Smart Rainwater Harvesting

The National Institute of engineering, Mysore/ 1st SEM/ E&C -A Section

PROBLEM STATEMENT

Smart Rainwater Harvesting:
Increase volume of water bodies
Lessen flood and soil erosion
Prevent overuse of underground water

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INTRODUCTION

Many parts of the world have two kinds of seasons like rainy season and dry season. During dry season, there is very little or no rain. Due to this, the water bodies like pond, rivers, etc. are dried. By using these techniques, the water bodies can be recharged, and their volume can be increased.By storing rainwater, it reduces the surface runoff. This reduces the surface erosion. By capturing rainwater in reservoirs, the flood problem in large rainfalls is also diminished

As population of a locality increases, its demand for water increases too. To meet this, underground water is used. Due to this reason, the level of underground water is decreasing rapidly. By using rainwater, the demand on groundwater is reduced.

IDEA GENERATION

We have developed a cost-effective portable natural filter which can be attached to a rooftop rainwater harvesting system pipeline system. It contains different layers of material which will filter the water at every level.

PROTOTYPE IMAGES