

PD-ABS-890  
107331

## **FINAL REPORT**

### **WATER / SANITATION PROJECT**

#### **SUPPORT FOR AN EMERGENCY RESPONSE**

#### **TO FLOOD VICTIMS**

#### **IN SOUTHERN PART OF THE SOFALA PROVINCE IN MOZAMBIQUE**

**PERIOD OF AGREEMENT: APRIL 1, 2000 – AUGUST 31, 2000**

**GRANT N° 656-G-00-00-00039-00**

**TOTAL BUDGET FROM USAID: 199,264 \$US**

Grantor:

*U.S. Agency for International Development  
Mission to Mozambique*

Recipient:

*Action Contre la Faim*

Desk Officer in Paris:

Head of Mission in Mozambique:

M. Jean-Marc Jouineau

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## 1. INTRODUCTION

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In the first half of February a succession of floods and cyclone Eline struck central and southern Mozambique. Additionally, in Southern part of Sofala Province a third flooding was experienced when the Sluice gates of Chicamba dam were opened due to a combination of high capacity in the reservoir and structural damage. The Buzi valley was flooded as a result of the three floods and additional cyclone. Large sections of the community had to seek refuge, without drinking water or food, from the ever rising floodwaters in either the tops of trees, on the roofs of buildings or on higher ground.

Whole communities from Machanga, Buzi and Chibabava Districts were affected by loss of crops, livestock, homes food and none food items (cooking utensils, tools for cultivation, seeds, clothes, etc.).



*Flood in Southern Part of Sofala Province*

Action Contre la Faim reacted to the emergency in the most affected areas of Southern part of the Sofala province through general food distribution, distribution of seeds and tools and non-food items, emergency water supply and rehabilitation of water points as well as rapid nutritional & food security assessments in the most isolated and therefore by default, vulnerable areas.

Moreover Action Contre la Faim is present in Gaza (Xai-Xai and Chibuto district) province to provide support in nutrition and water supply.<sup>1</sup>

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<sup>1</sup> These operations have been implemented thanks to the co-funding with ECHO (540,000 US\$), WFP (90,000 US\$ + food), SAH (80,000 US\$), UNICEF (75,000 US\$) and USAID (199,264 US\$)



*Flood victim's refugee on islet*

## **2. OBJECTIVES OF OPERATION**

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### **2.1. General Objectives:**

Decrease the risk of waterborne plus other diseases and prevention against cholera through provision of drinkable water and proper sanitation.

### **2.2. Specifics Objectives:**

- Temporary distribution of water  
Filling a tank with water, using a submersible electric pump installed in a borehole or well. This water was disinfected and then redistributed to water fountains that will be set up. ECHO supported the equipment
- Chlorinating of water at the household level  
The objective was to distribute chlorine products so those household water supplies can be chlorinated, as mentioned in the National Health Policy.
- Emergency disinfecting, chlorinating of water points  
This activity consisted of a cleaning of the water point and disinfecting. Action Contre la Faim proposed to chlorinate the open wells and the boreholes which have been contaminated.
- Rehabilitation of existing water points to return in use  
The objective was to repair the hand pump, which are not functioning in order to return wells to use. A minimum rehabilitation was required (the platforms of the boreholes, repair the head wall and protection for the dug well) in order to insure the protection of the water supply source by keeping out contamination caused by surface runoff.

### 3. IMPLEMENTATION OF OPERATION:

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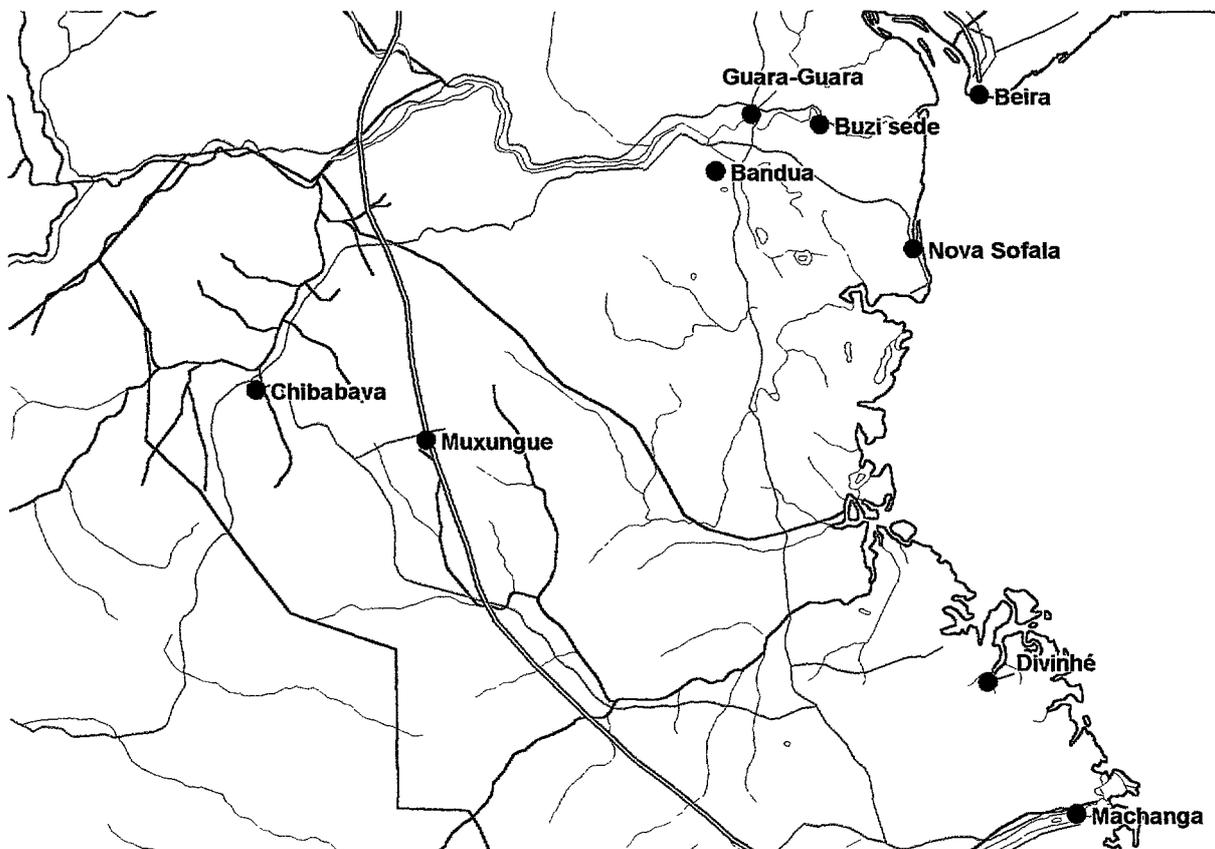
#### 3.1. General explanation

The activities financed by USAID took place mainly in Buzi District in term of water point rehabilitation and in the 3 affected districts of the Southern part of Sofala (Buzi, Machanga and Chibabava) for the distribution of the chlorine.

Due to the high density of population, Action Contre la Faim concentrated on the cleaning, disinfecting, rehabilitation activities in the following areas: Buzi town and neighboring area, Guara-Guara area and Bandua Post Administrative.

The outputs of the operation can be summarized as follow:

- One temporary distribution system (20,000 liters per day) in Guara-Guara displaced camp
  - Emergency disinfecting and daily chlorinating of water points before doing the rehabilitation;
  - 64 water points return in to use: 26 in Buzi area, 34 in Bandua area and 4 in Chibabava district;
  - Distribution of 15,459 liters of chlorine means a cumulative of 50,392 families received chlorine during the period of distribution.
  - 1,148 seminaries to explain the using of chlorine at the household level
- The 2 last activities were implemented with Kulima, (Mozambican NGO).



*(Map of the Southern Part of Sofala, where Action Contre la Faim implemented operation)*

OPERATIONAL OBJECTIVE	MEANS and ACTIVITIES	RESULT and IMPACT INDICATOR	DIFFICULTIES ENCOUNTERED
<p><b>Chlorinating of water at home</b></p>	<ul style="list-style-type: none"> <li>• Kulima has implemented this activity.</li> <li>• One program coordinator was responsible to coordinate activities between the 3 districts, (Chibabava, Machanga, and Buzi district)</li> <li>• One supervisor and six animator in each district</li> <li>• Each animator went to different place every days to distribute chlorinated solution</li> <li>• Each animator did chlorine control of the water at home</li> <li>• Each animator explain to the people who come at the distribution point, how, why and quantity of chorine mother solution to use</li> <li>• Each animator organize education session with the population to explain hygiene behavior related to water and how to use chlorine</li> </ul>	<p><b>Buzi district:</b></p> <ul style="list-style-type: none"> <li>• 7,811 liters of chorine mother solution distributed</li> <li>• 27,333 families received solution</li> <li>• 573 education sessions with the participation of 7,550 persons</li> <li>• Out of 1,436 chlorine control of the water in the household, 84% were positive.</li> </ul> <p><b>Chibabava District:</b></p> <ul style="list-style-type: none"> <li>• 2,671 liters of chlorine mother solution distributed</li> <li>• 7,848 family received solution</li> <li>• 289 education session with the participation of 7,863 persons.</li> <li>• Out of 553 chlorine control in the household, 73% were positive.</li> </ul> <p><b>Machanga District:</b></p> <ul style="list-style-type: none"> <li>• 4,977 liters of chlorine mother solution distributed</li> <li>• 15,211 families receive solution</li> <li>• 286 education session with the participation of 6,207 persons</li> <li>• Out of 1,757 chlorine control in the household, 62% were positive</li> </ul>	<ul style="list-style-type: none"> <li>• Difficult information feed back from KULIMA</li> <li>• Communication difficulties between supervisor and animator in the field.</li> <li>• Necessities for ACF team to collect information from the field</li> </ul>

OPERATIONAL OBJECTIVE	MEANS and ACTIVITIES	RESULT and IMPACT INDICATOR	DIFFICULTIES ENCOUNTERED
<p>Emergency disinfecting, chlorinating of water points</p>	<ul style="list-style-type: none"> <li>● 1 team constituted of one supervisor, and 4 labors, using dewatering equipment for well cleaning</li> <li>● 1 team constituted of one supervisor, and 4 labors, using flushing equipment for borehole cleaning</li> <li>● Daily chlorinating of wells until rehabilitation</li> </ul>	<p><b>Buzi area:</b></p> <ul style="list-style-type: none"> <li>● 7 wells cleaning after flood and daily chlorinating</li> <li>● 19 borehole cleaning after flood</li> </ul> <p><b>Bandua area:</b></p> <ul style="list-style-type: none"> <li>● 9 wells cleaning after flood and daily chlorinating</li> <li>● 25 borehole cleaning after flood</li> </ul> <p><b>Chibabava area:</b></p> <ul style="list-style-type: none"> <li>● 1 wells cleaning after flood and daily chlorinating</li> <li>● 3 boreholes cleaning after flood</li> </ul> <p><b>Water analyses:</b> Out 107 analysis, 87% have less than 5 fecal coliformes / 100ml</p>	<ul style="list-style-type: none"> <li>● Difficulties to access the water point during the flood, therefore a small field of action due to access mainly by foot with the equipment (than bigger range when access by car has been possible)</li> </ul>

OPERATIONAL OBJECTIVE	MEANS and ACTIVITIES	RESULT and IMPACT INDICATOR	DIFFICULTIES ENCOUNTERED
<p>Rehabilitation of existing water points</p>	<p><b>Buzi:</b></p> <ul style="list-style-type: none"> <li>• One supervisor who manages 2 teams constituted of 1 mason and 2 assistants plus labors.</li> <li>• One boat was used for the transport of the team and material</li> </ul> <p><b>Bandua:</b></p> <ul style="list-style-type: none"> <li>• One supervisor who manage 2 teams constituted of 1 mason and 2 assistants plus labors</li> <li>• 1 team to prepare the stone</li> </ul> <p>Each base was using a car (including driver) Truck was used to transport material from Beira.</p>	<p><b>Buzi area:</b></p> <ul style="list-style-type: none"> <li>• Rehabilitation of 25 water points:                             <ul style="list-style-type: none"> <li>- 18 pumps repair with well/borehole protections</li> <li>- 3 protections of well/borehole</li> <li>- 4 new pumps installed with well/borehole protection</li> </ul> </li> </ul> <p><b>Bandua area:</b></p> <ul style="list-style-type: none"> <li>• Rehabilitation of 31 water points:                             <ul style="list-style-type: none"> <li>- 6 pumps repair with well/borehole protections</li> <li>- 15 pumps repair</li> <li>- 4 protections of well/borehole</li> <li>- 6 new pumps installed with well/borehole protection</li> </ul> </li> </ul> <p><b>Goonda area: Chibabava District</b></p> <ul style="list-style-type: none"> <li>• Rehabilitation of 4 water points:                             <ul style="list-style-type: none"> <li>- 1 pumps repair with well/borehole protections</li> <li>- 3 pumps repair</li> </ul> </li> </ul> <p><b>Water analyses:</b> Out 56 analysis, 96% have less than 5 fecal coliformes / 100ml</p>	<ul style="list-style-type: none"> <li>• Difficulties of access by road</li> <li>• In Buzi, only access by boat, therefore the transport of heavy building material (sand, stone, cement) has been difficult.</li> <li>• In Buzi area, no stone available on site, compulsory to send it from Beira.</li> <li>• In Bandua area, long distance and destroyed road to access stone.</li> </ul>



*(Many water points were under water during flood period)*



*(Some water points have been rehabilitated in appropriate way in order to protect from flood)*

**3.2. Implementation timetable:**

	Mars	April	Mai	June	July	August
Water distribution system						
Chlorinating distribution						
Cleaning/disinfecting of water points						
Emergency repairs of pumps						
Water points rehabilitation						

**3.3. Difficulties encountered in implementation:**

The most important difficulty was the access. During the first phase, the only means of accessing the beneficiaries was linked to the availability of helicopters as they were used in priority on food aid operation. The alternative was to travel by boat in certain areas only. From June onwards, it became possible to travel by 4wd truck in every part of the district, which allow to transport building material for the rehabilitation.

**3.4. Changes to contract of an operational nature:**

The budget modification requested on July 24, 2000 and approved on August 24, 2000 has allowed to increase the number of water points cleaned and rehabilitated.

**3.5. Objectives achieved compared with initial objectives:**

	<b>Initial Objectives</b>	Buzi	Chibabava	Machanga	<b>Effective Realization</b>
<b>Distribution of chlorine: N° of families</b>	<b>1,500 families / week / zone</b>	Average 2,135 families per week	Average 613 families per week	Average 1,188 families per week	<b>Average 1,312 fam. / zone / week</b>
<b>Education session: N° of persons</b>	<b>Not specified</b>	7,550 pers.	7,863 pers.	6,207 pers.	<b>29,170 pers.</b>
<b>Cleaning / Disinfecting</b>	<b>60</b>	60	4		<b>64</b>
<b>Pump reparation</b>	<b>40</b>	39	4		<b>43</b>
<b>Rehabilitation<sup>2</sup></b>	<b>40</b>	41	1		<b>42</b>
<b>Total number of water point</b>	<b>60</b>	60	4		<b>64</b>

Note : The low number of beneficiaries in Chibabava district could be explained by the lack of awareness about the use of the chlorine, as this activity of distribution is very new in the area and the population's knowledge about basic hygiene is low.

<sup>2</sup> Out the 40 water points which have been rehabilitated, 10 have been equipped with a new hand-pump (funded by Echo)

#### **4. BENEFICIARIES :**

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The beneficiaries concerned are the families' victims from the flood in Southern Part of Sofala. They are from three different locations:

- Divinhe and Machanga Post Administrative, (Machanga District)
- Goonda and Chibabava Post Administrative, (Chibabava District)
- Bandua, Guara-Guara and Buzi Post Administrative, (Buzi District)

In total, 50,392 families received chlorine during the period of distribution. All the population of the area of the distribution was targeted but only families coming to the distribution point received chlorine.

29,170 persons have participated at the education session.

For the rehabilitation of the water points, we concentrated our activity along the Buzi valley. Chibabava district did not benefit much of it due to the already dramatically low number of existing water points in the area (excepted for 4 pumps, which have been repair).

The activities have taken place mainly in Bandua, and Buzi Post Administrative, (Buzi District). 64 water points have returned to use and benefit to 32,000 persons<sup>3</sup>.

#### **5. MONITORING & EVALUATION**

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Action Contre la Faim is closely working with the Mozambican authorities, in order to collect information and evaluate need.

- At the Provincial level: We were a active member in the sector meeting (Food/logistic; Shelter/accommodation; Agriculture; Water/sanitation/health) where the concerned technical department are present, all the strategy of intervention and the coordination of between the different actors are decided. With INGC (disaster management office) which is the office who coordinate all the actions.
- At the District level: The administration of Buzi, Machanga, and Chibabava, the chief of the administrative post and locality in the targeted area, all the concerned departments (health, public works, accommodations, management of catastrophes, and more particularly of water).

Action Contre la Faim co-ordinated and also collected information from the following NGOs / organizations: Médecins du Monde (MDM), WFP, Red Cross, Concern, GTZ, THW, Cap Anamur, FHI, Dorcas Aid. In Action Contre la Faim's zone of intervention, the team received information mainly from MDM, which was in charge of the medical activities and from FHI, which was in charge of the food aid operation and therefore covering the area.

In Chibabava district, we were collecting information from the people at the food distribution point (Action Contre la Faim was in charge of food aid operation).

More over, field surveys have been carried out in most of the part of the area.

After completion of any rehabilitation an official identification form from the Water Directorate was filled and transmitted to the provincial Water Directorate (DPOPH).

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<sup>3</sup> According to our experience in Sofala, we estimate of about 500 persons users per water point

## **6. FINANCIAL ASPECTS**

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*(See appendix 1)*

The budget made available by the USAID to Action Contre la Faim, within the grant NB 656-G-00-00-00039-00 was 199,264 US\$.

The total amount has been spent for the implementation of the project, between the 1st of April 2000 and the 31st of August 2000.

The breakdown of expenses is the following:

### **6.1. International Staff**

- One water/sanitation engineer during five months. Total expenditure of 18,367 USD (100% of the budget).
- One administrator during five months. Total expenditure of 19,000 USD (100% of the budget).

### **6.2. National Staff**

National staff, we have had a total expenditure of 36,861 USD (101.80% of the budget) which has been used to finance the different teams to rehabilitate and chlorinate water points and awareness of the communities using them.

### **6.3. Supplies Water and Sanitation**

The total expenditure has been of 33,368 USD (99.30%).

With this budget we have been able to finance the chlorinating material, the construction materials, tools, dewatering equipment, spare parts for water pumps Afridev, water analysis kit, for the rehabilitation of the water points affected by the floods in the Chibabava and Buzi districts.

### **6.4. Logistics**

We have spent a total amount of 55,105 USD (98.70% of the budget) having an average of 1,2 trucks and 3 cars during the five months. We have also financed with this amount the international airfreight from Thailand of some water equipment.

### **6.5. Other cost**

The total expenditure has reached to 11,666 USD (102.26% of the budget). We have financed communication costs, office expenses and some costs of the storage on the field.

## **7. CONCLUSION**

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Cholera or other disease epidemics have been avoided partly thanks to the chlorine distribution campaign and water use awareness carried out in Southern part of Sofala. Moreover, this operation has permitted to provide clean water to 32,000 persons (mainly in Buzi district) affected by the floods, thanks to the rehabilitated water points.

Now, the emergency situation is over and living conditions of the population have been improved a great deal.

Action Contre la Faim is currently working at the community level to insure the sustainability of those water points. For each water point, a community management committee will be responsible for pump maintenance, with financial contribution, and providing to the pump caretakers a proper training on pump maintenance.

## Action contre la Faim

EMERGENCY RELIEF FOR VICTIMS OF FLOODS: Water, sanitation and non food distribution

Reporting period: from 04/01/2000 to 08/31/2000

GRANT N°: 656-G-00-00-00039-00

	Budget	Expenses	Balance	%
International Staff	37 367,00	37 366,67	0,33	100,00%
National Staff	36 210,00	36 821,62	-611,62	101,69%
Supplies Water & Sanitation	33 605,00	33 368,13	236,87	99,30%
Logistics	55 836,00	55 095,30	740,70	98,67%
Other direct costs	11 408,00	11 631,10	-223,10	101,96%
Total direct costs	174 426,00	174 282,82	143,18	99,92%
Indirect costs (14.24%)	24 838,00	24 817,87	20,13	99,92%
GRAND TOTAL:	199 264,00	199 100,69	163,31	99,92%

## Appendix 2: List of water points rehabilitated.

**Cleaning**

Nº	Districto	Sitio	Tipo	Nº F	Nº P	Trabalho feito	PAS	REP	B.N	LIP	Terminado
1	Buzi	Cadeia	poço	0	1	Limpeza so	0	0	0	1	19/08/2000
2	Buzi-Bandua	Chigoio 1	furo	1	0	Limpeza so	0	0	0	1	07/08/2000
3	Buzi-Bandua	Chigoio 4	furo	1	0	limpeza so	0	0	0	1	09/08/2000
4	Buzi-Bandua	Mantutou baxo 3	furo	1	0	limpeza so	0	0	0	1	29/08/2000

**Cleaning + repairing pumps**

Nº	Districto	Sitio	Tipo	Nº F	Nº P	Trabalho feito	PAS	REP	B.N	LIP	Terminado
1	Buzi-Bandua	Chawe	furo	1	0	2 casquilhos, 1 ring, 1 sola, 2 parafusos	0	1	0	1	15/08/2000
2	Buzi-Bandua	Chigoio 2	furo	1	0	2 casquilhos, 1 sola, 1 ring, 2 bobinas	0	1	0	1	07/08/2000
3	Buzi-Bandua	Chigoio 3	furo	1	0	1 sola, 1 ring, 2 casquilhos	0	1	0	1	09/08/2000
4	Buzi-Bandua	Macua	furo	1	0	4 casquilhos, 1 sola	0	1	0	1	03/08/2000
5	Buzi-Bandua	Munanicua 1	furo	1	0	1 sola, 1 ring, 1 bobina	0	1	0	1	12/08/2000
6	Buzi-Bandua	Nhamita - escola	furo	1	0	1 piston, 1 bobina	0	1	0	1	12/08/2000
7	Buzi-Bandua	Nhangundo 4	furo	1	0	1 sola, 1 ring, 1 valva de pé	0	1	0	1	21/07/2000
8	Buzi-Bandua	Nhangundo-N'Fumo 2	furo	1	0	1 sola, 1 ring	0	1	0	1	21/07/2000
9	Buzi-Bandua	Sede - Administraçao	furo	1	0	1 sola, 1 ring	0	1	0	1	14/07/2000
10	Buzi-Bandua	Sede - Masanbucule 1	furo	1	0	1 piston, 4 casquilhos, 4 parafusos, 1 valva de pé	0	1	0	1	15/08/2000
11	Buzi-Bandua	Sede - Masanbucule 2	furo	1	0	1 sola, 1 ring, 4 parafusos, 4 casquilhos, 3 centra. Varetas	0	1	0	1	16/08/2000
12	Buzi-Bandua	Sede - Masanbucule 3	furo	1	0	1 sola, 1 ring, 4 parafusos	0	1	0	1	24/08/2000

Nº	Districto	Sitio	Tipo	Nº F	Nº P	Trabalho feito	PAS	REP	B.N	LIP	Terminado
13	Buzi-Bandua	Sede - Masanbucule 4	furo	1	0	2 bobinas, 4 casquilhos, 3 parafusos, 1 sola, 1 ring	0	1	0	1	28/08/2000
14	Buzi-Bandua	Sede - Zeemane 1	furo	1	0	2 casquilhos, 1 sola, 4 parafusos, 1 valva de pé	0	1	0	1	14/08/2000
15	Buzi-Bandua	Sede - Zeemane 2	furo	1	0	1 sola, 1 ring, 4 parafusos	0	1	0	1	14/08/2000
16	Chibabava	Gonda	furo	1	0	2 bobinas, 2 solas, 2 anel, 4 casquilhos	0	1	0	1	13/04/2000
17	Chibabava	Mutindiri escola	furo	1	0	2 casquilhos	0	1	0	1	13/04/2000
18	Chibabava	Nahapua	furo	1	0	2 bobinas, 2 solas, 2 anel, 4 casquilhos	0	1	0	1	13/04/2000

### Cleaning + platform

Nº	Districto	Sitio	Tipo	Nº F	Nº P	Trabalho feito	PAS	REP	B.N	LIP	Terminado
1	Buzi	Mosquita	poço / b.ele c.	0	1	bocal, tampa	1	0	0	1	22/06/2000
2	Buzi-Bandua	Munanicua-Garanhé	poço privado	0	1	passeio, tampa	1	0	0	1	07/07/2000
3	Buzi-Bandua	Munanucua-Ceramica	poço	0	1	passeio, vai secar	1	0	0	1	11/08/2000
4	Buzi-Bandua	Ussigue 2	furo	1	0	1 sola, 1 ring, 2 bobinas, 4 casquilhos, passeio	0	1	0	1	15/08/2000
5	Buzi-Bandua	Ussigue 3	furo	1	0	1 piston, 1 valva de pé, 2 bobinas, 4 parafusos, 2 casquilhos, passeio	0	1	0	1	15/08/2000
6	Buzi-Guara Guara	Mupambanje	furo	1	0	passeio	1	0	0	1	27/08/2000

Nº	Distrito	Sítio	Tipo	Nº F	Nº P	Trabalho feito	PAS	REP	B.N	LIP	Terminado
7	Buzi-Guara Guara	Mavava	poço	0	1	passeio	1	0	0	1	29/08/2000
8	Chibabava	Magunde	poço / bom ba	0	1	4 casquilhos, 2 cavilas, 1 chupador / valvula de pe	0	1	0	1	27/03/2000

#### Cleaning + repairing pumps + platform

Nº	Distrito	Sítio	Tipo	Nº F	Nº P	Trabalho feito	PAS	REP	B.N	LIP	Terminado
1	Buzi	Lar	furo	1	0	4 casquilhos, 2 sola, 2 anel	1	1	0	1	12/06/2000
2	Buzi	Macobo 1	furo	1	0	4 Casquillos, 2 sola, 2 rings, 1 bielas, 2 bobinas, passeio	1	1	0	1	19/07/2000
3	Buzi	Macobo 2	furo	1	0	Cabeça nova completa, passeio	1	1	0	1	26/07/2000
4	Buzi	Martinote	furo	1	0	4 Casquillos, 1 piston, 3 central. Varetas, passeio	1	1	0	1	23/08/2000
5	Buzi	Massane 1	furo	1	0	cabeça nova completa, passeio	1	1	0	1	10/08/2000
6	Buzi	Massane 2	furo	1	0	cabeça nova completa, passeio	1	1	0	1	10/08/2000
7	Buzi	Massane 3	furo	1	0	cabeça nova completa, passeio	1	1	0	1	16/08/2000
8	Buzi	Massane 4	furo	1	0	cabeça nova completa, passeio	1	1	0	1	17/08/2000
9	Buzi	Massane 5	furo	1	0	2 solas, 2 anel, 1 biela, 4 casquilhos, 1 vareta, passeio	1	1	0	1	22/08/2000
10	Buzi	Massane 6	furo	1	0	2 solas, 2 anel, passeio	1	1	0	1	23/08/2000
11	Buzi	Muchenese 1- Quarta 1 - Escola	furo	1	0	4 casquilhos, 2 solas, 2 anels, 1 cavilhas de biela e alavanca, 1 piston, 1 centralizador de vareta, 1 alavanca, passeio	1	1	0	1	26/07/2000

Nº	Distrito	Sítio	Tipo	Nº F	Nº P	Trabalho feito	PAS	REP	B.N	LIP	Terminado
12	Buzi	Muchenese 2 - Quarta 2	furo	1	0	4 casquilhos, 2 solas, 2 aneis, 2 bobinas, 1 cavilha de biela e alavanca, 2 centralizador de vareta, passeio	1	1	0	1	03/08/2000
13	Buzi	Muchenese 3- Quarta 3	furo	1	0	4 casquilhos, 1 sola, 1 anel, 1 cavilha de biela e alavanca, passeio	1	1	0	1	03/08/2000
14	Buzi	Muchenese 3- Quarta 3	furo	1	0	4 casquilhos, 2 sola, 2 anel, 1 cavilha de biela e alavanca, 1 piston, 1 vareta, 2 bobinas, 3 m de pvc, passeio	1	1	0	1	08/08/2000
15	Buzi	Muchenese 4- Quarta 4	furo	1	0	Cabeça nova completa, passeio	1	1	0	1	08/08/2000
16	Buzi	Muchenese 5- Quarta 5	furo	1	0	4 casquilhos, 2 sola, 2 anel, 1 cavilha de biela e 1 de alavanca, passeio	1	1	0	1	12/08/2000
17	Buzi	Muchenese 6- Quarta 6	furo	1	0	4 casquilhos, 2 sola, 2 anel, 1 cavilha de biela e 1 de alavanca, 4 parafuso nº19, passeio	1	1	0	1	12/08/2000
18	Buzi	Muchenese 7-Quarta 1	furo	1	0	1 sola, 1 ring, 4 parafusos, passeio	1	1	0	1	17/08/2000
19	Buzi-Bandua	Bunha 1	furo	1	0	1 sola, 1 ring, 2 casquilhos, 2 bobinas, 3 parafusos, passeio	1	1	0	1	27/08/2000
20	Buzi-Bandua	Bunha 2	furo	1	0	1 sola, 4 casquilhos, 1 ring, passeio	1	1	0	1	27/08/2000
21	Buzi-Bandua	Munanicua - escola	furo	1	0	1 sola, 1 ring, passeio	1	1	0	1	25/08/2000
22	Buzi-Bandua	Munanicua 2	furo	1	0	1 sola, 1 ring, passeio	1	1	0	1	30/08/2000
23	Buzi-Bandua	Nhangundo 3	furo	1	0	1 piston, 2 rings, 4 porcas, 3 casquilhos, passeio	1	1	0	1	28/08/2000
24	Buzi-Bandua	Nhanrongue - escola	poço	0	1	1 sola, 1 ring, 1 vareta, passeio	1	1	0	1	30/08/2000

**Cleaning + platform (+ new pumps funded by Echo)**

Nº	Distrito	Sítio	Tipo	Nº F	Nº P	Trabalho feito	PAS	REP	B.N	LIP	Terminado
1	Buzi	Barrio da vila. Mussa	poço aberto	0	1	passeio, bomba nova	1	0	1	1	05/07/2000
2	Buzi	Correiro	poço aberto	0	1	Bomba nova, passeio novo	1	0	1	1	23/06/2000
3	Buzi	Fabrica	poço aberto	0	1	passeio, bomba nova	1	0	1	1	26/07/2000
4	Buzi	Hospital	poço / b.ele c.	0	1	Bomba nova, passeio novo	1	0	1	1	30/05/2000
5	Buzi-Bandua	Gurunguire Loja	poço	0	1	passeio, bomba nova	1	0	1	1	18/08/2000
6	Buzi-Bandua	Macua	poço	0	1	passeio, bomba nova	1	0	1	1	07/07/2000
7	Buzi-Bandua	Munanucua-rosalide 1	poço	0	1	passeio, bomba nova	1	0	1	1	28/08/2000
8	Buzi-Bandua	Nhangundo 1	poço	0	1	passeio, bomba nova	1	0	1	1	28/08/2000
9	Buzi-Bandua	Nhangundo-N'Fumo 1	poço	0	1	passeio, bomba nova	1	0	1	1	07/07/2000
10	Buzi-Bandua	Nhanguo 1	poço	0	1	passeio, bomba nova	1	0	1	1	07/07/2000