

# Toza India Pvt Enterprise

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[www.tozaindia.com](http://www.tozaindia.com)

**Environment  
Protection  
Company**

# Our Services

- 1 – Rainwater Harvesting
- 2 – Sewer Treatment Plant
- 3 – Effluent Treatment Plant
- 4 – Water Treatment system
- 5 – Readymade Septic Tank – BioFurnaX
- 6 – Bore well Services
- 7 – Soakage BioPit+

# Rainwater Harvesting

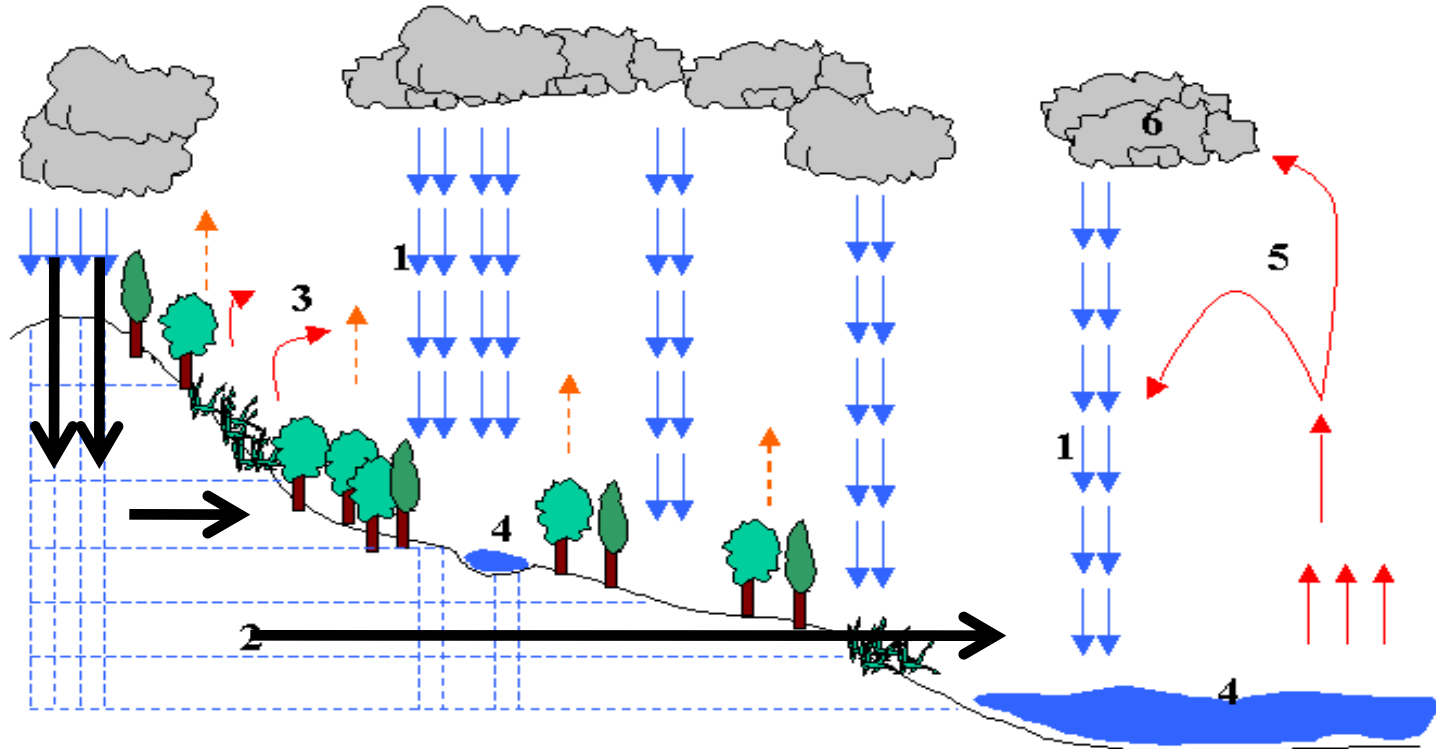
- Purpose of RWH is:-
  - A – Collection, Filtration and Re-use
  - B – Ground water table recharge
  - C – Water Logging solutions
  - D – Dead / Existing Bore well restoration

# Total World Water Supply

<b>Location</b>	<b>Water Volume (km<sup>3</sup>)</b>	<b>% of Total Water</b>	
Oceans	1,230,000,000	97.17	
Ice caps and glaciers	28,600,000	2.5	
Atmosphere	12,700	0.001	
Rivers and Streams	1,200	0.0001	
Lakes (Fresh water)	123,000	0.009	
Groundwater (Shallow to depth of 0.8 km)	4,000,000	0.31	

- Over 70% of our Earth's surface is covered by water
- More than 97% of Earth's water is in the oceans, 2% is in ice and glaciers- (Both are unsuitable for human use because of Salinity (Ocean Water) and location (ice caps and glaciers))
- The total amount of water for which all the people, plants and animals on Earth compete is much less than 1% of the total

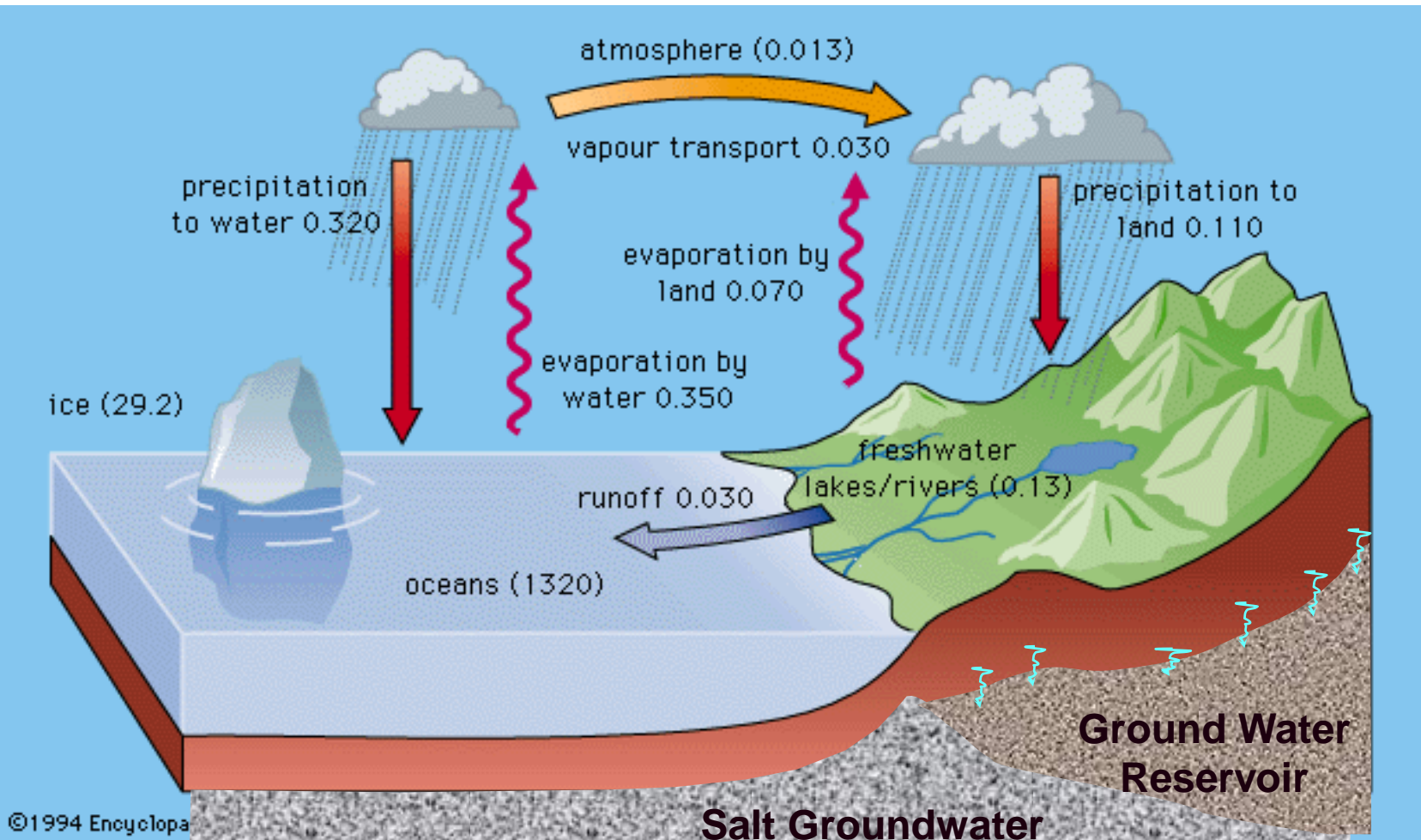
# The Water Cycle



- 1- Precipitation
- 2- Infiltration- contributes Ground water sources
- 3- Transpiration
- 4- Surface runoff – contributes to surface water sources
- 5- Evaporation and Condensation

# Groundwater

## The Unseen Part of the Water Cycle



The present-day surface hydrologic cycle. The numbers in parentheses refer to volumes of water in millions of cubic kilometers, and the fluxes adjacent to the arrows are in millions of cubic kilometers of water per year.

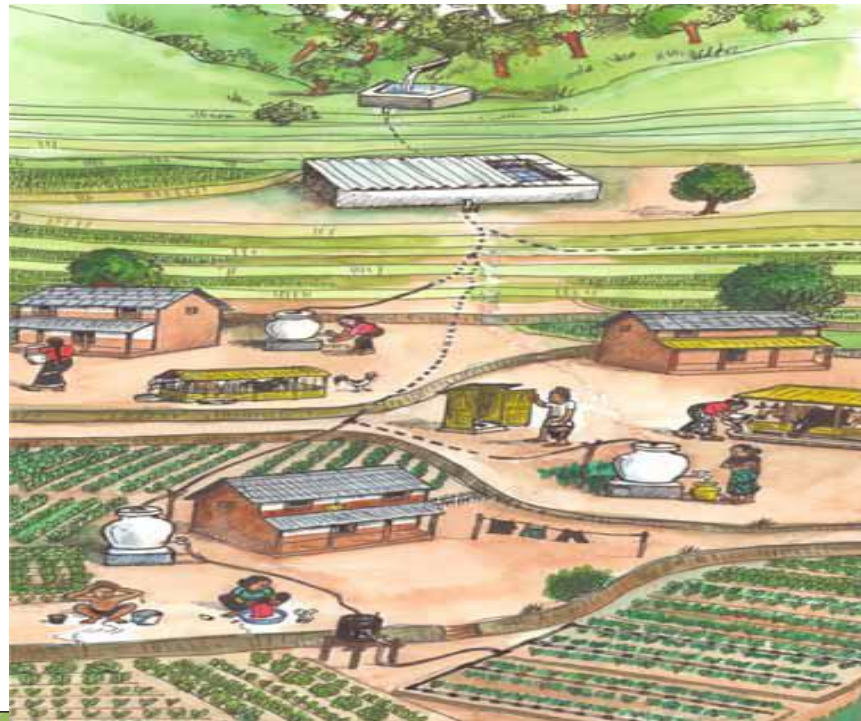
# **Why Harvest Rainwater?**

## **Control Your Water Future**

- **Become water self-sufficient**
- **Save money**
- **It's simple and flexible**
- **Modern treatment methods are safe and affordable**
- **The quality of rainwater is excellent**

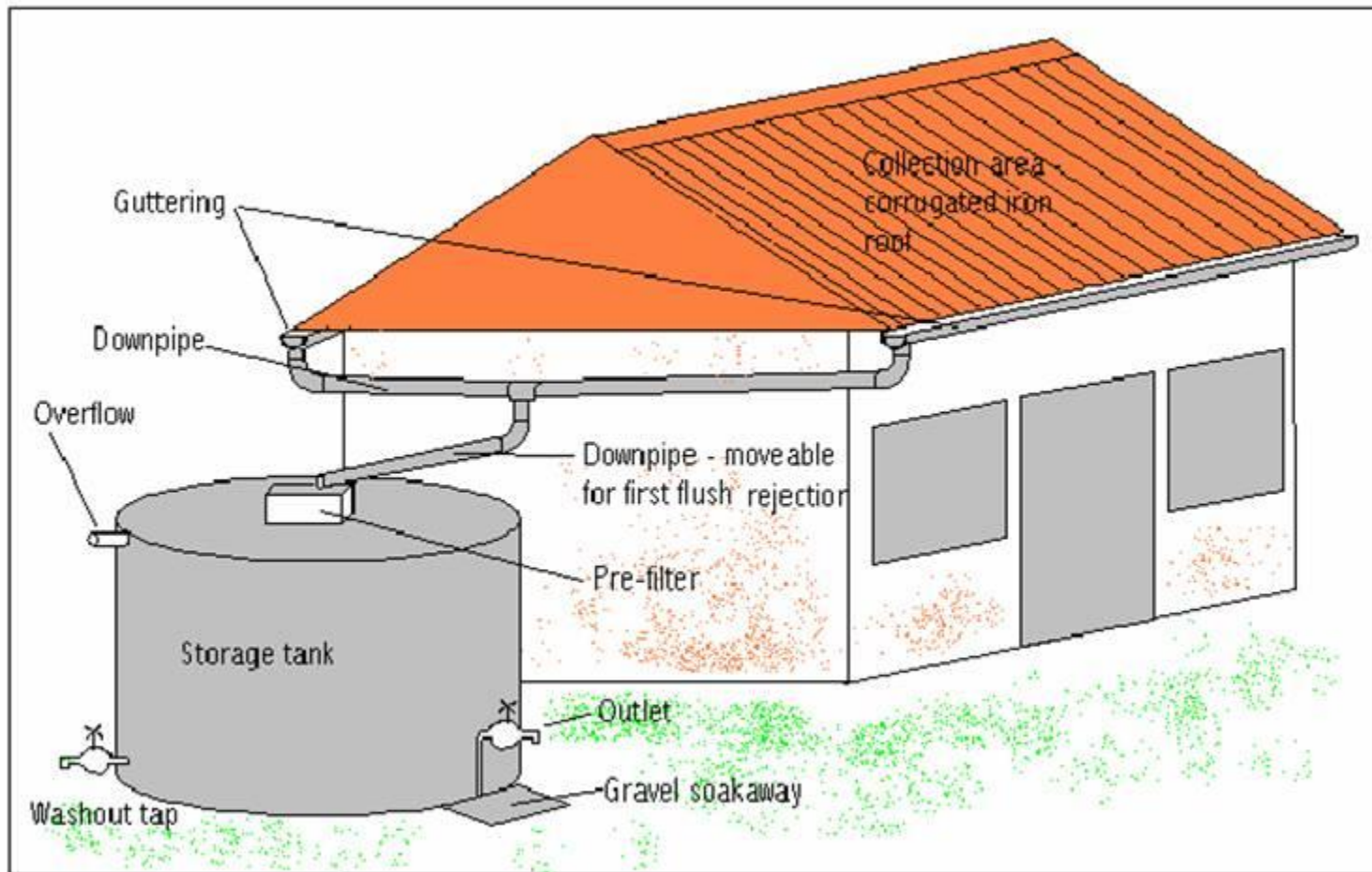
# Rainwater harvesting- Alternative water source

- Technology used for collecting and storing rainwater for human use from rooftops, land surfaces
- Decentralised system – Installed in houses, Institutions, community





# Typical Domestic Rainwater Harvesting System



# Factors affecting RWH system design

- Rainfall quantity (mm/year)
- Rainfall pattern
- Collection surface area (m<sup>2</sup>)
- Runoff coefficient of collection (-)
- Storage capacity (m<sup>3</sup>)
- Daily consumption rate (litres/capita /day)
- Number of users
- Cost
- Alternative water sources

# Feasibility of Rainwater Harvesting

- The size of supply of rainwater depends on the amount of rainfall (R), the area of the catchment (A) and its runoff coefficient (C).
- An estimate of mean annual runoff from a given catchment can be obtained using the equation:

$$S = R * A * C$$

Where S = Rainwater supply per annum

R = mean annual rainfall

A = Area of the catchment

C = Runoff coefficient

- The actual amount of rainwater supplied will ultimately depend on the volume of the storage tank or reservoir.



# Sewage Treatment Plant

## 1 – Sewer Treatment Plant:-

It's an electro mechanical sewer treatment system where we use anaerobic and aerobic sewer treatment methods.

## 2 – Green STP:-

It's based on green technology, need less or no electricity and almost maintenance free passive treatment system.

# Water Treatment System

- A] – D M Water and filtration System
- B] – Reverse Osmosis (RO) Plants
- C] – Electro Deionization (EDI)
- D] – Water Softeners

# Effluent Treatment Plant

- There are a vast array of effluents treatment technology available. Industrial waste water treatment covers the mechanisms and processes used to treat waters that have been contained in some way by industrial or commercial activities prior to its release into the environment or its re-use.

# BioFurnaX i-SeptoSys

## **07 benefits of BioFurnaX Sewer Management:-**

- 1** – It takes little time to install.
- 2** – All components are Pre-casted.
- 3** – Based on up flow Anaerobic Microorganism.
- 4** – eco-T has been installed for Filtration.
- 5** – Solid Retaining arrangement has been attached.
- 6** – Install once and forget.
- 7** - BioFurnaX works best with multi Soakage BioPit+



# Bore Well Services

- We have drilling equipment that can drill through hard rocks too.
- Expert team of workers and dedicated supervisors to monitor the project.
- We can take up project small to large.
- Quality Services with reasonable rates.

# Soakage BioPit+

- e-XtrAge Soak Well or Soakage BioPit+ designed and developed by us is fitted with ECOintesta, takes less space, time and efforts to construct, Its design is simple, cost effective, need minimal maintenance and long lasting. We utilize same space for sewer absorption many times alternatively so clogging is not possible, if you choose right design.

# Thanks a lot

- We thank you so very much for listing / watching these slides. We hope a long lasting business relationship with you and your esteemed organization for mutual benefits.

**THANK YOU ONCE AGAIN**

Er Pravesh Gupta (Project Director)

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