**ABSTRACT**

The project under the head “SECRET MESSAGE TRANSMITTER FOR DEFENCE OUTPOSTS” is about a vision and mission for helping the soldiers, who relentlessly stand in the sun and snow to protect our borders. At the outposts, whenever they are transmitting messages over radio, frequencies tend to get hacked by the enemies and the messages are exposed to them. What if we had a system which will not only confuse enemies but even leave them behind with no clues.

This project will be using the android device of any kind, having the facility of keyboard to transmit the message. The messages will be fed via an android device to a microprocessor (i.e., Raspberry Pi) over Wi-Fi, which will convert the message into code of (“.\_.\_”) and then transmit using the LED by flashing it. At the receiver’s side, a phototransistor will record the flashes and feed it as input to the microprocessor at that side, which will in turn decode it to get the original message, hence the enemies will feel it to be fluctuations in power rather than a message.

We’ll be improving the internationally used Morse Codes, to a personalised level and that will be used to transmit the message from one defence outpost to other. It can also be implemented if the lightening inside the posts is switched off for security reasons by using Torches which are available with the soldiers. The microprocessor will be connected to the bulbs to send the flashing instructions by the use of codes.