Fact Sheet
Advancing Climate Smart Aquaculture Technologies (ACliSAT)
A means for poverty reduction and food security

Introduction

Aquaculture is one of the fastest growing animal protein producing sectors in the world, rapidly expanding into new ecological horizons through adoption of advanced technologies in cage culture systems, integrated pond aquaculture systems, recirculating aquaculture systems, aquaponics, etc. Water scarcity - in terms of quantity and quality - remains the most critical challenge for aquaculture expansion. As a result, arid lands and other water-poor territories have been ignored as potential areas for aquaculture development. With increasing competition for water and arable land, aquaculture operations must turn to new frontiers including such arid and semi-arid lands. Aquaculture in arid areas requires production strategies focused on efficient water management.

Project goals

The overall goal of the programme (2019 - 2023) is to achieve economically vibrant and climate smart sustainable increase in fish production and productivity for food security, nutrition, income generation and livelihood improvement.

Background

The ACliSAT project aims to improve pond designs for efficient water utilization, and adopt improved fish feeding practices, as well as adaptation of improved culture practices of Nile Tilapia to stimulate growth in emerging and existing aquaculture sectors in the three target countries (Egypt, Ethiopia and Eritrea). With over 80 per cent of poor people living in rural areas and

The (ACliSAT) project targets:

- 1000 farmers adapted the improved pond aquaculture systems.
- Training of 45 local aquaculture expert and extension staff on BMP
- Training of 30 post-harvest practitioners on best harvest handling and processing practices.
- Scaling of water efficient culture systems

Donor

- The International Fund for Agricultural Development (IFAD)

Partners

- Egypt: The Central Laboratory for Aquaculture Research (CLAR),
- Ethiopia: Bahr Dar University (BDU)
- Eritrea: Ministry of Marine Resources (MMR), State of Eritrea

dependent primarily on agriculture, any intervention that targets increased productivity would have a significant impact on poverty reduction and food security. Aquaculture systems that optimize water use efficiency are an important for generating employment for women and youth in remote communities and improve rural livelihoods.

Project components

ACliSAT is aiming to create sustainable increase in aquaculture production and productivity for food security, nutrition and income generation of fish farmers in semi-arid environment in Egypt, Ethiopia and Eritrea. The project components are:

Component 1: Optimization and piloting of climate smart arid land aquaculture technologies and systems.

Activities include: Testing and utilization of genetically improved seed; Formulation of quality fish feed through local available materials; and, Testing of water-efficient culture systems.

Component 2: Capacity building and upscaling of enterprises and support for developing pro-poor market linkages and value chains through scientific collaboration with national partners.

Component 2 activities include: Capacity building to improve technical capacities of national aquaculture researchers and technicians; and Support curriculum development for national training institutions in arid areas aquaculture in seven technical areas.

Component 3: Project Management, Monitoring and Evaluation, and Knowledge Management.

Component 3 activities include: Project Management, Monitoring and Evaluation; Communication Strategy and Knowledge Management; and Scaling and Sustainability.

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