**WOMEN SAFETY & TRACKING SYSTEM USING GSM AND GPS**

**AIM:**

The main aim of the project is to provide security for women.

**PURPOSE:**

The purpose of the project is to provide security for woman. In case of emergency situations woman will press an emergency button which will activates the GPS for location tracking and a SMS is sent to the police and family members of woman along with time.

**Block Diagram:**

**MICRO CONTROLLER (8051)**

**POWER  
 SUPPLY**

**GPS**

**LCD**

**EMERGENCY SWITCH**

**GSM MODEM**

**Description:**

Now a day’s attacks on woman is increasing day by day and in the case of where she can’t take a mobile and dialup to police or other family members, our proposal will be very much helpful in such cases in not only informing about attacks but also in giving the exact location of the women to nearby police station for necessary action.

Women will be provided with a equipment which is not visible to others the equipment consists of GPS (Global Positioning System) module by which we can get the geographical location and these location values are displayed on the LCD (Liquid Crystal Display). In the case of any emergency conditions she can press a button once then the location information will be tracked and sent to police and family members so that she will be protected in proper time

**GPS:**

GPS (Global Positioning System) technology is used to find the location of any object or vehicle to monitor a child continuously using satellite signals. Three satellite signals are necessary to locate the receiver in 3D space and fourth satellite is used for time accuracy. GPS will give the information of parameters like longitude, latitude and attitude. With the help of these parameters one can easily locate the position of any object. In this GPS technology, the communication takes place between GPS transceiver and GPS satellite.

**GSM:**

GSM (Global System for Mobile communications) is the technology that underpins most of the world's mobile phone networks. The GSM platform is a hugely successful wireless technology and an unprecedented story of global achievement and cooperation. GSM has become the world's fastest growing communications technology of all time and the leading global mobile standard, spanning 218 countries. GSM is an open, digital cellular technology used for transmitting mobile voice and data services. GSM operates in the 900MHz and 1.8GHz bands GSM supports data transfer speeds of up to 9.6 kbps, allowing the transmission of basic data services such as SMS.

**SOFTWARES:**

* Embedded C
* Keil IDE
* ISP

**HARDWARES:**

* Micro Controller(8051)
* Power Supply
* GPS module
* Emergency switch
* LCD
* GSM modem

**RESULT:**

According to this project, we can provide safety system for women and also protect woman in emergency conditions