Water Training Module
We are all aware that water is a precious resource. However, it does not get the necessary attention and is not used with care because it comes very easily through the pipes and gives an illusion of plenty.
Did you know that women walk 4 kms everyday to get water in many places in India!
Water Availability on a Global Scale

97% Sea Water

2% locked in snow capped mountains

1% fresh water in rivers, lakes and underground aquifers
Distribution of Water

- Rainfall varies according to geographical locations in India.
- Churu District in Rajasthan gets 200 mm of rainfall whereas Cherrapunji gets 19000 mm.
- The average rainfall in India is 1200 mm.
- Monsoon lasts for about 3 months. In the 3 months, it rains for 100 hrs approximately. Within the 100 hours, it rains intensely for 10 hrs.
Water Harvesting

Water harvesting is simple. In every home, 4 pipes in the roof top carries the water into the drain. At the outlet point where the pipe is drained, a recharge pit can be made, with 3 layers starting from the bottom small pebbles/stones; middle layer medium pebbles/stones and at the top sand. This helps to filter the water before it goes into the recharge pit.
Water Harvesting

• In case the water crisis is severe, the roof top rain water after being flushed for the first 10 minutes, can be harvested in a plastic tank of various sizes (100, 500, 1000L) the overflow gets directed to the recharge pit.

• If money is not a constraint, rain water can be harvested. Please remember keeping water underground is the cheapest form of storage and does not lead to evaporation loss.
## How Much Water Can Be Collected

### Rain Water Harvesting Potential in liters per year

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<th>20 x 30</th>
<th>30 x 40</th>
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Water Management

• Always use water with care. If you are drinking water in a glass, do not fill the glass, instead fill only half and take more if necessary.

• Install low flow showers, low flow devices in the house

• Ensure overhead tanks never overflows. Please remember that a drop of water wasted per second results in 10000 litres of water p.a.

• If you are building a new house, do the piping in such a way that bath water is reused for flushing. Do not use drinking water for flushing needs. Install a urinal in the bathroom so that water cistern tank quantum flushing is avoided by male users of the family.
Water Management

• In Kitchen, introduce double basin, so that while washing fruits/vegetables, the water can be diverted for horticulture needs if there is a garden otherwise use it for flushing.

• Watering the garden, in the morning, or late evening helps to reduce evaporation loss. Instead of using a hose pipe, use sprinklers, or drip irrigation device.

• If the capacity of your WC is large, then fill the WC tank with 1 or 2 plastic bottles filled with water, to reduce the volume of discharge while flushing or keep neatly cut discarded marble slabs to reduce water discharge (Archmides principle)
Understanding Water Energy Nexus

When water is wasted, energy is also wasted, because movement of water requires pumping, filtering and retreating. This is because in the process of pumping water through city pipelines sometimes the water gets mixed with sewage water.
Water Intensive Products

• Considering water is, will be in short supply think before you install water intensive devices like tubs, jacuzzis.

• Look at the water intensity of appliances before you buy a washing machine or a dish washer.
Quote - Premier Begin of Israel when he came to India in 1992

“We use water, like you use eye drops in Israel”

If we do not learn to use water with care, nature will teach us the lessons the hard way.
ITC Hotels’ has reduced its water consumption by 50 %.

The water conservation journey continues...

Nobody give you India like we do

Namaste