

Utkarsh

Details of Water Purification Technique for Rural India

Introduction: Water is an essential resource for existence of life. Water scarcity is a common problem in all areas. In rural India, water scarcity not only brings the problem of unavailability of water but also other health related problems due to impurity in it. This has been a serious issue in past few years.

Problem: In Konkan region, during summer season in water scarce rural areas, as water scarcity grows, the problems of impure water substantially increase. At many places, women dig a small ditch in the dry basin of a river/stream and collect water from it. These impurities may involve mud, water contamination, algae growth, heavy water due to reduced recharge etc. It is responsible for many health hazards.

What do we expect: A solution that does not cost more than Rs.1500 and mostly uses the locally available materials to maximum extent is desired. It should serve the drinking water requirement of at least 5 houses or 30 people. The mechanism should be easy to maintain by the locals. The standards for drinking water quality are typically set by governments or by international standards. These standards typically set minimum and maximum concentrations of contaminants in usable water.

Aim: The aim here is to develop an affordable and effective water purification technique for households in rural India. This system should purify a given quantity of water to basic standards of portable water in a short period of time.