

SITE INSPECTION OF JAJMAU ASSOCIATED IPS REPORT

Nawabganj IPS 32 MLD

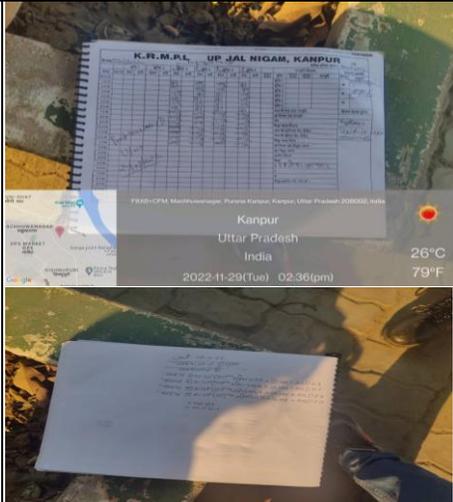
Date: 29.11.2022

INSPECTED BY:
STC Team
1. Mr Ajay Kumar Goyal, Support Engineer, Mechanical, STC Kanpur
2. Mr. Rahul Sawan, Support engineer, Electrical, STC Kanpur
3. Mrs. Divya Mittal, Support Site Supervisor, STC Kanpur
4. Mr. Karam Veer Singh, Support Site Supervisor, STC Kanpur

S. No.	Equipment	Assessment of Current Condition	Assessment of Current Condition Photo	Current defects and Corrective Action Suggested by PE	Original Date of Issue	Proposed Date to Resolve by KRMPL	Current Status of Compliance
1	All work						
1	Inlet Over Flow Condition	Overflow condition found since handover		<ol style="list-style-type: none"> 1. During site visit overflow is observed since handover 28.06.2021. 2. No action has been taken by KRMPL despite being informed, several times by NMCG, UPJN and STC representatives. 3. As per renovation plan for IPS Nawabganj , KRMPL should increase adequate pumping to prevent overflow of sewage. 	28.06.2021		Long Pending
2	Inlet Chamber	<ol style="list-style-type: none"> 1. Cleaning of inlet chamber needs be done on regular basis. 2. Staircase damaged tile needs to be renovated. 		<ol style="list-style-type: none"> 1. Cleaning of inlet chamber needs be done on regular basis. 2. Staircase damaged tile needs to be renovated. 	23.11.2021		Long Pending
3	Screen Chamber	1. Garbages has accumulated into screen chamber.		<ol style="list-style-type: none"> 1. Garbage cleaning work should be done on regular basis. 2. Garbage Trolley should be made available at the site. 	23.11..2021		Pending

4	Receiving Chamber 1	Non-Operational		<ol style="list-style-type: none"> 1. Proper pumping arrangement should be maintained by KRMPL. 2. Receiving chamber must be cleaned on regular basis. 3. Manual screen needs to be installed as per renovation plan. 4. KRMPL must ensure that after completing cleaning work of the chamber, the renovation work should begin. 	28.06.2021		Long Pending
5	Receiving Chamber 2	Operational		<ol style="list-style-type: none"> 1. For Receiving Chamber 02, the sludge removal work has been done. 2. Repairing work needs to be done by KRMPL. 	28.06.2021		Long Pending
6	Pump House No.1	Civil Structure in unsatisfactory Condition		<ol style="list-style-type: none"> 1. Pump House no-1 is non operational since date 29.08.2022. All pumps were non operational. 2. During the inspection, all pumps and motors were observed to be in submergence condition. 3. Chain pulley, LT panels, Cable tray and cable dressing were damaged. 4. 2 Nos Exhaust Fan were not working. 5. Dewatering pumps are not installed. 6. Log book is not maintaining properly by KRMPL staff as per prescribed format. 	23.11.2021		Long Pending
i	Pump no.1 (Capacity =297 m3/hr)	Non-Operational		Need to be replaced as per Renovation Plan	23.11.2021		Long Pending
ii	Pump no.2 (Capacity =156 m3/hr)	Non-Operational		Need to be replaced as per Renovation Plan	23.11.2021		Long Pending
iii	Pump no.3 (Capacity =297m3/hr)	Non-Operational		Pump no. 3 found non-operational since 27.05.2022. KRMPL needs to repair it on urgent basis.	23.11.2021		Long Pending

7	Pump House No.2	Civil Structure in unsatisfactory Condition		<ol style="list-style-type: none"> All 4 pumps were operational during the inspection. Pumps are starting on temporary starters, as existing starters are non operational. Exhaust fan was missing in the pump house. Indoor switch board work and cable dressing work are pending. Dewatering pumps are not installed. 	23.11.2021		Long pending
8	Open Channel and Sluice Gate	Civil Structure in unsatisfactory Condition		<ol style="list-style-type: none"> KRMPL has not submitted approval for fabrication work. Sluice gate needs to be replaced under renovation. 	23.11.2021		Long pending
9	Boundary wall, Valve chambers and landscaping area	Civil Structure in unsatisfactory Condition		<ol style="list-style-type: none"> KRMPL has painted the boundary wall with poor workmanship, This should be reworked. Cleaning work of campus area needs to be done by KRMPL. Valve chamber should be plastered and covered properly. All valves needs to be replaced. 	23.11.2021		Long pending
11	Transformer Yard	Civil Structure in satisfactory Condition		<ol style="list-style-type: none"> Yard area needs to be cleaned. 	23.11.2021		Long pending

12	DG set room	Civil Structure in satisfactory Condition		<ol style="list-style-type: none"> 1. DG set is in working condition. 2. Log book of DG set is not maintaining properly by KRML. 3. Diesel surplus quantity is not available at site. 4. Smog exhaust pipe length is not sufficient as per CPCB/CPHEEO guidelines. Therefore, it must be replaced on urgent basis. 	23.11.2021		Pending
13	Metering Room	Civil Structure in unsatisfactory Condition		<ol style="list-style-type: none"> 1. Seepage was observed on the wall of this room. It should be rectified. 2. Panel Volt meters and Ammeters needs to be replaced. 3. All Phase Indicators needs to be replaced. 	23.11.2021		Long Pending
14	Logbook	Log book of pump house 01 not maintained by KRML		<ol style="list-style-type: none"> 1. Security guard should be arranged by KRML. 2. Diesel stock log book was not maintained properly by KRML on regular basis. 3. Pumps log book was not maintained properly. 4. Maintenance records was not available at site for all E&M equipments. 5. Arrangement of reliever for Operators and sweepers should be done by KRML. 6. DG log book was not maintained properly by KRML. 7. Material inward and outward registers need to be maintained properly by KRML. 	28.06.2021		Long Pending

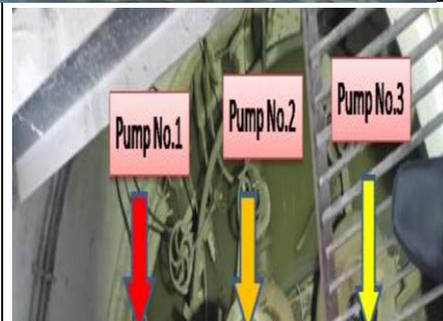
SITE INSPECTION OF JAJMAU ASSOCIATED IPS REPORT

Parmat IPS

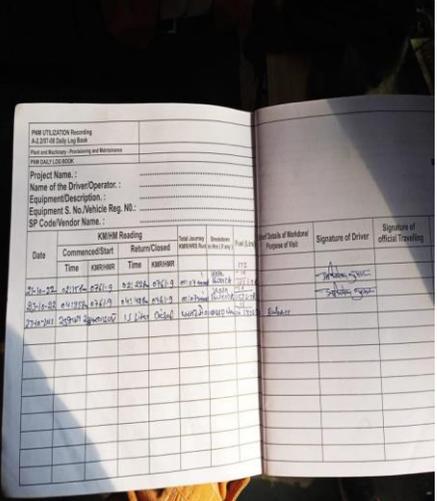
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A	All work						
*	Main entry Gate	No informatory sign board for Parmat IPS was available at the entry gate.		1. KRMPL should arrange informatory sign board for Parmat IPS.	07.04.2022		Pending
1	Inlet Chamber	Civil Structure is in satisfactory condition		1. All kinds of Renovation work is pending in the inlet chamber. 2. Cleaning and landscaping work needed to be done. 3. KRMPL needs to deploy a security guard for the IPS.	23.11.2021		Pending
2	Screen Chamber	Civil Structure is in satisfactory condition		1. Renovation work is required for the inner and outer surface of the chamber. 2. Plaster work needs to be done. 3. Cleaning and landscaping work needs to be done. 4. MS frame cover should be painted.	23.11.2021		Pending
3	Receiving Chamber	Civil Structure is in satisfactory condition		1. Screens should be replaced 2. Garbage material needed to be removed on a timely basis. 3. Renovation work is required for the inner and outer surface of the receiving chamber in all respects. 4. Cleaning and landscaping work needed to be done. 5. MS frame cover should be painted.	23.11.2021		Pending

4	Pump house No. 2	Pump house no.2is in unsatisfactory condition		<ol style="list-style-type: none"> All pipelines were found in submergence condition. Both pumps were operational. NRV and Sluice gates needs to be replaced. All tubelights were not working properly. Drain water pump no-2 needs to be replaced. Ammeters on the LT panel were not in working condition. Motor termination Box cover was not fixed and also cable gland was not fixed. DG set for pump house no-1 is not working since handover. Dewatering pump needs to be replaced. Operators are non technical person. They do not have clear understanding of the Pump Capacity , Flow of Discharge, and Peak Flow. Also records are not maintained properly. 	23.11.2021		Pending
i	Pump No.1(pump capacity =900 m3/hr)	Pump found operational		New pump has been installed at 15.03.2022. But installlation of new valves, pipeline and fittings are still pending.	23.11.2021		Pending
ii	Pump No.2(pump capacity =900 m3/hr)	Pump found operational		1.Need to be raplaced as per Renovation Plan.	23.11.2021		Pending
5	Pump House No.1	Civil Structure is in unsatisfactory condition		<ol style="list-style-type: none"> Starter no-3 was found to be non-functional. Cable dressing was not done properly. Motor termination cover box was not fixed and cable gland was not fixed. No labour was engaged by KRMP for renovation work. Cracks needs to be repaired, also damaged door,window,louvers and ventilators needs to br replaced. Dewatering pumps need to be replaced. Operators are non technical person. They do not have clear understanding of the Pump Capacity , Flow of Discharge, and Peak Flow at the site. Also records are not maintained properly. Pipeline and all type valves need to be replaced. 	15.12.2021		Pending
i	Pump No.1(pump capacity =1320 m3/hr)	Operational		<ol style="list-style-type: none"> During site visit it was found that pump no 1 was not in working condition since handover of this IPS. Need to be raplaced as per Renovation Plan 	23.11.2021		Pending

ii	Pump No.2(pump capacity =1320 m3/hr)	Non Operational		Pump no-2 is not working since date 30.09.2022.	23.11.2021		Pending
iii	Pump No.3(pump capacity =1320 m3/hr)	Non operational Pump no-3 is not available since handover.		1. Pump no.3 & valves ,NRV etc need to be replaced as per construction plan	23.11.2021		Pending
6	Pump House No. 3	Civil Structure is in unsatisfactory condition		<ol style="list-style-type: none"> 1.Pump house no-3 is defunct since handover. 2. Renovation work are pending from KRMPL's end. 3. Cracks needs to be repaired, and damaged door,window,louvers and ventilators needs to be replaced. 	23.11.2021		Pending
7	DG room	Civil Structure is in unsatisfactory condition		<ol style="list-style-type: none"> 1. Voltmeters, Ammeters were not in working condition. 2. According to the DG logbook, diesel was not available at the site. 3.DG set for Pump House no-1 was non operational. 4. Cracks needs to be repaired, and damaged door,window,louvers and ventilators needs to be replaced. 5. DG logbook is not maintained properly. 6. Smog exhaust pipe length was not sufficient as per CPCB/CPHEEO guidelines. Therefore, it must be replaced on urgent basis. 	23.11.2021		Pending
8	Metering room	Civil Structure is in unsatisfactory condition		<ol style="list-style-type: none"> 1. Inside and outside painting work completed by KRMPL under renovation. 2. Replacement of damaged Door,window,louvers and ventilators is pending. 3. Flooring work needs to be renovated. 	23.11.2021		Pending

9	Panel Room	Civil Structure is in unsatisfactory condition		<ol style="list-style-type: none"> 1. Inside and outside painting work is completed by KRMPL under renovation. 2. Damaged Door,window,louvers and ventilators needs to be replaced. 2. Panel Volt meters and Ammeters needed to be replaced. 3.All Phase Indicator needed to be replaced. 	23.11.2021		Pending
10	Logbook	Log book of pump house 01 and pump house no. 02 has not maintained by KRMPL properly		<ol style="list-style-type: none"> 1. Logbooks for pumps and DG sets are not properly maintained by KRMPL. 2. KRMPL has not arranged adequate number of staff (Operators, Sweepers and relievers) for proper O&M of IPS and attendance register contains manipulated staff details. Operators are non technical person. They do not have clear understanding of the Pump Capacity , Flow of Discharge, and Peak Flow at the site. Also the records are not maintained properly. 3. Security guard needs to be deployed at the site. 4. No labour available from KRMPL for renovation work. 	23.07.2021		Pending

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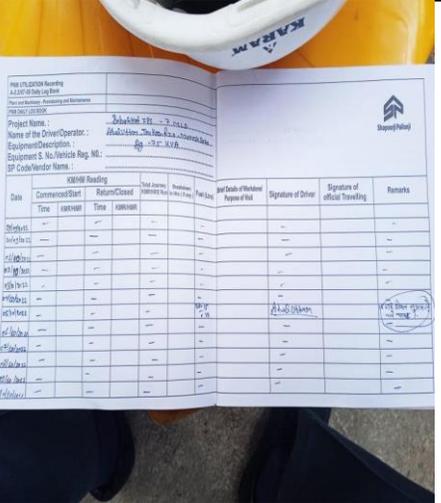
Baba Ghat -7 MLD

Date: 29.11.2022

INSPECTED BY:
STC Team
1. Mr Ajay Kumar Goyal, Support Engineer, Mechanical, STC Kanpur
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A	All work						
1	Inlet Over Flow Condition	During site visit No Overflow or Bypass of sewage was observed.		1. During the inspection, No Overflow or Bypass of sewage was observed. 2. Raw sewage by-pass sluice gate need to be replaced. Design, drawing need to be submitted by KRMPL.	4.01.2022		Pending
2	Inlet Chamber (Civil)	Civil Structure is in satisfactory condition		1. All gates needs to be lubricated. 2. Sludge should be removed regularly from inlet parts of IPS. 3. Regular cleaning of the chamber should be done.	23.11.2021		Pending
2A	Inlet Flow Meter	Inlet Flow meter is not available.		Inlet Flow meter is not available.	23.11.2021		Pending
3	Screen Chamber	Civil Structure is in satisfactory condition		1. No sweeper was present in the screen chamber. 2. Garbage removal work and cleaning of the screen should be done on regular basis. 3. Trolley should be made available at the site for proper disposal of garbages. 4. Durind the inspection it was observed that screen was completly submerged at the site.	23.11.2021		Pending

4	Receiving chamber	Civil Structure is unsatisfactory condition.		<ol style="list-style-type: none"> 1. Chamber should be cleaned and covered properly. 2. All valves should be replaced. 3. All stud bolts and gaskets should be replaced. 4. Lubrication for valves and pumps ,sluice gates should be done by KRMPL. 5. Pressure guage should be provided by KRMPL. 	15.12.2021		Pending
5	Pump House	Civil Structure is in good condition.		<ol style="list-style-type: none"> 1. Exposure of steel in staircase bottom slab needs to be renovated. 2. Inside the pump house, it was observed that light was not working. 3. EOT load test required by KRMPL. 4. Flow meter need to be installed by KRMPL. 5. Log book was not properly maintained by KRMPL staff at site. 6. Staircase is in bad condition and needs to be renovated. 7. Cable dressing needs to be done properly. 8. Operators are non technical person. They do not have clear understanding of the Pump Capacity , Flow of Discharge, and Peak Flow. Also staff does not maintain the records properly. 9. Utility water pump is not working since handover. 	23.11.2021		Pending
i	Pump no.1(Capacity=309cum /hr)	Operatioal		<ol style="list-style-type: none"> 1. New pump has been installed at 14.03.2022 to 20.03.2022. 2. KRMPL has not submitted any RFI during installation of new pumps. 3. Pump no. 01 found damaged from 02.06.2022,KRMPL needs to be repair on urgent basis 	15.12.2021		Pending
ii	Pump no.2(Capacity=309cum /hr)	Operational		<p>New pump has been installed at 14.03.2022 to 20.03.2022. KRMPL has not submitted any RFI during installation of new pumps.</p>	23.11.2021		Pending
iii	Pump no.3(Capacity=168 cum/hr)	Non-Operational		<p>The pump is not in working conditin since 31.08.2022</p>	23.11.2021		Pending
6	Boundary wall and landscaping area	Civil Structure is in good condition.		<ol style="list-style-type: none"> 1. Fencing work is pending. 2.Security guard should be arranged by KRMPL. 3. Cleaning work needs to be carried out by KRMPL. 	23.11.2021		Pending

7	Panel Room	Structure is in unsatisfactory condition		<p>1. Voltmeters and Ammeters of the LT panels were not in working condition.</p> <p>2. All tubelights, ceiling fans, exhaust fans were not in working condition.</p> <p>3. During the inspection it was observed that the pumps were working on the temporary starters, as all the existing starters were non functional at the site.</p> <p>4. Cable dressing was not properly done at the panel room.</p>	23.11.2021		Pending
8	DG Room	Civil Structure is in good condition.		<p>1. DG is not working since 19.11.2022.</p> <p>2. No exhaust fan was supplied in the DG room.</p> <p>2. Aerial light no-3 was not in working condition.</p> <p>3. KRMPL is not properly maintaining the log book for DG set.</p> <p>3. Smog exhaust pipe length is not sufficient as per CPCB/CPHEEO guidelines. It must be replaced on urgent basis.</p>	23.11.2021		Pending
9	Store Room	Civil Structure is in unsatisfactory condition.		<p>1. Door needs to be fixed.</p> <p>2. Dampness should be removed as per required action.</p> <p>3. Electric switch board needs to be replaced.</p>	23.11.2021		Pending
10	Logbook	Logbooks are not maintain properly by KRMPL		<p>1. Log book of pumps and DG set are not properly maintained by KRMPL.</p> <p>2. According to logbook, power was not supplied to the site on date 05.10.2022 from 1:30 pm to 4:50 pm. Supervisor Mohammad told STC team that, power cut was due to fault at Parmat Ghat IPS. But according to DG logbook, diesel was not available at the site from date 26.09.2022 to 26.10.2022. This indicates shortage of diesel supply at the site.</p> <p>3. Supervisor Mohammad, told STC team that KRMPL was earlier informed regarding limited diesel supply for the site and also raised the request to increase the diesel supply. But no action has been taken by KRMPL in this regard for Baba Ghat IPS.</p> <p>4. KRMPL has not arranged adequate number of staff (Operators, Sweepers and relievers) for proper O&M of IPS. Operators are non technical person. They do not have clear understanding of the Pump Capacity, Flow of Discharge, and Peak Flow. Also records are not maintained properly.</p> <p>5. KRMPL needs to maintain Visitor Register.</p> <p>6. Security guard needs to be deployed.</p> <p>7. No labour was available from KRMPL for renovation work.</p>	28.06.2022		Pending



SITE INSPECTION OF JAJMAU ASSOCIATED IPS REPORT

Guptar Ghat

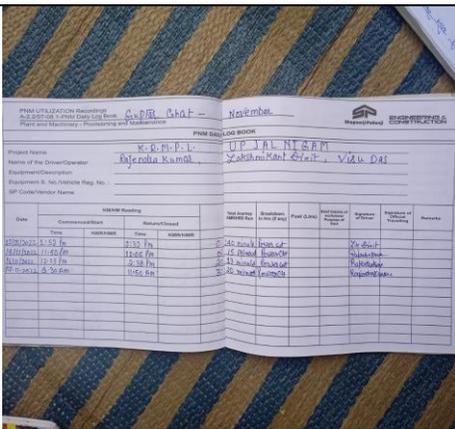
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A	All work						
1	Inlet Over Flow Condition	Over flow was observed	 <p>2022-11-29(Tue) 15:29(p.m)</p>	Although income tax gate was closed still, it was found that there was Overflow/Bypass of sewage due to power shutdown on 29.11.2022.	02.03.2022		Pending
2	Inlet Chamber	Civil Work is in satisfactory Condition			15.12.2021		pending
3	Manual bar Screen Chamber	Civil Work is in satisfactory Condition		1. Garbages needed to be removed on regular basis. 2. Garbage trolley should be made available at the site.	23.11.2021		pending

4	Mechanical bar screen Chamber	Civil Work is in satisfactory Condition		<ol style="list-style-type: none"> 1. Mechanical Screen No. 1 is damaged since 27.11.2022. 2. Conveyor motor should be provided with canopy. 3. Both mechanical screen and conveyor belt found non-operational at the time of inspection. It was started when asked by STC representative. 4. Mechanical screen no. 1 was not working in auto mode. 5. Auto System and level sensor meter were not in working condition. 6. Screen panel On/Off main power selector switch was nonoperstional in auto mode. 7. Screen No. 2 is in working condition. 8. Conveyor belt is in working condition. 9. Garbage needed to be removed on regular basis. 10. Garbage trolley should be made available at site. 11. Both Screen canopy power were not in working condition. 12. Conveyor belt was not working in auto mode. 13. Cable dressing was not properly done. 14. Panel door system not working. 15. Earthing was not done properly. 	15.12.2021		pending
5	Pump House	Civil Work is in satisfactory Condition		<ol style="list-style-type: none"> 1. Pump No-4 was not in working condition. 2. Starter for Pump No. 2 was not working and it is being operated with stater of Pump No. 4. 3. Screen area light no-2 was not in working condition. 4. Operators are non technical person. They do not have clear understanding of the Pump Capacity , Flow of Discharge, Peak Flow at the site. Also records are not properly maintained. 5. Flow meter was not in working condition. 6. 7 out of 9 lights were working. 	23.11.2021		pending
6	Panel room	Civil Work is in satisfactory Condition		<ol style="list-style-type: none"> 1. Pump flow meter is not in woking condition since handover. 2. Panel for Pump No. 2 is not working. 3. Soft starter for 18.5 kW pump no- 2, 3, 4 were not in working condition. 4.Exhaust no-9 and Tubelight no-2 were not in working condition. 	23.11.2021		pending

7	Metering Room	Civil Work is in satisfactory Condition			23.11.2021		pending
8	DG yard	Civil Work is in satisfactory Condition		<ol style="list-style-type: none"> 1. DG set (125kV) was found to be in the working condition, but DG is getting heated during its operation and therefore was being operated in short intervals. 2. Log book of DG set is not maintain by KRMPL properly. 3. Smog exhaust pipe length is not sufficient as per CPCB/CPHEEO guidelines. It must be replaced on urgent basis. 4. Meter for diesel in the DG SET was not working. 5. Diesel stock was observed to be very less. 	23.11.2021		pending
9	Transformer yard	Civil Work is in satisfactory Condition		<ol style="list-style-type: none"> 1. Transformer no-2 (ACB 400 A) was not in working condition. 2. Cable termination work, earthing work, testing and commissioning are pending. 	13.12.2021		pending
10	Handrailling work	satisfactory Condition		<ol style="list-style-type: none"> 1. Installation of handrails needs to be done by KRMPL properly. 2. Security guard should be arranged by KRMPL. 	23.11.2021		pending

11	Logbook/Records/Documentation	Logbooks are not maintain properly by KRMPL		<ol style="list-style-type: none"> Log book of pumps and DG set are being maintained by KRMPL. No entry in the DG log book was observed since 17.11.2022. During the inspection only sweeper was answering the questions and showing the progress of the site. Therefore KRMPL must arrange adequate number of staff (Operators, Sweepers and relievers) for proper O&M of IPS. Operators are non technical person. They do not have clear understanding of the Pump Capacity , Flow of Discharge, Peak Flow. The records are also not maintained properly. During the inspection it was observed that readings filled in the logbook was found to be manipulated. Due to this, it is difficult to determine the actual hours of operation for pumps. Therefore, hour meter should be installed. No labour available by KRMPL for renovation work. Safety shoes and jackets for the staff was not available at the site. Cleaning material for housekeeping was not available at site. 	23.07.2021		Pending
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Remarks:- A) Internal and External Painting work (for Structures and Building):- KRMPL did not work properly by which it is not acceptable and it did not fulfill acceptance criteria as per CA

- All painted work surfaces shall be uniform and pleasing in appearance.
- The colour ,texture etc shall match exactly with the approved samples.
- All stains, splashes and slatters of paints shall be removed from surrounding surfaces.

KRMPL need to take necessary action for proper Painting work.

- Smog exhaust pipe length is not sufficient as per CPCB/CPHEEO guidelines. It must be replaced on urgent basis.
- All E&M equipments need to be replaced as per CA schedule 11.
- CCTV need to be installed.
- Power backup need to be arranged by KRMPL.
- Inlet and outlet flow meter need to be installed.
- Overflow condition need to be controlled for IPSs, CSPS.

Signature:

TEAM LEADER
STC KANPUR

