




SITE INSPECTION REPORT FOR 42 MLD Sajari STP


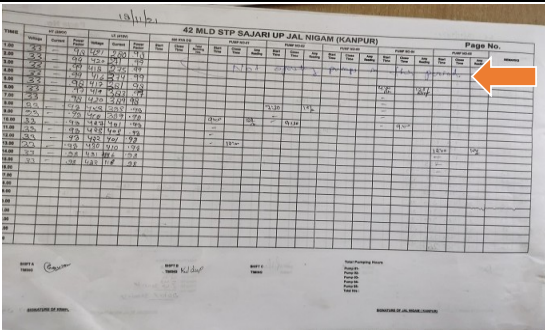

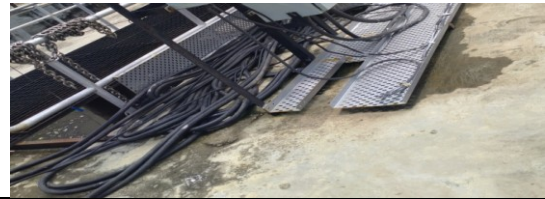

SAJARI STP



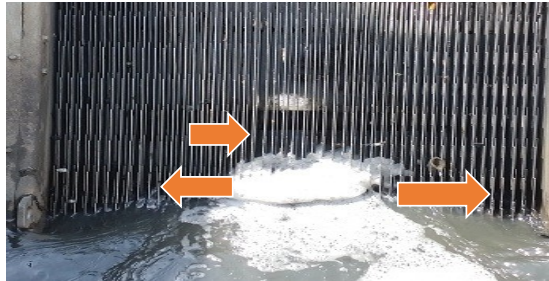
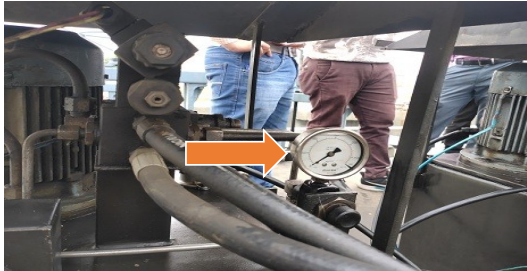
Date:
18.11.2021






INSPECTED BY:
STC Team:
1) Mr. Rohit Suman (Supp. Engr. Mech.)
2) Mr. Rahul Sarwan (Supp. Engr. Ele.)
3) Mr. Pankaj Rawat (Support Supervisor)







SN	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	Current Status of Compliance
A	INLET CHAMBER							
1	Inlet Sluice Gates	Operational		Lubrication must be done on regular basis		18-11-2021		
2	Mech. Coarse screen (no.1)	1) Auto-system is installed recently but not working properly. 2) Screen motor canopy was found supported with brick		1) Auto system level settings needs to be done for proper functioning. 2) Provide proper support if needed		Since handover 11-10-2019		LONG PENDING
		3) Some of mechanical Screen rake teeth was found missing.		Screen Rake needs to be replaced / rectified.		18.11.2021		
3	Mech. Coarse screen (no.2)	Manually operational but not automated		Level sensor has to be installed at earliest for automation.		Since handover 11-10-2019		LONG PENDING

4	Mechanical Screen Level transmitter display	1) Auto System of Mech Coarse Screen -1 & 2 are Under Maintenance 2) Not operating the mechanical screen perfectly 3) Level sensor of 2nd mechanical screen is not available		1) The level has to be correctly set as per the inflow level. 2) Closing gate must be fixed to the level transmitter casing box. 3) Painting needs to be done on the casing box.		Since handover 11-10-2019		LONG PENDING
5	Belt Conveyor	Operational						
6	Belt Conveyor disposal	STC team found no trolley available for shifting debris.		1) Provide trolley. 2) Remove the debris/disposal materials regularly.		31.07.2021		PENDING
7	Mech. Coarse Screen On-site Panel	Door glasses not available and some of the indicators not working		1) Door glass must be fixed. 2) Non working indicators should be replaced.		31.07.2021		LONG PENDING
B	RAW SEWAGE PUMPING							
1	Raw Sewage Pump-01	Operational		Discharge line pressure gauge needs to be replaced		21-09-2021		LONG PENDING
2	Raw Sewage Pump-02	Operational No pressure gauge were found and the PG line was found chocked		Discharge line pressure gauge needs to be fixed and the PG line must be cleaned		31.07.2021		LONG PENDING
3	Raw Sewage Pump-03	Operational		Discharge line pressure gauge needs to be replaced		31.07.2021		LONG PENDING
4	Raw Sewage Pump-04	Operational		Discharge line pressure gauge needs to be replaced.		31.07.2021		LONG PENDING
5	Raw Sewage Pump-05	Operational		Discharge line pressure gauge needs to be		27-10-2021		




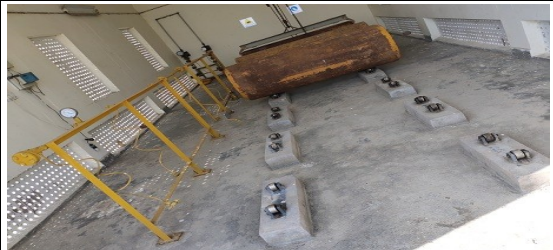

6	Collection Sump Lever sensor	No level transmitter was found inside collection sump		Install the level transmitter at the earliest and maintain the levels of the collection sump on regular basis.		18.11.2021		
7	Raw Sewage Pumps operation	1) STC found that the pumps were not being operated as per requirement. 2) Pumps were found not being operated in night hours.		Run the pumps as per requirement to avoid back flow at all time		27-10-2021		
8	EOT	Upward movement of rope is not working properly		Overhauling needs to be done.		27-10-2021		Pending
9	Raw Sewage Pump Starter cable	Raw Sewage pump starter cable dressing are not done		Need to do dressing of cable starter properly		31.07.2021		LONG PENDING
10	Raw Sewage Pump Starter-5			Need to repair the starter of raw sewage		27-10-2021		Pending
11	DI Common header Line	Water logging found		1) Dewatering and cleaning work must be done at earliest. 2) Minor leakage from gate valve must be rectified .		27.10.2021		Pending




12	Electro-Magnetic flow meter			Get the calibration done & submit the calibration certificate at earliest		Since handover 11-10-2019		LONG PENDING
13	Panel Room	1) HT Panel & float cum boost charger ammeter not working. 2) Some of the indoor light lights not working. 3) One no. exhaust fan not working.		1) HT Panel ammeter need to be replace. 2) Indoor light 7 no. need to be replace. 3) Exhaust fan 1 no. need to be repair. 4) Float cum boost		21-09-2021		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		Pending
2	Fine screen (No.2 Mech)	The bar spacing at some places in the screen has increased.		Need to be rectified at earliest. Pressure gauge need to be replace.		27-10-2021		Pending
3	Fine Mechanical Screen auto system	1) No level sensor were present around fine mechanical screen. 2) Pressure gauges not working		1) Level sensor must be installed at earliest. 2) Fine screen must be automated at earliest. 3) Pressure gauges needs to be replaced		Since handover 11-10-2019		LONG PENDING
4	Cable tray	Fine Screen cable tray has been found in Rusted condition		Need to paint the rusted cable tray		21-09-2021		LONG PENDING


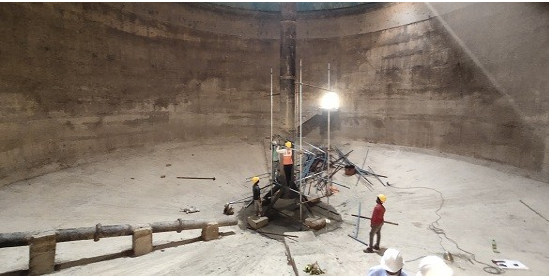



5	PTU On site Panel	Door glasses not available and some of the indicators not working		1) Door glass must be fixed. 2) Non working indicators should be replaced. 3) Panel box painting need to be done.		27-10-2021		Pending
6	Manual screen	Operational						
7	Grit chamber-1 1)Organic pump withMotor 2)Scrapper 3)Clasifier Mechanism	Operational		1) Classifier alignment need to be rectified. 2) Canopy must be provide on every motors. 3) Numbering of Grit Mechanism must be done in bold letter so that it can be seen from far positions also.		31.07.2021		LONG PENDING
8	Grit chamber- 2 1)Motor 2)Scrapper/Starter 3)Rack Clasifier Mechanism	Operational 1) ORP was found in non working condition. 2) Local push buttons was found not working		1) ORP must be rectified at earliest. 2) Canopy must be provide on every motors. 3) Local push button must be rectified at the earliest. 3) Numbering of Grit Mechanism must be		31.07.2021		LONG PENDING
9	Grit Disposal	No trolley was found available at Grit disposal area below Fine Mech. Screen chute & grit classifier chute	 	1) Remove the grit on regular basis. 2) Provide tractor trolley below chutes.		27-10-2021		Pending

10	Parshall Flume	No ultrasonic level sensor and no scale were found at site		1) Level sensor must be installed at earliest. 2) Scale & chart for flow measurement must be fixed at earliest.		Since handover 11-10-2019		LONG PENDING
11	PST 1	Operational Sewage is not flowing uniformly through weir notch		1) Weir notch must be levelled at earliest, 2) Vibration check on regular basis. And lubrication require for PST-1.		27-10-2021		Pending
12	PST 2	Started operating 2nd stream from 18-10-2021 1) Sewage is not flowing uniformly through weir notch. 2) Local push buttons was found not working		1) Weir notch must be levelled at earliest. 2) Local push buttons must be rectified at the earliest. 3) Vibration check on regular basis. And lubrication require for		27-10-2021		Pending
13	Cable tray of PST-1 & PST-2	PST-1 & PST -2 Cable tray has been found rusted condition		Need to paint the rusted cable tray		31.07.2021		LONG PENDING
D	AREATION TANK							
1	Aerator no 1	Operational		1) Bottom part rusted, Overhauling and servicing required. 2) Vibration check on regular basis. And lubrication require for each areator.		21-09-2021		LONG PENDING
2	Aerator no 2	Operational		Vibration check on regular basis. And lubrication require for each areator.		21-09-2021		LONG PENDING


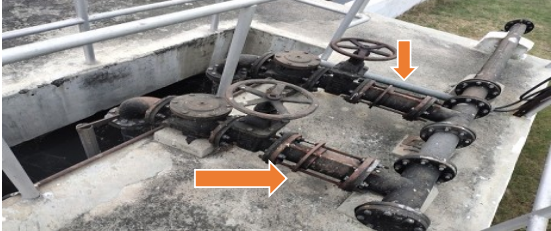
	Aerator no 2	Aerator no. 2 Cable Dressing are not done		Need to be dressing of cable for Aerator no.2 properly		31.07.2021		LONG PENDING
3	Aerator no 3	Operational		Vibration check on regular basis. And lubrication require for each areator.		31.07.2021		
4	Aerator no 4	Operational		Vibration check on regular basis. And lubrication require for each areator.		31.07.2021		
5	Aerator no 5	Operational		Vibration check on regular basis. And lubrication require for each areator.		31.07.2021		
6	Aerator no 6	Operational		Vibration check on regular basis. And lubrication require for each areator.		31.07.2021		
7	Aerator no 7	Started operating 2nd stream from 18-10-2021		Vibration check on regular basis. And lubrication require for each areator.		31.07.2021		
8	Aerator no 8	Started operating 2nd stream from 18-10-2021		Vibration check on regular basis. And		31.07.2021		
9	Aerator no 9	Started operating 2nd stream from 18-10-2021		Vibration check on regular basis. And		31.07.2021		
10	Aerator no 10	Started operating 2nd stream from 18-10-2021		Vibration check on regular basis. And		31.07.2021		
11	Aerator no 11	Started operating 2nd stream from 18-10-2021		Vibration check on regular basis. And		18-11-2021		
12	Aerator no 12	Started operating 2nd stream from 18-10-2021		Vibration check on regular basis. And lubrication required for each areator.		31.07.2021		
E	SECONDARY CLARIFIER AREA							



1	SST 1	Operational 1) Hand railing was not found beside RCC stair 2) Sewage is not flowing		1) Hand railing must be provided at the earliest 2) Weir notch must be levelled at earliest.		27-10-2021		Pending
2	SST 2	Started operating 2nd stream from 18-10-2021 1) Sewage is not flowing uniformly through weir notch		Weir notch must be levelled at earliest.		18.11.2021		
3	Return sludge pump 1	Non-Operational		1) It is required to immediately rectify. 2) Discharge line pressure gauge needs to be replaced		03.03.2021		PENDING
4	Return sludge pump 2	Operational Pressure Gauge not available		Pressure gauge must be fixed at earliest.		21-09-2021		PENDING
5	Return sludge pump 3	Operational Pressure Gauge not working		1) Pressure gauge must be replaced at earliest. 2) Need dressing of cable.		21-09-2021		PENDING
F	CHLORINATION AREA							
1	Chlorine Tonners (Total Qty.=06 Nos)	Operational 1) STC found 03 nos chlorine tonners missing. 2) STC found leakages in the chlorine when connected with second chlorine stream.		1) Install back the remaining tonners at earliest. 2) The leakages found must be fixed at earliest.		01-04-2020		PENDING
2	Booster Pump no. 1 & 2	1) STC team found that the operator is not running booster pumps, Upon asking by STC, Operator started running the pumps. 2) Operator doesn't know how to operate the booster pumps. 3) PGs was found not working.		1) Run the booster pumps everytime. 2) Leakage from Gate valve must be fixed at earliest. 3) Deploy experienced operator who knows the operation.		21-09-2021		PENDING


3	Chlorination Leak detection device	During visit, cylinder was changed and there was leakage of chlorine but leak detecting device sensor doesn't sense chlorine. It shows that leak detecting device is not working.		Leakage detection device should be rectified.		31.07.2021		PENDING
4	Safety shower	Operational						
G	Sludge system							
1	Sludge thickeners 1	Operational Sludge Thickener is filled with sludge and influent is not properly treated by Sludge Thickener. Sludge withdrawal not properly.		1) Do cleaning of Sludge thickner and pits. 2) Overhaul whole mechanical system		03.03.2021		PENDING
2	Sludge thickeners 2	Non-Operational		1) Must be rectified at the earliest. 2) Sludge Thickener is filled with sludge and influent is properly not treated by Sludge Thickener. Sludge withdrawal not properly.		03.03.2021		PENDING
3	Thickened sludge pump 1	Operational						
4	Thickened sludge pump 2	Operational						

5	Sludge digester-01	Operational						
6	Sludge digester-02	Pending from long time Non-Operational		Needs to be rectified at the earliest		01.06.2020		PENDING
7	Flow Meter for Bio gas.	Non-Operational		Must be rectified at the earliest		18.11.2021		
8	Gas engine -1	Operational						
9	Gas engine -2	Operational						
10	Gas engine -3	Operational						
11	Gas Scrubbers	Operational						
12	Bio gas compressor - 1	Operational						
13	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		No record of disposal of sludge is available.

14	Sludge drying bed 2	Filled with sludge		Beds are required to be emptied periodically and Sludge to be disposed on regular basis		23.02.2021		No record of disposal of sludge is available.
15	Sludge drying bed 3	Filled with sludge		Beds are required to be emptied periodically and Sludge to be disposed on regular basis		23.02.2021		No record of disposal of sludge is available.
16	Sludge drying bed	Filled with sludge		Beds are required to be emptied periodically and Sludge to be disposed on regular basis		23.02.2021		No record of disposal of sludge is available.
17	Sludge drying bed 5	Filled with sludge						
18	Sludge drying bed 6	Filled with sludge						
19	Sludge drying bed 7	Filled with sludge						
20	Sludge drying bed 8	Filled with sludge						
21	Sludge drying bed 9	Filled with sludge						
22	Sludge drying bed 10	Filled with sludge						
23	Sludge drying bed 11	Filled with sludge						
24	Sludge drying bed 12	Filled with sludge						
25	Sludge drying bed 13	Filled with sludge						
26	Sludge drying bed 14	Filled with sludge						
27	Sludge drying bed 15	Filled with sludge						
28	Sludge drying bed 16	Filled with sludge						
29	Sludge drying bed 17	Filled with sludge						
30	Sludge drying bed 18	Filled with sludge						

31	Sludge drying bed	Leakage found around sludge drying bed		Needs to be restored at the earliest		29.10.2021		Pending
32	Tubewell pump 1	Operational						
33	Dilution water submersible pump-1	Operational Various Nut bolts was found rusted		Replace all rusted nut bolts with GI nut bolts		18.11.2021		

34	Dilution water submersible pump-2	Operational 1) Various Nut bolts was found rusted. 2) Cable tray was found rusted		1) Replace all rusted nut bolts with GI nut bolts. 2) Painting must be done on cable tray.		18.11.2021		
35	Treated effluent outlet channel							
Miscellaneous								
1	Motor Canopy	STC found that no canopies were present on the meters of		Fix canopy to each meters of equipments		27-10-2021		Pending
2	Chlorination Unit Stock & consumption	Not available in the chlorination room		Stock and consumption register must be maintained and remain		27-10-2021		Pending
3	Laboratory	1) Samples collected are not labelled. 2) There is no date wise record of base data available at the lab. 3) Cooling jacket setup was found improper. 4) BOD samples found in the incubator were not labelled. 5) Filter paper used for TSS measurement was found to be washed and used. 6) Fecal coliform tests were not		1) Samples collected must be labelled. 2) Lab. Chemist has to maintain date wise base data of all the testings done. 3) Cooling jacket must be correctly installed. 4) Only new filter paper must be used for every testings. 5) Fecal coliform tests		27-10-2021		Pending
4	Log Books			Log Books must be maintained and remain available for all units		27-10-2021		Pending
5	House Keeping works			Do the house keeping works on regular basis		27-10-2021		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		27-10-2021		Pending

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		
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