

CHAPTER 1

INTRODUCTION

A border guard of a country is a national security agency that performs border control, i.e., enforces the security of the country's national borders. The priority mission of border guard is preventing terrorists and terrorist's weapons, including weapons of mass destruction from entering the nation. Undaunted by scorching desert heat or freezing winters, they work tirelessly as vigilant protectors of Nation's borders.

Functions of border guard at the time of peace includes promoting the sense of security among the people living in border areas, prevent trans-border crimes, unauthorized entry into or exit from the territory, prevent smuggling and any other illegal activities on the border, anti-infiltration duties, collect trans-border intelligence. At the time of war, the functions includes holding ground in assigned sectors, limited aggressive action against irregular forces of enemy, maintenance of Law and Order in enemy territory administered under the army's control, guarding of prisoners of War camps, acting as guides to the army in border areas, assistance in control of refugees, provision of escorts, performing special tasks connected with intelligence such as raids. While performing these duties, border security guards have to face enough threat to their life's especially during the prevention of unauthorized entry. Sentry defensive system is a machine based system, which automatically guards the borders and prevents intruders from entering the territory.

1.1 Objective

Design and development of a sentry defensive system that

- automatically tracks the moving object.
- accurately shoots at moving target.
- withstands all lighting and weather condition.
- reliable replacement for armed guards in harsh and hostile environments.