

# **IoT based Smart Crop Protection System for Agriculture**

## **OBJECTIVES**

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<b>Team ID</b>	PNT2022TMID33962
<b>Project Name</b>	IoT based Smart crop Protection System for agriculture
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## **Abstract:**

The Smart protection system defines that this project helps farmer for the protection of a farm. Smart crop monitoring refers to the application of advanced technologies such as IoT for controlling the factors affecting the health of crops and leading to degradation in the crop production quality. We have designed this project for the only secure from animals but this project have the provision to secure from the human beings also. The feature of this paper includes the development of the system that can monitor Temperature, Humidity, Soil moisture and even the movement of animals which may destroy the crops in agricultural fields. This can achieve by the help of IOT device. The Smart Crop Protection System (SCPS)work on the battery so that this project can be easily portable and also we add solar panels and converter modules this can help the battery to charge from solar energy. The IOT device is used to indicate the farmer by a message while someone enter into the farm and the system to monitor agricultural land is developed by using WSN. PIR sensor used to detect whether a human has moved in or out of the sensors range. Through IoT, the monitored data is sent to cloud so that

farmers can get the data easily. The primary goal of the smart crop monitoring system is to ensure maximum efficiency for farmers.