

VERTICAL FARMING WITH AEROPONICS

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Abstract - AEROPONICS is a system of growing plants without soil in suspended air with intermittent application of nutrient laden water to the roots of the plants in the form of mist. In our project we are using the above technique to grow lettuce, radish and Cucumber. A hole is made into the sidewalls of the PVC pipe and then the mesh pots are placed in the hole to hold the plant. The bottom of the pot acts as a supporting structure and separate root from the plant. A mist chamber is provided inside the PVC pipe to supply nutrient laden water in the form of mist to the roots which is automated for the regular supply of nutrients by using motor. These conditions allow for better plant nutrition assimilation in a more balanced way. The plants are provided with best condition regarding oxygenation and moisture. The nutrient solution we are using is the fish amino acid. As it is a soil less cultivation we are using rock wool as a germinating media. We are doing Aeroponics vertically to do agriculture in a limited space to meet the demands of the people as in growing population and reduction in cultivable land. This technique is more beneficial when compared to current farming techniques as in this we are using the resources to a full extent like this is the only farming method where limited water is used, decreases labor, expenses and environmental friendly.

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E-FARMER SELF SERVICE

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Abstract - It is a web application designed using PHP as front end and My-SQL as back end. The aim of the project is to automate all the activities involved in procuring product from farmer and selling it to customers. In existing system farmers find difficult in reaching their cultivated product to consumers. This system requires an intermediate person to connect farmer and consumer and they will acquire a brokerage for this service. Because of this brokerage products will reach higher price and reduces farmer's profit. Thus a new profitable system is needed to help farmers. Here farmer will post the vegetable and agricultural products that they had cultivated. These products are verified and

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