

## **Research Project Funded by Siemens Ltd (CSR Funds)**

Siemens Limited, Maharashtra Jeevan Pradhikaran Nashik/ Maharashtra Environmental Engineering Training and Research Academy (MEETRA) and IIT Bombay (IITB) have collaborated to improve the operational performance of a real-life Water Supply System (WSS) in Ozar, Nashik. Siemens Limited is responsible for deploying monitoring and automation augmentation on existing WSS. The work at Ozar started in 2019 with electrification, automation and digitalization of the existing piped water supply system. Scope of work included electrification of the pump houses, automation of the water treatment plant & distribution and implementation of Siemens' SIWA leak solution to detect leakages in the water pipeline on a real-time basis. The project will benefit people of Ozar by detecting leakages as well as reducing the Operation & Maintenance cost of the system.

IITB will monitor the augmentation and document its effect on WSS. IITB plans to do service level benchmarking of pressure and flow, document the existing operation schedule, document operational and maintenance cost to compare operational performance at pre and post augmentation. The expected outcomes from the project are to ensure equitable water distribution to the different categories of users, quick identification of leakages in the system, remote & real-time monitoring of the system and achieving overall efficiency of the system. IITB will also evaluate the role of different automation components in improving the WSS. This project site can be used for training of engineers under MEETRA's training programme.

**Project Title:** Water Supply Systems Improvements Using Automation

**Duration:** 24 months Started in August 2019                      End Date: Sept. 2021

**Project Budget:** Rs. 2 crores

### **Objectives:**

1. The main goal of this proposed engagement is to exchange of data and ideas and solve the real life problems in water supply sector.
2. To start cooperation and promote interaction between IITB, MJP and Siemens
3. To demonstrate automation and to study associated system improvements
4. To identify best practices using automation for improving service delivery in water sector

**Progress Photographs:**

**IITB Field Monitoring**



# Siemens Progress of Work





### **For Further Information Contact:**

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