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E-SALINE: Empowering coastal farmers against salinity intrusion with digital solutions in Bangladesh

Overview

Main partner

ASG-Germany e.V. is based in Germany, founded and led by professionals from Bangladeshi, Nepalese and Indian diasporas. With expertise in development cooperation, sustainability, and urban planning, it promotes human rights, climate resilience, and inclusive development. Through capacity building and advocacy, the organisation has a strong record of integrating gender equality, environmental sustainability, and community empowerment in Bangladesh.



Associate partner

ANTAR aims to enhance the socio-economic well-being of disadvantaged rural communities with a focus on supporting rural farmers through climate-resilient agricultural practices, empowering women through capacity building initiatives, and protecting children by combating child labor, abuse, and trafficking through community-led efforts.



Budget

€ 57.430

Duration

12 months (September 2025 - August 2026)

Sustainable **Development Goals**











Project design

Context & needs

While the Bangladesh Rice Research Institute (BRRI) and the Department of Agricultural Extension (DAE), actively promote climate resilient crop varieties, salinity intrusion remains a crucial vulnerability for the productivity and livelihoods of smallholder farmers in Bangladesh's coastal regions. This project aims to provide farmers with simple tools to measure soil salinity and a mobile app that suggests the best salt-tolerant crops. Through trainings, seed and fertilizer support—especially for women, the project empowers communities to boost yields, strengthen food security, and build resilience to climate

General objective

Enhance crop production, income, and well-being of at least 300 smallholder farmers, especially women, in the salinity-affected coastal regions of Satkhira District of Bangladesh by promoting the adoption of salinity-resilient farming practices and strengthening gender-inclusive farm decision-making.

Specific objectives

- Increasing access of at least 300 smallholder farmers (at least 50% female), to real-time salinity level data for their farm lands through a digital platform for deciding salinity-resilient crop varieties.
- Enhancing the capacities of 300 farmers (at least 50% female) to adopt salinity-resilient and gender-inclusive farming practices in five villages in Sathkhira District.

Target groups

- 300 individual farmers and five community mobilisers (50% female and at least 5% Persons with Disabilities from five villages in Sathkhira District).
- 150 smallholder farm households from five villages.

Programme of activities

Activity 1.1

Activity 1.2

Activity 2.1

Activity 2.2

Activity 2.3



Purchase of Electrical

generate tangible improvements in the well-being of a target community.

E-saline app development for smallholder farmers

Provision of training of trainers on the app & salinity-resilient farming practices to the project team

Provision of training on salinity-resilient & inclusive farming practices to smallholder farmers

Provision of incentive packages to farmers

Conductivity (EC) meters to measure soil salinity

This is a Diaspora for Development (D4D) project of the EU Global Diaspora Facility. D4D grants aim to promote sustainable development by supporting diaspora-led iniatiatives in the country of origin in the areas of climate, economy, education and health. It provides financial support for diaspora organisations to undertake small-scale projects that



