

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

**Response:**

It is a known fact to all of us that water is the basis of all living beings on the earth. Especially countries like India depend on rains and snowfall for its agriculture. Unfortunately, during heavy rains most of the water is being wasted to rivers and seas. Therefore, rainwater harvesting became necessary step which everyone should practice. When there is a downpour and saved in rain fed tanks and other artificial tanks to use it for future purposes. SVIET has a good practice of harvesting this rainwater in a pond through soak pits arranged in different places during rainy season and uses it throughout the year. Using this harnessed water, we grow various trees, and plants. Apart from this, we grow vegetables on the campus itself and these vegetables are used in the various hostels of the college. This water is also used to maintain a green and healthy garden with lawn and other beautiful flowers. Rain water harvesting system ensured that both of our bore wells are always kept recharged and hence the campus has not felt scarcity of water for many years.



Rain water harvesting water collecting tank



Water collecting system



Water collecting system



Pond in field nearby village - Rain water harvesting

## **Advantages:**

- Rainwater harvesting has many benefits but the main one is that it is a sustainable water management practice that can be implemented by anyone on many different levels, from a simple rain barrel to a comprehensive rainwater harvesting system that integrates with an irrigation system or household plumbing. When you think about it... do we need to use municipally treated water to sprinkle on our lawns and landscaping? Definitely not! Harvested rainwater is the perfect candidate for irrigation use in addition to so many other water uses. By using rainwater harvesting systems to supply water for some, or all of our water needs, you can reduce our dependence on municipally treated water. Overall, rainwater harvesting is viewed as a practice that is socially acceptable and environmentally responsible all the while, promoting self-sufficiency.

## **The environmental benefits of rainwater harvesting**

- The rainwater that falls on your roof and property is essentially free. All it takes is a method to harvest it into a tank or cistern for later use.
- Rainwater harvesting can be a great educational tool to get people to recognize their individual or household water usage. This can get them to start conserving water in other areas around their home.
- For communities that rely on imported water to supply their needs, collecting rainwater that falls naturally in the community can reduce the need for imported water.
- Rainwater harvesting helps utilities reduce peak demands during summer months, saving treated water for more important and appropriate water uses.
- While rainwater can be a perfect primary water source for many uses and situations, it is also a great backup water supply for emergency situations.