

## Water is a precious resource which needs to be conserved

Rainwater harvesting is the technique through which rainwater is harvested/captured from the natural/artificial catchments and is stored in any suitable structure for further use. Tanka is underground cistern for collection and storage of harvested rainwater. The capacity of tanka depends on rainfall and catchment characteristics. Improved tanka is superior to traditional tanka in terms of life span, maintenance, quality of water and economics.

### Improved tanka

- ❖ Provision for controlling inflow of silt
- ❖ Covered from top
- ❖ Economic and efficient design
- ❖ Life span more than 30 years
- ❖ Harvested water hygienic
- ❖ Pay back period 3 to 4 years
- ❖ Benefit cost ratio 1.3 to 1.4
- ❖ Safe water withdrawal
- ❖ Lesser maintenance
- ❖ Smaller catchment requirement



Improved tanka of 50 m<sup>3</sup> capacity with hand pump for safe water withdrawal



Improved tanka of 21 m<sup>3</sup> capacity



Rooftop rainwater harvesting

The improved tanka design developed by ICAR-CAZRI has got wide acceptance in the arid region. The designs have been replicated in large numbers by different developmental agencies.