COMED KARES
INNOVATION HUB

STUDENT
PROJECT BOOKLET

2023

Smart rain water harvesting system

The National Institute of Engineering, Mysore (South) / I Sem /Mech- B Sec

PROBLEM STATEMENT

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

To make the collected rain water usable it must be contamination free, safe and inexpensive. For that a property constructed water filter must be used. The following filtering system maybe used such as sand gravel filter, charcoal filter and PVC pipe filter and sponge filter.

PROTOTYPE IMAGES