

# Protective Device for Women

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**Abstract.** In the present world, men and women are taking equal responsibility and women are giving competition to men in all sectors. Women are being harassed, assaulted, violated and molested at various places in the world every day, every minute. As per the collected data 35% of women experienced physical violence at some point of time in their lives. Because of these reasons women feel insecure to step out of the house. Women can step out in odd hours and even in any critical situations if they have any kind of safety device with them. Although there were many safety devices and apps available, the device is needed to be carried easily and wearable. We propose to have a wearable device, a pendant comprises of Night Vision camera, GPS and GSM for tracking and sending location to preset contacts and to near police locations. This captured video using night vision camera is sent to cloud, which is used for further references.

## INTRODUCTION

Women safety became a big concern and most important duty of every individual. Women are subjected to unethical physical harassment. So authors of [1] proposed a safety device for women which is the quickest way to contact for help without any internet connection. This device and application activates by pressing power and volume button together in the smart phone and this device also detects the hidden cameras. If the emergency button is pressed for once it tracks and sends location of the victim for every 2 mins with updated location to preset contacts. If pressed for two times audio recorder is sent to preset contacts. The button is long pressed it calls to the preset contacts. The authors of [2] investigated on various safety devices, apps and proposed a device SHE (Society Harnessing Equipment) which gets activated when the threshold limit of pressure sensor exceeds and sends location of victim to preset contacts list for every two mins with updated location. Screening alarm sends sirens to people to let them know that victim needs help. The authors of [3] carried a research on women safety and comes with Wearable Safety device which has emergency button when clicked sends location with attachment of photos to preset mandatory contacts. The authors of [4] investigated on many safety devices and he proposed an Intelligent and smart security system for women. This device can capture live streaming video using spectacles and wristband gives electric shock to the attacker. Location is shared and a buzzer to call out for help. The authors of [5] proposed a device, it gives electric shock to the attacker sends location to the registered contacts and gives buzzer to seek help. This device is placed inside the bag. The authors of [6] investigated on various women security apps and introduced an application "Women Empowerment". This application can be able to install in the smart phone. This application can also track the health status of women and also helps when in danger by pressing particular button by sending location. The authors of [7] carried a study and proposed All in one safety device for Women. This device 1) sends location, can call to preset contacts when in danger, 2) Detects hidden cameras at shopping malls in changing rooms, 3) Generates electric shock, 4) Fake call tool module. The authors of [8] Proposed a device called Touch me not- A women safety device, this device is attached to clothing which is easy to carry. This can track and sends location with video and audio using hidden cameras to the mandatory contacts.

Hence by taking above author references we came up with a safety device which is wearable, carried easily i.e., like a pendant. This pendant has GPS, GSM and Camera inside it. This device gets activated when button on the pendant is pressed.