

PROJECT DESCRIPTION
Aderbissinat Pastoral Wells

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 Agadez Region in the north of Niger, located in the Sahara Desert, is one of the most arid areas on the planet. Life in this area is centered around the oases and wells that provide water to sedentary populations, traders crossing the desert in trucks or caravans, and the Tuareg and Peul nomads who move across the area in search of pasture for their animals.

ONG-Tidène, a registered non-profit Nigerien association, was created to launch development activities in this area. ONG-Tidène seeks to increase revenues of local people who are among the most marginalized communities in the country, thereby enabling them to improve their access to medical care and education. Key to these efforts is the promotion of access to water, which supplies drinking water, as well as water for small scale irrigation and livestock. ONG-Tidène has constructed or renovated 80 wells to date and is currently seeking funding to construct an additional 40 wells in five distinct geographical zones.

The Agadez Region is currently the scene of a conflict between the Government of Niger and a movement seeking greater autonomy and representation of the local populations in the conduct of political and economic activity in the region. As a result, international development assistance to the area has largely been halted. Because of the conflict, water development activities are feasible in only two of the five target zones, even by local development organizations. ONG-Tidène proposes to develop seven pastoral wells in one of those zones, the Rural District of Aderbissinat, to meet local demand for livestock and drinking water in the area.

III. Funding

A. ADF Contribution

The financial plan for ADF's contribution is set forth in Appendix A-1 to this Agreement. The Parties may make changes to the financial plan without formal amendment, if such changes are made in accordance with Article 7 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. ONG-Tidène Contribution

ONG-Tidène will provide salaries for its staff and cover all routine overhead expenses of the organization.

IV. Investment Goal

The goal of this investment is to improve the overall socioeconomic and medical status of people in the Aderbissinat Rural District of the Agadez Region of Niger.

V. Investment Purpose

The purpose of the investment is to improve access to water by an estimated 12,000 persons and their livestock in the Aderbissinat Rural District.

VI. Outputs

The primary grant output is seven pastoral wells located in the following communities located near Mio, some 180 kilometers south of Agadez near the road connecting Agadez to Zinder:

- Anou Matikane
- Anou Bagui
- Anou Bouboukre
- Anou Dolé
- Anou Oughoum
- Anou Waizalane
- Anou Zagrene

In addition, well maintenance committees will be created at each location and trained to supervise the use of the wells, effect routine maintenance activities, and to communicate with ONG-Tidène and appropriate authorities in case of important repair or management needs.

VII. Activities

Upon signature of the grant agreement, ONG-Tidène will open a separate (dedicated) project bank account in a local bank to receive disbursement of grant funds. The president and the coordinator will update the project work plan and, with the support of a technical assistant to be recruited by the NGO to supervise the well construction, will conduct a competitive bidding process to select qualified enterprises to carry out the actual well construction activities. Each enterprise selected will provide monthly reports of the work performed to be certified by the technical assistant. The approved reports will allow the enterprises to establish invoices to claim payment from ONG-Tidène. ONG-Tidène may call upon external consultants such as members

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of the French association, Wells of the Desert, or the Nigerien Hydraulic Service in Agadez to provide advice and technical support related to financial and project management.

A. Well construction

Well construction includes four successive steps: sinking of the shaft to the water table; construction of the lining; installation of the water collection system; and construction of the apron and cover. The wells will have an internal diameter of 1.80 meters and an average depth of 48.8 meters.

The technical specifications of the lining are:

Designation	Well of 1.80 m
Internal diameter	1.80 m
External diameter	2.00 m
Thickness of the lining	0.10 m
Cement/concrete mix	300 kg
Number of vertical irons with a diameter 8 mm (per meter)	28
Number of horizontal irons with a diameter 6 mm (per meter)	6
Outdistance between vertical irons	0.21 m

The steel reinforcement of the lining will consist of 28 vertical 8 mm diameter reinforcing rods, connected by horizontal 6 mm reinforcing rods at 15 cm intervals. All concrete and masonry structures will be built with class 250/315 Artificial Portland cement. Lining may be installed gradually from the top down or from the bottom up, depending on the stability of the ground where the well shaft is being dug.

The collection system consists of a filter made from a column of perforated concrete culverts surrounded by gravel. The technical specifications of the collector culverts will be as follows:

Designation	Well of 1.80 m
Height	1.00 m
Internal diameter	1.40 m
External diameter	1.60 m
Thickness	0.10 m
Cement/concrete mix	400 kg
Number of vertical rerod (8 mm)	22
Number horizontal rerod (6 mm)	6
Number of holes 10 mm in diameter inclined at 45°	430

A concrete curbstone, apron, and four watering troughs will be installed at each well's surface to protect users and to prevent water pollution. The curbstone will be 0.50 m in height and 0.40 m in width, of reinforced concrete (300 kg of cement per m³). The apron will be slightly sloped away from the well to allow the surface water to run away from the well.

B. Training

- **Bookkeeping and financial management training**
Bookkeeping training will be provided by the ADF Partner to members of ONG-Tidène's management committee, including the coordinator, accountant, treasurer, general secretary and president, to ensure that ONG-Tidène is able to adequately account for ADF funds.
- **Well maintenance training**
ONG TIDENE will establish a management committee appointed by community members where each well is located. This committee is responsible for monitoring the use of the well, resolution of disputes, and the maintenance of any equipment. This committee will inform ONG-Tidène and appropriate authorities in the event major repairs are required.

VIII. Roles and Responsibilities of the Parties

ONG-Tidène has the primary responsibility for ensuring that the project activities are properly implemented. Within ONG-Tidène, the daily management of the program will be carried out by the president and the program coordinator. They will regularly update the implementation plan, collaborating closely with the ADF Country Program Coordinator and the ADF Partner organization.

IX. Monitoring and Evaluation

The president and the coordinator will regularly undertake monitoring trips to visit the wells. GPS coordinates of each well's location and photographs of progress on well construction will be provided with each quarterly report for each site from the beginning of actual well construction through the release of the final payment for each well. ONG-Tidène will work with the well maintenance committees from each location to generate reports on the use of each well, any problems encountered in the use or management of each well, actions taken to resolve issues encountered, and observations on any impact, positive or negative, noted as a result of the well in each community.

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