**RAIN BASED DAM CONTROL**

**AIM:**

The main aim of the project is to control the dam gates when heavy rain fall is occurred in rainy season.

**BLOCK DIAGRAM:**

**POWER SUPPLY**

**DRIVER CIRCUIT**

**GATE MOTOR**

**RAIN FALL**

**SENSOR**

**Power Supply:**

**STEP DOWN**

**TRANSFORMER**

**BRIDGE**

**RECTIFIER**

**FILTER**

**CIRCUIT**

**REGULATOR SECTION**

**DISCRIPTION:**

Now a day, every system is automated in order to face new challenges in the present day situation. Automated systems have less manual operations, so that the flexibility, reliabilities are high and accurate. Hence every field prefers automated control systems. Especially in the field of electronics automated systems are doing better performance increasingly.

The rain sensor module is an easy tool for rain detection. It can be used as a switch when raindrop falls through the raining board and also for measuring rainfall intensity. The module features, a rain board and the control board that is separate for more convenience, power indicator LED and an adjustable sensitivity though a potentiometer. The analog output is used in detection of drops in the amount of rainfall. Connected to 5V power supply, the LED will turn on when induction board has no rain drop, and DO output is high. When dropping a little amount water, DO output is low, the switch indicator will turn on. Brush off the water droplets, and when restored to the initial state, outputs high level. Whenever heavy rain fall is detected by the rain sensor the motor connected to the controller will automatically switch on and the dam gates will be closed and opened as it requires.

**HARDWARES:**

1. Power supply
2. Driver circuit
3. RAIN Sensors
4. GATE MOTOR

**RESULT:**

Hence by project is to control the dam gates when heavy rain fall is occurred in rainy season.