

SMART VERTICAL FARMING

Abstract:

Generally vertical farming is a technique which allows us to do farming by utilizing the limited area of land especially in big cities but this project “SMART VERTICAL FARMING” not only allows the land requirement but also allows us to conserve the water and also provides the plants with sufficient sun rise accordingly. In this design the water from the upper layers of the vertical farm will be allowed to fall on the underneath layer whenever the upper layer is filled with sufficient water. This procedure will be continued up to the last layer after that the water from the last layer will be stored in a tank for further use. Another feature of this design is that the layers can move accordingly to get the sunrise during the day time and they will be arranged automatically to their original place during the night time.

By implementing this design we can be able to do farming within in a small area and by using limited amount of water in an efficient manner.