**WATER MONITORING SYSTEM**

**FEATURES -**

1. Live Temperature Monitoring.
2. Water Level Monitoring.
3. Water Flow-Rate Monitoring.
4. Water Flow Control (Start/Stop) using SMS.

**OBJECTIVES -**

1. Live Temperature Monitoring:

* The water temperature will be monitored live to provide users an exact or approximate value.
* This will allow the user to know what temperature the water to be used will be at and plan to heat/let cool the water as required for use.
* This will also help alert the user if the water temperature will go beyond or below a particular temperature during the summers and winters respectively.

1. Water Level Monitoring:

* The water level will be monitored to notify the user about the level of water in the primary tank and secondary tank.
* This will help the user know when any one of the tank is getting empty or filled completely.
* This will also be used to remotely control the water pump/motor used to transfer water from the primary tank to the secondary tank if the secondary/primary tank water level dips below a threshold value or prevent loss of water due to overflow from either tank.

1. Water Flow-Rate Monitoring:

* The water flow rate will be monitored to track the amount of water used by the user.
* This will help the user track their water consumption and make necessary adjustments as required.
* This will also help in maintaining a record of consumption of the user so that the user can be billed accordingly.
* This will also help prevent the wastage of water and aid in the proper management of water consumption.

1. Water Flow Control (Start/Stop) using SMS:

* The water flow will be controlled remotely using SMS.
* This will help the water suppliers control the supply of water to their users.
* Since the supply will be billed according to the user consumption, this will help suppliers disconnect supply to users whose water quota is exhausted (For prepaid supply users) and/or to those users who haven’t cleared their earlier dues (For postpaid users).