SYNOPSIS OF THE PROJECT

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Shared folder/git repository details	https://github.com/Akshaya-2299/Main_Project.git
Project Title	SOLAR POWERED WIRELESS FOREST FIRE DETECTION

Description of Project:

This project proposes an effective viable solution for detecting forest fires, in this paper the system incorporates. GSM network, so that the signal could be sent any far distance, where the centralized control centre is located. The proposed system consists of smart sensor which uses solar power for its operation and a GSM module which is connected to the GSM network for transmitting the detected fire alarm signal. When fire is detected, the sensor produces a signal of approximate level which triggers GSM module to transmit the alarm signal to far end control centre. The centre in turn processes the signal and takes necessary action to counteract the situation. Since the sensors in the system powered by the GSM module is powered by solar energy there is no need for conventional electrical energy. It is expected that the system could be a cost effective one and a viable one for detecting fires. The aim of our project is to continuously monitoring forest condition, detection of forest fire and its position and to inform the forest authority. So that necessary action can be taken immediately in case of fire. The two main modules present in the project are the GSM Module and the GPS Module. This paper gives an importance of wireless sensor technology. The sensors collect the data and transmit to the central unit as well as alert is sent via call or message using GSM.

Keywords: GSM, GPS, Temperature & Humidity sensor, Smoke Sensor, Wireless Sensor Technology.

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