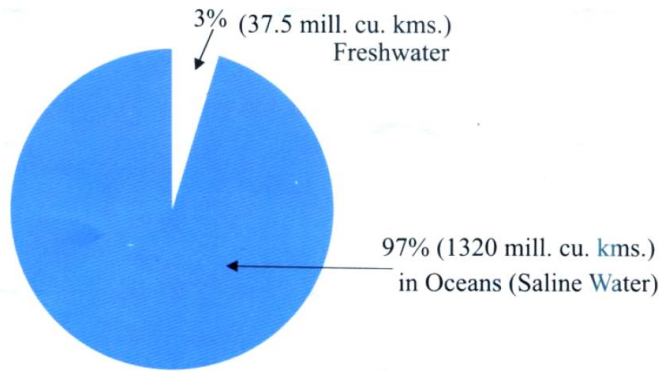


WATER CONSERVATION

Water conservation should not be considered an option any longer. Current circumstances require our full attention if we hope to thrive as a civilization.

TOTAL WATER ON EARTH



Of all the water present on earth, 97.5 per cent of it is not fit to drink. Only less than 3 per cent is consumable, with one third frozen in the form of glaciers and polar ice, the water left for human use is roughly 1 per cent of the total water present. 11 per cent of the total freshwater on earth is groundwater; available up to a depth of 800m, which can be extracted for use.

YOU CAN HELP!

- 🌿 Use a mug of water when brushing your teeth, shaving or washing your hands and face instead of using running tap water.
- 🌿 If you use tap water while brushing, only open the tap when you need water.
- 🌿 Close the tap at once after using the water.
- 🌿 Running your faucet for 5 minutes uses up energy to run a 60-watt light bulb for 14 hours.
- 🌿 Instead of shower or tub bath, use a bucket and mug. About 75% of all water used in the household is used in the bathroom.
- 🌿 Fix leaky pipes and taps immediately upon discovery.
- 🌿 Harvest rainwater in your house.
- 🌿 Do not over-water plants.

Rainwater Harvesting

What is Rain Water Harvesting (RWH)?

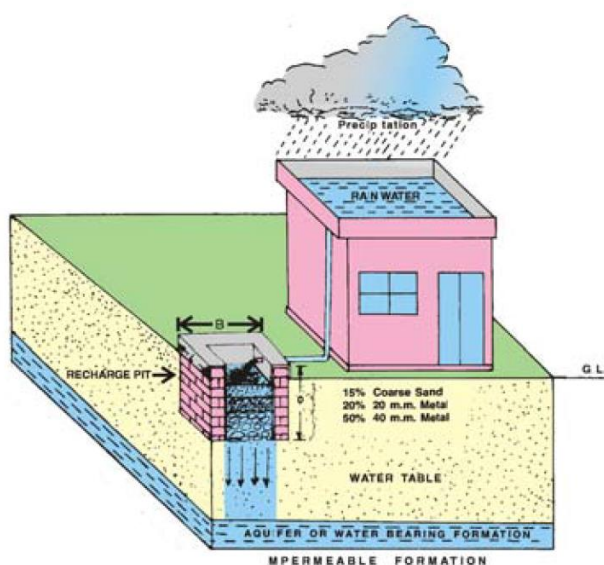
Rainwater harvesting is a technique of collection and storage of rainwater at surface or in sub-surface aquifers, before it is lost as surface run-off.

Why Should We Harvest Rainwater?

- 🌿 To overcome the inadequacy of waters to meet our demands.
- 🌿 To arrest decline in groundwater levels.
- 🌿 To enhance availability of groundwater at specific place and time and utilize rainwater for sustainable development.
- 🌿 To increase infiltration of rainwater in the subsoil, which has decreased drastically in urban areas due to paving of open area.
- 🌿 To improve ground water quality by dilution.
- 🌿 To increase agricultural production.
- 🌿 To improve ecology of the area by increase in vegetation cover, etc.

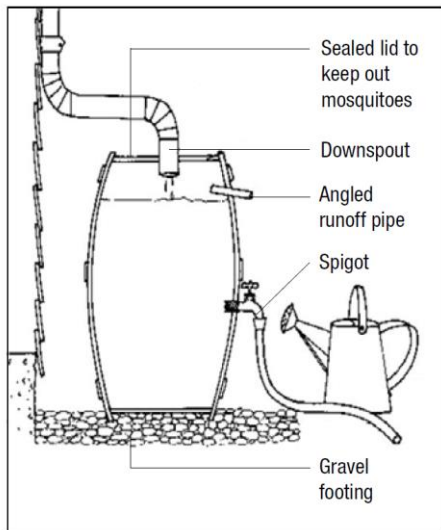
What is Roof top Rain Water Harvesting?

Rainwater available from roof tops of buildings, paved and unpaved areas goes waste. This water can be recharged to aquifer and can be utilized gainfully at the time of need or can be collected in large containers and can be used for domestic purposes.



B (BREADTH) = 1 TO 2 m.
D (DEPTH) = 2 TO 3 m.
L (LENGTH) = 2 TO 3 m.

Suggested rain barrel design.

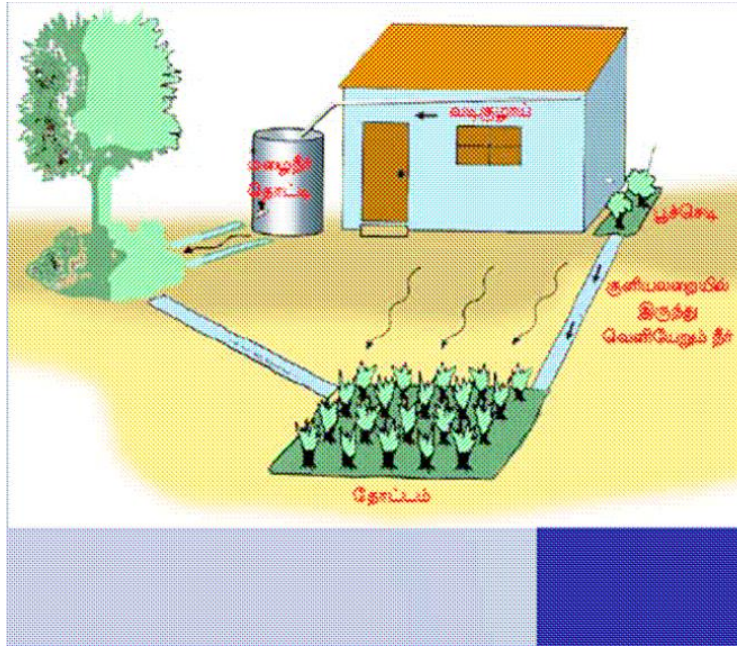


Rooftop rainwater harvesting for domestic use is a simple way to conserve water outdoors. This is done by placing a plastic container (large heavy-duty fibre drum) under a downspout (from the roof) to collect water running off the roof. The container should be tightly covered to prevent from dusts and mosquitoes from laying eggs.



Water Conservation at Public Water Outlets

A small pit is dug nearby the water tap, in such a way that the waste waters run into the pit which is filled with river sand, broken bricks and small granite jelly. This serves as a percolation pit as well as prevents pooling of water, which results in mosquito breeding.



சமையலறை மற்றும்
குளியலறையில்
இருந்து வரும்
கழிவுநீரல்லாத நீரை
செடிகளுக்கு
செலுத்துவதன் மூலம்
நிலத்தடி நீரை
அதிகரித்தல்

Figure: Recycling Domestic Waste Water