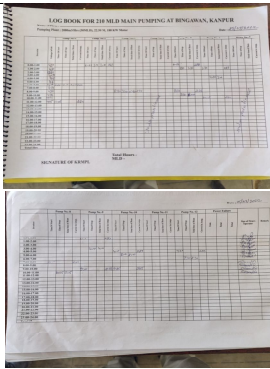




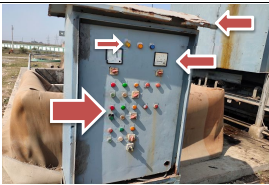










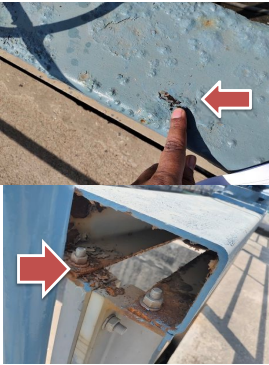



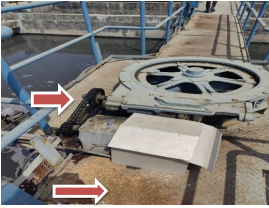



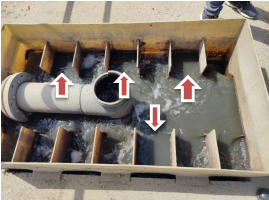









SITE INSPECTION REPORT FOR 210 MLD STP BINGAWAN					BINGAWAN STP - 210 MLD		Date: 25.03.2022	INSPECTED BY: STC Team: 1) Mr. J.P. Tripathi, (O&M Expert) 2) Mr. Satish Kamraju (Process Expert) 3) Mr. Rohit Suman (Supp. Engineer Mechanical) 4) Mr. Pankaj Rawat (Supp. Supervisor Civil) KRMPPL Team: 1) Mr. Abhishek Pandey (Process Engr.) 2) Mr. Sundeep Sharma (Site Incharge)
S. No.	Equipment	Assessment of Current Condition	Assessment of Current Condition photo	Corrective Action Required	Corrective Action Completed by KRMPPL	Original Date of Issue	Proposed Date to Resolve by KRMPPL	Current Status of Compliance
1	Bypass Sluice Gate							
2	Reverse flow			At an average of 130 MLD flow (which is 62 % of the average design flow) is coming, therefore atleast 5 nos. of pumps are to be operated during peak flow & atleast 3 nos. pumps to be operated during non peak flow on regular basis in rotational way to tackle the problem of backflow/ reverse flow. In case the flow increase more than 130 MLD, more pumps needed to be operated.		26-10-2021		The plant is designed for an average flow of 210 MLD and a peak flow of 420 MLD and for that 8 working pumps are provided. So when the average flow is 130 MLD (i.e. 62% of designed flow) which means peak flow is 260 MLD, then 5 nos. (i.e. 62% of provided pumps as per design) of pumps to be operated at peak hours and 3 pumps to be operated at non-peak hours, which KRMPPL is not following KRMPPL Letter no. 2056 dated 30.12.2021 (for compliance to inspection carried on 26.11.2021 by PE) shows that KRMPPL is not able to understand the logic which has clearly been explained above. Also KRMPPL is mentioning peak flow as 200 MLD in his letter which is wrong. Peak flow for 130 MLD average flow, is 260 MLD.
3	Sluice gates			1) Some of the nuts were found missing which needs to be provided. 2) Lubrication must be done on regular basis.		22.02.2022		
4	Mechanical Coarse screen (No.01)	1) When STC / UPJN team reached the site, it was found that the screen was only running but not functioning properly. 2) Rake has not been properly aligned yet.		1) Mechanical screen must be overhauled at earliest. 2) Painting needs to be done on the stairs, walkway, handrails etc items. 3) Chain cover must be provided. 4) Log book of mechanical screen must be maintained.		28-01-2020		Long Pending
5	Mechanical Coarse screen (No.02)	Non Operational 1) After almost 1.1 years of non-operational since 03.02.2021, the mechanical screen is finally aligned on 22.02.2022 and was operational but on 24.03.2022 it was again found non-operational. 2) No log book of mechanical screens was being maintained by KRMPPL.		1) Mechanical screen must be rectified at the earliest. 2) Painting needs to be done on the stairs, walkway, handrails etc items. 3) Chain cover must be provided. 4) Log book of mechanical screen must be maintained.		24.03.2022 03.02.2021	30.10.2021	Long Pending
6	Manual bar Screen no.01	Operational 1) Cleaning work of screening is not being done. 2) MS Staire case, handrails etc found totally rusted.		1) Screenings must be cleaned regularly. 2) Painting needs to be done properly on the stairs, handrails etc items.		22.02.2022 26.11.2021		Long pending
7	Manual bar Screen no.02	Operational 1) Cleaning work of screening is not being done. 2) MS Staire case, handrails etc found totally rusted.		1) Screenings must be cleaned regularly. 2) Painting needs to be done on the stairs, handrails etc items.		22.02.2022 26.11.2021		Long pending
8	MPS Inlet chamber	When STC team reached the site on 25.03.2022, it was found that out of 2 Mechanical coarse screen sluice gates and 2 manual screen sluice gates, only one mechanical screen sluice gate was found in open condition resulting in reverse flow in the screen chamber.		Required no. of sluice gates of mechanical screen and manual screen (when required), must be opened so that reverse flow must not occur in screening chamber.		25.03.2022		



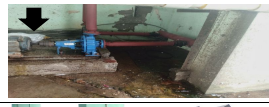



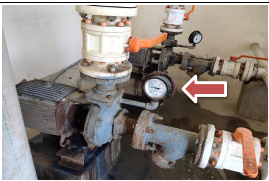
9	Coarse Screen Panel	Operational		1) All Panel indicator need to be repaired/ replace 2) Ammeter needs to be replaced. 3) Damaged body part must be replaced and painting needs to be done properly.	28-01-2020	15.11.2021	Long Pending
10	Conveyor belt	Operational		1) Debris disposal from the belt conveyor to be done regularly. 2) Trolley must be provided every time and at the time of shifting debris, spare trolley also needs to be provided.	25.03.2022		
11	Sluice Gate Slab	When STC team reached the site, it was again found that the damaged slab which was casted in the past has again found damaged. This means that KRMPL is not doing casting work properly and not deployed any civil engineer as of now at site for supervision work.		1) Do the casting work properly under the supervision of civil engineer. 2) Deploy Civil engineer for the supervision works.	22.02.2022 26.10.2021		Pending
12	Main Pump House Sump	When STC team reached the site, some garbage was again found in the sump.		Garbage must be cleaned from the sump and mechanical screen must be operated regularly to avoid such conditions i.e., garbage carry over.	25.03.2022		
13	Cable tray	Cable tray was found rusted		Needs to be painted	18-08-2021		Long Pending
14	Butterfly Valve chamber (Civil work)	1) Finishing work is not completed yet. 2) Proper slab placing, finishing works etc found not completed. 3) Also the pipe for air valve was found bend.		1) To complete RCC finishing works at the earliest. 2) Proper slab placing work needs to be done at the earliest. 3) Painting and finishing works needs to be done 4) Air valve pipe must be fixed and air valve should be installed at the earliest.	01.04.2021	30.10.2021	Long Pending
15	Pump no.1	Operational					
16	Pump no.2	Operational					
17	Pump no.3	1) After 1.5 months of non-operational since 26.10.2021, it was made operational on 10.12.2021 2) Voltmeter not working		Voltmeter must be changed.	26-10-2021		Long Pending
18	Pump no.4	Non-Operational		Need to be overhauled at earliest.	06.05.2021	30.11.2021. After above date, new date i.e., 31.01.2022 is provided.	Long Pending
19	Pump no.5	Operational Voltmeter not working		Voltmeter must be changed.	26-10-2021		Long Pending
20	Pump no.6	Operational Voltmeter not working		Voltmeter must be changed.	25.03.2022		
21	Pump no.7	Non-Operational Voltmeter not working		1) Needs to be rectified. 2) Voltmeter must be replaced.	21.01.2022 26.11.2021		Long Pending
22	Pump no.8	After 7 months of non-operational since 28.07.2021, it was made operational on 24.02.2022 but still uneven sound was heard coming from the pump		Sounding issue must be rectified at the earliest.	28.07.2021		Long Pending
23	Pump no.9	Operational After 3 months of non-operational since 25.08.2021, it was made operational on 30.11.2021		Leakages from the Impeller must be fixed.	25.08.2021		Pending
24	Pump no.10	Operational					
25	Pump no.11	Non-Operational		Needs to be rectified.	24.03.2022		


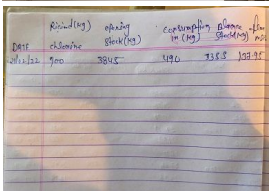

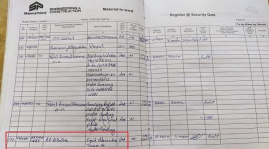
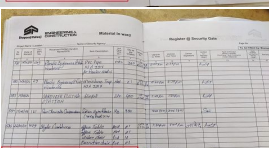
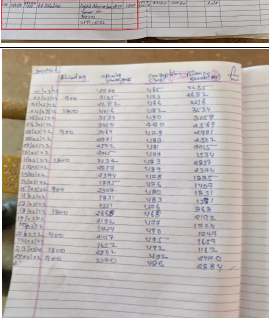


26	Pump no.12	Operational 1) Voltmeter not working. 2) Heavy leakage was found from the gate valve & pump impeller. 3) NRV not working		1) Voltmeter must be replaced at the earliest. 2) Leakages from the gate valve & impeller must be fixed. 3) NRV must be rectified.		26.11.2021		Long Pending
27	Pump Logbooks			1) Plant Incharge needs to review the log books regularly and do signature on the log book. 2) Non-operational pumps should be marked as non-operational.		25.03.2022		
28	Inlet Flow Meters	Non Operational		Flow meter need to be fixed at the earliest		28.01.2020		Long Pending As per Article 8 of CA, it should be installed by the concessionaire.
29	Level Sensor of MPS Sump	1) Calibration needs to be done. 2) KRMPPL is not recording / noting hourly reading of Sump level.		1) Must be calibrated at the earliest and calibration report should be submitted at the earliest. 2) Level transmitter must display the depth of sewage in the collection tank rather than the empty height. 3) Proper recording of sump level must be maintained on hourly basis per day in a register.		26-10-2021	30.01.2022	Long Pending
30	MS pipe to PTU	When STC team reached the site, MS pipe line to the inlet of PTU was found rusted.		Needs to do epoxy painting by following standard procedure.		25.03.2022		
31	Mechanical Fine screen no.01	When STC / UP Jal Nigam team reached the site, we found that the screen is not functioning properly. None of the disposal material is getting removed by the screen and also sewage level in upstream is higher than that of the level at downstream. Screen bars are choked with disposal materials.		Must be Overhauled at the earliest		28/1/2020	15.11.2021, Next date given is 31.01.2022	LONG PENDING
32	Mechanical Fine screen no.02	When STC / UP Jal Nigam team reached the site, we found that the screen is not functioning properly. None of the disposal material is getting removed by the screen and also sewage level in upstream is higher than that of the level at downstream. Screen bars are choked with disposal materials.		Must be Overhauled at the earliest		26-10-2021	31.01.2022	LONG PENDING
33	Mechanical Fine screen no.03	Non Operational		Must be rectified at the earliest		26-10-2021	31.01.2022	LONG PENDING
34	Mechanical Fine Screen Panel	Various indicators not working.		1) Panel indicators need to be repaired/ replace. 2) Damaged part of the panel must be replaced and painting must be done properly		28-01-2020		LONG PENDING
35	Conveyor belt	Operational						
36	Manual Screen no. 1 & 2	When STC team reached the site, it was found that only one labour deployed on PTU who is operating as well as doing the cleaning work of screens etc. 2) Manual screen was found choked and cleaning work was not being done regularly by KRMPPL.		1) Regular cleaning of manual screens must be done. 2) Proper nos. of labours must be deployed for proper cleaning.		22.02.2022		Pending

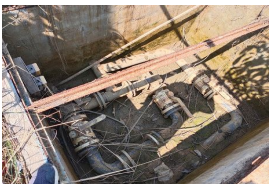








37	Painting works on PTU	When Painting work is not done properly on the items on PTU. By scratching through nails only, the painted parts is coming out and the below portion was found rusted. Also the inner parts are not being painted as shown in the pictures.		Painting must be done properly and all the rusted parts on PTU needs to be painted. Apart from this, painting procedure needs to be submitted at the earliest. All the parts on which painting is not done by following standard procedure, needs to be repainted properly.		26.11.2021 (Since long back)		Long Pending
38	RTOLMS sampling bucket on PTU	When STC team reached site, it was found that the bucket from where sewage is being pumped to RTOLMS was found filled with sludge and all the holes was found choked.		Bucket must be cleaned and sludge must be removed. Bucket must be cleaned daily.		25.03.2022		
39	Grit removal mechanism-Detritor no.01 Main drive, Classifier drive, Organic pump	Operational 1) Very less quantity of grit was being removed by the grit classifier. 2) No canopy found on motors of equipments. 3) Organic return pump was found non-operational.		1) Proper alignment work of grit classifier must be done at earliest. 2) Canopy must be provided on all motors. 3) ORP needs to be rectified at the earliest. 4) Grit disposal tray must be cleaned. 5) MS walkway and cable tray needs to be painted. 6) Damaged cable tray must be replaced and cable dressing needs to be done.		25.08.2021	2) 28.02.2022	LONG PENDING
40	Grit removal mechanism-Detritor no.02 Main drive, Classifier drive, Organic pump	Non Operational		1) Needs to be rectified. 2) Canopy must be provided on all motors. 3) Grit disposal tray must be cleaned. 4) MS walkway and cable tray needs to be painted. 5) Damaged cable tray must be replaced and cable dressing needs to be done.		25.03.2022 25.08.2021		Pending
41	Grit removal mechanism-Detritor no.03 Main drive, Classifier drive, Organic pump	Operational Less quantity of grit was being removed by the grit classifier.		1) Proper alignment work of grit classifier must be done at earliest. 2) Canopy must be provided on all motors. 3) Grit disposal tray must be cleaned. 4) Chain cover needs to be provided. 5) MS walkway and cable tray needs to be painted. 6) Damaged cable tray must be replaced and cable dressing needs to be done.		26-10-2021	2) 28.02.2022	LONG PENDING
42	Grit removal mechanism-Detritor no.04 Main drive, Classifier drive, Organic pump	Operational Organic return pump was found non-operational.		1) ORP needs to be rectified at the earliest. 2) Canopy must be provided on all motors. 3) Grit disposal tray must be cleaned. 4) MS walkway and cable tray needs to be painted. 5) Damaged cable tray must be replaced and cable dressing needs to be done.		1) 22.02.2022 26-10-2021	2) 28.02.2022 3) 31.01.2022	LONG PENDING
43	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 08-07-2019	2) 15.01.2022	LONG PENDING
44	Grit Disposal Area	Not removing grits and disposals are creating pollution & unhygienic environmental condition		Trolley at every location need to be provided for collection of Grit from chutes every time as directed by NMCG team and PE also. This point till date not complied by KRMPL. PCC need to be done as required for this area and required drain also needs to be provided.		26-10-2021	30.10.2021	LONG PENDING





45	UASB Reactor- no.1	Cleaned and filled but sludge blanket not formed		Reactivation of the UASB reactor required		23.01.2021	-	
46	UASB Reactor- no.2	Cleaned and filled but sludge blanket not formed		Reactivation of the UASB reactor required	-	21-04-2021	-	
47	UASB Reactor- no.3	Cleaned and filled but sludge blanket not formed		Reactivation of the UASB reactor required		20-08-2020		
48	UASB Reactor- no.4	Cleaned and filled but sludge blanket not formed		Reactivation of the UASB reactor required		23-01-2021		
49	UASB Reactor- no.5	Cleaned and filled but sludge blanket not formed		Reactivation of the UASB reactor required		15-03-2021		
50	UASB Reactor- no.6	Cleaned and filled but sludge blanket not formed		Reactivation of the UASB reactor required		10.01.2022		
51	UASB Reactor- no.7	Operated but filled with sludge 1) Various downward pipes from the feed box were found choked.		NMCG has directed KRML to deploy more team for cleaning of UASB reactors to complete the process with in 3 to 4 week for each reactor.		28.01.2020		LONG PENDING
52	UASB Reactor- no.8	Cleaned and filled but sludge blanket not formed		Reactivation of UASB reactor required	-	23-01-2021	-	
53	UASB Reactor- no.9	Cleaned and filled but sludge blanket not formed		Reactivation of UASB reactor required		04.12.2021		
54	UASB Reactor- no.10	Cleaned and filled but sludge blanket not formed		Reactivation of UASB reactor required		16.12.2021		
55	UASB Reactor- no.11	Under Maintenance		NMCG has directed KRML to deploy more team for cleaning of UASB reactors to complete the process with in 3 to 4 week for each reactor.		28.01.2020	31.01.2022	LONG PENDING
56	UASB Reactor- no.12	1) After about 22 months (since 28.01.2020) of non operational, it was cleaned on 08.11.2021. 2) Filled but sludge blanket not formed 3) At various places, HDPE pipe was found hanging without any support.		Reactivation of the UASB reactor required. HDPE pipe support needs to be provided.		26.11.2021 25.03.2022		
57	UASB Reactor- no.13	Under Maintenance since Jan. 2022		NMCG has directed KRML to deploy more team for cleaning of UASB reactors to complete the process with in 3 to 4 week for each reactor.		28.01.2020	28.02.2022 New date 31.03.2022	LONG PENDING
58	UASB Reactor- no.14	Under Maintenance since Nov. 2021		NMCG has directed KRML to deploy more team for cleaning of UASB reactors to complete the process with in 3 to 4 week for each reactor.		28.01.2020	15.02.2022 New Date 28.02.2022	LONG PENDING
59	UASB Reactor- no.15	Under Maintenance since 03.01.2022		NMCG has directed KRML to deploy more team for cleaning of UASB reactors to complete the process with in 3 to 4 week for each reactor.		28.01.2020	31.01.2022 New Date 31.03.2022	LONG PENDING
60	UASB Reactor- no.16	Under Maintenance		NMCG has directed KRML to deploy more team for cleaning of UASB reactors to complete the process with in 3 to 4 week for each reactor.		28.01.2020	15.01.2022 New Date 15.03.2022	LONG PENDING
61	UASB Reactor- no.17	When STC / UP Jal Nigam team reached the site, we found that almost all reactors are filled with scum and from the pic., it is clear that scum cleaning is not being done regularly.		Scum cleaning needs to be done and cleaning must be done regularly. Also adequate nos. of labour must be deployed for reactors scum cleaning.		22.02.2022		




61	UASB reactors	When STC team reached the site, it was found that almost all reactors overflow v-notch was not alignment properly and also the notches were found choked at various places. At various places no overflow was being observed through the v-notch.		Alignment and cleaning of v-notches must be done at the earliest so that smooth flow of treated sewage takes place.		25.03.2022		
62	Sampling Chamber	When STC / UPJN team reached the site, it was found that the sampling chambers beside reactors were filled with sewage/ water and many sampling points were packed with concrete.		1) All Sampling chambers must be cleaned at the earliest. 2) Sampling points must be cleaned and valves to the point needs to be fixed.		26.11.2021		LONG PENDING
63	HT Cable	HT Cable line from grit to the transformer near aerators is non functional		Needs to be rectified and connected with the transformers (near aerators) at the earliest.		Since Sept. 2021		LONG PENDING
64	Aerator no.01	Operational						
65	Aerator no.02	Operational						
66	Aerator no.03	Operational						
67	Aerator no.04	Operational						
68	Aerator no.05	Operational						
69	Aerator no.06	Operational						
70	Aerator no. 07	Operational After almost 1 month of non-operational since 21.01.2022, it was made operational on 22.02.2022.				25.03.2022		
71	Aerator no. 08	Operational						
72	Aerator no. 09	Operational						
73	Aerator no. 10	Non Operational		Need to be rectified at the earliest.		26.11.2021		LONG PENDING
74	Aerator no. 11	Operational						
75	Aerator no. 12	Operational After almost 1/2 months of non-operational since 22.02.2022, it was made operational on 8.03.2022.				25.03.2022		
76	Aerator no. 13	Operational						
77	Aerator no. 14	Operational						
78	Aerator no. 15	Operational				22.02.2022		
79	Aerator no. 16	Non Operational After around 1.5 months of non-operational since 05.12.2021, it was rectified on 23.01.2022, again on 25.03.2022 it becomes non operational.		Need to be rectified at the earliest.		25.03.2022		
80	Aerator no. 17	Operational After almost 1/2 months of non-operational since 22.02.2022, it was made operational on 03.03.2022.				25.03.2022		
81	Aerator no. 18	Non-Operational		Need to be rectified at the earliest.		22.02.2022		
82	Aerators earthing	All aerators earthing work found not available		All aerators earthing strip connection must be done at the earliest.		22.01.2022		Long Pending
83	Aeration Lagoon no. 1	1) When STC / UPJN team reached the site, a joint depth measurement for aeration lagoon no. 1 was done at three different points, and sludge was found at an average depth of 0.6m below the top water level, which means 3.4 m approx. sludge is present inside aeration lagoon no. 1 at corners. 2) At the time of visit, no desludging work was found. 3) At the middle portions of the lagoon, sludge was seen above the top water levels also with clearly indicates that the lagoon is completely filled with sludge.		Desludging needs to be done on immediate basis.		26.11.2021 (Since long back)	15.01.2022	Long Pending
84	Aeration Lagoon no. 2	Filled with sludge		Desludging needs to be done on immediate basis.		18.08.2021		Long Pending

85	RSP pump no. 1	Operational After around 2 months of non-operational since 20.01.2022, it was made operational on 23.03.2022.			25.03.2022		
86	RSP pump no. 2	Operational					
87	RSP pump no. 3	Operational					
Belt Filter Press Unit							
88	Poly dosing pump No.1	Operational					
89	Poly dosing pump No.2	Operational					
90	Poly dosing pump No.3	Non Operational		Need to be replaced	07.10.2021	30.10.2021. Next date given 15.02.2022	LONG PENDING
91	Service water pump No.1 (For BFP)	Operational					
92	Service water pump No.2 (For BFP)	Non Operational		Need to be replaced	Since Handover 08-07-2019	15.11.2021. Next date given 28.02.2022	LONG PENDING
93	Belt filter Press No.1	Operational After approx 5 months of non-operational since 23.09.2021, it was found operational on 22.02.2022. 1) Discharge sludge box was found totally rusted and damaged. 2) EOT/ HOT was found missing.		1) Need to be required lubrication on daily basis 2) Panel door, ammeter, voltmeter, limit switch, indicator lights need to be repaired / replaced. 3) Cable tray need to be painted. 4) BFP panel no. 1 buzzer need to be replaced. 5) Discharge sludge box must be replaced. 6) EOT/ HOT must be provided in the building	23-09-2021	30.11.2021. Next date given 31.01.2022	LONG PENDING
94	Belt filter Press No.2	Operational Discharge sludge box was found totally rusted and damaged.		1) Need to be required lubrication on daily basis 2) Panel door, ammeter, voltmeter, limit switch need to be repaired. 3) Cable tray need to be painted. 4) Discharge sludge box must be replaced.	23-09-2021	30.11.2021 Next date given 31.01.2022	LONG PENDING
95	Belt filter Press No.3	Operational Discharge sludge box was found totally rusted and damaged.		1) Need to be required lubrication on daily basis 2) Panel door, ammeter, voltmeter, limit switch need to be repaired. 3) Cable tray need to be painted. 4) Discharge sludge box must be replaced.	23-09-2021	30.11.2021 Next date given 31.01.2022	LONG PENDING
96	Tractor Trolley	No spare trolley was found available at site		Spare trolley must be provided at every time.	22.02.2022		
97	Filtrate pump no. 1	Non-Operational		Need to be overhauled at the earliest	10.12.2021		Long Pending A temporary pump is being installed for temporary operation.
98	Filtrate pump no. 2	Non-Operational		Need to be overhauled at the earliest	10.12.2021		Pumps needs to be installed at its original arrangements only.
Chlorination Area							
99	Booster Pump No.1	Operational Leakage found from the Impeller		Leakages must be fixed at the earliest	26.11.2021		Pending
100	Booster Pump No.2	Operational PG found damaged		Pressure gauge must be fixed/ replaced at the earliest	22.02.2022		

101	Chlorine Tonners (Total 20 Nos)	<p>1) The missing tonners were finally brought at site on 11.12.2021 which were missing after handover dated 08.07.2019.</p> <p>2) Only 1 no. chlorine tonner is connected for discharge chlorine line & 4 no. tonner was found filled and rest were found empty.</p> <p>3) Chlorine dosing was not found appropriate and the fecal coliform was found exceeding the permissible limit by a huge margin.</p> <p>4) One foundation of Tonner was found totally damaged.</p> <p>5) When UPJN & PE get the tonners wt. measured on dated 22.02.2022, chlorine was found 3730 kg but the chlorine entry at the end of previous day was written as 3355 kg. It means that KRMPL is not doing chlorine dosing and falsely showing consumption of chlorine in their record.</p>	 	<p>1) Take license for storing chlorine.</p> <p>2) Arrange Chlorine stock for one week at least.</p> <p>3) Dose proper amount of chlorine. Chlorine dosing to be calculated to control fecal coliform within limit and accordingly chlorine dosing should be adjusted.</p> <p>4) Do the restoration work of the damaged foundation.</p> <p>5) Chlorine dosing record entry must be done correctly by measuring the weight of tonner.</p>	16.12.2021	2) 31.03.2022	Long Pending
		<p>1) Vacuum box no. 1 is not available.</p> <p>2) Chlorine Gas line is not clear and not able to dose proper qty. of chlorine.</p> <p>3) Chlorinator no. 1 was found not working.</p>		<p>1) Vacuum box no. 1 must be fixed at the earliest.</p> <p>2) Do the overhauling of whole chlorination system at the earliest. Gas line must be cleaned.</p> <p>3) Chlorinator no. 1 must be rectified at the earliest.</p>	22.01.2022		Long Pending
102	Chlorine Tonners	<p>The logistics (record keeping, consumption) of the Chlorine cylinders at site is questionable due to the fact that STC has found the gate entry records (Pic. of gate entry records enclosed) of Chlorine Cylinders in March 2022 show two deliveries (04/03/22 & 23/03/22) whereas the Chlorine Stock Register (Pic. of stock register enclosed) in the Chlorination Room shows 9 entries (2nd, 4th, 7th, 11th, 15th, 18th, 21st, 23rd & 24th of March 2022) clearly indicating mismatch of records.</p>	  	<p>Chlorine tonner record keeping must be corrected and false information must not be provided any further. This is a serious issue needs to be taken care.</p>	25.03.2022		
103	Gas Holder No.01	<p>Operational</p> <p>After approx 2 yrs. since 28.01.2020, the gas holder was found operational on 18.02.2022.</p>		<p>1) Gas level indicator (showing level in terms of volume) is missing and needs to be installed.</p> <p>2) Pressure gauge shall be installed.</p>	28-01-2020		LONG PENDING
104	Gas Holder No.02	<p>Operational</p>		<p>1) Gas level indicator (showing level in terms of volume) is missing and needs to be installed.</p> <p>2) Pressure gauge shall be installed.</p>	28-01-2020		PENDING
105	Gas Blower near Gas holders	<p>Operational</p> <p>After months of non-operational, it is now found operational</p> <p>1) Various Nut-bolts were found missing.</p> <p>2) MCB box was found lying on mud.</p> <p>3) Blower chamber was found filled with mud.</p> <p>4) No Cover/ Canopy was found over blower.</p>		<p>1) Missing nut-bolts must be installed.</p> <p>2) A permanent on site panel box must be installed and fixed properly beside the blower for proper operation of the blower.</p> <p>3) Blower Chamber must be cleaned properly</p> <p>4) Canopy/ Cover must be provided</p> <p>5) Permanent shed for Gas blower near gas holder has to be constructed.</p>	26.11.2021		LONG PENDING

106	Gas Blower near Scrubber	When UPJN & PE visited site, it was found that the blowers for blowing gas from gas holders to scrubber unit were non-operational.		1) Both the blowers need to be overhauled and made operational at the earliest. 2) Ball valves and pipes must be checked and it should be replaced if found damaged. 3) Rusted nut bolts must be replaced. 2) Blower pit must be cleaned. 3) Sheets on blower shed must be provided and the MS pipes need to be painted. 4) House keeping around blower area must be done.		Since Handover 08-07-2019		Long Pending
107	Gas scrubber Unit	Non Operational 1) When UPJN & PE officials visited site on 18.02.2022, inlet pipe line to scrubber unit is found leaking and huge water splashing was found from the leakage point which also indicates that moisture removal equipments of the gas generation system are not working properly and not able to remove moisture from the bio gas which may further damage the processing of the scrubber. 2) The results in the test report submitted by KRMLP is not appropriate which means the operation is not satisfactory. Also the mentioned date in the report for sample drawn is 08.11.2021 and the analysis date is 10.10.2021, which is not possible and raise a question of doubt of submitting false information. 3) KRMLP was unable to get the pressure checked at the outlet of scrubber unit. 6) KRMLP has not installed any permanent gas analyser (as it is at 42 MLD Sajani STP)	 	1) Whole system needs to be repaired / overhauled completely so that appropriate output result of the scrubbed gas will be obtained. 2) Moisture needs to be completely removed from the bio gas before blowing it to scrubber. Moisture removal equipments need to be rectified. 3) Pressure gauge must be provided after scrubber. 4) Gas analyser must be installed (as per article 8.7 (b) of CA.) so that the scrubbed gas quality could be checked at site. 5) Leakage from the inlet pipe line to scrubber unit must be rectified.		28.01.2020		LONG PENDING
108	Gas Flaring Unit at DG yard	Non Operational Auto ignition system of the gas flaring system is not working and it is being temporarily ignited manually which is not a good practice and the way in which KRMLP personnel is igniting is a serious safety issue.		Need to be repaired and painted immediately.		28-01-2020		LONG PENDING
109	DFG no. 1	Operational After 3 months of non-operational since 16.12.2021, it was made operational on 12.03.2022.		Needs to be painted		16.12.2021		PENDING
110	DFG no. 2	Non-Operational		1) Need to be rectified at the earliest 2) Needs to be painted		1) 24.03.2022 2) 23-09-2021		PENDING
111	House Keeping	House Keeping work is found to be in very poor condition. This implies that KRMLP is not doing house keeping work which is clear from the photographs.	   	House keeping work of the plant needs to be improved at the earliest and done regularly. Sufficient manpower for house keeping work must be deployed.		26.10.2021		LONG PENDING
112	Leakage at Civil Unit	When UPJN & PE visited site, leakages from various structures were found.		Need to be repair		28.01.2020	15.01.2022	LONG PENDING

113	Log Boogs/ Registers	It was found that no record/ log book or register for gas generation was maintained by KRMPL.		All Log books / registers (i.e. Operation log book of each equipment / process units, DG log book, collection sump level transmitter log book, maintenance register, In/out material register, first aid register, attendance register, visit register etc) must be maintained daily and should be available at site all the time.		26-10-2021		PENDING
114	Internal Road Restoration	Internal roads were found damaged at various places		Internal road restoration must be started at earliest and should be done on phased manner.		26-10-2021	31.01.2022	LONG PENDING
115	Marking Equipments	It was found that some markings has been done by KRMPL and various marking on the equipments are still pending		Each equipments of every units must be marked (like 1st, 2nd etc) in bold letters.		26-10-2021	28.02.2022	LONG PENDING
116	Laboratory	1) KRMPL lab testing results are not matching with other agency's testing report. 2) Composite Sampling Containers were not placed in the refrigerator; instead it was placed at the sampling locations. 3) Refrigerator is not in working condition. 4) Labeling of sample bottles is not proper. 5) Calibration Tests of Lab equipment are not performed. 6) SOPs available at the lab are incomplete. 7) Fecal coliform results is exceeding the permissible limit with a huge margin. 8) Recording of sampling date is improper (it is observed that the composite sampling initiated on 23/3/22 morning to 24/3/22 morning (24 hours) was labelled as 24/3/22). 9) Chemists do not have adequate orientation and training (evident from the above lapses indicated in points 1 to 8). Also, the chemist was not able to explain the procedure being adopted for different tests being conducted in the lab.		1) KRMPL lab testing results are not matching with other agency's testing report. KRMPL must do the testings properly as per standard operating procedure as per CA / CPHEEO manual. 2) Collected samples must be placed in the refrigerator. 3) Refrigerator must be repaired / replaced. 4) Sample must be levelled. 5) Lab. equipments must be calibrated. 6) KRMPL is required to submit in writing procedures (along with the reference from where taken) of all the tests conducting in the lab for verification by PE. 7) Fecal Coliform tests need to be validated due to huge variation with the 3rd party lab results. 8) Recording of sampling date must be done properly. 9) Either proper training to be provided to the lab chemist or trained chemist to be deployed.		25.03.2022 26.10.2021		LONG PENDING
117	MS structures, Hand railings in whole plant, MS stairs	Various MS Structures, MS stairs and all the hand rails on UASB reactors etc were found totally rusted		Epoxy painting must be done by following standard procedure on all the corroded items of the plant at the earliest.		26.11.2021 (Since long back)		Long Pending
118	UASB Reactor Hand railing.	Hand rails on the UASB reactors are totally rusted.		Handrailing needs to be either replaced or painted with epoxy paint at the earliest.		26.11.2021 (Since long back)		Long Pending
119	Sludge Disposal	When STC / UP Jal Nigam team reached the site, we found the sludge was being disposed beside BFP building and various other locations on the ground without any permission. As instructed by ED (Technical) on 08.10.2021 that sludge disposal is to be done as per norms of UPPCB. UPPCB vide their letter no. 1388/5-658/21 dated 04.12.2021 also instructed KRMPL to dispose the sludge as per the norms but still sludge is being disposed on the ground at an inappropriate place.	 	Sludge disposal must be done as per UPPCB norms.		01.12.2021		LONG PENDING
120	Final Polishing Unit 1 & 2	When UPJN & STC officials reached the site, it was found that FPU lagoons are completely filled with sludge		Desludging needs to be done on immediate basis.		22.01.2022 (Since long back)		LONG PENDING
121	Internal Lights, Exhaust fans etc. of Panel rooms	Various lights and exhaust fans inside various panel rooms were found not in working condition		Various lights and exhaust fans must be rectified / replaced at the earliest.		22.01.2022		Pending

122	LT Panel Room	Various indicators, ammeters , voltmeters etc were found not working		All non-working indicators, ammeters, voltmeters etc must be replaced at the earliest.	25.03.2022		
123	Plant External Lights	When UPJN & PE officials visited site, it was found that some of the lights were replaced and various lights are still not working/ not available, which needs to be rectified / replaced.		Defective lights needs to be replaced at the earliest.	28.01.2020		LONG PENDING
124	Water taps at various locations inside plant	When UPJN & PE visited the site, it was found that at various locations, the water taps are not working and the civil works are damaged and on some places no foundation and drain line were available.		1) Water taps must be rectified. 2) Civil foundation works must be restored. 3) At the places where civil foundations are not available, construct it. 4) Proper drain line from the water tap area needs to be constructed and connected to the nearest drain.	22.02.2022		Pending
125	Safety shower	Safety shower civil structure was found damaged and the system is not working properly.		1) Whole piping system must be fixed properly. 2) Civil foundation work must be restored. 3) Proper drain line to the nearest drain must be constructed.	22.02.2022		Pending
126	O&M Staff	Every time when UPJN & PE team visited the site, it was found that qualified & adequate nos. of O&M staff/ workers are not available / deployed at site for proper O&M of the site.		Qualified and adequate nos. of staffs/ workers must be deployed by KRMPPL.	22.02.2022 (Since long back)		Long Pending
127	Power connection through Bingawan Plant	When UPJN & STC officials visited site, a temporary power line from Panel room (near aeration tank) to UPJN SWEZ plant was found.		This temporary connection needs to be removed.	27.01.2022		Pending

P. Girdhar