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**IOT Based Underground Wire Fault Detection Technique**

Abstract:

This paper proposes fault location model for underground power cable using microcontroller and the thing which is based on the internet means the information will transfer through the internet access. The aim of this project is to determine the distance of underground cable fault from the base station in the kilometer and also find the exact location of that faulty place. This project uses the simple concept of ohm's law. When any fault like short circuit occurs, voltage drop will vary depending on length of fault in cable, since the current varies. A set of resistor are therefore used to represent the cable, since the current end and the fault is detected by detecting the change in the voltage using analog to voltage converter and a microcontroller is used to make the necessary calculation so that the fault distance is displayed on the LCD display. This fault details after send to any access point through the internet.

Block diagram:-



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