**SMART TERRACE GARDENING**

**Abstract**

The proposed method dynamically measures the atmospheric temperature, humidity and soil

moisture in the stipulated time intervals and adjusts the terrace temperature automatically. Terrace temperature is controlled

with the help of smart roofs, where smart roof plats are automatically tilted with the help of motors. With the controlled

terrace temperature, the proposed fuzzy rule based intelligent system irrigates the crops with exact quantity of water which

conserves water, electricity, avoids excess irrigation and produces good yield.

Keywords: Smart gardening, terrace crops, terrace temperature, soil moisture, smart roofs,

**Introduction**

Green terrace tops with plants and Flowers grant green and cool spaces, energy conservation,

Best quality air for breath, healthy life, good biodiversity (jose, 2014). Also rooftop and terrace gardens give pleasure To city residents and provide an opportunity for improving Creativity as well psychological benefits. As an added Advantage, balcony gardens change the visual appearance of The building, screening from neighbors and hide unwanted Pipeline.

Conclusion: The proposed research work significantly controls the soil moisture in the soil bed deployed in terrace gardening using the smart roof technology. Depending onthe current condition of the atmospheric temperature and humidity, the proposed system automatically adjusts the position of the smart roof and controls the soil moisture in the soil bed.ubaker,

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