Name- Sushil Kumar radheshyam kori

IoT BASED FOREST FIRE DETECTION SYSTEM

PROBLEM STATEMENT UNDERSTANDING

Forest fire is uncontrollable fire that occurs in forest. In most of time forest fire is identified after it gets huge in size. In 2019 australian bush fires caused over three billion animal rather killed or displaced. If fires like these can be notified at a early stage we can save life's of animals and damage to nature.

HARDWARE REQUIRED

1. Arduino UNO-The Arduino Uno is an open-source microcontroller board based on the Microchip ATmega328P microcontroller and developed by Arduino.cc

2. Smoke detector-MQ2 sensor can detect gases and smoke.
3. Flame detected
4. ESP8266 WIFI Module-It is a self contained Soc with integrated TCP/IP protocol stack that can give any microcontroller access to WiFi network
5. Buzzer

SOFTWARE REQUIRED

1. Proteus
2. Arduino ide
3. Notepade
4. Firebase

ADDITION AND UPDATES

Not yet any additions

APPLICATION

1. It can be used by forest department to take care of forest fire.

ADVANTAGE

1. Not only government, common person can also use this feature to see that forest are not burning
2. Due to its small size it can be placed anywhere in the forest

CHALANGES

1. False prediction
2. Animal can damage the device

CONCLUSION

Due to this project action will taken immediately after the fire starts . That's why conclusion is that this device will save many life's , prevent damage to nature and damage to ececonomy

REFERENCE

Miriyala, Trinath & Karthik, Ragipati & Mahitha, J & Reddy, V. (2018). IoT based forest fire detection system. International Journal of Engineering & Technology. 7. 124. 10.14419/ijet.v7i2.7.10277.