

## **Rainwater Harvesting Pits In GRIET**

### *Rain water harvesting structures and utilization in the campus*

Rainwater harvesting is a technique of collection and storage of rainwater into natural reservoirs or tanks or the infiltration of surface water into subsurface aquifers. The endeavour is to collect and make use of every drop of water which falls on the GRIET campus. Measures are taken for rainwater harvesting which includes construction of four rainwater storage pits of 1Lakh litres capacity. Natural existing site for check dam construction and other harvesting structures like recharge tank , contour bunding also planning in the campus.

Huge quantity of the rain water collecting tanks are constructed in the campus to effective reuse of rain water. Students and other community people visiting the harvesting pits and obtaining knowledge about the rain water recharge.

Awareness program is conducted for staff and students regarding the use of alternative source of water and conservation of energy . GRIET has four recharge pits One among them is Bore well recharge . Recharge pits has each capacity of the 17000 liters ( Total 51000 liters) for One time rain. One bore well recharge about one lac liters. By recharging pits it is observed that ground water levels has increased for the season.

Our best practices in rain harvesting awarded the best paper, presented at a National Conference organized at Affiliating University JNTUH, Civil Engineering Department.

GRIET's environment makes an aesthetic impression on those who step into the campus while simultaneously presenting the pedagogical/academic mission. Consequently, students along with faculty learn and live in and around campus to gain a new dimension to their learning and teaching experience and an increased appreciation of the natural world. GRIET has a green carpet where ever provision is available with lush green campus environment with many trees and plants along with nursery. Every year campus students and faculty is

Participating in the “ Haritha haram program” to improve the greenery in the campus.

Apart from the greenery measures GRIET also doing water conservation and solid waste management. Solid waste is managing in terms of Dry waste and Wet waste and liquid waste is in terms of STP( sewerage treatment plant)



Prepare For The Drain Paths for the rain water collection



Rain Water Harvesting Pits In GRIET Campus





Bore Well Recharge Pits



Rain Water Pits Execution : Monitoring By Director GRIET



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Rain Water Execution Monitoring By GRIET Green Campus Coordinator



Rain Water Pits Execution is Monitoring By HOD Civil GRIET



## water harvesting check dams and percolation pits



Construction of check dams Masonry



## Construction Of Check Dams : soil Bund



## Roof Water collection Tanks

