

Project Thesis on
Automatic Flood Monitoring and Protection of Dam

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Abstract

Each year INDIA suffers from flood and people have to struggle a lot and also face economic break down or crises due to floods. If only we could monitor the flood and protect the dam, lot many lives and property could be saved.

In the project work presented in this thesis, a prototype device for automatically monitoring the flood and protecting the dam, is designed and implemented. Water level and speed are measured at a distance from the dam. Speed is measured by Inductive Proximity Sensor. The information about the water level and speed are transmitted to a receiver located near the dam. If the level and speed exceed unsafe value, gates are made to open. The device is tested in the Hydraulics laboratory of Civil Engineering Department.

In actual applications, GSM based technique can be used in which measurement system and transmitter can be 50-60 km away from dam site.