



The water table depth fluctuates between 2.0-2.5 meters below ground.



Fresh water is accessible through skimming wells at depths of 20 to 25 meters



Support and Implementation

Water Management

A shallow layer of fresh groundwater lies over deeper saline groundwater aquifer which can be used in emergencies.

Deparja Drain, passing through Village Soofai Sahita, originates from Ranipur and carries effluent from approximately 70-75 SCARP tube wells, some in saline and others in fresh groundwater zones. The mixed effluent, considered marginal in quality, is pumped into the Rohri Canal 2-3 km from the village. The drain also receives wastewater from the Ranipur Sugar Mill and surrounding towns, which contains chemicals and acids that lower soil pH and enhance crop production.

Benefits

- Supports to counter seasonal droughts
- Crop yield is not compromised by using drainage effluent if applied in small quantities (depth) and not allowed to stand in the field for more than 24 hours

Challenges

- Water quality of neither the tube well groundwater nor the drainage effluent has been laboratory tested
- Risk of salt crust formation water not drained out on time (< 24 hours)
- Non-availability of pumping units for farmers whose fields are located far from the canals.