

# IoT BASED DAM SHUTTER CONTROLLING

## ABSTRACT

Dams are one of the major water sources for irrigation, electricity generation etc. in India. Dams play a vital role since the time of colonialism. Lack of proper dam management system have been causing several losses including the recent floods. Inspired by the existing rural and socio-economic problems, an innovative and feasible automatic control system can be developed for dam management purposes. This paper is to present a new solution which its to implemental proposed system called as RMCD “Remote Monitoring and Controlling of Dams”. With the proposed system it will allow the user to control and monitor the dams remotely which it is saving a lot of efforts, reducing the cost and also increasing the monitoring quality as the users are going to use automated system rather than using of manual system, Highly precise water level monitoring system and timely report to the locality is also developed. When the water level crosses the threshold condition, alert messages will be sent to the people and the shutters will open (/close) by remotely, retaining water to its normal level. Timely warnings to every person living in the locality and timely opening of shutters can thereby reduce the risks of loss of life and prevent disasters. Hence, automation of dam system using NODE MCU, ultrasonic sensor and servo motor, creates a new eye for both the Government as well as the people in the locality for creating mitigation plans.

## BLOCK DIAGRAM

