

VSB Engineering College, karur-639111

Project Design phase - I

Problem Solution fit

Project name: IoT based smart crop protection system for agriculture

Team Id : PNT2022TMID33482

<b><u>1.Customer segments:-</u></b>  The customers who are going to adapt this project contains of <ul style="list-style-type: none"><li>● Large scale Farmers</li><li>● Crop importers</li><li>● Remote Farmers</li></ul>	<b><u>6.Customer constrains:-</u></b>  The customer wants a device the problems in crop protection when he is on remote or absence of humans. <ul style="list-style-type: none"><li>● Prevent the crops use this if it is necessary</li><li>● Use it according to the climate change</li><li>● Resource efficient</li></ul>	<b><u>5.Available solutions:-</u></b> <ul style="list-style-type: none"><li>● Integrating integrated pest and insect control is the greatest strategy to prevent crop damage.</li><li>● Certain cultural practices can prevent or reduce insect crop damage.</li></ul>
<b><u>2.Jobs to be done :-</u></b> <ul style="list-style-type: none"><li>● Choosing the position of placing the smart sign board</li><li>● Control system of the mechanism is difficult</li></ul>	<b><u>9.Problem route cause:-</u></b> <ul style="list-style-type: none"><li>● To prevent economical loss for farmers from yield=</li></ul>	<b><u>7.Behaviour:-</u></b> <ul style="list-style-type: none"><li>● The customer wants to make the revolutionary propagation in the rating of the crop protection through the reliability of time efficient.</li></ul>

### 3.Triggers:-

- From this crop protection method farmers can easily make efficient production in yield

### 4.Emotions:-

- People get more info about the needful resourses in the crop protection

### 10.Solution:-

- Our solution for this project is to initiate the crop protection system using the sensors and drones sensed information from field and protect the crops

### 8.Channels of behavior:-

The channels of behavior recombines the ration of the following

- Online
- Offline