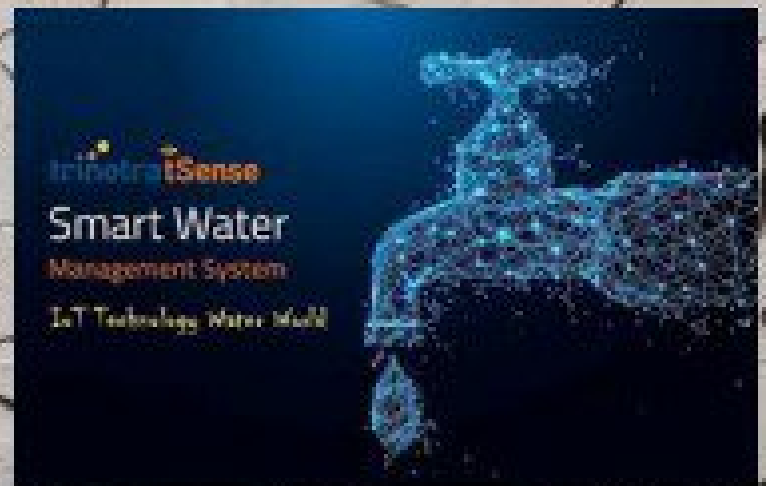


SMART WATER MANAGEMENT

-USING IOT



Abstract:

The project involves implementing IoT sensors to monitor water consumption in public places such as parks and gardens. The objective is to promote water conservation by making real-time water consumption data publicly available. This project includes defining objectives, designing the IoT sensor system, developing the data-sharing platform, and integrating them using IoT technology and Python.

Design Thinking:

1).Project Objectives:

The proposed smart water management system under the West Bengal Drinking Water Sector Improvement Project has two main objectives

(i) The first objective is to facilitate the management of customer service at a local level, thereby greatly increasing customer and community engagement with the new system, which will lead to greater sustainability of the system through:

- (a) increased ownership and valuing of the new piped water supply system.
- (b) better revenue collection.
- (c) responsible use of water.

(ii) The second objective of the smart water management system is to increase the resilience and efficiency of the O&M of the entire system, which will also lead to greater sustainability of the system through:

- (a) reduced risk of system failure.
- (b) improved compliance with social and environmental requirements.
- (c) the development of new and necessary skills within the Public Health

Engineering Department (PHED).