IOT BASED SMART CROP PROTECTION

SYSTEM

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Farmers and agricultural companies are turning to the

Internet of Things (IoT) to meet demand. Since we need to continuously take measures manually it requires large amount of time.

PROBLEM 1:

Develop smart & affordable solution to protect crops from wild animals

Sol: With the help of remote sensing technologies crop protection solution from wild animal attacks can be developed provided with alerts on any crop damage in case animals destroy crops.

PROBLEM 2:

Develop system for predicting potential pest, disease, insect attacks on crops

Sol: Detecting bugs and rodents through sound detection is another effective way to ensure plants quality. Wireless acoustic sensors situated at random locations in a field can pick up sound waves of insects. Locations with high sound waves indicate a higher concentration of bugs

PROBLEM 3:

The minerals which are present in the soil are responsible for the better production of crops. The farmers need to analyze the minerals, salts and water or moisture content periodically.

Sol: Manual calculations will not give the exact values of chemicals and minerals.To overcome this SOIL NPK Sensors are used in agricultural field to check the correct proportion of nitrogen ,mg,carbon.