

Interim report for Foundation Eagle

Donor Name – Foundation Eagle

Charity Name – Osiligi Charity projects

Project Name – Repair of broken hand pumps in Kenya

Foundation Eagle Reference Number - FF 0465-25

Date of grant accepted – 4th September 2018

Name and location of the project - Repair of broken hand pumps in Kenya. These hand-pumps can be anywhere in Kenya.

Period of grant – The money will be spent over 9 months from the 1st January 2019 to the 30th September 2019. This interim report covers the first 3 months, from the 1/1/19 – 31/3/19

Number of Beneficiaries – Estimated at 15,222 people (see the attached spreadsheet). If the repaired pump is at a school, the number is known exactly by the number of students and staff but if the repair is of a village pump, the number is estimated by the community. From our experience, estimates by the community can be wildly out, both on the high and low side.

Conversion rate, date & amount in local currency – The total donation was for £45,000. This covers 9 months of repairs at £5,000 per month. We transfer £5,000 per month to Kenya to cover the cost of repairs. If the exchange rate for the month is favourable, we repair slightly more pumps than months when the rate is unfavourable. The exchange rates achieved for these 3 months were 126.774 & 126.714 Ksh to each GBP. This is the rate obtained from the bank and is about 1.5% less than the mid exchange rate on the day. The total amount used during this 3-month period was £15,000 or 1,901,310 Ksh, one third of the donation.

Detailed budgets and actual expenditure comparison – We budget for £5000 per month for pump repairs and this is what we spent. During the 3 months, the £15000 / 1,901,300 Ksh was made up as follows, in Ksh:

Accommodation	373,633
Food	174,790
Transport	296,275
Car repairs	111,700
Miscellaneous	183,100
Contractors	242,700
Materials	519,090
TOTAL	1,900,588

Amount carried forwards 713Ksh

Most of the pumps are in very inaccessible places. To access the pumps, the charity runs a 12 year old 4 wheel drive Land Cruiser. People and transport costs make up around 50-60% of the costs with 40-50% on contractors and spare parts. This 3 months was 60% expenses and 40% materials.

Over/underspend – The amount spent each month will not exactly equal £5000. At the end of each month, there will be a small amount of money carried over to the next month, which we will add to the next month's spend. The amount carried forwards will usually be less than the cost to repair 1 pump.

A brief history of the project –

There are around 3,600 broken hand pumps in Kenya. For the past 3 years we have been trying to repair as many of these as possible, at a rate of around 200 per year. The cost of repair is a small fraction of the cost of a new bore-hole and pump; for the cost of 1 new installation about 20-25 pumps can be repaired. Up to the end of 2018, the funding for these repairs had come from a legacy. This legacy has

now run-out and since January 2019, the funding from Foundation Eagle has allowed this project to continue. The monthly spend is £5,000 and this will typically repair around 14-20 pumps.

A repaired hand-pump bring 3 separate benefits to the surrounding community: a) relief of suffering by the women and children forced to walk long distances to reach alternative water, b) health benefits by drinking clean water and c) children are able to attend school rather than spending the time collecting water.

Project progress –

This report is for the 3 months of January to March 2019.

During this period, we repaired 39 hand pumps, replaced 20 broken pumps with new pumps and had 3 pumps which are still being worked on.

The Charity splits Kenya into 4 areas and each area has one person who looks after that area. These Regional Contact People (RCP) find the broken pumps in their area and arrange for the pumps to be repaired, either by themselves if a simple repair or by using an outside contractor. The RCPs normally work separately in their own area but will work together if required for complicated projects. At the end of each month each RCP will produce a report detailing their repair work for the month, the amount they have spent that month and an estimate of money required for the next month. A typical report is attached from one of the RCPs. The UK project manager Eric has a weekly Skype conference call with the RCPs.

Prior to December 2018, our project had been to only repair broken hand pumps, so if a location had a broken bore-hole or the pump was beyond economic repair, we had to walk away from the pump. This was the case even for an important water source such as a pump at a school, hospital or the only pump for many kilometres.

In January 2019, we were donated 20 new hand-pumps. These pumps (the Blue Pump) were manufactured by [a Dutch company](#) and were donated by a Dutch charity via the manufacturer. The blue pump is much more reliable than other locally sourced pumps but cost about 3-4 times the price of a local pump. For this reason, nearly all of the pumps installed in Kenya are the cheaper local pumps or pumps made in India. Most of the pumps in Kenya are the Afridev pump. The India Mk1 or 2 are common in deep-water areas. The blue pump can only be used in limited areas of Kenya where its use has been agreed and approved with the county government.

The UK Project Manager Eric McKinnon visits Kenya 1 or 2 times per year to give training, checking on repair quality and checking that previous pump repairs have indeed been done. He visited in January and stayed for 4 weeks. His costs whilst in Kenya (accommodation, transport, food etc) are included in the above cost breakdown. The cost for his flights and visa are accommodated by another charity so is not part of the above cost breakdown. Eric volunteers his time for free.

During January to March 2019, we used £15,000 of Foundation Eagle money to repair or replace 59 broken pumps and attempt to repair a further 3. Of these 59 pumps, 39 pumps were repaired Afridev pumps and 20 pumps were where we removed the broken pump and replaced it with a new Blue Pump. We were only able to install the Blue Pumps in Siaya County where we re-visited pumps that had previously been beyond economic repair. The attached spreadsheet shows the 59 pumps that were repaired or replaced and the 3 pumps that are still work in progress.

Installing a Blue Pump is very labour intensive, costly and involves engaging with the local government. Unfortunately you cannot just remove an existing Afridev pump and install a Blue Pump in its place, as the Blue Pump needs a completely different mount. So we have to employ a local fundi to build a new mount. Whilst the fundi is on site, we usually repair the surrounding plinth which may be many years old and usually broken. The current typical cost of a Blue Pump installation is around £700 including the work, accommodation and transport. The Dutch charity donated the pump and £430 (500 Euros) towards this cost and the small remainder came from Foundation Eagle. Over the next 6 months of Foundation Eagle funding, we are expecting the installation cost of a blue pump to reduce to less than 500€. Once this happens, the cost of the blue pump installation will be completely covered by the manufacturer.

We have attached a spreadsheet that shows the pumps repaired during this period. The location of each pump is noted by its village name and county. Where we can, we also add the GPS or Lat Long data for the pump.

On the attached spreadsheet, column O shows our best estimate of the number of people served by the pumps. We estimate that these 59 repaired pumps helped 15,222 people, the lowest number served by 1 pump was 75 people and the highest was 719 people (a large school). Column X gives an indication of the work that we did on each of these pumps. The repairs mainly consisted of repairing leaking risers, replacing the pump cylinder, metal pump rods, bearing and the rubber water seals.

The 2nd worksheet in the spreadsheet shows some photos from the 59 repaired or replaced pumps.

Attachments:

Spreadsheet showing information on each of the 62 repaired, replaced or work in progress pump.

A letter of appreciation from one of the schools helped by this project.

The monthly report from the RCP

Some of the photos from these 3 months are shown below



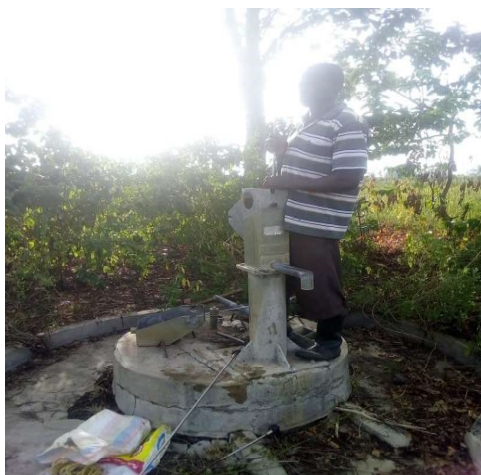
Repairing a broken riser pipe (Mkokwani pump, Kwale county repaired March 2019)



One of the new Blue Pump installations.



Installing a new pump at Umaje



A typical broken 'Afridev' pump (Kosese pump repaired Feb 2019)



The same pump once repaired.