## A Centralized Cloud-based Wireless-Equipped Water Control and Management System

**Description:** Developing a water supply simulation model for Sri City starting from monitoring lake/ canal levels and connecting with the consumption rate/ pattern of the consumers. Sricity has several sources of water (lakes, ponds, borewells, etc.). There is a single water cleaning plant (which has two cleaners); the output of which is sent to all industry, business and residential areas.

The aim of this project is to develop an automation tool that would capture the all requisite information received from different water flow meters wirelessly (WiFi or Cellular); at a central location (cloud-based system) that would include a Server. Further, this server would also monitor at any time of day/week/month - water inlet and outlet at different industries, water and sewage treatment plants; and develop an algorithm that would eventually automate the control of water management across all industries, business, residential and commercial areas of Sricity.

This is a real-world industry project. It is intended that the outcome of this project would be deployed for Sricity Water Management company.

**SkillSets:** Programming, Basic knowledge of wireless communication, Wi-Fi networks, control systems.

**Supervisor:** Dr. Venkatesh, DGM 3WMC, Sricity

**Co-Supervisor:** Dr. Hrishikesh V Raman (IIIT Sricity)