**Disaster Management with Smart Circuit Breaker**

**Abstract :**

**Electrical circuit breakers usually operate on electrical parameters such as over current, over voltage but protection during disasters, natural calamities are usually neglected. This negligence can lead to catastrophic failure in power lines, distribution systems, industries and other electrical systems.**

**Ensuring safety against electrical fire or shock during earthquake, flood, gas leakage & fire breakout by disconnecting mains is essential. The proposed project isolates incoming ac mains supply during disaster by sensing earth-quake, fire/smoke, gas leakage and flood water. By disconnecting power lines to equipment and power outlets during any disaster it can reduce the chance of electrical hazard and ensuring safety to people life’s and assets.**

**The proposed project constitutes of various sensors such as accelerometer, smoke sensor, gas leakage sensor, infrared flame sensor and flood sensor connected to a development board such as micro bit/raspberry pi which reads the data from these sensors and acts accordingly to indicate the type of fault and initiate circuit breaking mechanism in case of fault conditions.**

**GUIDE NAME : R ANIL KUMAR**

**SIGNATURE:**

**BATCH NUMBER 10 :**

**B UDAY KUMAR (18245A0203).**

**A ARUN (18245A0201).**

**MOUNENDHAR (17241A0240)**