Date: 15-06-2025

RAIN WATER HARVESTING

Rain water harvesting structures and utilization in the campus:

KIET organization has installed a rainwater harvesting system to ensure the supply of ground water. Rainwater harvesting is done at several points throughout the campus. The rainwater gathering pits were built according to industry standards. Rainfall is directed through wide shallow ditches that run the length of the campus, ensuring rainwater conservation. All open terraces are equipped with rainwater collection pipes that are routed to the ground via planned drains.

Due to rapid increase in day-to-day demand for water among fast growing human population, there lies a great opportunity of harvesting rainwater to meet the scarcity of water and avoid destruction of the normal groundwater level. The boon of rainwater harvesting is that the unused or extra water can be sent down the aquifer to charge the groundwater level.

Rainwater harvesting is an important environment friendly approach. It is a Green Practice having double benefit of keeping the groundwater level undisturbed and charging the aquifer. This green practice can be encouraged in the form of Community Development Program. Rainwater and run-off water, stored in a planned way, can save the earth from soil erosion and flood and recharge the aquifers to increase the groundwater level. The extensive and unplanned use of groundwater has not only disturbed the natural water level but also has made the groundwater contaminated and unfit for use. Collecting and harvesting rainwater and run-off water would reserve the water for future generation. Rainwater harvesting is eco-friendly and economical. The cost of digging a catchment area can be saved by roof-top collection of rainwater. The catchments and settlement tanks reduce the ground heat and act as a natural cooler. The best part of the practice of rainwater harvesting, is that if unused, this water can be

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collected in natural ponds or artificial tanks and decanted to the ground thus charging the a aquifer.

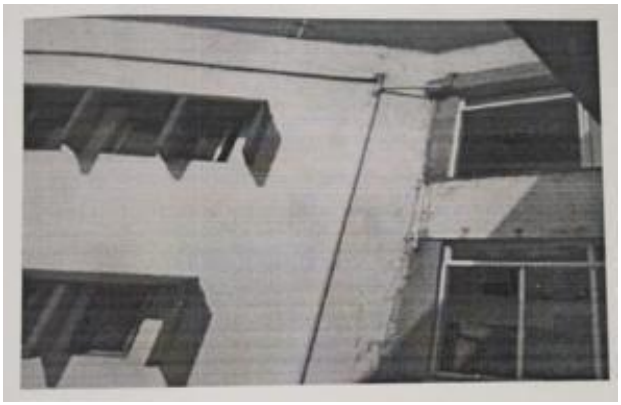
Objectives

- To increase recharge of groundwater by capturing and storing rainwater, by rainwater harvesting from rooftop run-offs.
- To store the water for gardening & washing purpose.

Practice

In our campus rainwater harvesting system has been installed in Block A, Block B. The roof runoff water is collected through network of pipe lines and stored in the wells. There are three wells in the campus where the roof runoff water is stored. The remaining roof runoff water is allowed to infiltrate in the ground for recharge. The stored water is used for gardening and washing of vehicles

Roof Rain Water Harvesting System



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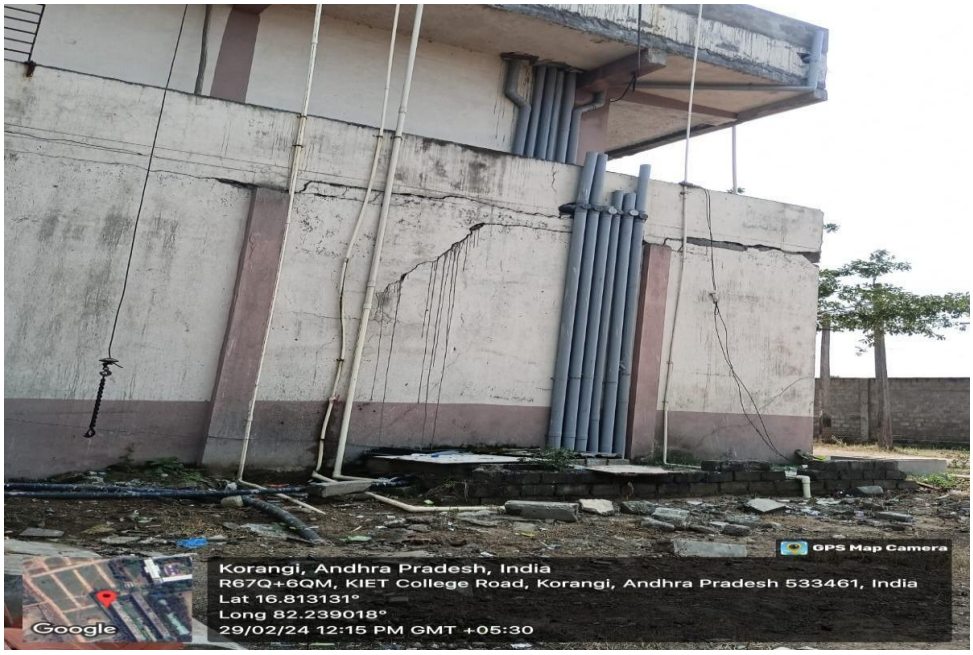
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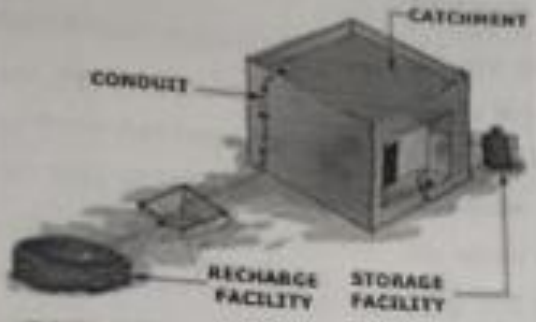

ELEMENTS OF A TYPICAL WATER HARVESTING SYSTEM

Photograph of Pipe line network for Roof Rain water Harvesting

Rain Water Collected in Well and Tank

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