








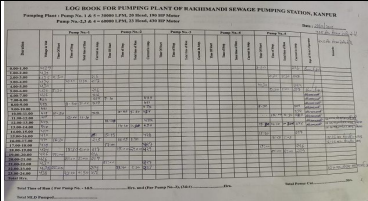


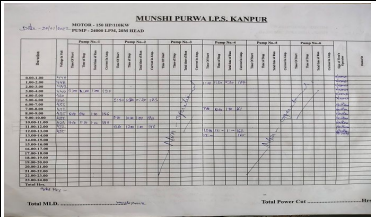
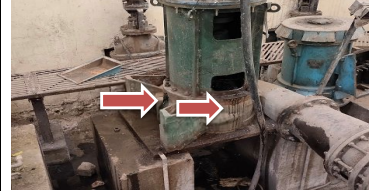










SITE INSPECTION REPORT FOR 100 MLD IPS Rakhimandi , 67 MLD IPS Munshipuram, 20 MLD IPS Halwakanda BINGAWAN					BINGAWAN all IPS		Date: 20.01.2022	INSPECTED BY: Mr. Rohit Suman (Supp. Engr. Mech.)
S. No.	Equipment	Assessment of Current Condition	Assessment of Current Condition photo	Corrective Action Required	Corrective Action Completed by KRMPL	Original Date of Issue	Proposed Date to Resolve by KRMPL	Current Status of Compliance
100 MLD IPS Rakhimandi								
1	Mechanical Coarse screen	Non Operational.		a) Need to be Repair b) Cable dressing needs to be done c) Screen panel door damaged, need to be repaired and painted.		Since Hand over, dated 08-07-2019	28.02.2022 for all	Long Pending  Proposed date is as per KRMPL Letter no. 2123 & 2127 dated 22.01.2022 & 24.01.2022 for compliance to inspection carried on 24.11.2021 & 29.12.2021 respectively by PE.
2	Conveyor Belt	Not Available at site		Needs to be installed at the earliest		Since Hand over, dated 08-07-2019	31.03.2022	Long Pending
3	Manual Screen	Operational		a) Manual cleaning of disposal material has to be done on regular basis b) Screen area light not working, need to be repaired / replace.		18-10-2021		Pending  Not rectified yet as indicated in KRMPL Letter no. 2123 & 2127 dated 22.01.2022 & 24.01.2022 for compliance to inspection carried on 24.11.2021 & 29.12.2021 respectively by PE.
4	Sluice Gates	Operational		Lubrication required, Lubrication has to be done on regular basis for smooth operation.		18-10-2021		Pending
5	Manually Operated Crane	Operational		Need to do Lubrication work on regular basis				
6	Pumps no. 1	Operational Starter ammeter & voltmeter along with various indicators not working.		a) Temperature & Vibration checking (through vibration meter) required as per approved O&M manual. b) Starter no. 1 panel ammeter and voltmeter along with various indicators needs to be replaced.		18-10-2021	10.02.2022	Pending
7	Pumps no. 2	Operational 1) After around half month of non operational since 24.11.2021, made operational on 07.12.2021. 2) Starter ammeter & voltmeter along with various indicators not working.		a) Temperature & Vibration checking (through vibration meter) required as per approved O&M manual. b) Starter no. 2 panel ammeter and voltmeter along with various indicators needs to be replaced.		24-11-2021		Pending
8	Pumps no. 3	Non Operational.		a) Overhauling needs to be done. b) Temperature & Vibration checking (through vibration meter) required as per approved O&M manual.		18-10-2021	28.02.2022	Pending
9	Pumps no. 4	Non Operational.		a) Overhauling needs to be done. b) Temperature & Vibration checking (through vibration meter) required as per approved O&M manual.		06-12-2021	15.02.2022	Pending
10	Pumps no. 5	Operational Starter ammeter & voltmeter along with various indicators not working.		a) Temperature & Vibration checking (through vibration meter) required as per approved O&M manual. b) Starter no. 5 panel ammeter and voltmeter along with various indicators needs to be replaced.		18-10-2021		Pending  Not rectified yet as indicated in KRMPL Letter no. 2123 & 2127 dated 22.01.2022 & 24.01.2022 for compliance to inspection carried on 24.11.2021 & 29.12.2021 respectively by PE.

11	Pump Operation	<p>1) When STC visited the site, it was found that only 2 pumps were running.</p> <p>2) No free fall was observed during PE site visit</p>		<p>At an average of 70 MLD flow (which is 70 % of the average design flow) is coming, therefore atleast either 3 nos. of pumps (1 of 3600 cap. &amp; 2 of 1800 cap.) or 2 nos. of pumps ( of 3600 capacity) has to be operated during peak flow &amp; atleast 2 nos. pumps (1 of 3600 cap. &amp; 1 of 1800 cap.) to be operated during non peak flow on regular basis in rotational way to tackle the problem of backflow/ reverse flow.</p> <p>In case the flow increase more than 70 MLD, more pumps needs to be operated.</p>	29.12.2021			
12	Dewatering Pump	Non Operational		Needs to be rectified at the earliest	24.11.2021			<p>Pending</p> <p>Temporary arrangement has been made.</p> <p>Original pumps and system not rectified yet as indicated in KRMPL Letter no. 2123 &amp; 2127 dated 22.01.2022 &amp; 24.01.2022 for compliance to inspection carried on 24.11.2021 &amp; 29.12.2021 respectively by PE.</p>
13	Flow Meter	Non Operational		Needs to be rectified at the earliest	28.12.2021	28.02.2022		Pending
14	Collection sump Level transmitter	Non-Operational		Needs to be rectified at the earliest	28.12.2021			Pending
15	DG 1250 KVA	<p>Operational</p> <p>Non Operational for 7 months (i.e. since 21.04.2021) and rectified on 25.10.2021</p> <p>DG set radiator was found damaged</p>		<p>1) DG set radiator must be rectified at the earliest.</p> <p>2) Exhaust pipe has to be fixed to the height above than that of nearest building.</p>	24-11-2021	28.02.2022		Pending
16	Sub Station Yard	Operational		<p>a) Yard fencing need to be painted.</p> <p>b) CT junction box need to be painted.</p>	18-10-2021	15.02.2022 for all		Pending
17	HT Panel Room	<p>Operational</p> <p>1) HT panel ammeter, voltmeter, indicators were found not working.</p> <p>2) Checker plate was not found at some area.</p>		<p>a) HT Panel incommer and outgoing ammeter, voltementer, indicators &amp; pf meter need to be replaced.</p> <p>b) Rubber matt need to be fixed properly in front of HT Panel.</p> <p>c) 200 amp. ACB in the panel and ammeter, voltmeter need to be replaced.</p> <p>d) Checker plate on cable trench must be provided.</p>	18-10-2021	15.02.2022 28.02.2022		Pending
18	Transformer no. 1	<p>Operational</p> <p>Operator dosen't know switching off transformer from HT panel.</p>		<p>1) Training must be provided to the operator for operating / switching transformers.</p> <p>2) Transformer breather silica gel needs to be replaced.</p>	18-10-2021	30.01.2022		Pending
19	Transformer no. 2	Operational		Transformer breather silica gel needs to be replaced.	24-11-2021	30.01.2022		Pending
20	Miscellaneous							
a)	Pumps Log Book	On various hours, operator sign was not found		<p>1) All pumps needs to be operated on timely basis.</p> <p>2) Non functional pumps have to be mentioned in the log book by the operator.</p> <p>3) Operator has to sign in the log book on hourly basis.</p>	18-10-2021			
b)	Manpower Log Book			Operators has to sign in the log book on daily basis.	18-10-2021			
c)	Log Book / 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, In/out material register, first aid register, attendance register, visit register etc) must be maintained daily.	18-10-2021			Pending


d)	MS Structure			Painting need to be done.		18-10-2021	15.02.2022	Pending
e)	MPS Room Indoor & Outdoor lighting			a) Indoor 5th no. tube light need to be replaced. b) 1 no. ceiling fan need to be repaired. c) Outdoor tube light 3 nos. need to be replaced.		18-10-2021	15.02.2022	Pending
f)	Fire Extinguisher & Sand buckets	No fire extinguisher & sand buckets found inside Panel room		Must be provided at the earliest.		24.11.2021		Pending Not provided yet as indicated in KRMPD Letter no. 2123 & 2127 dated 22.01.2022 & 24.01.2022 for compliance to inspection carried on 24.11.2021 & 29.12.2021 respectively by PE.
67 MLD IPS Munshipurwa								
1	Sluice Gates Walkway	Huge cracks were found on the walk way and its not safe to even stand on it.		It needs to be restored at earliest		Since Hand over, dated 08-07-2019	31.03.2022	Lond pending Proposed date is as per KRMPD Letter no. 2123 & 2127 dated 22.01.2022 & 24.01.2022 for compliance to inspection carried on 24.11.2021 & 29.12.2021 respectively by PE.
2	Sluice Gate	Operational		1) Fix hand wheel on sluice gate no. 2. 2) Lubrication needs to be done.		18-10-2021	31.01.2022	Pending
3	Mechanical Coarse screen	Non Operational		a) It has to be overhauled at earliest. b) Cable dressing needs to be done. c) Screen panel voltmeter & ammeter need to be replaced.		Since Hand over, dated 08-07-2019	15.03.2022 for all	Lond pending
4	Manual Screen	Operational		Manual cleaning of disposal material has to be done on regular basis		18-10-2021		Not done yet as indicated in KRMPD Letter no. 2123 & 2127 dated 22.01.2022 & 24.01.2022 for compliance to inspection carried on 24.11.2021 & 29.12.2021 respectively by PE.
5	Conveyor Belt	Non Operational		a) Conveyor belt is not available at site. Needs to be installed at earliest. b) Screen area light need to be replaced.		Since Hand over, dated 08-07-2019	15.03.2022 15.02.2022	Long Pending
6	Collection Tank Walk Way	Huge cracks were found on the walk way and its not safe to even stand on it.		It needs to be restored at earliest		Since Hand over, dated 08-07-2019	31.03.2022	Long Pending
7	Manual Screen RCC Staire Case	Staire case structure & bottom slab were found damaged.		It should be restored at earliest		18-10-2021	31.03.2022	Pending



8	Pump no. 1	Operational		<p>a) Temperature &amp; Vibration checking required as per approved O&amp;M manual</p> <p>b) ATS panel starter voltmeter and phase indicators need to be replaced.</p>	18-10-2021	28.02.2022	Pending
9	Pump no. 2	Operational		<p>a) Temperature &amp; Vibration checking required as per approved O&amp;M manual</p> <p>b) ATS panel starter voltmeter and phase indicators need to be replaced.</p>	18-10-2021		Pending
10	Pump no. 3	Non-Operational		<p>a) Overhauling needs to be done. Temperature &amp; Vibration checking required as per approved O&amp;M manual</p> <p>b) ATS panel starter voltmeter and phase indicators need to be replaced</p>	18-10-2021		<p>Pending</p> <p>False information is indicated in KRMP Letter no. 2123 &amp; 2127 dated 22.01.2022 &amp; 24.01.2022 for compliance to inspection carried on 24.11.2021 &amp; 29.12.2021 respectively by PE.</p>
11	Pump no. 4	Operational		<p>a) Temperature &amp; Vibration checking required as per approved O&amp;M manual</p> <p>b) ATS panel starter voltmeter and phase indicators need to be replaced.</p>	18-10-2021		Pending
12	Pump no. 5	Non Operational		<p>a) Overhauling needs to be done. Temperature &amp; Vibration checking required as per approved O&amp;M manual</p> <p>b) ATS panel starter voltmeter, ammeter and phase indicators need to be replaced</p>	25-08-2020		<p>Pending</p> <p>False information is indicated in KRMP Letter no. 2123 &amp; 2127 dated 22.01.2022 &amp; 24.01.2022 for compliance to inspection carried on 24.11.2021 &amp; 29.12.2021 respectively by PE.</p>
13	Pump no. 6	Non Operational		<p>a) Overhauling needs to be done. Temperature &amp; Vibration checking required as per approved O&amp;M manual</p> <p>b) ATS panel starter voltmeter and phase indicators need to be replaced</p>	25-08-2020	28.02.2022	Pending
14	Pump Operation	When PE visited the site, It was observed that only one pump was running and on some hours, no pump was being operated as evident from the log book of pumps		<p>At an average of 24 MLD flow (which is 36 % of the average design flow) is coming, therefore atleast 2 nos. of pumps has to be operated during peak flow &amp; atleast 1 no. pump to be operated during non peak flow on regular basis in rotational way to tackle the problem of backflow/ reverse flow.</p> <p>In case the flow increase more than 24 MLD, more pumps needed to be operated.</p>	29.12.2021		
15	Pumps Leakage	Leakages were found from the impeller of pumps		Needs to be rectified.	24.11.2021		
16	Dewatering Pump no.1	Operational					
17	Dewatering Pump no.2	Non Operational		Needs to be repaired at the earliest.	24.11.2021	10.02.2022	
18	Flow Meter.	Operational		Needs to be calibrated and provide the calibration certificate	18-10-2021	28.02.2022	Pending
19	Manually Operated Crane	Operational		Overhauling & lubrication needs to be done			
20	Gate Valve	Operational		Operating wheel has to be fixed & Lubrication should be done.	18-10-2021		Pending

21	DG Set	Non-Operational At the time of visit, due to battery and auto charger issue, Operator was not able to start the DG set.		1) DG set battery needs to be rectified. 2) Auto charger must be rectified. 3) Exhaust pipe has to be fixed to the height above than that of nearest building.		20.01.2022 20.01.2022 18-10-2021	3) 28.02.2022	Pending Not rectified completely as indicated in KRMPL Letter no. 2123 & 2127 dated 22.01.2022 & 24.01.2022 for compliance to inspection carried on 24.11.2021 & 29.12.2021 respectively by PE.
22	Transformer no. 1	Non operational Transformer arrived at site on 07.11.2021 but found ideal		Needs to be repaired and connected at the earliest.		03-05-2021 as per operator's record	15.02.2022	Pending
23	Transformer no. 2	Operational		Transformer breather silica gel has to be replaced at earliest		18-10-2021	31.01.2022	Pending
24	Sub Station Yard	Operational		a) Yard fencing need to be painted. b) CT structure need to be painted. c) CT junction box need to be painted.		18-10-2021	15.02.2022 for all	Pending
25	HT Panel Room	Operational		a) HT Panel incommer and outgoing ammeter, voltmeter & pf meter need to be replaced. b) HT Panel door and heater need to be repaired. c) Rubber matt need to be fixed properly in front of HT Panel.		18-10-2021	28.02.2022 for all	Pending
26	Miscellaneous							
a)	Pump Log Book			Maintain log books properly.				
b)	Log Book / 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, In/out material register, first aid register, attendance register, visit register etc) must be maintained daily.		18-10-2021		Pending
c)	Hand Railing			Painting needs to be done.		18-10-2021	15.02.2022	Pending
d)	MPS Room Indoor & Outdoor lighting			a) 2 nos. tube light not working, need to be replaced. b) Outdoor lighting 4 nos. need to be replaced. c) 4 nos. exhaust fan, need to be repaired. d) 1 no. ceiling fan need to be repaired.		18-10-2021	15.02.2022 for all	Pending
20 MLD IPS Halwakanda								
1	Manual Screen	Operational		Manual Screen must be cleaned on regular basis				
2	Manually Operated Crane	Operational						
3	Electrically Operated Crane	Non Operational		It has to be installed at its position.		18-10-2021	31.02.2022	Pending Proposed date is as per KRMPL Letter no. 2123 & 2127 dated 22.01.2022 & 24.01.2022 for compliance to inspection carried on 24.11.2021 & 29.12.2021 respectively by PE.
4	Submersible pump no. 1	Operational Leakage found from NRV.		a) NRV leakage must be repaired at the earliest. b) Earthing of soft starter needs to be done.		18-10-2021	15.02.2022 for all	Pending
5	Submersible pump no. 2	Operational PG not available		a) PG must be installed at the earliest. b) Earthing of soft starter needs to be done.		18-10-2021	31.03.2022 15.02.2022	Pending

6	Submersible pump no. 3	Non Operational		a) Overhauling needs to be done. b) Earthing of soft starter needs to be done.	25-10-2020	28.02.2022 for all	Pending
7	Submersible pump no. 4	After about 13 months (since 25.10.2020) of non operational, it was made operational on 14.10.2021.		Earthing of soft starter needs to be done.	25-10-2020	28.02.2022	
8	Submersible pump no. 5	Operational		Earthing of soft starter needs to be done.	18-10-2021	28.02.2022	
9	DI Common Header	Operational		a) Out of 5 Pressure gauges, only 2 were found which is also not functional. Install all pressure gauges. b) 2 nos. area light need to be replaced. c) Cable dressing work need to be done.	18-10-2021	28.02.2022 15.02.2022 15.02.2022	Pending
10	Pressure Gauges	Non Operational		Out of 5 Pressure gauges, only 2 were found which is also not functional. Get the pressure gauges calibrated / replaced at earliest.	18-10-2021	28.02.2022	Pending
11	NRV's & Gate valves	Operational Various nut bolts were found missing and various were rusted		a) Heavy leakages were found through various NRV's and Gate valves. b) Do the overhauling work of NRVs and Gate valves. c) Fix the missing nut bolts and replace the rusted nut bolts.	18-10-2021	15.02.2022 for all	Pending
					18-10-2021		Pending
12	Pumps Operation	At the time of STC team visit, it was found that only 2 pumps were running and the collection sump was full of sewage which means pumps were not operated as per requirement.		At an average of 21.5 MLD flow (which is 108 % of the average design flow) is coming, therefore atleast 3 or 4 nos. of pumps has to be operated during peak flow & atleast 2 or 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 21.5 MLD, more pumps needs to be operated.	24.11.2021		Pending
13	DG	Non-Operational		a) Battery must be provided and rectification must be done at the earliest. Also auto charging system must be rectified. b) Exhaust pipe has to be fixed to the height above than that of nearest building. c) Emergency push button need to be repaired.	28.11.2021 18.10.2021	2) 28.02.2022 3) 15.02.2022	Pending
14	Transformer no. 1	Operational		a) Transformer breather silica gel need to be changed. b) Transformer area light need to be replaced.	18-10-2021	31.01.2022	Pending
15	Sub Station Yard	Operational		a) Yard fencing need to be painted.	18-10-2021	15.02.2022	Pending
16	LT Panel	Various Ammeter, Voltmeter & indicators were found non working		LT Panel MCCB 200 amp. need to be repaired. B) Incommer ACB handle need to be replace c) LT panel ammeter, voltmeter, indicator needs to be replaced.	18-10-2021	15.02.2022 for all	Pending
17	HT Panel Room	Operational Various ammeter, Voltmeter, indicators found not working.		a) HT Panel incommer and outgoing ammeter, voltmeter & pt meter need to be replaced. b) HT Panel door and heater need to be repaired. c) Rubber mat need to be fixed properly in front of HT Panel. d) DG set panel door cover need to be repaired. e) All Indoor & outdoor lights need to be replaced.	18-10-2021	15.02.2022 for all	Pending
18	Miscellaneous						
a)	Fire Extinguisher	Provided on 23.11.2021.				15.02.2022	
b)	Safety			Workers must have to be in proper PPE's. Need to be complied.	18-10-2021		Pending
c)	First Aid Box						

d)	<b>Log Books / Registers</b>			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.		18-10-2021		Pending
e)	<b>Plant lights</b>			a) All light pole need to be painted. B) Various lights needs to be replaced		18-10-2021	28.02.2022 for all	Pending
f)	<b>Emergency contact details</b>			Post of emergency contact personal details need to be updated.		18-10-2021		Pending
g)	<b>Metering Room</b>	No rubber mat was found beside the meter		Rubber mat must be provided at the earliest.		24.11.2021		