

SRI V.S.SIVALINGAM CHETTIAR GOVERNMENT DEGREE COLLEGE
SULLURPET, TIRUPATI DISTRICT, ANDHRA PRADESH

Rain Water Harvesting

Objectives

Rainwater collected from rooftop run-offs will be used to recharge groundwater by capturing and storing rainwater.

The Context

Because of the significant increase in daily water demand among the rapidly growing human population, there is a huge opportunity to capture rainwater to fulfil water scarcity while avoiding the degradation of normal groundwater levels. Rainwater harvesting has the benefit of directing unwanted or extra water down the aquifer to recharge the groundwater level.

The Practice

Rainwater collection is a cost-effective and environmentally friendly strategy. It is a green practise because it preserves groundwater levels while charging the aquifer. A community development programme can help to promote this environmentally friendly practise. When rainwater and run-off water are strategically stored, they can protect the land from soil erosion and flooding while also recharging aquifers and raising groundwater levels. As a result of widespread and unplanned use, groundwater has become contaminated and unfit for use. Rainwater and runoff water could be collected and stored for future generations to use. Rainwater harvesting is both eco-friendly and cost-effective.

The cost of digging a catchment area can be reduced by collecting rainwater on the roof. The catchments and settlement tanks act as natural coolers, removing heat from the ground. The best part about rainwater harvesting is that if it goes unused, it can be collected in natural ponds or man-made tanks and decanted to the ground, charging a water supply.

Evidences of Successes

SVSSC Government Degree College has three rainwater harvesting pits in the north-east, middle of the north –east and north-west corners. Roof runoff water is collected and stored in wells via network lines. The remaining runoff water from the roof is allowed to recharge the earth. The ground water level is steadily rising in and around the college premises.

Problems Encountered and Resources Required

- Rainwater harvesting systems must be maintained on a regular basis to avoid infestations from rodents, mosquitoes, algae growth, insects, and lizards
- If they are not properly maintained, they can become breeding grounds for a variety of animals





