



# CLUB DES AMIS DU VILLAGE

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PROJECT: "IMPROVE ACCESS TO WATER FOR THE COMMUNITIES OF TCHEBIDE, KPARATAO AND KPANGALAM – CHATEAU IN THE PREFECTURE OF TCHAOUJJO AND KOMINIDE IN THE PREFECTURE OF TCHAMBA »

## FINAL PROJECT TECHNICAL REPORT

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**« UNE ORGANISATION DE PROMOTION DE LA FEMME ET DE PROTECTION DE L'ENFANCE »**

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## **INTRODUCTION**

The implementation of the activities of the project "Improving access to water for the communities of Tchébidè , Kparatao and Kpangalam - Château in the Prefecture of Tchaoudjo and Kominidè in the Prefecture of Tchamba" , started with the awareness-raising stage of the beneficiary communities on January 7 and 8, 2025. It is implemented by the NGO CAV with the financial support of the COCHRAN Family based in the USA through GlobalGiving .

This report summarizes all activities carried out from January 7 to May 31, 2025.

The following activities were carried out during this period:

- Raising awareness among the population about the project and setting up drilling sites ;
- Carrying out geophysical studies;
- Drilling wells;
- Water pumping and analysis;
- Construction of superstructures and water towers for boreholes:
- Supply of equipment and installation of mechanical and photovoltaic power supply systems;
- Technical and provisional reception of works;
- Monitoring and coordination of project activities.

## **PROGRESS OF ACTIVITIES :**

### **1. RAISING AWARENESS OF THE POPULATION ABOUT THE PROJECT AND SETTING UP DRILLING SITES:**

The awareness-raising sessions took place on January 7 and 8, 2025 in the 4 localities benefiting from the drilling project for the year 2025.

During these awareness sessions, the beneficiaries were provided with information on their responsibilities to now take charge of the management and maintenance of the structures to be built.

### **2. GEOPHYSICAL STUDIES:**

Geophysical studies were carried out in the project's beneficiary communities from January 11 to 14, 2025. These studies revealed the existence of abundant groundwater between 80 and 180 meters deep.

### **3. DRILLING, DEVELOPMENT AND EQUIPMENT OF STRUCTURES**

Well drilling and development work was successfully completed at the 4 project sites from January 16 to 19, 2025.

The technical data are recorded in the table below

**Table 1 - Drilling results**

No.	Region	Prefecture	Canton	Villages	Place name	Drilling date	Depth (m)	Drilling flow rate (m <sup>3</sup> /h)	Status
1	Central	Tchamba	Adjeide	Kominid	Center	01/16/2025	75	5,687 <sup>1</sup>	Positive <sup>2</sup>
2	Central	Tchaoudjo	Lama tessi	Abatchang	Tchebide	01/17/2025	70	7,920	Positive
3	Central	Tchaoudjo	Karatao	Kparatao	Library	01/18/2025	95	2,350	Positive
4	Central	Tchaoudjo	Kpangalam	Kpangalam	Castle	01/19/2025	85	15,300	Positive

#### **4. PUMPING AND PHYSICO-CHEMICAL AND MICROBIOLOGICAL ANALYSIS OF BOREHOLE WATER:**

The pumping of the boreholes was carried out two (2) weeks after the drilling stage. It took place from February 5 to 10, 2025. The pumping data is shown in the table below:

**Table 2 – Pumping results**

Region	Prefecture	Canton	Villages	place name	Actual flow rate (m <sup>3</sup> )	Static Level (m)	Dynamic Level (m)	Pump installation dimension (m)
Central	Tchamba	Adjeide	Kominid	Center	6,800 <sup>3</sup>	6.52 <sup>4</sup>	70 <sup>5</sup>	73 <sup>6</sup>
Central	Tchaoudjo	Lama tessi	Abatchang	Tchebide	12,000	12.70	35	40
Central	Tchaoudjo	Karatao	Kparatao	Library	5,700	5.83	65	75
Central	Tchaoudjo	Kpangalam	Kpangalam	Castle	14,200	6.05	30	45

At the end of the pumping, water samples were taken for physicochemical and bacteriological analyses at the laboratory of the Regional Directorate of Hygiene and Sanitation. The analyses were carried out from February 5 to 11, 2025.

The results of the analyses were deemed satisfactory and fully meet WHO (World Health Organization) standards.

#### **5. CONSTRUCTION OF SUPERSTRUCTURES AND WATER TOWERS FOR BOREHOLE:**

Following the conclusive results of the physicochemical and microbiological analyses, the construction phase of the superstructures and water towers in the project locations has begun.

<sup>1</sup>This is the apparent flow rate. The next step (pumping) will give the actual flow rate of the borehole. Pumping increases the borehole flow rate.

<sup>2</sup>For a borehole to be positive, it must be at least 40 meters deep and have a flow rate of 0.300 m<sup>3</sup> per hour.

<sup>3</sup>This is the actual flow rate, the one measured after pumping. Here, it increased by 1,113 m<sup>3</sup> (6,800 – 5,687).

<sup>4</sup>This is the upper level of the borehole water, or the distance at which the borehole water is first visible.

<sup>5</sup>This is the lower level of the borehole water, i.e. the level at which the borehole water stops regardless of the duration of pumping.

<sup>6</sup>As the water level is 70 meters regardless of the pumping duration, the pump to be installed must therefore be below 70 meters, therefore 73 meters.

Ten (10) days after the manufacture of the concrete blocks, the construction work of the superstructure (coping, fence, anti-quag, hedgehog slab, channel, settling tank and lost well) of the human-powered drilling of Tchébidè was carried out from March 5 to 8, 2025.

The construction of water towers for the photovoltaic drilling of the Kparatao library , Kpangalam -Château and Kominidè , was carried out from March 1 to 30, 2025. Several actors (scrap metal workers, carpenters, masons, painters and welders) took turns to ensure the success of the drilling in accordance with the rules of the art.

**6. SUPPLY OF EQUIPMENT AND INSTALLATION OF MECHANICAL AND PHOTOVOLTAIC POWER SYSTEMS**

The equipment was received on April 8 and 10, 2025, at the headquarters of the NGO CAV in Sokodé. All equipment received was certified and compliant with the order specifications.

The human-powered pump in Tchébidè was installed on April 2 and 3, 2025. This pump is of the INDIA brand II type, recommended by the Regional Directorate of Hydraulics and composed of: one (1) head, one (1) spillway, one (1) frame, ten (10) stainless steel pipes of 3 meters each, ten (10) stainless steel rods of 3 meters each and one (1) stainless steel cylinder.

From April 9 to 10, 2025, the solar system was installed in Kpangalam - Château with an extension of five (5) taps allowing the watering of oxen and three (3) taps for the use of the community living near the borehole. It should be noted in passing that this borehole has a flow rate of 14,200 m<sup>3</sup> which can be used by an entire neighborhood.

The same solar system was installed at the Kparatao library from April 13 to 14, 2025 with an extension of three (3) taps to supply the toilets, the interior of the library and the borehole.

Komonidè solar system was installed from April 16 to 17, 2025 with three (3) taps on the borehole.

The three (3) pumps installed on the 3 photovoltaic boreholes have the following characteristics:

**Table 3 – Characteristics of pumps and modules**

Locality	Pumps				Modules	
	Kind	Power	Speed	HTM <sup>7</sup>	Kind	Power per module
Kparatao	Solar	1 Kw <sup>8</sup>	2 m <sup>3</sup> / h	110 m	Monocrystalline	250 Wc <sup>9</sup>
Kpangalam - Castle	Solar	1 Kw	10 m <sup>3</sup> / h	80 m	Monocrystalline	250 Wc
Kominidè	Solar	1 Kw	4 m <sup>3</sup> / h	70 m	Monocrystalline	300 Wc

**7. TECHNICAL AND PROVISIONAL ACCEPTANCE OF WORKS:**

The technical and provisional acceptance of the works took place on May 28 and 29, 2025 in the presence of local authorities, leaders of farmers' organizations, women's organizations and village development committees, Water Committees. The companies implementing the project , including GOOD LUCK and LASSISSI, respectively the drilling and construction company, and the one specializing in solar energy, also took part in the reception ceremonies in the various localities benefiting from the project.

<sup>7</sup>HTM = Total Manometric Height (depth of the borehole + distance between the borehole and the castle + height of the castle)

<sup>8</sup> Kw (kilowatt): unit of power, multiple of watt, and worth 1000 watts.

<sup>9</sup> Wc (Watt- crete ) is an indication based on a standard. It corresponds to the maximum electrical power that can be supplied by a module under standard temperature and sunlight conditions. 1 Kwc = 1000 Wc

The project team, the contractors and the quality controller took turns speaking to provide advice to the population on the proper use and management of the works carried out.

The populations through local authorities and water committees expressed through moving testimonies their thanks to the COCHRAN Family for its financial support.

**For the chief of the village of Tchébidè ,** " Since we settled in this village with our parents, our mothers and wives used to fetch water from a river, which was sometimes very dirty. Before we can drink this water, it has to be allowed to settle. The women return home late because of the distance from the river. Now, with this new borehole, which the NGO CAV and its partner built for us, the water never ends and is drinkable. I thank the NGO and its partner for their support, and may God bless them."

**For the women's leader of Tchébidè ,** "before, we had difficulty having water in our homes. We were always late preparing the evening meal. The children were also always late for school because very early in the morning they had to go looking for water to wash. The NGO and its partner built a borehole for us, we have water nearby, we are relieved."

**The women's representative of Kpangalam -Château** gave thanks to God for the new borehole and praised the Lord for blessing the Donor. "We are very happy for the construction of this borehole. With this new borehole, no more chores to search for water in the wells that dry up during the dry season. We are very satisfied and we wish a very long life to the COCHRAN Family . "

**The President of the herders' group and neighborhood leader believes that** "in the locality, we encounter water difficulties during the dry season. The water in our wells dries up. We have livestock and we have to take them very far from the village to a river to water them. Today, the donors have drilled a borehole with a water tower that will ease our suffering. We will give our animals water morning, noon, and night. I thank the NGO CAV and its donor for this support and may God reward you a hundredfold."

**Kominidè 's women's leader** said goodbye to the suffering of water, we are relieved. Before, we went to the river to fetch water. Then came the wells but the water dried up and is not drinkable. Now it is a large borehole that the NGO CAV and its donor have built for us. I give thanks to God and I say thank you to the donor .

**The representative of the chief of the village of Kominidè** said that " before, we could easily find water in the village rivers but now not only do these rivers dry up quickly but also, their waters are dirty. Our women suffer to find water. Today, thanks to the NGO CAV and its partner, we have sufficient and quality water, water that we can drink without fear of water-related diseases."

## **8. COORDINATION AND MONITORING OF PROJECT ACTIVITIES.**

Monitoring was carried out by the project team. This team is composed of the Coordinator, the Accountant and the Cashier of the NGO. Monitoring tours of the drilling work were organized during the geophysical studies, drilling and water pumping work and the construction of superstructures and the supply of equipment and installation of mechanical and photovoltaic power systems.

Telephone, email and WhatsApp contacts were exchanged between the project team, the companies and the project's technical monitoring manager.

Done in Sokodé, June 16, 2025.

For the NGO CAV, the Coordinator



A handwritten signature in blue ink, appearing to be "Ousmane", written in a cursive style.

**GBELE-GUEWE Djobo Ousmane**

**ANNEXES : SOME PHOTOS OF THE ACTIVITIES CARRIED OUT**



*Awareness raising in the Tchébidè community on January 7, 2025*



*Geophysical studies on the Kominidè site on January 11, 2025*



*Drilling of wells on the site of the village of Kominidè on January 17, 2025*



*Pumping of the Kparatao Library borehole on February 8, 2025*



*Receipt of photovoltaic equipment on April 10, 2025 at the NGO headquarters*





*Installation of the manual pump on the Tchébidiè borehole on April 2, 2025*



*View of the Tchébidiè human-powered drilling rig*



***Technical and provisional acceptance of the Tchébidè human-powered drilling on May 28, 2025***





*Technical and provisional acceptance of the Kpangalam-Château photovoltaic drilling on May 28, 2025*





***Technical and provisional acceptance of the photovoltaic drilling of the Kparatao Library on May 29, 2025***





*Technical and provisional acceptance of the photovoltaic drilling of the Kominidè Library on May 29, 2025*

