WATER TREATMENT PLANT INFRASTRUCTURE & AUTOMATION PROJECT

(Smart City Funded INR 104.00 Cr)

PROJECT SUMMARY

SCADA systems play a vital role in the remote and local monitoring and control of water treatment plants. "Supervisory Control and Data Acquisition" (SCADA) refers to the digital networks and computer systems that gather and analyse real - time data with the help of connected IoT instruments and actuators. Nashik Smart City has implemented complete automation on a large scale using SCADA, which has greatly enhanced the water management system.

It has facilitated the overall automation of water treatment plant operations, scheduling, and processes, requiring zero or minimal manual interaction. From source to tap, the water we use daily undergoes meticulous monitoring to ensure that the overall water quality is consistent and compliant with regulations.This project has made real - time monitoring and data analysis possible.

► This project will help in an overall reduction of the operating cost of a water distribution and treatment plant by allowing operators to see which critical systems need to be further optimised and prioritised.

► It will help reduce NRW losses due to a complete stop of water wastage caused by leakages and overflowing.

► Key personnel in these sectors can see where real-time problems are occurring in their systems through various data logging points.

► This will help in overall resource optimisation.

► It will increase billing efficiency, reduce billing issues and can generate bills for actual consumption.

► It will stop tampering and detect any unauthorised connections.It will increase overall operational efficiency, increase the speed of the delivery mechanisms and help in automating or configuring the distribution schedule based on demand vs supply.

IMPACT