

**Rajalakshmi Engineering College, Thandalam**

**Project Design phase – I**

**Problem Solution fit**

**Project name : Moisture control irrigation system**

**Team Id : PNT2022TMID02308**

<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>• remote farmers</li></ul>	<b><u>6.Customer constrains:-</u></b>  The customer wants a device which could solve the problems in irrigation when he is remote or absence of humans and that device should fulfill all the following constrains <ul style="list-style-type: none"><li>• cost efficient</li><li>• space efficient</li><li>• time efficient</li><li>• resource efficient</li></ul>	<b><u>5.Available solutions</u></b>  The moisture controlled irrigation system could be the best solution for this problem statement that has been provided by the farmers and also it specifically satisfies the customer constrains also
<b><u>2.Jobs to be done :-</u></b>  the customers want to automate the process of irrigation in cost, energy and reduced power consumption and also reliable manner	<b><u>9.Problem route cause:-</u></b>  The problem has its route stabled at the rate of the fast moving world since people move most of the times and since they have their work to be stagnated similarly farmers face the inability in the process of irrigation	<b><u>7.Behavior:-</u></b>  The customer wants to make the revolutionary propagation in the rating of the irrigation through the reliability of amount of water availability on the land
<b><u>3.Triggers:-</u></b> The reliability and easy accessibility of this finished projects yields the peoples attraction have this project installed in their fields	<b><u>10.Solution:-</u></b> Our solution for this project is to initiate the reliability of the irrigation system using the sensor sensed information from the field and also make the automation is on and off of water pump	<b><u>8.Channels of behavior:-</u></b> <ul style="list-style-type: none"><li>• The channels of behavior recombines the ration of the following</li><li>• Online</li><li>• offline</li></ul>
<b><u>4.Emotions:-</u></b> The customers feel happy and comfortable since our project reduces their work burden		