

**PROJECT DESCRIPTION****EMAG Water and Food Security Project****Senegal****I. Introduction**

This appendix describes the activities to be undertaken and the results to be achieved with the funds obligated under this Agreement. Nothing in this Appendix A shall be construed as amending any of the definitions, conditions, or terms of the Agreement.

**II. Background**

The Economic Interest Group Experimentation and Modernization of Agriculture ("EMAG") is an organization of 97 small farmers who live near Boraya village, in Sedhiou. Nearly all residents of the village depend on agriculture for their livelihoods. Traditionally, the Casamance River has provided enough water for the farmers to cultivate vegetables and citrus crops during the dry season. However, rising salt levels have sharply reduced the amount of arable land. Many local residents have dug their own wells, but these structures are very poor quality and do not provide reliable sources of water. As a result, there is wide spread food insecurity during the dry season. EMAG has helped the residents mitigate the effects of these changing conditions by purchasing seeds in bulk and establishing a common field. However, the organization currently lacks the capacity and resources to address its greatest challenge, which is poor water supply.

**III. Funding****A. ADF Contribution**

The financial plan for ADF's contribution is set forth in Appendix A.-1 of this Agreement. The Parties may make changes to the financial plan without formal amendment, if such changes are made in accordance with Article 8 of the Agreement and do not cause ADF's contribution to exceed the obligated amount specified in Article 4, section 4.1 of the Agreement.

**B. Grantee Contribution**

EMAG and its members will contribute the following:

1. a 16 hectare horticulture plot;
2. small farming implements; and
3. members' labor.

**IV. Project Goal**

The goal of the Project is to improve the living conditions in Sedhiou region.

ADF



EMAG



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## V. Project Purpose

The purpose of the Project is to increase the food security in Boraya as demonstrated by an increase in the number of harvests from 1 per year to 2 per year.

## VI. Project Outputs

By the end of this Project, it is expected that EMAG will achieve the following results.

- A. The amount of irrigated land in Boraya will increase from 0 hectares to 16 hectares by the end of the Project.
- B. EMAG's management capacities will be strengthened so that it will be able to independently manage its water infrastructure and income generating activities. This will be demonstrated by the following:
  - 1. realizing the separation of tasks;
  - 2. implementing a functional accounting system and introducing SYSCOA and ADF standards which are adopted by the members;
  - 3. establishing an accounting and financial management system that fulfills ADF requirements;
  - 4. management routinely providing and using financial statements to trace financial transactions; and
  - 5. management following a procedures manual that sets out the organization's policies.

## VII. Project Activities

EMAG will ensure the following major activities are implemented with the assistance of consultants where necessary.

- A. With the assistance of the ADF Partner organization, EMAG will establish a Project Steering Committee. The President of EMAG will be a co-chair of the committee. Other members will include representatives from the local Non-Government Organization (NGO) Enfance & Paix, the Rural Council, Regional Department of Water Resources, the Regional Department of the Environment, National Agency for Agriculture and Rural Development (ANCAR), and the ADF Technical Partner. The Committee's roles will be to ensure compliance with the terms of reference of the Project, promote the community's interests, and oversee the procurement of goods and services.
- B. Accounting, administrative, and financial management capacities of the group will be improved by the following.
  - 1. EIG EMAG will hire an experienced accountant to manage its finances and work closely with the treasurer and the president. The accountant will operate the EIG's overall financial systems and will advise the management and board on the financial status of the organization. After twelve months, EMAG will be responsible for paying the accountant's salary without ADF assistance.

2. An ACA team will train the accountant and leaders of the EIG on ADF procedures and reporting system. The purpose of this training is to ensure a good understanding of the ADF system for a better management of funds.
3. A consultant will train members of the EIG in organizational dynamics. The goal of this training is to teach members the basics of management, such as the roles of different posts in the office, familiarize them with the organization of regular meetings, and ensure the smooth functioning of the management bodies.
4. A consultant will train members of the EIG in financial and accounting management. The training will enable members to understand basic accounting principles and their usefulness for the organization and in daily life. The training will address accounting best practices, such as double entry bookkeeping, how to organize support documents, and compliance with SYSCOA procedures. It will also include instruction on principles of transparency, accounts control, cash management, and the use of accounting tools, such as balance sheets, and income statements.
5. A consultant will work with the management team to create a procedures manual that establishes internal controls and documents accounting policies.
6. To ensure the successful execution of the activities of the Project, the EIG will purchase equipment and office furniture, procure communication services (telephone, fax, courier and internet), and office supplies.

C. The local infrastructure will be improved.

1. The Project Steering Committee will select a contractor to drill a borehole in EMAG's field, according to the design and requirements described in the technical study. The borehole will have an approximate depth of 330 meters and an hourly capacity of 50 cubic meters, which will ensure all members of the organization access to water during all 12 months a year.
2. EMAG will connect the borehole to an irrigation system, which will be composed of eight large basins and 32 small water storage basins, connected by PVC pipes. The irrigation network will include a main piping system supplying the central basin and secondary pipes linking the central basin with other secondary basins. Water will be pumped to the basins using a simple electric pump, and members will transport water from the basins to their plots using water cans and other small equipment.
3. EMAG will hire a technician to oversee the maintenance of the infrastructure. The technician will ensure that the borehole stays in good condition and is repaired when necessary. Additionally, a consultant will provide a training session to the maintenance technician and members of EMAG about proper maintenance of the infrastructure. The training will also include tips for resolving common problems.
4. EMAG will hire a contractor to build a fence around its 16 hectare agricultural plot. The fence will protect post-winter crops and young plants (vegetables, fruit trees, etc.) against roaming animals. The fence will be designed to prevent monkeys from accessing the field.

D. Agricultural production will be increased.

1. The Project Steering Committee will manage a working capital fund to procure seeds for onions, carrots, peppers, and cabbage.

2. EMAG hire a horticulturalist to provide advice and technical assistance related to vegetable production. The horticulturalist will monitor the implementation of crop management practices, advise members in terms of seed varieties, and provide support in solving problems related to horticultural production.
3. The Project Steering Committee will identify a consultant with expertise in composting techniques. The consultant will provide training on organic fertilizer. This training will allow members to develop their own compost pits, thereby generating their own organic fertilizer.
4. A consultant will train EMAG members on water management practices. The training will be specific to the irrigation system built through the Project. The training will teach members about the optimal use of water to minimize waste.

#### VIII. Roles and Responsibilities of the Parties

ACA in Senegal will provide the standard ADF training in bookkeeping, monitoring and assessment. EMAG is responsible for ensuring the proper management and implementation of the Project. The ADF Partner in Senegal will provide EMAG with technical and management assistance during implementation.

#### IX. Monitoring and Evaluation

ACA in Senegal will closely monitor the activities of EMAG to ensure proper reporting, adherence to the Project Implementation Plan by the Grantee and movement towards the achievement of Project objectives. ACA will continuously assess the Project risks and take remedial actions as needed. Monitoring by ACA will be an important aspect of the on-going coaching and advisory service. ACA will review ADF's quarterly reports and will submit comments and observations to the management of EMAG as part of the on-going performance assessment.