

No. F.dspwd-2/ 253-258
GOVERNMENT OF NCT OF DELHI
Public Works Department

PWD Secretariat
3rd Level, MSO Building, New Delhi
Dated: 18th March, 2025

Sub: Standard Operating Procedure (SoP) for Automatic Starting of Water Pumps installed by PWD at Sub-ways etc in Delhi

1. Purpose:

To ensure the automatic starting of water pumps at sub-ways in Delhi during rainfall, preventing waterlogging and ensuring smooth traffic flow.

2. Scope:

This SoP applies to all sub-ways in Delhi equipped with automatic water pumps.

3. Responsibilities:

- 1. Engineering Staff:** Responsible for operational monitoring, maintenance, and troubleshooting of water pumps.
- 2. Control Room Operators:** Responsible for monitoring rainfall data and initiating the automatic start of water pumps.
- 3. Maintenance Team:** Responsible for regular maintenance and upkeep of water pumps.

4. Equipment and Software:

- 1. Rainfall Sensors:** Installed at sub-ways to detect rainfall intensity.
- 2. Automatic Control Panel:** Controls the starting and stopping of water pumps based on rainfall data.
- 3. SCADA System:** Supervisory Control and Data Acquisition system for real-time monitoring of water pumps.
- 4. Mobile Application:** For remote monitoring and alerts.

5. Procedure:

(i) Pre-Rainfall Preparations

1. Ensure all water pumps are in good working condition.
2. Conduct regular maintenance checks on pumps, motors, and control panels.
3. Test the automatic control panel and SCADA system.

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(ii) Automatic Starting of Water Pumps

1. Rainfall sensors detect rainfall intensity and send data to the automatic control panel.
2. The control panel initiates the automatic start of water pumps when rainfall intensity exceeds the set threshold.
3. The SCADA system monitors the water pumps' status and sends real-time data to the control room.

6. Operational Monitoring

1. Engineering staff monitor the water pumps' performance remotely through the mobile application.
2. Control room operators monitor the SCADA system and rainfall data to ensure the water pumps are operating correctly.
3. Maintenance team is alerted in case of any issues or alarms.

7. Troubleshooting and Maintenance

1. Engineering staff investigate and troubleshoot any issues with the water pumps or control panel.
2. Maintenance team performs routine maintenance tasks, such as cleaning and replacing filters.

8. Post-Rainfall Procedures

1. Engineering staff inspect the water pumps and control panel to ensure they are in good working condition.
2. Control room operators review the SCADA system data to identify any issues or areas for improvement.

9. This issues with the approval of Pr. Secretary (PWD), GNCTD.



(M.K. Nikhil)

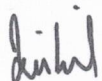
Deputy Secretary (PWD)

To

1. The Engineer in Chief PWD, 12th Floor, MSO Building, New Delhi
2. All Chief Engineers of the PWD, MSO Building, New Delhi
3. All SE/EE through Chief Engineers
4. System Analyst, PWD with the request to upload the Circular on the website of PWD under relevant section.

Copy for information to:

1. PS to Pr Secretary, PWD, 3rd Floor MSO Building , New Delhi
2. PS to Special Secretary-I/II, PWD , 3rd Floor MSO Building , New Delhi



By . Secretary (PWD)