DMI ENGINEERING COLLEGE

ARALVOIMOZHI

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

IBM NALAIYA THIRAN

PROJECT DESIGN PHASE I-PROPOSED SOLUTION

IOT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE

TEAM LEADER: RANISHA R U

TEAM MEMBER: RAMISHA M ,RANGITH R, NAMBIRAJAN T

PARAMETER	DESCRIPTION
PROBLEM STATEMENT	Animal attacks in India are a common story now a days. Due to the unavailability of any detection system destroy their crops. Due to lack of proper safety measures, these villagers are left helpless to their fate. Therefore, a proper detection system could help save their lives and also to the preservation of crops. Also, the crops of villagers are destroyed due to frequent interference of animals. The increasing rate of decrease in forests and encroaching agriculture land is leading to an up rise in animal invasion of fields which has leads to a drastic change in farmers perception towards them. The harmony between a farmer and wild animals seems to be a next impossible thing.
IDEA /SOLUTION DESCRIPTION	Using PIR sensor to detect the movement of animals and Smoke sensor Is used to detect fire in the form.
NOVELTY/UNIQUENESS	The Movement detected by PIR sensor and the signal is send to the controller then the buzzer is ON and produce a sound which diverts the animal ,the fire detected by the smoke sensor and DC motor is used to generate the signal.
SOCIAL IMPACT/CUSTOMER SATISFACTION	The system help the farmer in protecting the crops from animals, when the farmers make use of the system ,they get improved crop protection and estimate a high yield
BUSINESS MODEL	This system can be developed as product with minimum cost which gives high performance for a long period
SCALABILTY OF SOLUTION	Developed to a scalable product by using sensor and transmitting the data through wireless sensor network and analysing the data in cloud and the operation is performed by using mobile phone