LITERATURE SURVEY ON
IOT BASED SMART CROP PROTECTOIN SYSTEM FOR AGRICULTURE

TEAM MEMBERS:

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STATEMENT:

At present, we can see crop are being damaged due to many reasons. Our primary goal is to protect the crop from being damaged.

Due to damage in crops, many farmers left farming and started doing other jobs because of loss they faced in agriculture. So, our crop protection should prevent crop from being damaged and produce better yield.

In agriculture fields crops are being damaged by birds, animals, insects, climate, disease, excess water, etc. Our crop protection system should stop these from damaging the crops.

So, our problem statement is to design a system based on IOT application for protecting crops from birds, animals, insects, climate, disease, excess water, etc and provide high yield in agriculture to make farmers happy and people enjoy the healthy food.

EXISTING SOLUTIONS:

- Complete control and elimination of yield-threatening weeds
- Protection from diseases for healthier farm output
- Protection from insects for high yields and quality

REFERENCE:

- Upl-ltd.com
- UPL- Agriculture solutions & services provider

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TITLE AND AUTHORS	YEAR	TECHNIQUES	FINDINGS	PROS&CONS
Smart crop protection system for Animals and Fire using Arduino	2019	IOT Technology	Purpose of paper is to develop intruder alert to the farm, to avoid losses due to animals and fire	P: This will help farmers in protecting their orchards and fields save financial losses N: The cost of Arduino is high
Smart crop protection system from Living objects and Fire using Arduino	2020	IOT Technology	This Paper aims at designing and executed the advanced development in embedded system for crops in farms are many times ravaged by local animals and fire etc.	P: This will help them in achieving better crop yields thus leading to their economic wellbeing N:
Smart crop protection system from Animals using Pic	2020	Pic micro controller, GSM Module, sensor based IOT Technology	This system uses the motion sensor to detect wild animals approaching near the field	P: It allows farmers to Maximize yields using minimum number of resources N: The smart farming based equipments require farmers to understand and the use of technology
Smart crop protection system	2021	Micro controller, sensors and solar panel	The article provides a comprehensive Review of various methods adopted by farmers to protect their crops	P: Solar powered and Mobile operated pumps save cost of electricity N:it needs availability of internet continuously

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