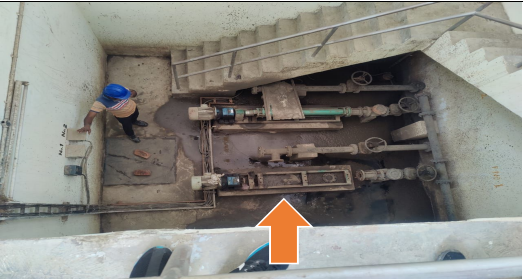
INSPECTED BY:
UPJN Team:
1) Mr. Ajit Singh (JE Civil)
2) Mr. Ankit Singh (JE, E&M)
STC Team:
1) Mr. Satish Kamaraju (Process expert)
2) Mr. Rohit Suman (Support engg. Mech.)
3) Mr LK Rao (Safety & Env. Expert)
KRMPL Team:
Mr. Anirban Mukherji and KRMPL team

S. No.	Equipment	Assessment of Current Condition	Assessment of Current Condition Photo	Corrective Action Suggested by STC	Corrective Action Completed by KRMPL	Original Date of Issue	Proposed date to resolve by KRMPL	Remark
A	INLET CHAMBER							
1	Inlet Sluice Gates	<p>Operational</p> <p>When UPJN & PE visited site, it was again found that only one inlet sluice gate was opened and that is also not fully opened (approx. 30% was opened) where it should be opened fully at all time because of which uniform flow of sewage is not taking place.</p> <p>Every time, it has been observed that same issues are being repeated by KRMPL. Even in previous compliance report, KRMPL said that it will be done but still same issue was observed at site. Level difference was also observed between collection sump & inlet chamber of MPS because of this issue.</p>		Required number of sluice gates must be opened fully for uniform flow of sewage.		10.05.2022		Pending
2	Mech. Coarse screen (no.1)	<p>Operational</p> <p>After approx. 3 months of non-operational since 06.03.2022, it was found operational on 08.06.2022 but still vibration and uneven sound was observed from the motor and gearbox arrangement because of which it may fail in future also if not resolved immediately.</p>		<p>1) Vibration & uneven sound issue need to be rectified at the earliest.</p> <p>2) Auto system level settings needs to be done for proper functioning and it should be get checked by UPJN & PE.</p> <p>In the meeting dated 11.04.2022, ED (T) NMCG directed KRMPL to rectify the screen at the earliest but not rectified yet completely.</p>		<p>1) 06.03.2022</p> <p>2) Since handover 11-10-2019</p>		LONG PENDING
3	Mech. Coarse screen (no.2)	<p>Non-Operational</p> <p>1) Level sensor is not installed yet for automated.</p>		<p>1) Need to be rectified at the earliest..</p> <p>2) Level sensor has to be installed at earliest for automation.</p> <p>In the meeting dated 11.04.2022, ED (T) NMCG directed KRMPL to rectify the screen at the earliest but not rectified yet.</p>		<p>1) 11.04.2022</p> <p>2) Since handover 11-10-2019</p>	<p>2) 28.02.2022 / New date given 31.08.2022</p>	LONG PENDING

4	Mechanical Screen Level transmitter display	<p>1) Auto System of Mech Coarse Screen -1 & 2 are Under Maintenance</p> <p>2) Not operating the mechanical screen perfectly</p> <p>3) Level sensor of 2nd mechanical screen is not available</p>		<p>1) The level setting system has to be corrected as per the inflow level for mechanical screen no. 1 and level sensor for mechanical screen no. 2 has to be installed at earliest for automation.</p> <p>2) Closing gate must be fixed to the level transmitter casing box.</p> <p>3) Painting needs to be done on the casing box.</p>		Since handover 11-10-2019	<p>28.02.2022</p> <p>31.12.2021</p> <p>31.12.2021</p>	LONG PENDING
5	Belt Conveyor	When UPJN & STC team reached site, we found conveyor belt in still condition and by seeing the belt condition, it has been observed that KRMPL is not running the belt regularly as per requirement. Upon asking by UPJN & STC team, KRMPL started running the belt.		Every time during visit, conveyor belt was found in still condition, Needs to be operated on regular basis.		08.02.2022		
6	Mech. Coarse Screen On-site Panel	Some of the indicators not working		Non working indicators should be replaced.		31.07.2021		LONG PENDING
B	RAW SEWAGE PUMPING STATION							
1	Raw Sewage Pump-01	Operational After almost 5 months of non-operational since 10.01.2022, it was found on 08.06.2022.				08.06.2022		
2	Raw Sewage Pump-02	Operational After almost 2 months of non-operational since 13.02.2021, it was made operational on 11.04.2022						
3	Raw Sewage Pump-03	Operational Pressure gauge was showing unusual pressure and its not coming to zero when pump stops.		Discharge line pressure gauge needs to be checked by manufacturer and should be replaced if the issue not resolved.		31.07.2021		LONG PENDING
4	Raw Sewage Pump-04	Operational After almost 2 months of non-operational since 31.12.2021, it was made operational on 07.03.2022, again on 10.05.2022 it become non operational and again found operational on 08.06.2022				08.06.2022		
5	Raw Sewage Pump-05	Operational		Calibration report of PGs needs to be submitted.		27-10-2021	15.01.2022	LONG PENDING


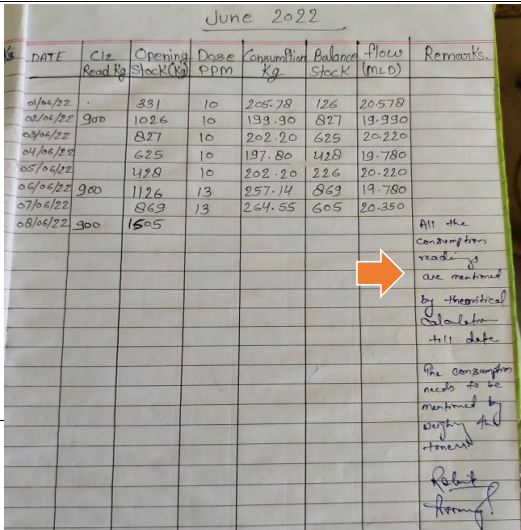
6	Collection Sump Lever sensor	No level transmitter was found inside collection sump		Install the level transmitter at the earliest and maintain the levels of the collection sump on regular basis.		18.11.2021		As per Article 8.8 (a), this has to be provided by the concessionaire
7	Raw Sewage Pumps operation	<p>When UPJN & PE visited site, it was observed that the gate valves of MPS pumps are not opened fully and different pressures are being observed in the PGs of pumps.</p> <p>Apart from this, it was also found that the pumps are not being operated between 2am to 6 am & 10 pm to 1 am on almost daily.</p>		<p>1) Pumps gate valves must be opened properly.</p> <p>2) PGs line should be checked for any blockage and must be cleaned and the valve of PG must be opened fully.</p> <p>3) A CCTV camera needs to be installed at the MPS so that the collection sump, Inlet chamber, MPS equipments operations etc can be monitored.</p>		08.06.2022		<p>At an average of around 23 MLD flow (which is 55 % of the average design flow) is coming, therefore atleast 2 to 3 nos. of pumps has to be operated during peak flow & atleast 1 to 2 nos. of pumps to be operated during non peak flow on regular basis in rotational way to tackle the problem of backflow/ reverse flow.</p> <p>In case the flow increase more than 23 MLD, more pumps needed to be operated.</p>
8	EOT	Operational		Do lubrication work on regular basis				
9	Electro-Magnetic flow meter	<p>Operational</p> <p>After almost 2.5 years since handover, the flow meter is finally calibrated.</p>		Flow meter's flow record must be provided in the log book & MPR		10.05.2022		
10	Panel Room	<p>1) HT Panel & float cum boost charger ammeter not working.</p> <p>2) Some of the indoor light lights not working.</p>		<p>1) HT & LT Panels non-working ammeter need to be replaced.</p> <p>2) Indoor light 7 no. need to be replace.</p> <p>3) Float cum boost charger ammeter need to be repaired immediately.</p>		21-09-2021	15.05.2022	LONG PENDING
C PRIMARY UNIT								
1	Fine screen (No. 1 Mech)	The bar spacing at some places in the screen has increased.		Need to be rectified at earliest.		27-10-2021	15.01.2022	LONG PENDING

2	Fine screen (No.2 Mech)	The bar spacing at some places in the screen has increased.		Need to be rectified at earliest.		27-10-2021	15.01.2022	LONG PENDING
3	Fine Mechanical Screen auto system	No level sensor were present around fine mechanical screen.		1) Level sensor must be installed at earliest. 2) Fine screen must be automated at earliest.		Since handover 11-10-2019	28.02.2021 / New date 30.08.2022	LONG PENDING
4	Belt Conveyor	When UPJN & PE team reached site, we found conveyor belt in still condition and by seeing the belt condition, it has been observed that KRMPL is not running the belt regularly as per requirement. Upon asking by PE team, KRMPL started running the belt. Also no operator/ manpower was present on PTU during visit.		1) Belt conveyor needs to be operated regularly. 2) Required Operator/ manpower must be present on PTU for regular operation.		07.03.2022		
5	PTU On site Panel	Some of the indicators not working		Non working indicators should be replaced.		27-10-2021		LONG PENDING
6	Manual screen	Operational						
7	Grit chamber- 1 1) ORP 2)Scraper/detritor mechanism 3)Rack Classifier Mechanism	Operational It has been observed that torque meter is not available on detritor mechanism which is essential for knowing the equipment performance		1) Canopy must be provide on every motors. 2) Torque meter needs to be provided on detritor mechanism.		31.07.2021 2) 08.06.2022	31.01.2022	Long Pending
8	Grit chamber-2 1) ORP 2)Scraper/detritor mechanism 3)Rack Classifier Mechanism	Operational It has been observed that torque meter is not available on detritor mechanism which is essential for knowing the equipment performance		1) Classifier alignment need to be rectified. 2) Canopy must be provide on every motors. 3) Torque meter needs to be provided on detritor mechanism.		31.07.2021 3) 08.06.2022	31.12.2021 31.01.2022/ 31.05.2022	Long Pending
9	Grit Disposal	No spare trolley was found at site because of which some grits are found on the floor below chutes.		Spare trolley must be provided in case of shifting/ removing grit.		11.01.2022		Pending




10	Parshall Flume	No ultrasonic level sensor was found at site. Also, the fixed scale is not readable.		1) Level sensor must be installed at the earliest. 2) Readable scale must be installed. 3) Chart for flow measurement must be fixed at the earliest. 4) Kindly provide the necessary documents on the basis of which scale reading has been provided. 5) KRMPL must record the flow through parshall flumes at every time intervals on daily basis and its register has to be maintained.		1) Since handover 11-10-2019 2) 11.01.2022		LONG PENDING As per Article 8.8 (a), this has to be provided by the concessionaire
11	PST 1	Operational It has been observed that torque meter is not available on the mechanism which is essential for knowing the equipment performance		1) Vibration check on regular basis through vibration meter and lubrication to be done on regular basis for PST-1. 2) Torque meter needs to be provided.		1) 27-10-2021 2) 08.06.2022	1) 31.01.2022 / 31.05.2022	
12	PST 2	Operational Local push buttons was found not working. It has been observed that torque meter is not available on the mechanism which is essential for knowing the equipment performance.		1) Local push buttons must be rectified at the earliest. 2) Vibration check on regular basis through vibration meter and lubrication to be done on regular basis for PST-2. 3) Torque meter needs to be provided.		27-10-2021 3) 08.06.2022	1) 31.01.2022 2) 15.01.2022/ 31.05.2022	LONG PENDING
13	Primary sludge pump no. 1	Non-Operational		Need to be rectified at earliest.		10.05.2022		Pending
14	Primary sludge pump no. 2	Operational						
D AREATION TANK								
1	Aerator no 1	Operational		Vibration to be checked on regular basis by vibration meter and lubrication needs to be done on regular basis for each areator.		21-09-2021	31.05.2022	LONG PENDING
2	Aerator no 2	Operational		Vibration to be checked on regular basis by vibration meter and lubrication needs to be done on regular basis for each areator.		21-09-2021	31.05.2022	LONG PENDING



3	Aerator no 3	Operational After 1 month of non operational from 06.03.2022, it was made operational on 13.04.2022		Vibration to be checked on regular basis by vibration meter and lubrication needs to be done on regular basis for each areator.		31.07.2021	31.05.2022	LONG PENDING
4	Aerator no 4	Operational		Vibration to be checked on regular basis by vibration meter and lubrication needs to be done on regular basis for each areator.		31.07.2021	31.05.2022	LONG PENDING
5	Aerator no 5	Operational Made operational on 13.01.2022		Vibration to be checked on regular basis by vibration meter and lubrication needs to be done on regular basis for each areator.		1) 08.02.2021 2) 31.07.2021	31.05.2022	LONG PENDING
6	Aerator no 6	Operational		Vibration to be checked on regular basis by vibration meter and lubrication needs to be done on regular basis for each areator.		31.07.2021	31.05.2022	LONG PENDING
7	Aerator no 7	Operational After operating 2nd stream from 18.10.2021 for around 1.5 months, KRMPL again shut down 2nd stream from 06.12.2021.		Vibration to be checked on regular basis by vibration meter and lubrication needs to be done on regular basis for each areator.		31.07.2021	31.05.2022	KRMPL is operating only one stream but no labour force has been deployed for Schedule maintenance works.
8	Aerator no 8	Operational After operating 2nd stream from 18.10.2021 for around 1.5 months, KRMPL again shut down 2nd stream from 06.12.2021.		Vibration to be checked on regular basis by vibration meter and lubrication needs to be done on regular basis for each areator.		31.07.2021	31.05.2022	
9	Aerator no 9	Operational After operating 2nd stream from 18.10.2021 for around 1.5 months, KRMPL again shut down 2nd stream from 06.12.2021.		Vibration to be checked on regular basis by vibration meter and lubrication needs to be done on regular basis for each areator.		31.07.2021	31.05.2022	
10	Aerator no 10	Operational Made operational on 19.02.2022		Vibration to be checked on regular basis by vibration meter and lubrication needs to be done on regular basis for each areator.		31.07.2021	31.05.2022	
11	Aerator no 11	Operational After operating 2nd stream from 18.10.2021 for around 1.5 months, KRMPL again shut down 2nd stream from 06.12.2021.		Vibration to be checked on regular basis by vibration meter and lubrication needs to be done on regular basis for each areator.		18-11-2021	31.05.2022	
12	Aerator no 12	Operational After operating 2nd stream from 18.10.2021 for around 1.5 months, KRMPL again shut down 2nd stream from 06.12.2021.		Vibration to be checked on regular basis by vibration meter and lubrication needs to be done on regular basis for each areator.		31.07.2021	31.05.2022	

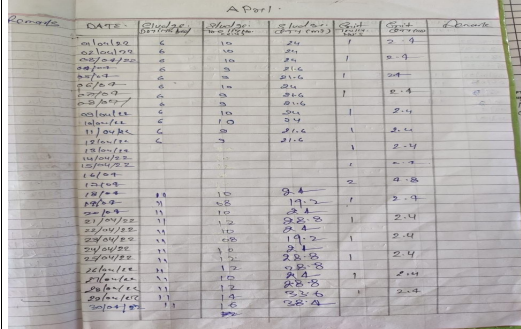
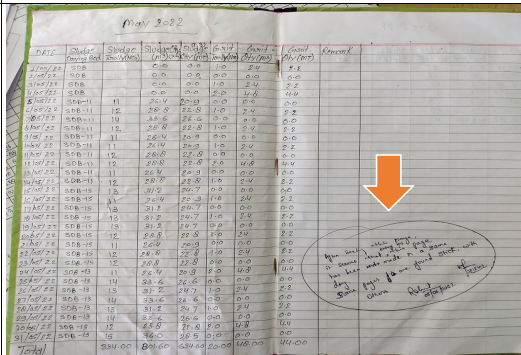
13	Aerators on-site push button and indicator	None of aerator's onsite push buttons and indicators were found working		All aerator's push buttons and indicators needs to be rectified/ replaced.		07.03.2022	15.05.2022	LONG PENDING 15.05.2022 date proposed by KRMPL for rectification vide KRMPL Letter no. 2453 dated 11.05.2022 but not rectified yet.
E	SECONDARY CLARIFIER AREA							


1	SST 1	Non-Operational		Need to be rectified at the earliest Simultaneously Schedule maintenance work needs to be conducted through the manufacturing agency and get it inspected by UPJN & PE.		04.05.2022		Pending
2	SST 2	Operational						
3	Return sludge pump 1	Non-Operational		Needs to be repaired at the earliest.		20.04.2022		
4	Return sludge pump 2	Operational		Some of the non working indicators needs to be replaced.		10.05.2022		
5	Return sludge pump 3	Non-Operational Pressure Gauge not available		1) Needs to be repaired at the earliest. 2) Pressure gauge must be fixed at earliest.		09.12.2021	31.01.2022/ 31.05.2022	LONG PENDING
F CHLORINATION AREA								
1	Chlorine Tonners(Total Qty.=06 Nos)	Operational 1) Chlorine cylinder is found totally rusted. 2) It has been observed that the mentioned chlorine dosing record is exact (upto two decimal points) @ 10 ppm as per flow for whole month, which can't be possible and this implies that still KRMPL is not making the entry by weighing the tonners. 3) Pressure gauge was not found working. 4) Some of the indoor lights were not working. 5) No permanent operator was found for chlorination unit.		1) KRMPL must check the expiry of the tonners and needs to make the documents available at tonner room. 2) Chlorine dosage entry must be done by weighing the tonners not by theoretical calculation. 3) Pressure gauge in tonner room must be replaced at earliest. 4) Non-working indoor lights must be replaced. 5) Experienced and permanent operator must be deployed for chlorination unit. 6) KRMPL must ensure no chlorine leakage from the tonner and chlorination system.		10.05.2022 27.10.2021		LONG PENDING


2	Booster Pump no. 1 & 2	<p>1) Operator doesn't know the operation perfectly.</p> <p>2) Even after closing the gate valves, some flow was observed through valves. Also leakage through valve was found</p>		<p>1) Leakage from Gate valve and through its internal gland must be fixed at earliest.</p> <p>2) Deploy experienced operator who knows the operation.</p>		21-09-2021	15.01.2022	LONG PENDING
3	Chlorination Leak detection device	<p>During visit, cylinder was changed and there was leakage of chlorine but leak detecting device sensor doesn't sensed chlorine. It shows that leak detecting device is not working.</p> <p>Non-Operational</p>		Leakage detection device should be rectified and get it checked by UPJN/ PE		31.07.2021	31.05.2022	LONG PENDING
4	Safety shower	Operational						
G	Sludge system							
1	Sludge thickeners 1	<p>Operational</p> <p>1) When UPJN & PE team reached site, it was found that very less amount of supernatant was overflowing through some part of the weir notch. Apart from this, only dilution water intake was taking place at the time of visit and no intake of primary & secondary sludge were found.</p> <p>2) Also, at various points weir plate was found damaged & choked.</p> <p>3) No record of dilution water intake to thickeners was found at site.</p>		<p>1) Sludge thickener must be operated regularly, processing needs to be stabilised and proper expertise must be given to the plant incharge monitoring the operation. Also experienced operator must be deployed.</p> <p>2) Overhaul whole mechanical system</p> <p>3) Damaged & choked weir plates must be cleaned and rectified.</p> <p>4) Dilution water intake & supernatant overflow record need to be maintained.</p> <p>5) TSS test of supernatant overflowing thickener needs to be conducted and recorded.</p> <p>In the meeting dated 11.04.2022, ED (T) NMCG directed KRMPL to take appropriate measures to stabilize the thickening process at the earliest.</p>		03.03.2021		LONG PENDING


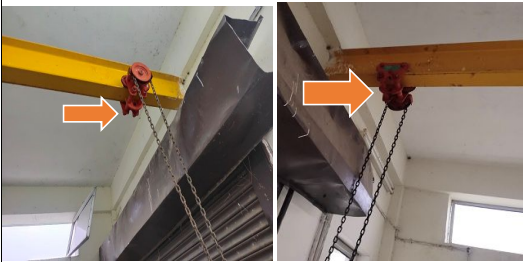
2	Sludge thickeners 2	<p>Operational</p> <p>After around 10 months of non-operational since 03.03.2021, it was made operational on 07.01.2022.</p> <p>This thickner was taken into cleaning and without informing/ witnessing it to UPJN or PE, sludge was filled on 07.01.2022.</p> <p>1) When UPJN & PE team reached site, it was found that no supernatant was overflowing through the weir notch and water level inside thickener was found approx. 300 mm below weir notch. Apart from this, dilution water & primary sludge intake was taking place at the time of visit.</p> <p>2) Also, at various points weir plate was found damaged & choked.</p> <p>3) No record of dilution water intake to thickeners was found at site.</p>		<p>1) Sludge thickner must be operated regularly, processing needs to be stabilised and proper expertise must be given to the plant incharge monitoring the operation. Also experienced operator must be deployed.</p> <p>2) Damaged & choked weir plates must be cleaned and rectified.</p> <p>3) Dilution water intake & supernatant overflow record need to be maintained.</p> <p>4) TSS test of supernatant overflowing thickener needs to be conducted and recorded.</p> <p>In the meeting dated 11.04.2022, ED (T) NMCG directed KRMPL to take appropriate measures to stabilize the thickening process at the earliest.</p>		11.01.2022		LONG PENDING
3	Thickened sludge pump 1	Operational						
4	Thickened sludge pump 2	Operational						
5	Sludge digester-01	Operational						
6	Sludge digester-02	<p>Operational</p> <p>KRMPL submitted Voltas inspection report for the inspection of the digester done on 07.03.2022 on which PE has given condition clearance to charge sludge into Digester no. 2 only after complying the conditions mentioned in STC letter no. 1526 dated 01.04.2022.</p> <p>KRMPL has charged the digester without complying STC letter no. 1526.</p>		<p>In the meeting dated 11.04.2022, ED (T) NMCG instructed KRMPL that it is the duty of KRMPL to get every rectification work witnessed by PE & UPJN and the issues raised by UPJN & PE must be complied.</p>		<p>11.04.2022</p> <p>01.06.2020</p>		
7	Flow Meter for Bio gas.	Non-Operational		Must be rectified at the earliest		18.11.2021	28.02.2022 / 31.07.2022	<p>LONG PENDING</p> <p>31.07.2022 date is proposed by KRMPL vide KRMPL Letter no. 2453 dated 11.05.2022.</p>

8	Gas engine -1	Operational						
9	Gas engine -2	Operational						
10	Gas engine -3	Non Operational		Need to be rectified at earliest.		15.04.2022		
11	Gas Scrubbers	Operational		UPJN has advised KRMPL to connect a pipe from scrubber exit directly to H2S analyser for knowing the value of H2S present in scrubbed gas just exiting scrubber.		11.01.2022		Pending
12	Bio gas blower 1 & 2	Operational						
13	Pressure & Temperature Gauges inside Scrubber room	Various pressure & temperature gauges were found not working		Pressure & temperature gauges needs to be replaced		07.03.2022	31.05.2022	Pending
14	Sludge drying bed 1	Filled with sludge		Beds are required to be emptied periodically and Sludge to be disposed on regular basis		23.02.2021		LONG PENDING
15	Sludge drying bed 2	Filled with sludge since 04.01.2022				04.01.2022		LONG PENDING
16	Sludge drying bed 3	Filled with sludge since 08.03.2022				08.03.2022		LONG PENDING
17	Sludge drying bed 4	This bed was filled with sludge since 23.02.2021 and found empty/ cleaned during UPJN & PE visit on 08.06.2022 but no record of cleaning was found in the log book				08.06.2022		No record of disposal of sludge was found in the register.
18	Sludge drying bed 5	After approx 4 months since 12.02.2022, the sludge cleaning work started from 03.06.2022 and cleaning work was found in progress.		Beds are required to be emptied periodically and Sludge to be disposed on regular basis		12.02.2022		LONG PENDING

19	Sludge drying bed 6	Cleaning work in progress since 01.04.2022 but no work done after 12.04.2022		Beds are required to be emptied periodically and Sludge to be disposed on regular basis	11.04.2022	As per KRMPL Letter no. 2453 dated 11.05.2022 , out of the remaining 17 beds, 5 beds will be cleaned by 31.05.2022, 5 beds by 31.06.2022 & balance 7 by 31.07.2022	Pending
20	Sludge drying bed 7	Filled with sludge		Beds are required to be emptied periodically and Sludge to be disposed on regular basis	23.02.2021		LONG PENDING
21	Sludge drying bed 8	Filled with sludge					
22	Sludge drying bed 9	Filled with sludge					
23	Sludge drying bed 10	Filled with sludge					
24	Sludge drying bed 11	<p>When UPJN & PE visited site, it was found that the register pages found stick with each other and complete data was found maintained in a single day.</p> <p>After approx 1.2 years since 23.02.2021, the sludge cleaning work started from 18.04.2022 and was completed on 14.05.2022</p>		Record keeping must be done properly and such kind of page sticking and inappropriate record keeping must be stopped.	08.06.2022		
25	Sludge drying bed 12	This bed was filled with sludge since 23.02.2021 and found empty/ cleaned during UPJN & PE visit on 08.06.2022 but no record of cleaning was found in the log book			08.06.2022		No record of disposal of sludge was found in the register.
26	Sludge drying bed 13	Desludging work which was pending since 07.03.2022 was started from 24.05.2022 and the work was completed on 31.05.2022.			08.06.2022		
27	Sludge drying bed 14	After approx 1.1 years since 23.02.2021, the sludge cleaning work started from 09.03.2022 and cleaning work was completed on 31.03.2022			11.04.2022		
28	Sludge drying bed 15	Desludging work which was pending since 07.03.2022 was started from 15.05.2022 and the work was completed on 02.06.2022.			08.06.2022		
29	Sludge drying bed 16	Filled with Sludge since 07.03.2022.		Beds are required to be emptied periodically and Sludge to be disposed on regular basis	07.03.2022	LONG PENDING	
30	Sludge drying bed 17	Filled with Sludge since 07.03.2022.			07.03.2022	LONG PENDING	
31	Sludge drying bed 18	Filled with sludge			23.02.2021	LONG PENDING	

32	Sludge disposal from digester to Sludge drying bed.	When UPJN & PE visited site on 08.06.2022, all sludge drying beds were jointly seen by UPJN & PE and no wet sludge was found in any of the drying beds even when there is continuous sludge disposal taking place from the digesters as per KRMPL record keeping.		<p>This type of issue raises a question of doubt regarding sludge disposal and KRMPL record keeping.</p> <p>Sludge disposal needs to be done regularly as per the requirement to stabilize the processing and false record keeping needs to be stopped.</p>		08.06.2022		
33	Sludge drying bed	Leakage found around sludge drying bed		<p>1) Needs to be restored at the earliest.</p> <p>2) RCC Slab must be provided on all chambers.</p>		29.10.2021	15.06.2022	Pending
34	Tubewell pump 1	Operational						
35	Dilution water submersible pump-1	Operational						

36	Dilution water submersible pump- 2	Operational						
37	Filtration pump no. 1	Operational After around 2 months of non-operational since 01.12.2021 , it was made operational on 07.02.2022.		Ammeter & Voltmeter needs to be replaced		01.12.2021		Pending
38	Filtration pump no. 2	Operational						
Miscellaneous								
1	Motor Canopy	STC found that no canopies were present on the motors of equipments		Fix canopy to each motors of equipments.		27-10-2021	31.01.2022/ 30.05.2022	Long Pending
2	Outdoor lighting	When STC team visited site, it was found that various outdoor lights were not working		Needs to be replaced at the earliest. In the meeting dated 11.04.2022, ED (T) NMCG directed KRMPL to install all lights within a day (i.e, 13.04.2022) and must ensure its 100% availability/ functioning.		27.10.2021 (since long back)	30.06.2022	Long Pending
3	Laboratory	<p>1) Deployed Chemist do not have the right training/ experience for conducting laboratory analyses. The chemist was not aware of COD temperature settling point for the Soxhelt apparatus.</p> <p>2) Inside temperature of fridge where composite samples are stored, was found 28° C which is not acceptable.</p> <p>3) Daily analysis results reported by KRMPL are not matching with NABL laboratory (Shriram) / IIT Kanpur laboratory reports.</p> <p>4) Soxhelt apparatus was found faulty with the temperature knobs not working properly.</p> <p>5)The list of equipment working/ not-working does not show adequate details about the condition of the equipment and details of repair/replacement and calibration needs.</p> <p>6) Calibration of lab equipments are not done from years as informed by Lab chemist & Plant Incharge.</p> <p>7) The measurement of residual D.O in aeration basins using portable D.O meter were not being done in-situ in the tank, instead were measured in the samples taken outside of these basins, could lead to erroneous results.</p>		<p>1) Trained chemist has to be deployed for testings at laboratory.</p> <p>2) Separate fridge for storing composite samples needs to be provided to achieve required temperature of 4° C.</p> <p>3) Laboratory testings needs be done correctly by following right procedure.</p> <p>4) Soxhelt apparatus must be rectified at the earliest.</p> <p>5) List of equipment working/ not-working must be maintained properly and for all equipments.</p> <p>6) All lab equipments must be calibrated and the calibration report needs to be submitted to UPJN & PE for review.</p> <p>7) The measurement of residual D.O in aeration basins using portable D.O meter has to be done in-situ in the tank only.</p> <p>8) A piping system must be connected to exhaust of laminar air flow cabinet and must be discharged outside laboratory room/ building.</p>		27-10-2021		LONG PENDING

4	Log Books & Register	<p>No log book of dilution water, supernatant overflow from thickeners etc, filtration pump operation etc found at site.</p> <p>Apart from this, it was found that the drying bed desludging register pages found stick with each other and complete data was found maintained in a single day.</p> <p>Drying beds no. 4 & 12 was found empty but no record of it was found in the register which implies that false & misleading entries were maintained in the logbooks/ registers.</p>		<p>1) Log Books and registers must be maintained and remain available for all units.</p> <p>2) Maintenance register must be filled properly.</p>				Maintenance register proper filling suggestions had already been given to KRMP site incharge.
5	House Keeping works	At various locations inside the plant, no house keeping works was found.		<p>1) House keeping work at all locations inside the plant has to be done for which deployment of manpowers needs to be done.</p> <p>2) Do the house keeping works on regular basis</p>		27-10-2021		LONG PENDING
6	Equipments Numbering			Numbering must be provided in bold letters to all the equipments so that it could be seen easily and there should not remain any confusion about which item is no. 1 & which is no. 2		27-10-2021	31.01.2022	LONG PENDING Not done completely and it should be done properly.
7	Manually operated crane	Manually operated crane pulley in Return sludge pump house, primary sludge pump house, thickened sludge pump house etc. were missing lifting chain.		Provide the lifting chain at every places.		18.11.2021		LONG PENDING
8	Gas Holders			Level scale must be provided showing capacity of gas at various levels.		08.02.2022		LONG PENDING

P. Gurusaran