PROJECT REPORT
ON

"Unmanned Gun Control Mechanism"

A KSCST sponsored (Ref No. 34S0912) project work

carried out at S.I.T., Tumkur and submitted in partial fulfillment of the requirements for the award of degree of

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ABSTRACT

The main aim of the project is to protect the boundaries and army monitoring the boundary at extreme conditions and secure it from the unauthorized intruders. This is a defense oriented project which monitors the area under surveillance continuously at extreme conditions like very low temperature (-53℃), high altitude pressure, unique color, low power supply, long range distance coverage and self-activated automatic weaponry which ensures the safety.

The device consists of camera as a sensor for the purpose of monitoring the area under surveillance and sending image as the input to the PC which is running the MATLAB coding, sends the particular quadrant value to the Microcontroller which will actuate and control the stepper motor.

If our army wants to occupy the area under surveillance then the password protected transmitter is given to deactivate the automatic gun control mechanism. The receiver antenna receives and decode the transmitted data and compares the received data with the predefined password, this interrupts the mechanism in the Microcontroller.

If an intruder come with other attire, the LDR based boundary control mechanism is used to control the boundary under surveillance. The device consists of LDR which is tuned to sense the LASER light. If intruders pass the light then Microcontroller is automatically actuated and controls the stepper motor.

The micro computing units used in the project are programmed after successful simulation of the software. The firmware used in the project continuously monitors and automatically defenses the area under surveillance. This project makes the device better and simpler, but cheaper as well.