

**SITE INSPECTION REPORT FOR 14 MLD IPS Chakeri & 14 MLD IPS Sanigawan\_ Sajari IPS**

SAJARI all IPS

Date: 20/01/2022

**INSPECTED BY:**  
**UPJN Team:**  
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**STC Team:**  
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S. No.	Equipment	Assessment of Current Condition	Assessment of Current Condition photo	Corrective Action Required	Corrective Action Completed by KRMP	Original Date of Issue	Proposed Date to Resolve by KRMP	Current Status of Compliance
<b>14 MLD IPS Chakeri</b>								
1	Mechanical Coarse screen 1	Non-Operational 1) Sludge was found accumulated beside the screen		1) Must be rectified at the earliest. 2) Accumulated sludge must be cleaned at the earliest.		08.01.2022 18.11.2021		Pending
2	Mechanical Coarse screen 2	Operational Sludge was found accumulated beside the screen		Accumulated sludge must be cleaned at the earliest.		18.11.2021		Pending
3	Mechanical Coarse Screen On site Panel	Operational. Door glass not available and some of the indicator light not working.		1) Fix the door glass and rectify indicator lights. 2) Panel painting required.		20-10-2021	door glass fix 20/11/21 panel painting 30/11/21	Long Pending
4	Mechanical Screen Automation System	1) Automation system is not available. 2) Cable tray & MS structures rusted 3) Level transmitter was not available inside Collection tank.		1) Auto system is required to be installed and made functional 2) Cable tray & MS structures rusted. Painting required. 3) Level sensor inside collection tank must be installed.		Since handover dated 11-10-2019	Painting of cable tray and structure by 30/11/21	Long Pending
5	Inlet Sluice Gate	Operational		1) Stem guide of sluice gate is not fixed properly. Rectify it. 2) Sluice Gate shutter should be fixed properly. 3) Stem of sluice gates are found in bend condition. Rectify it. 4) Accumulated Sludge in the inlet chamber must be removed at the earliest.		20-10-2021	30-11-2021	Long Pending
6	Conveyor Belt Discharge Trolley	Operational. At the time of site visit, no trolley for shifting debris was found at site.		Trolley must be provided for shifting debris		13-07-2020		Long Pending
7	Manual Screen	Operational		Remove the sludge deposited around manual screen		20-10-2021		Long Pending
8	Sluice Gate	Stem guide of sluice gate fixed before collection tank sump is found hanging and unfixed.		Stem guide of sluice gate is not fixed properly. Rectify it.		18.11.2021		Long Pending
9	Pumps no. 1	Operational After around 5 months of non-operational since Aug. 2021, pump no.1 has been made operational on 09.01.2022						
10	Pumps no. 2	1) Operational but starter system not working. 2) Leakage was found from the DI header line.		1) Starter system to be rectified immediately. 2) Leakage from the DI header line must be fixed at the earliest.		20-10-2021	30-11-2021	Long Pending

11	Pumps no. 3	Non Operational 1) Starter system not working. 2) Leakage was found from the DI header line. 3) Inside leakage was found from NRV on DI header line.		1) Must be rectified at the earliest. 2) On site starter system not working. Repair at the earliest. 3) Leakage from the DI header line must be fixed at the earliest. 4) NRV must be repaired	20-10-2021	15-12-2021	Long Pending
12	Pumps no. 4	Operational but starter system not working		Starter system to be rectified immediately.	20-10-2021		Pending
13	Pumps no. 5	Operational After months of non-operational since 20.10.2021, it is now operational. Operator is not knowing the date on which the pump is made operational. Also no maintenance register was found on site.		Maintenance register must be provide at the site.	14.12.2021		
14	Pump Operation			At an average of 5 MLD flow (which is 35 % of the average design flow) is coming, therefore atleast 1 to 2 nos. of pumps are 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 5 MLD, more pumps needed to be operated.	14.12.2021		
15	Pump On Site Starter Panel	1) All starter panel were non functional. Upon starting the pumps from LT panel room, the site person dosen't getting any idea wether the pumps have started or not as all the pressure gauges are not working and some of them are not available. 2) Cable dressing is not proper.		1) Starter system to be repaired at the earliest. 2) Cable dressing needs to be done.	20-10-2021	30-11-2021	Long Pending
16	Pressure Gauges	4 out of 5 pressure gauges are not functional.		Need to be replaced.		Since handover dated 11-10-2019	Long Pending
17	Manually Operated Crane	Operational		Lubrication needs to be done.	20-10-2021		
18	Electro-Magnetic Flow Meter	Non Operational		1) Need to be repaired/ replace at earliest. 2) Calibration certificated to be submitted at earliest.	13-07-2020		Long Pending
19	LT Panel	Ammeter not working		Need to be replaced	20-10-2021	15-12-2021	Long Pending
				Indicator light cover need to be replaced	20-10-2021	30-11-2021	Long Pending
20	Outdoor lights	Non operational. STC team found that out of 9 nos. of outdoor light provided for lighting of the caampus, 5 nos. are not available and none of the lights were functional.		Need to install all lights.	20-10-2021	31-12-2021	Long Pending

21	Indoor lighting	Some of the indoor lights not working		Need to be replaced	20-10-2021	30-11-2021	Long Pending
22	DG Set	1) After 17 months of non-operational since 13.07.2020, it is now made operational. Operator is not knowing the date on which the DG set is made operational. Also no maintenance register was found on site. 2) Doors damaged and lying ideal		1) Damaged gates must be fixed. 2) A separate DG log book is to be maintained. 3) Maintenance register must be provide at the site.	14.12.2021		Pending
23	Transformer	Transformer marshalling box rusted		Need to be painted	18.11.2021		Pending
24	<b>Miscellaneous</b>						
a)	Water logging	STC team found that the chamber of electro-magnetic flow meter was submerged with water.		Dewatering needs to be done at earliest	20-10-2021		Pending
b)	Painting	Checker plate of MS structure are badly rusted.		Need to be painted.	13.07.2020	15-12-2021	Long Pending
c)	Pump Log Book	1) Operated was operating without considering peak hours & non peak hours. 2) Also at night, it was found that the pumps were not being operated.		1) Log book must be maintained properly. 2) Operators has to sign in the log book on daily basis. 3) No helper, gardner available at site, deploy at the earliest. 4) Operate the pumps regularly as required.	20-10-2021		Pending
d)	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 and should be available at site all the time.	20-10-2021		Pending
e)	Fire Extinguisher	Operational					
f)	Safety			Workers should have to be in proper PPEs			
g)	House keeping	STC team found that none of the labour/ helper were present for house keeping work and by seeing the condition, it can be said that KRML is not doing house keeping works		House keeping work must be done on regular basis	13.07.2020		Long Pending
h)	Manpower	STC team found that 1) No security Guard was available. 2) No helper/ Sweeper was available. 3) Pump operators are not technical qualified & have no relevant experience.		1) Deploy sufficient nos. of security guard, sweeper, helper etc for day to day work as per approved O&M manual. 2) Deploy sufficient & technical qualified nos. of operator as per approved O&M manual	20-10-2021		Long Pending
i)	Sump collection tank	Various seepage were found inside sump collection tank		Must be restored at th earliest	18.11.2021		Long Pending
j)	DI Common header	Leakage was found from DI common header of Pump no. 2 & 3		Must be rectified at the earliest.	18.11.2021		Long Pending
k)	Numbering Equipments			Each equipments of every units must be numbered (like 1st, 2nd etc) in bold letters so that it could be seen easily.	14.12.2021		Pending.

14 MLD IPS Sanigawan								
1	Mechanical Coarse screen 1	Operational After around a month of non-operation, it was made operational 27.12.2021.				20.01.2022		
2	Mechanical Coarse screen 2	Operational After 2 months of non-operational since 20.10.2021, it was made operational on around 10.12.2021 as per the operator and no record of operation date was available at the site.				20.01.2021		
3	Mechanical Screen Automation System	1) Automation system is not available. 2) Cable tray & MS structures rusted 3) Level transmitter was not available inside Collection tank.		1) Auto system is required to be installed and made functional 2) Cable tray & MS structures rusted. Painting required. 3) Level sensor inside collection tank must be installed.		Since handover dated 11-10-2019	Auto system 28/02/22 cable tray painting 15/12/21	Long Pending
4	Belt Conveyor	Operational						
5	Mechanical Coarse Screen On site Panel	Some of the indicator light not working.		Rectify indicator lights.		20-10-2021		Long Pending
6	Belt Conveyor trolley	STC team found huge piles of debris accumulated near belt conveyor discharge point which means KRMLP is not removing the debris on regular basis. Also no trolley for shifting debris was found at site.		1) Provide trolley. 2) Remove the debris/disposal materials regularly.		13.07.2020	30-11-2021	Long Pending
7	Reverse flow	At the time of visit, reverse flow was observed in the inlet chamber which means required no. of pumps were not operated. Only two pump was found running at the time of visit. Also free fall in the collection tank is never being observed at the site.		At an average of 12.8 MLD flow (which is 91 % of the average design flow) is coming, therefore all 4 nos. of pumps has to be operated during peak flow & atleast 2 nos. pumps to be operated during non peak flow on regular basis in rotational way to tackle the problem of backflow reverse flow.		14.12.2021		Pending
8	Pump no. 1	After around half months of non-operational since 18.11.2021, it was made operational on 04.12.2021 .						
9	Pump no. 2	After around 2.5 months of non-operational since 20.10.2021, it was made operational on 04.01.2022.				20.01.2021		
10	Pump no. 3	Operational						
11	Pump no. 4	1) After around 2 months of non-operational since 20.10.2021, it was made operational on 21.12.2021. 2) On-Site starter panel not working		Starter Panel must be rectified at the earliest.		20.01.2022		
12	Pump no. 5	Non-Operational On site starter not working.		1) Needs to be rectified at the earliest. 2) Starter must be rectified at the earliest.		20.01.2022 14.12.2021		Pending
13	Pressure Gauges	STC team found that all pressure gauges not working properly and some of the pressure gauges are showing pressure in pump stop conditions		Need to be replaced		20-10-2021	30-11-2021	Long Pending
14	Gate Valve	Operational 2 nos. pressure gauges leaking		Do overhauling at earliest.		20-10-2021		Pending
15	Electro-Magnetic Flow Meter	Operational Calibration required.		Get the calibration done & submit the calibration certificate at earliest		13.07.2020		Long Pending
				Maintenance registered must be maintained at the site.		14.12.2021		

16	<b>DG Set</b>	Operational. 1) DG was made operational from 08.01.2022. 2) The condition of DG was very bad. Some of the gates are lying on the floor and some are totally rusted and damaged.		Exhaust pipe must be fixed to the height above than the height of nearest building	01.08.2021	Exhaust pipe height raising by 31/12/21	Long Pending
				Need to be repair/ replace at earliest.	13.07.2020		Long Pending
17	<b>HT Panel</b>	Operational Ammeter is not working		Replace it at earliest.	20-10-2021	30-11-2021	Long Pending
		Non Operational HT Panel Outgoing no. 1 is not working		Repair it at earliest	20-10-2021	10.02.2022	Long Pending
18	<b>LT Panel</b>	Operational 1) Ammeter is not working. 2) Light DB feeder not working		Replace it at earliest.	20-10-2021	30-11-2021	Long Pending
19	<b>Transformer</b>	Operational		Transformer breather silica gel has to be replaced at earliest	20-10-2021	30-11-2021	Long Pending
20	<b>Switch board</b>						
21	<b>Outdoor lights</b>	Non Operational. STC team found that non of the outdoor lights were functional.		Need to replace all lights at earliest	20-10-2021	30-11-2021	Long Pending
				Some of the outdoor lights are missing. Need to be fixed at earliest	20-10-2021	31-12-2021	Long Pending
22	<b>Indoor lighting</b>	Many of the indoor lights were non functional.		Need to be replaced at earliest	20-10-2021	30-11-2021	Long Pending
23	<b>Bore well pump</b>	Temporary arrangement of bore well pump is provided at site on 05.01.2022.		1) Install Permanent pump of desired specs, as was available previously at the earliest. 2) Also it should be connected to the existing piping system		Since Aug. 2021 approx. (as per operator)	Long Pending
24	<b>Miscellaneous</b>						

a)	<b>Fire Safety</b>	Only 2 buckets out of 4 nos., are available at site		1) Need to fix all 4 buckets and fill it properly	13-07-2020		Long Pending
b)	<b>Log Book / Register</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 and should be available at site all the time.	20-10-2021		Pending
c)	<b>Rubber Matt</b>						
d)	<b>Checker Plate</b>	Checker plate missing.		Provide checker plate at earliest.	13-07-2020	30-11-2021	Pending
e)	<b>Cable Trench</b>						
f)	<b>Dewatering</b>			Dewatering required on urgent basis	20-10-2021		Pending
g)	<b>Painting</b>	Various MS structures, Checker plates & Gates were found rusted. Some of the items were painted but not properly which needs to be painted properly.		Painting must be done on checker plates and MS structure properly at the earliest.	20-10-2021	15-12-2021	Long Pending
				Painting need to be done.	20-10-2021	15-12-2021	Long Pending
h)	<b>House keeping</b>	STC team found that no labour for house keeping work was available at site.		House keeping work must be done on regular basis.	13.07.2020		Pending
i)	<b>Main Meter</b>						
j)	<b>Numbering Equipments</b>			Each equipments of every units must be numbered (like 1st, 2nd etc) in bold letters so that it could be seen easily.	14.12.2021		Pending
k)	<b>Manpower</b>	STC team found that 1) No security Guard was available. 2) No labour for house keeping work was found available. 4) Pump operators are not technical qualified & have no relevant experience. Reverse flow was also observed.		1) Deploy sufficient nos. of security guard, sweeper, helper etc for day to day work as per approved O&M manual. 2) Deploy sufficient & technical qualified nos. of operator as per approved O&M manual	20-10-2021		Pending