











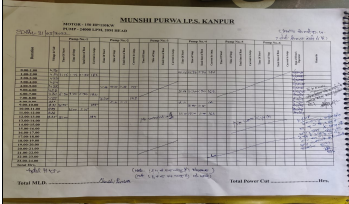
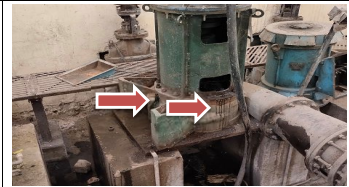









SITE INSPECTION REPORT FOR 100 MLD IPS Rakhimandi , 67 MLD IPS Munshipuram, 20 MLD IPS Halwakanda BINGAWAN					BINGAWAN all IPS		Date: 31.03.2022	INSPECTED BY: UPIN Team: 1) Mr. Rajesh Kumar (AE, E&M) 2) Mr. Mahipal Singh (JE, E&M) STC Team: 1) Mr. Satish Kamraju (Process Expert) 2) Mr. Rohit Suman (Supp. Engr. Mech.) 3) Mr. Pankaj Rawat (Supp. Sup. Civil) KRMPL Team: Mr. Sundeep Sharma (Site Incharge)
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
				Sludge has been fully accumulated before Mechanical Screen. Need to be cleaned		18-10-2021	28.02.2022	Pending
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
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	Non Operational Starter ammeter & voltmeter along with various indicators not working.		a) Needs to be rectified at the earliest. b) Temperature & Vibration checking (through vibration meter) required as per approved O&M manual. c) Starter no. 2 panel ammeter and voltmeter along with various indicators needs to be replaced.		1) 26.02.2022 24.11.2021		Pending
8	Pumps no. 3	Operational 1) After around 5 months of non-operational since 18.10.2021, pump no.3 was made operational on 26.03.2022. 2) Starter panel is not working and the pump was operated with the starter of pump no. 4.		1) Temperature & Vibration checking (through vibration meter) required as per approved O&M manual. 2) Starter panel need to rectified at the earliest.		1) 18-10-2021 2) 26.03.2022	28.02.2022	Pending
9	Pumps no. 4	Non Operational Starter ammeter & voltmeter along with various indicators not working.		a) Needs to be rectified at the earliest. b) Temperature & Vibration checking (through vibration meter) required as per approved O&M manual. c) Starter no. 4 panel ammeter and voltmeter along with various indicators needs to be replaced.		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
11	Pump Operation			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. & 2 of 1800 cap.) or 2 nos. of pumps (of 3600 capacity) has to be operated during peak flow & atleast 2 nos. pumps (1 of 3600 cap. & 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. In case the flow increase more than 70 MLD, more pumps needs to be operated.	29.12.2021		
12	Dewatering Pump	Non Operational		Needs to be rectified at the earliest	24.11.2021		Pending Temporary arrangement has been made. Original pumps and system not rectified yet as indicated in KRMPIL 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.
13	Flow Meter	Non Operational		Needs to be rectified at the earliest	28.12.2021	28.02.2022	Long Pending
14	Collection sump Level transmitter	Non-Operational		Needs to be rectified at the earliest	28.12.2021		Long Pending
15	DG 1250 KVA	Operational Non Operational for 7 months (i.e. since 21.04.2021) and rectified on 25.10.2021 1) DG set radiator was found damaged 2) Huge exhaust gas was continuously found coming.		1) DG set radiator must be rectified at the earliest. 2) Exhaust pipe has to be fixed to the height above than that of nearest building. 3) Huge gas discharging the DG set must be rectified.	24-11-2021	28.02.2022	Long Pending
16	Sub Station Yard	Operational		a) Yard fencing need to be painted. b) CT junction box need to be painted.	18-10-2021	15.02.2022 for all	Pending
17	HT Panel Room	Operational 1) HT panel ammeter, voltmeter, indicators were found not working. 2) Checker plate was not found at some area.		a) HT Panel incommer and outgoing ammeter, voltmeter, indicators & pf meter need to be replaced. b) Rubber matt need to be fixed properly in front of HT Panel. c) 200 amp. ACB in the panel and ammeter, voltmeter need to be replaced. d) Checker plate on cable trench must be provided.	18-10-2021	15.02.2022 28.02.2022	Pending
18	Transformer no. 1	Operational		Transformer breather silica gel needs to be replaced.	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			1) All pumps needs to be operated on timely basis. 2) Non functional pumps have to be mentioned in the log book by the operator. 3) Operator has to sign in the log book on hourly basis.	18-10-2021		
b)	Manpower Log Book			Operators has to sign in the log book on daily basis.			
c)	Log Book / Register	Various log books and register were not found available at site		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		Long 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)	Painting	When PE team reached the site, it was found that painting work was not being done properly as per standard procedure.		Painting needs to be done as per standard procedure.		26.02.2022		
g)	Fire Extinguisher & Sand buckets	Fire extinguisher was found expired & no sand buckets found inside Panel room		1) Fire extinguisher must be refilled. 2) Sand buckets must be provided at the earliest.		24.11.2021		Pending
h)	Manpower	No security guard was available at site		Deploy adequate number of O&M Staff.		26.02.2022 (since long back)		Pending
i)	Numbering Equipments			Each equipments of every units must be numbered/ marked (like 1st, 2nd etc) in bold letters so that it could be seen easily.		31.03.2022		
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	Long pending
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	Long pending
4	Manual Screen	Operational		Manual cleaning of disposal material has to be done on regular basis		18-10-2021		
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		a) Temperature & Vibration checking required as per approved O&M manual b) ATS panel starter voltmeter and phase indicators need to be replaced.		18-10-2021	28.02.2022	Pending
9	Pump no. 2	Operational		a) Temperature & Vibration checking required as per approved O&M manual b) ATS panel starter voltmeter and phase indicators need to be replaced.		18-10-2021		Pending
10	Pump no. 3	Non-Operational		a) Overhauling needs to be done. Temperature & Vibration checking required as per approved O&M manual b) ATS panel starter voltmeter and phase indicators need to be replaced		18-10-2021		Pending
11	Pump no. 4	Operational but some unwanted sound was coming from the pump.		a) Needs to be checked and fixed. b) Temperature & Vibration checking required as per approved O&M manual c) ATS panel starter voltmeter and phase indicators need to be replaced.		1) 26.02.2022 2) 18.10.2021		Pending
12	Pump no. 5	Non Operational		a) Overhauling needs to be done. Temperature & Vibration checking required as per approved O&M manual b) ATS panel starter voltmeter, ammeter and phase indicators need to be replaced		25-08-2020		Pending
13	Pump no. 6	Non Operational		a) Overhauling needs to be done. Temperature & Vibration checking required as per approved O&M manual b) ATS panel starter voltmeter and phase indicators need to be replaced		25-08-2020	28.02.2022	Pending
14	Pump Operation	When UPJIN & 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		At an average of 30 MLD flow (which is 44 % of the average design flow) is coming, therefore atleast 2 nos. of pumps has to be operated during peak flow & 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. In case the flow increase more than 24 MLD, more pumps needed to be operated.		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		Lubrication should be done.		31.03.2022		
21	DG Set	Operational When PE visited the site, DG was found operational but the date on which DG was made operational was not known to the plant operator and no maintenance register was found.		Exhaust pipe has to be fixed to the height above than that of nearest building.		18-10-2021	28.02.2022	Long Pending
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	Long 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, voltemeter & 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	Various log books and register were not found available at site		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		Long 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
e)	Numbering Equipments			Each equipments of every units must be numbered/ marked (like 1st, 2nd etc) in bold letters so that it could be seen easily.		31.03.2022		
f)	Manpower	No security guard was available at site		Deploy adequate number of O&M Staff.		26.02.2022 (since long back)		Pending
20 MLD IPS Halwakanda								

1	Manual Screen	Operational When UPJN & STC team visited to site, it was found that out of the 2 manual screen, 1 screen was found jammed at the below position and is completely chocked because of which sewage is not passing and overflowing through the screen.		1) The jammed manual screen must be taken out and cleaned and placed to its position properly. 2) Manual Screen must be cleaned on regular basis		31.03.2022		
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	Long Pending
4	Submersible pump no. 1	Non Operational		a) Needs to be rectified at the earliest. b) Earthing of soft starter needs to be done.		1) 11.02.2022 2) 18.10.2021		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	Operational After about 1.5 years of non operational since 25.10.2020, it was made operational on 31.03.2022.		Earthing of soft starter needs to be done.		25-10-2020	28.02.2022 for all	Pending
7	Submersible pump no. 4	Non Operational After about 13 months (since 25.10.2020) of non operational, it was made operational on 14.10.2021. Again on 20.03.2022 pump became non operational.		a) Needs to be rectified at the earliest. b) Earthing of soft starter needs to be done.		20.03.2022 25-10-2020	28.02.2022	Pending
8	Submersible pump no. 5	Operational		Earthing of soft starter needs to be done.			28.02.2022	Pending
9	DI Common Header	Operational		a) Out of 5 Pressure gauges, only 4 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 4 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		Fix the missing nut bolts and replace the rusted nut bolts.		18-10-2021	15.02.2022 for all	Pending
12	Pumps Operation			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		
13	DG	Operational		a) 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, voltementer & pf 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.					
b)	Safety			Workers must have to be in proper PPE's. Need to be complied.			
c)	First Aid Box						
d)	Log Books / Registers	Various log books and register were not found available at site		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		Long Pending
e)	Plant lights			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)	Emergency contact details			Post of emergency contact personal details need to be updated.	18-10-2021		Pending
g)	Cleaning	Cleaning has not been done from the last 6 Months		Cleaning needs to be done on regular basis.	26.02.2022 (since long back)		Pending
h)	Metering Room						
i)	Numbering Equipments			Each equipments of every units must be numbered/ marked (like 1st, 2nd etc) in bold letters so that it could be seen easily.	31.03.2022		
j)	MS Structures	Various I beams and ms structures were found rusted		Painting needs to be done on all rusted ms structures and the damaged sheets must be replaced	31.03.2022		
k)	Manpower	No security guard was available at site		Deploy adequate number of O&M Staff.	26.02.2022 (since long back)		Pending

P. Gurusankar