

GSM TECHNIQUE USED FOR UNDERGROUND CABLE FAULT DETECTOR AND DISTANCE LOCATOR

Abstract:

The aim of this project is to determine the distance of underground cable fault from base station in kilometers and by using the simple concept of ohm's law. When any fault like short circuit occurs, voltage drop will vary depending on the length of fault in cable, since the current varies. A set of resistors are therefore used to represent the cable and a dc voltage is fed at one end and the fault is detected by detecting the change in voltage using a analog to digital converter and a microcontroller is used to make the necessary calculations so that the fault distance is displayed on the LCD display.

Block diagram:-

