Rainwater harvesting-IV

8. Percolation Tank

Percolation tanks are artificially created surface water bodies, submerging a land area with adequate permeability to facilitate sufficient percolation to recharge the groundwater. These can be built on big campuses where land is available, and topography is suitable.

Surface runoff and roof topwater can be diverted to this tank. Water accumulating in the tank percolates in the solid to augment the groundwater. The stored water can be used directly for gardening and raw use. Percolation tanks should be built in gardens, open spaces, and roadside greenbelts of urban areas.

There are two ways of harvesting rainwater, namely; surface runoff harvesting and rooftop rainwater harvesting.

Rainwater harvesting

Rainwater harvesting is the collection and storage of rain for reuse on-site, rather than allowing it to run off. These stored waters are used for various purposes, such as gardening, irrigation, etc.

Surface runoff harvesting

In urban areas, rainwater flows away as surface runoff. This runoff could be caught and used for recharging aquifers by adopting appropriate methods.

Rooftop rainwater harvesting

It is a system of catching rainwater where it falls. In rooftop harvesting, the roof becomes the catchments, and the rainwater is collected from the roof of the house/building.