

Alleviating Poverty & Food Insecurity through Rainwater Harvesting

PROBLEMS



- Low crop production due to water scarcity on high drought risk clay soils
- Food scarcity during winter months



SOLUTIONS

In-field rainwater harvesting

Roof rainwater harvesting

Combining in-field & roof rainwater harvesting

Advantages



- Minimize water losses due to runoff and evaporation



- Access to secondary water source



- Supplementary irrigation



- Higher soil water content



- Higher crop diversity & crop rotation throughout the year



- Higher crop yields



- Water for domestic purposes



- Food security

Sustainable in terms of:

- Agronomic productivity
- Minimizing risk
- Conservation of natural resources
- Economic viability
- Social acceptability

