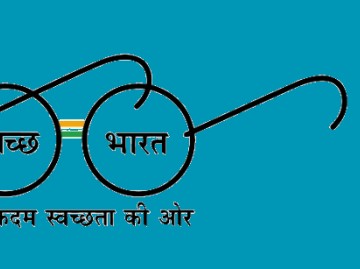


# Rainwater Harvesting (RWH)



Rainwater harvesting is the process of collecting and storing rainwater that falls on our rooftops and open grounds for later use.

This can be stored for direct use or can be recharged into the ground water.

## Catch the rain

Where it fall, When it falls

## For Water Security!



### Where can be install ?

These Rainwater harvesting structures can be installed at anywhere including;



Aanganwadi



Gov. Buildings



Farms



Community level



Flooding Area

## Checkdams for Runoff, RWH for Rooftops!

## Be the “WATER CHAMPION” of your Village !

### Components & Specifications of Rainwater Harvesting

#### 01. Rooftop Area

- RWH can be done on any type of rooftop.
- Proper cleaning of the roof and filter is mandatory before and during monsoon.
- Avoid using soap or acid for cleaning the roof.
- Roof surfaces should be smooth, easy to clean & durable to prevent material shedding into the water.



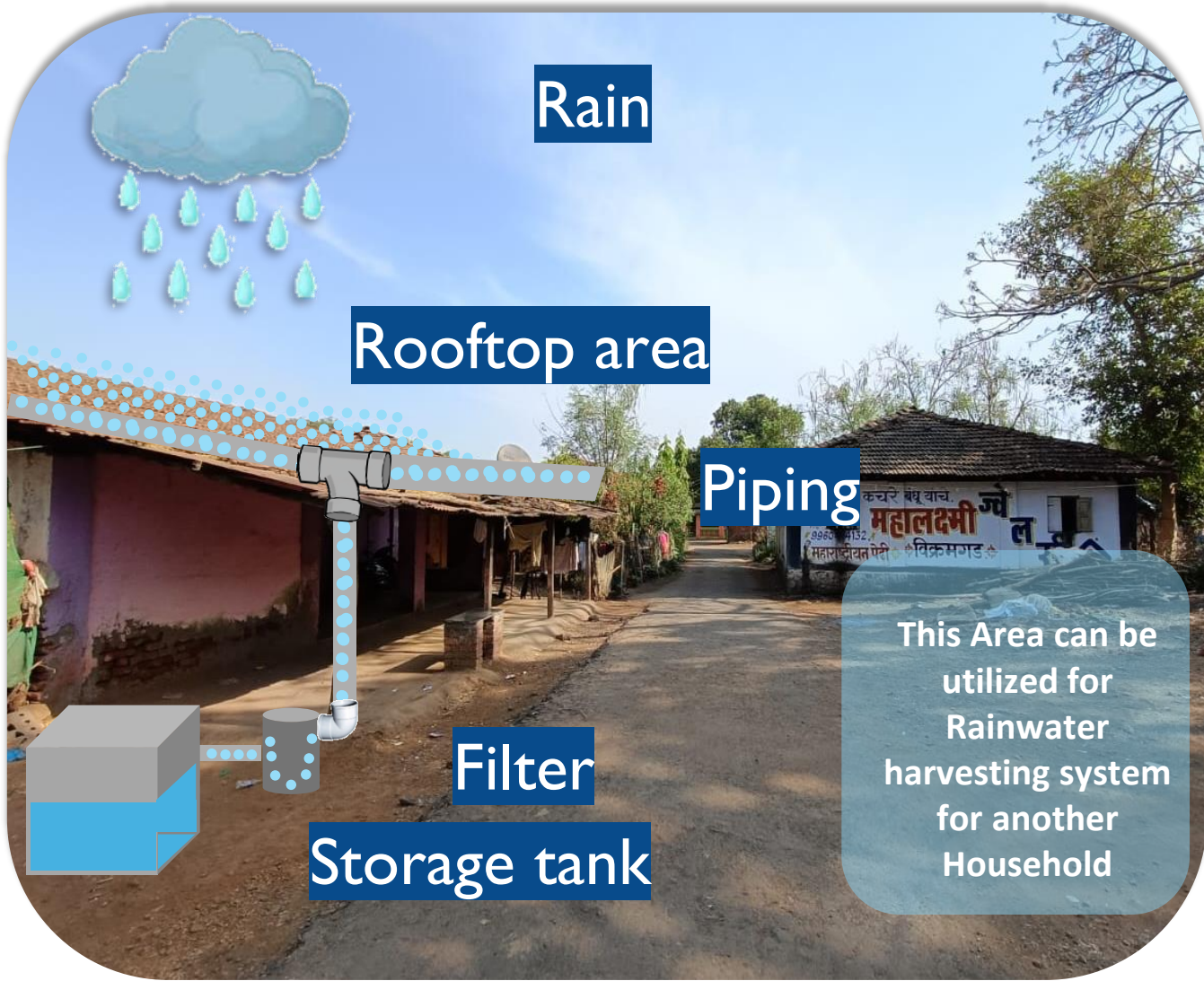
RCC Roof



Galvanized iron Roof



Corrugated sheets Roof

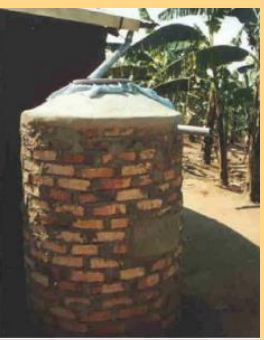


#### 04. Storage Tank

- Storage tanks should have a tight-fitting roof to block light, a manhole cover, and a flushing pipe at the base.
- Only fill tanks with rainwater.
- The tank should be easy to clean from the inside.



Polyethylene Tank



Masonry Tank



Ferrocement Tank



Cement Square Tank

#### 02. Conveyance System & Gutter

- Gutter size should match the flow during the heaviest rain, ideally 10-15% oversized.
- Use semi-circular or rectangular gutters for optimal flow.
- Ensure gutters are well-supported to prevent sagging or falling when filled with water.



Plain galvanized iron gutter



PVC Material gutter



Bamboo betel trunk Gutter

#### 03. First Flush & Filter

- Taps should be installed 10 cm above the tank base to allow debris to settle on the bottom, preserving water quality.
- A first flush system diverts initial dirty runoff, and a filter unit removes debris and contaminants before water enters the storage tank.



Cloth filter



Pop-up filter



Dewas filter



Inverted Sand filter

### Dos for Harvesting Rainwater

- Divert initial rainwater before collecting it in the storage tank.
- Clean the roof every 15 days and make sure there are no leaves on the roof
- Make sure the pipes are well maintained
- On the top of the rainwater tank, ensure a tightly fitting lid is in place to prevent sunlight from entering, which can promote algae growth.

### Don't for Harvesting Rainwater

- Do not store rainwater in tanks without proper covers.
- Don't use paints, chemicals or hazardous substances on the roof
- Don't leave the first rain separator valve open! Remember to close it.

Implemented by:

**CWAS** CENTER FOR WATER AND SANITATION  
**CRDF** CEPT UNIVERSITY

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A step towards progress