**ABSTRACT**

Bangladesh is known as one of the highest agricultural grain producing countries in the world. With a huge amount of cultivable land, Bangladesh has achieved commendable food security over the last few decades, tripling the grain production between 1972 & 2014, from 9.8 to 34.4 million tons. Besides natural disasters, one vital reason that impedes the food production is the existence of harmful pests like- insects, rats, birds etc in our cultivable fields, resulting in significantly less amount of produce every year.

Farmers use different types of pesticides to eliminate the effects of insects on our country’s grains. Extra utilization of pesticides is not only inauspicious for the environment but for the human & economy of our nation. Extra usage of pesticides damages the quality of grains and at the same time, money is being spent on buying pesticides often. Yet it is seen that pests can not be completely repelled. Though we know that pests cannot be avoided, as they are living things that continue to develop according to their nature. We only control it but cannot eliminate it. Due to these harmful pests, the upside of the daily goods appears. The price of every item is high. As a result, the people of the country suffer a lot. In the meantime, various types of steps are being carried out by farmers but these steps are not much helpful to control the pests.So, from this above perspective, we want to create an efficient and effective system that will be a good alternative to pesticides. So here we are proposing a pest control system. Which Makes use of the Internet of things. This is controlled by using the microcontroller. That will manage the performance of sensors.This prototype works if the sonar sensor detects the existence of pests. A buzzer to repel pests. The system uses a PIR sensor to detect the existence of insects. After that, if the presence of insects is detected by a PIR sensor, the ultrasonic sensor is used here to generate ultra waves. which are intolerable to the pests. And then driving the pests away from agricultural fields. Our proposed project helps our target users to enhance agricultural production. Also manage the production in an eco-friendly purpose. The testing methods carried out on this tool tells us that overall this prototype can perform as our desired result properly.