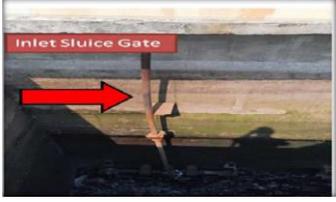
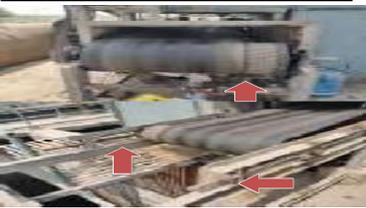


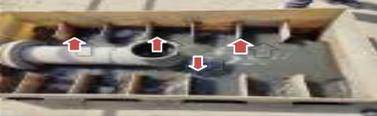
SITE INSPECTION REPORT FOR 210 MLD STP BINGAWAN				Location: 210 MLD STP at BINGAWAN		INSPECTED BY: UPJN Team: Mr. Ajit Singh (J.E. Civil) STC Team: Mr. Satish Kumarjaga (Process Expert), Mr. Ajay Kumar Goyal (Support Engrg. Mech) KRMPL Team: Mr. Divya Mittal (Support Supervisor Electrical) KRMPL Team: Mr. Ashish Pandey, Process engineer, KRMPL Mr. Ashwin, Mechanical Engineer, KRMPL		
S. No.	Equipment	Assessment of Current Condition	Assessment of Current Condition photo	Corrective Action Required	Corrective Action Completed by KRMPL	Original Date of Issue	Proposed Date to Resolve by KRMPL	Current Status of Compliance
1	COD Nalla	During the UPJN & PE site visit of COD Nalla MD site on 03/10/2022, it was found that sewage flows (Overflow) were diverted to Ganga River.	 A photograph showing a concrete channel with a large amount of sewage overflowing onto the ground. A red arrow points to the overflow. The date and time '2022-10-03(Mon) 11:51(am)' are visible at the bottom of the photo.	Required nos. of pumps at MPS need to be operated to tackle the problem of overflow.		03.10.2022		Pending
1A	Bypass Sluice Gate at Bingawan STP Inlet Chamber	During the UPJN & PE site visit of Bingawan STP on 27/05/2022, leakage of sewage flow was found at the Bypass sluice gate going to the River. PE had pointed out this issue in previous inspection reports for KRMPL, compliance. KRMPL plant incharge confirmed that the issue was rectified but still the same issue was observed which means the issue was not completely sorted and false information is being provided by KRMPL, Plant incharge.	 A photograph showing a concrete structure with a red arrow pointing to a leakage point where sewage is flowing out.	Leakages from the Bypass sluice gate must be fixed. During the inspection of UPJN & STC team done on 14.11.2022, it was observed that the leakage in the bypass is still not attended.		27.05.2022		Pending
2	Upstream Wetwell of MPS	During the UPJN & PE site visit on 25/08/2022, it was observed that freetail at the Inlet of the MPS wet well was not maintained. This situation is very frequent and KRMPL is not taking any corrective measures.	 A photograph showing a concrete structure with a metal grate, likely a wetwell, with some debris and water around it.	Adequate no. of pumps at MPS need to be operated to tackle the problem of reverse back flow and free fall at the Wet well needs to be maintained at all times.		26.10.2021		

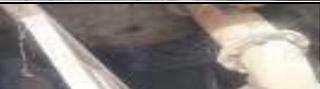
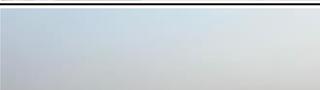
3	Sluice gates at Upstream Weir of MPB	Non-Operational		<p>1. Sluice gate pillar/shaft was found in bent condition. Need to be replaced. 2. Sluice gate integrated stem guide is broken. Need to be replaced. 3. Lubrication of gearbox was not properly done.</p>		03.10.2022		
4	Mechanical Course screen No.01	Non-operational The rake mechanism is not properly aligned and uneven gap was found between rake teeth and plate/ screen bar		<p>1) Need to be rectified at the earliest. 2) Rake mechanism must be aligned properly at the earliest. 3) Painting needs to be done properly on the stairs, walkway, handrails etc. 4) Chain cover must be provided. 5) Log book of mechanical screen must be maintained.</p>		26.08.2022 03.02.2021		Long Pending
5	Mechanical Course screen No.02	Operational The rake mechanism is not properly aligned and uneven gap was found between rake teeth and plate/ screen bar		<p>1) Need to be rectified at the earliest. 2) Rake mechanism must be aligned properly at the earliest. 3) Painting needs to be done properly on the stairs, walkway, handrails etc. 4) Chain cover must be provided. 5) Log book of mechanical screen must be maintained.</p>		18.08.2022 28.06.2022 03.02.2021	30.10.2021	Long Pending
6	Manual bar Screen no 01	Operational 1) Manual bar screen found checked. 2) MS Stair case and handrails found to be totally rusted.		<p>1) Screen need to be cleaned regularly. 2) Painting needs to be done on the stairs and handrails.</p>		03.10.2022		Pending
7	Manual bar Screen no 02	Operational 1) Manual bar screen found checked. 2) MS Stair case and handrails found to be totally rusted.		<p>1) Screen need to be cleaned regularly. 2) Painting needs to be done on the stairs and handrails.</p>		03.10.2022		Pending
8	MPB inlet chamber							

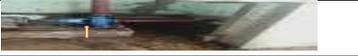
9	Coarse Screen Control Panel	Operational		<p>1) All Panel indicators need to be repaired/replaced  2) Ammeter needs to be replaced.  3) Damaged Control Panel needs to be replaced along with the necessary painting works.</p>		29.01.2020	Long Pending
10	Mechanical Coarse Screens Conveyor belt	Operational When LPAJN & STC team visited the site on 25/03/2022, it was observed that the Belt conveyor was not aligned properly and the screenings were not properly collected on the conveyor.		<p>1) Belt alignment needs to be done immediately.  2) Belt conveyor needs to be operated regularly.  3) Debris disposal from the belt conveyor to be done regularly.  4) Trolley must be provided.</p>		11.04.2022 25.03.2022	Pending
11	Main Inlet Chamber - Slab Side Mounting Slab	The damaged slab was freshly rectified on 14.11.2022, but the casting & fixing work was poorly done.		<p>1) Do the casting &amp; fixing work properly under the supervision of civil engineer.  2) Deploy Civil engineer for the supervision works.</p>		22.02.2022 26.10.2021	Long Pending
12a	Main Pump Station(MPS) Wetwell	When LPAJN & STC team reached the site on 03/10/2022, significant floating material was found in the wetwell.		<p>Floating material needs to be removed from the wetwell. The mechanical screens must be operated regularly to avoid such conditions i.e. garbage carry over.</p>		03.10.2022	Pending
12b	Main Pump Station(MPS) Wetwell	KRMPL has not conducted any clearing of the Wetwell since the handover. This has caused the MPS pumps to clog and frequently breakdown. Several NRV valves and Slab valves have also been damaged due to the intake of debris. The failure of mechanical coarse screens are the main reason for accumulation of debris in the wetwell.		<p>KRMPLs to plan and shutdown 50% of the wetwell as a soon as possible on the site from drain the section and clean out the bottom debris. The schedule for the same is to be submitted by KRMPLs for review and approval at the earliest.</p>		08.07.2019	Pending

13	MPS Cable tray	Cable tray was found rusted		Needs to be painted/ Replaced	08.07.2019		Long Pending
14	MPS Discharge Header Air Release Valve Chamber (Civil work)	1) Valve Chamber Roof Panels Finishing work is not completed yet. 2) Air Valve Vertical Pipe was found bent. 3) Valve chamber was found filled with mud. 4) Air valves were replaced but leakage was observed during their observation.		1) Complete roof panel finishing works at the earliest. 2) Air valve pipe must be fixed. 3) Clean the valve chamber at the earliest. 4) Exercise the air valves for efficient operation and repair/replace them if required. at the earliest. 5) Valve chamber needs to be cleaned completely. 6) Check Air valves operation and rectify the problem.	01.06.2021 05.07.2022	30.10.2021	Long Pending
15	Pump no.1	Operational Suction Pipe line valve is not in working condition since 03.10.2022		1 Panel indicators were not working.	03.10.2022		
16	Pump no.2	It was observed during the inspection on 14.11.2022 that pump no. 2 is operational but facing overheating and getting tripped.		1. 500 MMX KG in the panel need to be replaced. 2. Need to be overhauled at earliest. 3. Valve need to be replaced.	24.09.2022		
17	Pump no.3	It was observed during the inspection on 14.11.2022 that pump no. 2 is operational but facing overheating and getting tripped. 1) After 1.5 months of non-operational since 26.10.2021, it was made operational on 10.12.2021 2) Voltmeter not working 3) Leakage found from the impeller was observed.		1) Voltmeter must be changed. 2) Leakage from the impeller must be fixed. 3) Suction pipe line valve is not in working condition since 03.10.2022.	20.07.2022 03.10.2022		Long Pending
18	Pump no.4	Non-Operational 1 Suction pipe line valve is not in working condition since 03.10.2022. 2 MPV not working because of which the pump is not being operated perfectly.		1 Need to be overhauled at earliest. 2. Suction pipe line valve is not in working condition since 03.10.2022. 3. MPV not working because of which the pump is not being operated perfectly.	06.05.2021 03.10.2022		Long Pending
19	Pump no.5	Operational Voltsmeter & ammeter not working		1) Voltmeter & Ammeter must be changed. 2. Suction pipe line valve is not in working condition since 03.10.2022	25-10-2021 03.10.2022	30.06.2022	Long Pending
20	Pump no.6	Non-Operational 1. Heavy sound coming from Pump 2. Suction pipe line valve is not in working condition since 03.10.2022		Needs to be rectified.	26-07-2022 03.10.2022		Pending
21	Pump no.7	Non-Operational Voltsmeter not working		1) Needs to be rectified. 2) Voltmeter must be replaced. in the meeting dated 11.04.2022, EO (T) MNSO directed KRMPL to rectify the issue till 11.04.2022 but not rectified yet.	25.12.2021 03.10.2022	30.06.2022	Long Pending
22	Pump no.8	Non-Operational When LPN & PE visited site, it was found that the impeller of pump no. 8 was damaged and it was replaced with the impeller of pump no. 4.		1) Needs to be rectified. 2) Impeller of pump no. 8 must be rectified at the earliest. 2. Suction pipe line valve is not in working condition since 03.10.2022	16.07.2022 03.10.2022		Pending

29	Pump no. 9	Non Operational Suction pipe line valve is not in working condition since 03.10.2022		Needs to be rectified	14.09.2022 03.10.2022		Pending
30	Pump no. 10	Operational Suction pipe line valve is not in working condition since 03.10.2022		Needs to be rectified	03.10.2022		Pending
31	Pump no. 11	Under Maintenance MFO not working because of which the pumps are not being operated perfectly.		1) Needs to be rectified 2) MFO needs to be rectified	21.09.2022 28.07.2022 03.10.2022		
32	Pump no. 12	Under Maintenance 1) Heavy lifting was found from the pipe valve & pump bracket 2) MFO not working because of which the pumps are not being operated perfectly.		1) Needs to be rectified 2) Lifting from the pipe valve & pump bracket 3) MFO needs to be rectified By the meeting date 11.09.2022, 03.10.2022 MFO 4) MFO needs to be rectified by the date 03.10.2022 but not rectified yet.	28.07.2022 26.11.2021		Long Pending In the meeting date 11.09.2022, 03.10.2022 MFO was not rectified, to rectify all the issues of MFO pumps till 03.10.2022 but heavy issues not rectified yet.
33	Pump	It has been observed from long back that vibration meter is not there at any of the existing pump's vibration.		Vibration meter needs to be provided at the vessel which is long pending	27.08.2022		
34	MFO Panel	Various indicators, ammeters, voltmeters etc were found not working		1) Rectifying indicators, ammeters, voltmeters etc must be replaced at the earliest 2) MFO needs to be rectified	27.08.2022		
35	Pump Lightbulb			Fluo meter need to be fixed at the vessel in the meeting dated 10.09.2022, 03.10.2022 MFO 4) MFO needs to be rectified by the date 03.10.2022 but not rectified yet.	26.01.2020	31.07.2022	As per MHA-8 O.C.A. A. it should be installed by the concerned person.
36	Level Sensor of MFO Pump	Calibration needs to be done.		Needs to be calibrated at the earliest and calibration report should be submitted at the earliest.	26.10.2021	26.10.2022 26.10.2022 26.10.2022	Long Pending
37	MFO pipe to PTU	When CP in 4 FC was reached the site, it was found that painting has been done but still some part of the pipe on the floor is not painted properly.		Needs to do safety painting properly by following procedure.	25.03.2022		
38	Mechanical Fine screen	Non Operational When CP in 4 FC was reached the site, it was found that the screen is not in working properly. From the site, it was observed that the screen is not in working properly. From the site, it was observed that the screen is not in working properly. From the site, it was observed that the screen is not in working properly.		Must be Overhauled at the earliest In the meeting dated 10.09.2022, 03.10.2022 MFO 4) MFO needs to be rectified by the date 03.10.2022 but not rectified yet.	26.11.2021	03.11.2021 26.11.2021 26.11.2021	LONG PENDING
39	Mechanical Fine screen	Non Operational		Must be Overhauled at the earliest In the meeting dated 10.09.2022, 03.10.2022 MFO 4) MFO needs to be rectified by the date 03.10.2022 but not rectified yet.	26.10.2021	31.01.2022 26.10.2021 26.10.2021	LONG PENDING
40	Mechanical Fine screen	Non Operational When CP in 4 FC was reached the site, it was found that the screen is not in working properly. From the site, it was observed that the screen is not in working properly. From the site, it was observed that the screen is not in working properly.		Must be rectified at the earliest In the meeting dated 10.09.2022, 03.10.2022 MFO 4) MFO needs to be rectified by the date 03.10.2022 but not rectified yet.	26.10.2021		LONG PENDING
41	Mechanical Fine Screen Panel	1) Various indicators not working 2) Cable was found lying on the floor.		1) Various indicators need to be replaced 2) Damaged part of the panel must be replaced and safety must be done properly 3) Cable tray must be provided for the cables and rectified	26.01.2020		LONG PENDING
42	Conveyor belt	Operational		Motor cover need to be replaced	03.10.2022		Pending
43	Mechanical Screen No. 14.2			Regular cleaning of mechanical screens needs to be done.			
44	Painting works on PTU	When CP in 4 FC was reached the site, it was found that painting work was not done properly on the floor of the PTU. From the site, it was observed that the painting work was not done properly. From the site, it was observed that the painting work was not done properly.		Painting work needs to be done properly and all the indicators of PTU needs to be painted. After from the site, it was observed that the painting work was not done properly. From the site, it was observed that the painting work was not done properly.	26.11.2021 (Site visit back)		Long Pending
45	PTU and painting works on PTU			Should cover to clean and equip items be removed daily.			
46	Grit removal mechanism Classifier no. 102 (MFO, 03M) Classifier drive, Organic pump	Under Maintenance 1) Very less quantity of grit was being removed by the grit classifier. 2) MFO was not working properly. 3) Classifier drive was not working.		1) Proper alignment work of grit classifier must be done at the earliest. 2) Classifier must be provided on all motors. 3) Grit classifier tray must be cleaned. 4) MFO cables and cables tray needs to be cleaned. 5) Damaged cables tray must be replaced and cable dressing needs to be done. 6) Grit classifier needs to be rectified.	03.10.2022		LONG PENDING
47	Grit removal mechanism Classifier no. 102 (MFO, 03M) Classifier drive, Organic pump	Operational 1. Less quantity of grit was being removed by the grit classifier. 2. Organic pump was not working.		1) Proper alignment work of grit classifier must be done at the earliest. 2) Classifier must be provided on all motors. 3) Grit classifier tray must be cleaned. 4) MFO cables and cables tray needs to be cleaned. 5) Damaged cables tray must be replaced and cable dressing needs to be done. 6) Organic pump needs to be rectified.	25.08.2021		Long Pending
48	Grit removal mechanism Classifier no. 102 (MFO, 03M) Classifier drive, Organic pump	Operational 1. Less quantity of grit was being removed by the grit classifier. 2. Organic pump was not working.		1) Proper alignment work of grit classifier must be done at the earliest. 2) Classifier must be provided on all motors. 3) Grit classifier tray must be cleaned. 4) MFO cables and cables tray needs to be cleaned. 5) Damaged cables tray must be replaced and cable dressing needs to be done. 6) Organic pump needs to be rectified.	26.10.2021	02.08.2022	LONG PENDING

44	Grit removal mechanism- Dewater no.04 Main drive, Classifier drive, Organic pump	Operational MS structure was not hand properly painted.		1) Laundry must be provided on all motors. 2) Grit disposal tray must be cleaned. 3) MS walkway and cable tray needs to be painted. 4) Damaged cable tray must be replaced and cable dressing needs to be done.	1) 22.02.2022 05.10.2021	2) 24.02.2022 3) 31.01.2022	LONG PENDING
45	Parshall Flame	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.	Stock Handover 08-07-2019	1) 15.01.2022 new date 2) 30.06.2022 new date 2) 31.07.2022	LONG PENDING
46	Grit Disposal Area	When UPJN & PEC visited the site, it was found that no trolley was provided for screening collection and much of the screenings was getting released to the nearby locations. Proper drains and CC road below grit tray are still not prepared which is creating pollution & unhygienic environmental condition.		Trolley at every location needs to be provided for collection of Grit from chutes & screenings from conveyor every time as directed by NACCO team and PE also. CC way need to be prepared as agreed for this area and required drain also needs to be provided.	26.10.2021		LONG PENDING
47	LA5B Reactor- no.1	Operational		Processing needs to be optimized.		23.01.2021	
48	LA5B Reactor- no.2	Operational		Processing needs to be optimized.		21.04.2021	
49	LA5B Reactor- no.3	Operational		Processing needs to be optimized.		20.06.2020	
50	LA5B Reactor- no.4	Operational		Processing needs to be optimized.		23.01.2021	
51	LA5B Reactor- no.5	Operational		Processing needs to be optimized.		15.03.2021	
52	LA5B Reactor- no.6	Operational		Processing needs to be optimized.		10.01.2022	
53	LA5B Reactor- no.7	Operated but filled with sludge 3) Valvehouse downward pipes from the feed box were found checked.		NACCO has directed KSMPL to deploy more team for clearing of LA5B reactors to complete the process with in 3 to 4 week for each reactor.		28.01.2020	LONG PENDING
54	LA5B Reactor- no.8	Operational		Processing needs to be optimized.		23.01.2021	

95	LACS Reactor no.9	Operational		Processing needs to be optimized		04.12.2021		
96	LACS Reactor no.10	Operational		Processing needs to be optimized		16.12.2021		
97	LACS Reactor no.11	Operational After almost 2 years (since 26.01.2020) of non operational, it was cleaned on 25.04.2022.		Processing needs to be optimized		25.04.2022		
98	LACS Reactor no.12	Operational After about 22 months (since 26.01.2020) of non operational it was cleaned on 08.11.2022. 2) At various places, H2O2 pipe was found hanging without any support.		Processing needs to be optimized. H2O2 pipe support needs to be provided.		26.11.2021 25.03.2022		
99	LACS Reactor no.13	Under Maintenance since Jan. 2022. This reactor has been inspected by LPJN & FIC visited the site. The reactor was found to be in good condition. The reactor was found to be in good condition. The reactor was found to be in good condition.		1) In NACC meeting dated 11.04.2022, KRNPL promised and adhered the previous date to complete cleaning of reactor. In May 2022 but not cleaned yet. 2) Gases are observed in other cell, or follow-up is required. Therefore gases must be reported. 3. H2O pipes require sealing.		26.01.2020	26.02.2022 New Date: 31.03.2022 New Date: 15.06.2022	LONG PENDING
100	LACS Reactor no.14	Under Maintenance since Nov 2021		1) In NACC meeting dated 11.04.2022, KRNPL promised and adhered the previous date to complete cleaning of reactor. In May 2022 but not cleaned yet.		26.01.2020	10.02.2022 New Date: 31.03.2022 New Date: 15.06.2022	LONG PENDING
101	LACS Reactor no.15	Under Maintenance since 03.01.2022		1) In NACC meeting dated 11.04.2022, KRNPL promised and adhered the previous date to complete cleaning of reactor. In May 2022 but not cleaned yet.		26.01.2020	31.01.2022 New Date: 31.03.2022 New Date: 31.07.2022	LONG PENDING
102	LACS Reactor no.16	Under Maintenance		1) In NACC meeting dated 11.04.2022, KRNPL promised and adhered the previous date to complete cleaning of reactor. In May 2022 but not cleaned yet.		26.01.2020	15.01.2022 New Date: 15.03.2022 New Date: 15.06.2022	LONG PENDING
103	LACS Reactor	Some improvement in acid cleaning was observed during visit. When LPJN & FIC visited the site, it was found that almost all reactor reaction vessels were not aligned properly and also the reaction was found checked at various places. At various places no cover was being cleaned through the vessels. Apart from this, it was also found that the pipes just before LACS reactors were found only the top pipe.		1) Covering needs to be done regularly. 2) Alignment and cleaning of reaction vessels must be done at the earliest so that the smooth flow of the reaction mixture is maintained. 3) Gases just before LACS reactors needs to be cleaned fully.		26.03.2022 26.07.2022		Long Pending
104	LACS reactor sludge with sludge	When LPJN & FIC visited the site, it was found that sludge withdrawal are not being done from each reactor side.		Required quantity of sludge needs to be withdrawn from all the reactor side and accordingly required no. of BPP & sludge pump need to be operated.		27.05.2022		Pending
105	Sampling Chamber	When STC / LPJN visited the site, it was found that 1) Some of the sampling chamber reaction vessels are cleaned and various chambers were filled with sewage/ water and some reaction were performed with cobalt. 2) Various holes/sludge drawing pipes in the chambers are found checked and no sludge removal is taking place from the below pipe.		1) All sampling chambers must be cleaned at the earliest. 2) Sampling points must be cleaned and water level must be maintained. 3) Below sludge drawing pipes needs to make operational.		26.11.2021		LONG PENDING
106	HT Cable	HT Cable line from grid to the transformer has sensors at each location.		Needs to be rectified and connected with the transformer (near sensors) at the earliest.		Since Dec 2021	31.07.2022	LONG PENDING
107	Aerator no.01	Operational						
108	Aerator no.02	Operational						
109	Aerator no.03	Operational						
110	Aerator no.04	Operational						
111	Aerator no.05	Operational						
112	Aerator no.06	Operational After approx 2 months since 26.03.2022, it was found operational on 27.02.2022 and again found non-operational since 30.05.2022.		During the inspection on 14.11.2021 it was observed that the motor fan drive, therefore, it should be rectified at the earliest.		30.05.2022		
113	Aerator no.07	Operational						
114	Aerator no.08	Operational						
115	Aerator no.09	Operational						
116	Aerator no.10	Operational After approx 6 months since 26.11.2021, it was found operational on 27.05.2022.				27.05.2022		
117	Aerator no.11	Operational						
118	Aerator no.12	Operational					25.08.2022	
119	Aerator no.13	Non Operational		Needs to be rectified at the earliest.		03.10.2022		
120	Aerator no.14	Operational						
121	Aerator no.15	Operational						
122	Aerator no.16	Operational After approx 2 months since 25.03.2022, it was found operational on 27.02.2022.				27.02.2022		
123	Aerator no.17	Operational Made operational but no maintenance record found at site.				03.08.2022		
124	Aerator no.18	Under Maintenance After approx 2 months since 22.02.2022, it was found operational on 27.02.2022.		Needs to be rectified at the earliest.		03.10.2022		
125	Aerators warping	When LPJN & FIC visited the site, it was found that improper warping has been provided by connected with the wire, instead of CIP pipe. An accurate warping will be found the done.		All warping (CIP pipe) of required dimension) connection must be done at the earliest which is still pending.		22.01.2022		Long Pending
126	Aeration Lagoons no. 1	When STC / LPJN visited the site, a post depth measurement for 1) was done at three different points, and sludge was found at an average depth of 0.5m below the top water level, which means 2.5 m approx. sludge is present inside aeration lagoon no. 1 at corners. 2) At the base of the tank, no desludging work was found. 3) At the middle portion of the lagoon, sludge was seen above the top cover. Issues also with clearly indicates that the lagoon is completely filled with sludge.		Desludging needs to be done on immediate basis. In the meeting dated 11.04.2022, ED (F) directed KRNPL to submit complete and detailed plan & schedule for bypass the water to Lagoons (A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z). ED (F) NACC directed KRNPL to submit desludging schedule of aeration lagoon within 7 days (i.e. 18.04.2022).		26.11.2021 (Since long back)	16.01.2022 New Date: 31.08.2022	Long Pending

87	Reaction Lagoon no. 2	Filter with sudge		Discharging needs to be done on immediate basis.		18.08.2021		Long Pending	
88	RSP pump no. 1	Non-Operational After around 2 months of non-operational since 20.01.2022, it was made operational on 23.03.2022 and again found non-operational on 27.03.2022. Apart from this, leakage was found on the floor creating hydrophobic condition.		1) Needs to be rectified at the earliest. 2) Sludge accumulated on the floor needs to be removed.		27.05.2022			
89	RSP pump no. 2	Operational							
90	RSP pump no. 3	Operational							
Old Filter Press Unit									
91	Poly dosing pump No.1	Operational				03.10.2022		Pending	
92	Poly dosing pump No.2	Operational		1) Heavy vibration was found. Need to be rectified at the earliest. 2) Leakage needs to be rectified at the earliest.					
93	Poly dosing pump No.3	Non Operational		Need to be replaced		07.10.2021	03.10.2021 Next date given 10.02.2022 Next date given 30.06.2022 New date 15.07.2022	LONG PENDING	
94	Service water pump No.1 (For BFP)	Operational							
95	Service water pump No.2 (For BFP)	Non Operational		Need to be replaced	Shree Hardware Co-07-2019		15.11.2021 Next date given 02.02.2022 Next date given 30.06.2022 New date 15.07.2022	LONG PENDING	
96	Belt Filter Press No.1	Operational After around 5 months of non-operational since 23.08.2021, it was found operational on 22.02.2022 and again found non-operational on 27.03.2022. Again found operational has no record found at site. No record of non-operation of BFP was mentioned in the maintenance register. 1) Discharge sudge box was found badly rusted and damaged. 2) BFP building shed was found rusted.		1) Front door, armature, voltmeter, belt switch, indicator Belt needs to be repaired / replaced. 2) Cable tray need to be painted. 3) BFP armature 1, 1 indicator needs to be replaced. 4) Discharge sudge box must be replaced. 5) BFP building shed needs to be repainted by following standard procedure. 6) Maintenance register needs to be maintained properly.		23.09.2021	20.11.2021 Next date given 02.02.2022 Next date given 31.01.2022 Next date given 10.06.2022	LONG PENDING	
97	Belt Filter Press No.2	Operational Discharge sudge box was found badly rusted and damaged.		1) Need to be required lubrication on daily basis. 2) Front door, armature, voltmeter, belt switch need to be inspected. 3) Cable tray need to be painted. 4) Discharge sudge box must be replaced.		23.09.2021	20.11.2021 Next date given 31.01.2022 Next date given 31.05.2022	LONG PENDING	

Belt Filter Press No.3	Operational Discharge sludge has not been fully loaded and damaged.		<ol style="list-style-type: none"> <li>Need to be required lubrication on daily basis.</li> <li>Panel door, arrester, solenoid, limit switch need to be replaced.</li> <li>Cable tray need to be painted.</li> <li>Discharge sludge bin must be replaced.</li> </ol>	23.08.2021	<p>05.11.2021 Next date given 21.03.2022 Next date given 01.05.2022</p>	LONG PENDING
38 Tractor Trolley			Spare trolley must be provided at every time	22.02.2022		Pending
100 Filter 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. Pumps needs to be installed on its original arrangement only.
101 Filter pump no. 2	Non-Operational		Need to be overhauled at the earliest	10.12.2021		False information was provided to KRMPL letter no. 2405 dated 12.02.2022 regarding compliance to PE inspection.
Chlorination Area						
102 Booster Pump No.1	<ol style="list-style-type: none"> <li>PG found damaged</li> <li>Leakage found from the Impeller</li> <li>Apert from this, it was found that when after closing the ball valves, water flow was observed from the valves in some position.</li> <li>During the inspection on 14.11.2022, it was observed that chlorine booster for pump no. 1 was not working.</li> </ol>		<ol style="list-style-type: none"> <li>Pressure gauge must be fixed / replaced at the earliest.</li> <li>Ball valves need to be checked for any flow in close position.</li> <li>Ball valves need to be rectified / replaced.</li> </ol>	26.11.2021		Long Pending
103 Booster Pump No.2	Operational Leakage found from the Impeller		<ol style="list-style-type: none"> <li>Leakages must be fixed at the earliest</li> <li>Ball valves need to be checked for any flow in close position.</li> </ol>	22.02.2022		Long Pending
104 Sampling Pump	During the inspection on 14.11.2022 it was observed that suction pipe when was filled with sand/sludge.		Need to be rectified at the earliest.	14.11.2022		
105 Chlorine Tankers (Total 2 nos)	<ol style="list-style-type: none"> <li>The missing fillers were finally brought at site on 11.02.2022 which were missing after handwritten dated 02.02.2022</li> <li>2 nos. of chlorine tankers were found connected with wrong chlorine line.</li> <li>Chlorine filling was not found appropriate and the ball valves were found exceeding the permissible limit by 4 kg/cm<sup>2</sup>.</li> <li>One foundation of Tanker was found totally damaged.</li> <li>Chlorinator no. 1 was found not working.</li> <li>Still the chlorinator system has not been rectified resulting in inappropriate dosing of chlorine.</li> <li>Pressure gauge of 2nd chlorine line is not working.</li> <li>In chlorinator no. 2, the chlorine reading was observed to be 10 kg/hour actually it should be 10 kg.</li> </ol>		<ol style="list-style-type: none"> <li>Take license for starting chlorine.</li> <li>Arrange Chlorine stock for one week at least.</li> <li>Check proper amount of chlorine which is still not being filled in continuously jars chlorine is being filled in the tanks. Chlorine dosing unit is calculated to control total chlorine which will not exceed the maximum chlorine dosing unit.</li> <li>Check the operation work of the damaged foundation.</li> <li>Chlorinator no. 1 must be rectified at the earliest.</li> <li>Chlorination system must be rectified at the earliest.</li> <li>PG must be replaced.</li> <li>Digital load meter was not working properly, therefore should be replaced.</li> </ol>	16.12.2021	<p>1) 24.07.2022 4) 20.08.2022 6) 25.09.2022 New date 15.07.2022</p>	Long Pending
106 Gas Holder No.01	Non-Operational After approx 2 yrs. since 28.01.2020, the gas holder was found operational on 18.02.2022.		<ol style="list-style-type: none"> <li>Pressure gauge needs to be installed.</li> <li>No gas was found inside the gas holder.</li> </ol>	03.10.2022		PENDING
107 Gas Holder No.02	Operational 1. Owner was not properly installed. 2. Gas not properly connected.		<ol style="list-style-type: none"> <li>Pressure gauge needs to be installed.</li> <li>No gas was found inside the gas holder.</li> </ol>	03.10.2022		PENDING
108 Gas Blower near Gas holders	Non-Operational			03.10.2022		PENDING
109 Gas Blower 1 & 2 near Scrubber	When LPTN & PTC visited site, it was found that 1) only one blower for blowing gas from gas holders to scrubber unit was operational and blower no. 2 was not found operational. KRMPL was not able to get blower no. 2 working checked by LPTN & PTC. 2) No Pressure gauge was found after each blower.		<ol style="list-style-type: none"> <li>Blower no. 2 needs to be overhauled and made operational at the earliest.</li> <li>Gas analyzer must be installed (as per article 6.7 of O.G.) and that the scrubbed gas quality could be checked at site.</li> <li>Third party analysis of the gas and scrubbed gas through approved agency from LPTN, needs to be conducted on alternate days by LPTN, PTC and report needs to be submitted to check suitable operation is conducted or not as stated by KRMPL.</li> <li>Working Pressure gauge must be provided after erection.</li> <li>Gas analyzer must be installed (as per article 6.7 of O.G.) and that the scrubbed gas quality could be checked at site.</li> <li>Third party analysis of the gas and scrubbed gas through approved agency from LPTN, needs to be conducted on alternate days by LPTN, PTC and report needs to be submitted to check suitable operation is conducted or not as stated by KRMPL.</li> </ol>	Once Handover On 07.2019		Long Pending
110 Gas scrubber Unit	When LPTN & PTC visited site, it was found that 1) PG was not working and KRMPL was unable to pressure checked at the outlet of scrubber unit. 2) KRMPL has not installed any pressure gauge a year for checking gas quality. 3) KRMPL is claiming that pressure tapping system should be made more convenient. An internal safety analysis report for checking the perforance		<ol style="list-style-type: none"> <li>Working Pressure gauge must be provided after erection.</li> <li>Gas analyzer must be installed (as per article 6.7 of O.G.) and that the scrubbed gas quality could be checked at site.</li> <li>Third party analysis of the gas and scrubbed gas through approved agency from LPTN, needs to be conducted on alternate days by LPTN, PTC and report needs to be submitted to check suitable operation is conducted or not as stated by KRMPL.</li> </ol>	28.01.2020		LONG PENDING

111	Gas Flaring Unit at DG yard	Operational 1) Auto ignition system of the gas flaring system is finally made operational on 14.11.2022. 2) Cable laying was not proper. Temporary cable correction is being used.		Need to be repaired and painted immediately.	28.01.2020	30.06.2022 New Date 31.08.2022	LONG PENDING
112	DFG No. 1	Non-Operational After 3 months of non-operational since 16.12.2021, it was made operational on 12.03.2022. Again, DFG is non operational since 10.04.2022.		1) Need to be rectified at the earliest 2) Needs to be painted	10.04.2022 16.12.2021	31.05.2022, New date 31.07.2022, New Date 15.08.2022	LONG PENDING
113	DFG No. 2	Operational		1) The autocharge must be rectified. 2) Needs to be painted. 3) Exhaust blower needs to be overhauled.	03.10.2022		PENDING
114	House Keeping	House Keeping work is found to be in very poor condition. This implies that KRMPL 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.	03.10.2022		PENDING
115	Leakage at Civil Unit	When UPJN & PFC visited site, heavy leakage was observed as shown in the picture because of which the entire division channel was filled with sewage. Also leakages from various structures were found.		1. Need to be repaired permanently 2. Cleaning and calibration for channel valves is required to be done.	28.01.2020	15.01.2022 New Date 31.08.2022	LONG PENDING
116	Log Register / Registers	It was found that no record log book or register for Mechanical screens, Discharge pumps operation etc were maintained by KRMPL. Even maintenance register was not found properly maintained as BFP no. 1 was found out operation but no information of BFP was found in the maintenance register. Apart from this, various rectification works which the plant incharge is claiming was not found in the maintenance register.		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, Inlet 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		LONG PENDING

	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	03.10.2022	Pending
117							
118	Marking Equipments	It was found that some markings has been done by KSMPL and some marking on the equipments carts are still pending which had already been clarified to the plant recharge.		Each equipments / units must be marked (like 1st, 2nd etc) in bold letters so that the equipments/units can be identified easily.	26.10.2021	28.02.2022	LONG PENDING
	Laboratory	<ol style="list-style-type: none"> <li>1) KSMPL lab testing results are not matching with other agency's testing report.</li> <li>2) Calibration Tests of Lab equipment are not performed.</li> <li>3) Final confirm results is exceeding the permissible limit with a huge margin.</li> <li>4) List of equipment complete details are not found available at site.</li> <li>5) It was found that the samples were kept at negative temperature.</li> </ol>		<ol style="list-style-type: none"> <li>1) KSMPL lab testing results are not matching with other agency's testing report. KSMPL must do the testings properly as per standard operating procedure as per CIL C/PHEED manual.</li> <li>2) Lab equipments must be calibrated.</li> <li>3) Final Confirm tests need to be validated due to huge variation with the 3rd party lab results.</li> <li>4) Detailed list of lab equipment with all information must be prepared and made available at site.</li> <li>5) Temp regulated fridge must be made available for storing samples.</li> </ol>	20.03.2022 26.10.2021		
119							LONG PENDING
120	MS structures, Hand railing in whole plant, MS scales	Various MS Structures, MS scales and all the hand rails on URSS reactors etc were found totally rusted.		Epoxy painting must be done properly by following standard procedure on all the corroded items of the plant at the earliest.	26.11.2021 (Since long back)	30.06.2022	Long Pending
121	URSS Reactor Hand railing	Hand rails on the URSS reactors are totally rusted.		Handrailing needs to be either replaced or painted with epoxy paint at the earliest.	26.11.2021 (Since long back)	30.06.2022 New Date 31.08.2022	Long Pending

122	Sludge Disposal	<p>When STC /LP Jal Nigam team reached the site, we found that still sludge was being disposed at various locations inside the plant on the ground without any permission.</p> <p>As instructed by ED (Tehsil) on 08.10.2021 &amp; 11.04.2022 that sludge disposal is to be done as per norms of UPPCB but still KRMPL is not following.</p> <p>UPPCB vide their letter no. 1306/5-608/21 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.</p>		<p>Still UPPCB norms are not being followed and sludge disposal is being done inside the plant on the muddy ground.</p> <p>Sludge disposal must be done as per UPPCB norms.</p> <p>In the meeting dated 11.04.2022, ED (T) NMCC directed KRMPL to follow UPPCB norms for sludge disposal &amp; storage inside the plant but KRMPL still not following the norms.</p>		01.12.2021	LONG PENDING
123	Final Polishing Unit 1 & 2	<p>When LPJN &amp; STC officials reached the site, it was found that FFU lagoons are completely filled with sludge.</p>		<p>Desludging needs to be done on immediate basis.</p> <p>In the meeting dated 11.04.2022, ED (T) NMCC directed KRMPL to submit cleaning schedule of final polishing pond (FFP) within 7 days (i.e. 18.04.2022).</p>		22.01.2022 (Since long back)	LONG PENDING
124	Internal Lights, Exhaust Fans etc. of Panel rooms	<p>Various lights and exhaust fans inside various panel rooms were found not in working condition.</p>		<p>Various lights and exhaust fans must be rectified / replaced at the earliest.</p>		22.01.2022	30.06.2022 Long Pending
125	LT Panel Room	<p>Various indicators, ammeters, voltmeters etc were found not working.</p>		<p>All non-working indicators, ammeters, voltmeters etc must be replaced at the earliest.</p>		25.03.2022	30.06.2022 Long Pending
126	Plant External Lights	<p>When LPJN &amp; 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.</p> <p>Apart from this, almost all DG of light poles is non-functional.</p>		<p>1) Defective lights needs to be replaced at the earliest. 2) All defective DG needs to be rectified. In the meeting dated 11.04.2022, ED (T) NMCC directed KRMPL to install all lights within a day (i.e. 13.04.2022) and must ensure its 100% availability/ functioning.</p>		28.01.2020	30.06.2022 LONG PENDING
127	Water taps at various locations inside plant	<p>When LPJN &amp; PE visited the site, it was found that at various locations, the water taps are not working and the coil works are damaged and on some places no foundation and drain line were available.</p>		<p>1) Water taps must be rectified at all places. 2) Coil foundation works must be restored at all places. 3) At the places where coil 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.</p>		22.02.2022	Pending
128	Safety shower	<p>Safety shower coil structure was found damaged and the system is not working properly. Also the eye wash paddle is not working.</p>		<p>1) Eye wash paddle needs to be fixed and piping system must be fixed properly. 2) Coil foundation work must be restored. 3) Proper drain line to the nearest drain must be constructed.</p>		22.02.2022	30.06.2022 Pending
129	O&M Staff	<p>Every time when LPJN &amp; PE team visited the site, it was found that qualified &amp; adequate nos. of O&amp;M staff workers are not available / employed at site for proper O&amp;M of the site.</p>		<p>Qualified and adequate nos. of staff/ workers must be deployed by KRMPL.</p> <p>In the meeting dated 11.04.2022, ED (T) NMCC directed KRMPL that atleast 50 % of the deployed manpower must be sufficiently qualified for the operation of the plants and instructed KRMPL to submit the detailed credentials.</p>		22.02.2022 (Since long back)	Long Pending
130	Power connection through Birgaon Plant	<p>When LPJN &amp; STC officials visited site, a temporary power line from Panel room (near aeration tank) to LPJN SWEZ plant was found.</p>		<p>This temporary connection needs to be removed.</p>		27.01.2022	Required action needs to be taken by either KRMPL or LPJN if required.

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