FLOOD MONITARING AND EARLY CONTROL

SYSTEM

PHASE I -PROJECT SUBMISSION

PROBLEM DEFINITION:

* Floods can lead to tragic loss of humans lives and the risk of waterborne diseases can increase due to contaminated water.
* Floods can result in significant economic losses affecting industries, agriculture causing business to shutdown, job losses.
* Infrastructure disruption

Roads, bridges utilities can be damaged, leading to disruptions in transportation, communication and services.

* Impact on Agriculture;

Livestock losses, which can affect supplies and prices.

* Displacement

Many people are forced to evacuate their homes during floods, leading to temporary (or) long term displacement.

Design Thinking:

* In light of the numerous challenges posed by recurring floods, we are taking proactive steps to address these issues by initiating an IOT(Internet of thing) project incorporating sensor technology.The primary objective of this project is to establish an early flood detection system that will provide us with advance notice of impending flood events.
* The sensors are employed for the purpose of quantifying water levels (water level sensors) and rainfall(rainfall sensors) within the framework of flood monitoring.
* We are implementing an IOT-based flood prevention and monitoring system designed to proactively detect impending floods. This system will utilize audible alerts (buzzer) information dissemination through local authorities to provide timely notifications to the surrounding population.