

PROACTIVE ALERT SYSTEM TO INDICATE FLOOD USING IOT

An android app is deployed in all the Mobiles of the Public. Zigbee hardware is connected to the mobiles via OTG communication when network is not present. Zigbee is connected in the Dam for immediate communication of water & its flow level to communicate with the regional server where another Zigbee is connected. Public can communicate to the regional server to fetch the levels of water release & emergency alert is provided in case of excess water release from the Dam. This event will happen with Network presence or without network presence. User can also make Emergency call / send SMS to the pre stored numbers like Hospitals / Corporation / Police / Relatives. User can also fetch Safe Zone live Mapping with internet or stored images without Internet.



THE APPLICATIONS ARE

- You can get pre intimation of flood attack
- Full automated system
- Reliable
- High security
- More effective

Large scale deployment of a sensor based system is a challenging task specifically when we are targeting an eminent natural disaster. We have presented Shonabondhu system which mainly focuses a distributed architecture using embedded sensor nodes deployed around a flood prone country Bangladesh. Our detailed study of sensor nodes, network and scalability study provides an overview of the system structure along with hope of coping a problem like flash flood with better preparation.