


ADAPTATION FUND
Climate Innovation Accelerator
SMALL GRANTS. BIG IMPACT.

SOLUTION FACTSHEET

# Seyrab Water Systems: Making groundwater resources more resilient

2026–2027

UN WFP World Food Programme | INNOVATION ACCELERATOR

## Solution Summary

**Location:**
Pakistan

**Solution type:**
Smart aquifer recharge system

**Innovation stage:**
Proof of Concept

**Grantee:**
Seyrab Water Systems

**Implementing entity:**
World Food Programme

**Funding received:**
USD 100,000 (Adaptation Fund)

ADAPTATION FUND

**The Adaptation Fund Climate Innovation Accelerator provides grants and technical assistance to innovative solutions for adapting to climate change.**

## Adaptation Innovation

- Seyrab Water Systems builds low-cost Smart Managed Aquifer Recharge (SMAR) systems that replenish aquifers by directing excess surface water underground, making groundwater resources more resilient to climate change.
- SMAR systems help to move surface water into underground aquifers during periods of surplus, treating them as natural water storage. It transforms seasonal excess water into a reliable long-term resource.
- The system offers recharge infrastructure with IoT-enabled dashboards that provide groundwater monitoring and track performance indicators to verify environmental outcomes.

## Climate Impacts

The solution is helping Pakistan adapt to:



Water security



Floods



Erratic rainfall

## Key Achievements

- The system is designed to recharge approximately 10 million gallons annually, which is enough to meet the year-round basic domestic water needs of around 1,700 people.
- Since its establishment, Seyrab has secured USD 255,000 in combined early-stage investment, grant funding and revenue from two pilot projects with government partners.
- The company has delivered a smart groundwater monitoring project with the Capital Development Authority in Islamabad. Currently, it is implementing a pilot as part of AFCIA with Arid Agriculture University in Rawalpindi. Seyrab also maintains strong partnerships with universities, research councils and intergovernmental institutions.

## Replication and Scaling Potential

- The company has the potential to scale within Pakistan but also regionally, in South Asian cities sharing the same conditions.
- Internationally, Seyrab Water Systems' approach is transferable to other flood-drought geographies (including parts of MENA and other emerging markets).

*To learn more, visit WFP-AFCIA Seyrab*

## Investment Potential

- **Business model:** B2B and B2G, contract model and an annual subscription model.
- **Revenue per year:** Currently USD 100,000.
- **Sustainable aproach:** Seyrab's revenue model is structured around defined service lines such as standardized recharge system design, turnkey implementation and performance oversight through its digital platform. This model supports long-term contractual arrangements, allowing Seyrab to generate customer-funded revenue.

## Project Location




Last updated: 30/10/2026