

# Repair of broken hand pumps in Kenya FF 698

Final Report, 26th February 2025

Donor: Fondation Eagle

Date of grant acceptance: 6<sup>th</sup> December 2023

Amount granted: £60,000

Average Exchange rate: 167 KES/GBP (exchanged monthly)

Number of beneficiaries: 145239 people

Location: Southern Kenya

Period of project: 1st January 2024 to 31st December 2024

## Contents

1.	Executive Summary	3
2.	Introduction	3
3.	Identification and locations of broken pumps	4
4.	Pump repairs	5
5.	Data collection and verification	7
App	endix 1: EF-funded pump repairs 2024	8
App	endix 2: Pump repair record keeping	. 10
App	endix 3: Variance of expenditure across categories	. 11
App	endix 4: Photographs of typical pump repairs	. 12

### 1. Executive Summary

This report outlines the progress made from January to December 2024 by the Osiligi Charity Kenyan team in restoring hand-pumps in the rural district regions of Kenya. During this time, the team has restored 379 hand-pumps across 9 counties of Kenya as a result of Eagle Foundation funding, providing access to water to around 145,000 people.

The results show that the annual 2024 goal of 200-250 hand-pumps repaired using EF funding has been significantly surpassed. Despite the rising cost of materials and transport, the average cost of a repair was around 42p per person.

#### 2. Introduction

The aim of the project was to continue to repair and restore non-functional hand-pumps that provide access to ground water to the rural communities of Kenya. The Osiligi charity has restored over 2600 hand-pumps since 2015. However there are still many more to be repaired – probably in excess of 3000 – and each year many pumps break down. The cost of repairing a broken pump is about 20 times lower than that the cost of digging a new well, so it is a very cost-effective activity.

By the end of 2023, the Eagle Foundation (EF) had supported the Osiligi charity for 5 years, resulting in the repair of 1075 pumps, benefiting around 340,000 people. The aim for 2024 was to repair a further 200-250 pumps with EF funding. This report outlines the actual achievements made from January 1st until December 31st 2024.

The Osiligi UK management team, and the team of 7 Kenyan water engineers who oversee the pump repairs, all work as volunteers. The charity does not pay the engineers a salary; however, the charity does contribute a small amount towards their education or the education of their children.

Repairing hand pumps consists of the following steps:

- Locate broken pumps
- Ask the community to appoint a caretaker
- Repair the pump with the help of the caretaker
- Train the caretaker on basic repairs
- Train the community how to generate a water economy from the pump (to pay for future repairs)
- Record keeping and follow up.

Rather than just repairing the broken pumps, it is paramount in each project that the charity gives the local community the resources (spares, knowledge and engineer

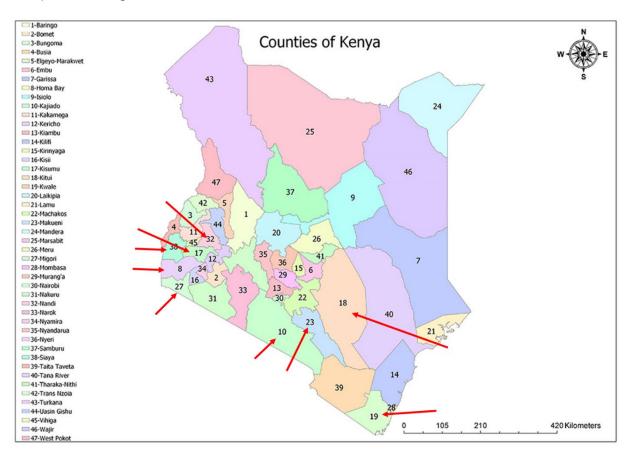
contact details) so that they can perform their own basic repairs and maintenance in order to keep their pumps working for many years to come.

## 3. Identification and locations of broken pumps

To locate the broken pumps, our team of Kenyan engineers work closely with local authorities, MPs, and word of mouth from the communities. Once identified, getting to site can be quite a challenge, often having to resort to getting out of the car and walking to the last stage.

During 2024, the EF-funded pump repairs took place in 9 counties of south and south-west Kenya (Figure 1). Each engineer is responsible for covering one or more regions. Figure 2 shows the number of EF-funded pump repairs undertaken in each county during 2024. In total, **379 pumps** were restored during this period as a result of EF funding.

**Figure 1:** The red arrows denote the 9 (of 47) Kenyan counties where pumps repairs took place during 2024.



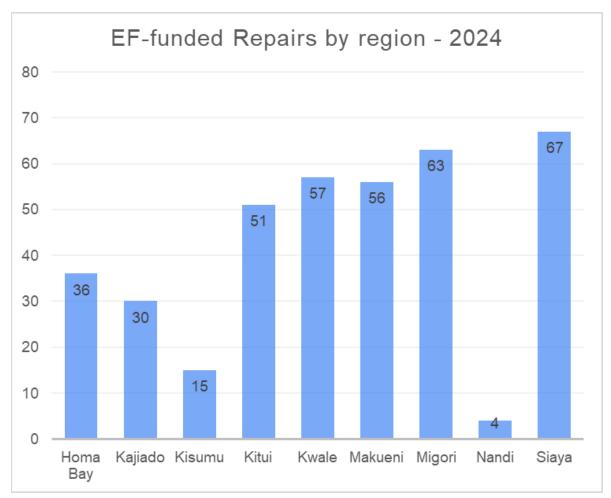


Figure 2: EF-funded repairs during 2024 by location

## 4. Pump repairs

While we can repair any type of hand-pump, we concentrate on Afridev hand pumps as, once repaired, the caretaker can make simple repairs without the need of a winch. He/she is also trained in basic periodic maintenance and operation management due to the conditions imposed by the environment and how a community uses their pump.

There are 5 categories of repair; A to E. Category A is a basic repair where the parts cost less than 5,000Ksh (£27). B will require a more extensive repair where more parts are needed up to a cost of 25,000Ksh (£136). A repairs and B repairs can be carried out by the community if they are available to receive training. Category C is a more extensive repair where risers and rods may have to be replaced, and these costs can

be up to 50,000Ksh (£272). D is where the installation of a new pump is required should the old one be beyond economic repair. E are where additional resources are needed for the repair, such as having to employ a contractor to fish out broken pipes, flush a borehole, broken or damaged plinths, or any civil works. These costs do not include the transport of materials and people to site, any accommodation and meals.

Figure 3 shows that the vast majority of EF-funded repairs in 2024 fell into categories A-C.

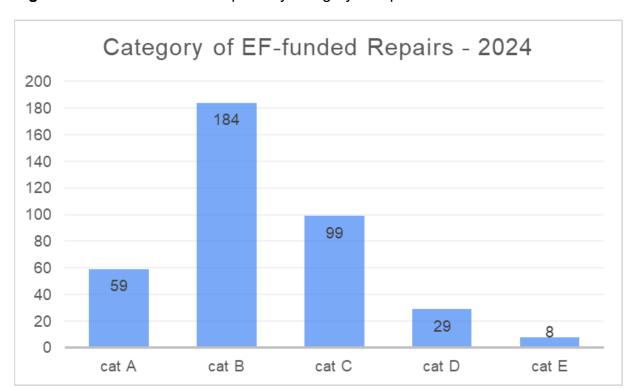


Figure 3: Shows EF-funded repairs by category of repair.

As noted above, a total of 379 pumps were repaired in 2024 as a result of EF funding. These repairs have resulted in the provision of clean water to 145,000 people. Therefore, the average number of beneficiaries per pump repair was 383 (Appendix 1).

The average cost per beneficiary during 2024 was 42p. This is slightly lower than average cost of 45p in 2023 (Appendix 1).

By the end of June 2024, there remained £0 in GBP and 1,177,879 KES (approximately £7,000), which is carried forward into 2025. The carry forward is mainly due to 1,308,096 KES brought forward from 2023 (with Eagle Foundation approval). This carry-forward is therefore reducing in size, and we aim to clear this fully by the end of 2025.

Appendix 3 shows how the funding was spent across different categories as compared to the estimated breakdown in the grant application.

#### 5. Data collection and verification

Data is collected on every pump repaired, and this includes the following information: the date of repair, category of pump repair, the type of repair, type of pump, population served, the number of homes, the county, the village and pump name, exact location (latitude and longitude), whether the borehole is registered and community certificated, photographs, what is the alternative source (cost and distance), the depth and water column, and training. Importantly two caretakers are identified for each pump repair, and their names and phone numbers are also recorded, which allows the pump repair to be verified and followed up (see below).

All this information is submitted by each Osiligi engineer on each of their repairs and is automatically collated onto a spreadsheet. Appendix 2 shows the data collected from a typical month.

At the end of every month, one member of our team has the responsibility to call a caretaker for each pump repaired in the preceding month. This is to verify that the pump is still working. In addition, it is the responsibility of each Kenyan engineer to post photos, with GPS coordinates, onto the Osiligi WhatsApp group. These is also verified by the above team member.

No physical in-country audit was conducted in 2024, following a comprehensive 2.5 month audit by Eric McKinnon (UK-based) in 2023, which showed that all pumps audited were in good working order. It is hoped that the next physical audit will take place in late 2025.

# Appendix 1: EF-funded pump repairs 2024

				By month	ı	Cur	nulative for	2024	
Date	Donations (KES)	Money Used (KES)	Pumps	No. of Users	Cost per user (KES)	Pumps	Users helped	Average cost per	
January 2024	()	()							
Eagle Foundation (£5,041.02 GBP)	950,000								
Brought forward (from 2023)	1,308,096								
Pump repairs	, ,	770,740	34	12395	69	34	12395	69	
Education budget		80,000							
Bank charges		3,000							
Sub-total	2,258,096	853,740							
C/F	, ,	1,404,356							
February 2024									
Eagle Foundation (£5,164.83 GBP)	940,000								
Brought forward	1,404,356								
Pump repairs		664,005	33	12792	58	67	25187	64	
Education budget		80,000							
Bank charges		3,000							
Sub-total	2,344,356	747,005							
C/F		1,597,351							
March 2024		, , , , , , , , , , , , , , , , , , , ,							
Eagle Foundation (£4676.73 GBP)	810,000								
Brought forward	1,597,351								
Pump repairs	, ,	627,150	27	11601	61	94	36788	63	
Education budget		80,000							
Bank charges		3,000							
Sub-total	2,407,351	710,150							
C/F	2,407,001	1,697,201							
April 2024		1,007,201							
Eagle Foundation (£5,061.82 GBP)	803,000								
Brought forward	1,697,201								
Pump repairs	1,097,201	CEE 000	24	44055	67	440	47040	64	
·		655,000	24	11055	67	118	47843	64	
Education budget		80,000							
Bank charges		3,000							
Sub-total	2,500,201	738,000							
C/F		1,762,201							
May 2024									
Eagle Foundation (£4861.33 GBP)	772,000								
Brought forward	1,762,201								
Pump repairs		630,000	28	12387	58	146	60230	62	
Education budget		80,000							
Bank charges		3,000							
Sub-total	2,534,201	713,000							
C/F		1,821,201							
June 2024									
Eagle Foundation (£4879.90 GBP)	793,000								
Brought forward	1,821,201								
Pump repairs		820,000	38	13810	65	184	74040	63	
Education budget		80,000							
Bank charges		3,000							
Sub-total	2,614,201	903,000							
C/F	2,017,201	1,711,201							

				By month		Cun	nulative for	2024	
Date	Donations (KES)	Money Used (KES)	Pumps	No. of Users	Cost per user (KES)	Pumps	Users helped	Average cost per	
July 2024									
Eagle Foundation (£4860.36 GBP)	795,000								
Brought forward	1,711,201								
Pump repairs		787,000	30	11594	75	214	85634	65	
Education budget		80,000							
Bank charges		3,000							
Sub-total	2,506,201	870,000							
C/F		1,636,201							
August 2024									
Eagle Foundation (£5702.01 GBP)	918,000								
Brought forward	1,636,201								
Pump repairs		805,000	28	9561	93	242	95195	67	
Education budget		80,000							
Bank charges		3,000							
Sub-total	2,554,201	888,000							
C/F September 2024		1,666,201							
•									
Eagle Foundation (£4932.96 + £333.7	873,000								
Brought forward	1,666,201	050 000		440=0			400==4		
Pump repairs		850,000	31	11379	87	273	106574	70	
Education budget		80,000							
Admin (computer purchase)*		55,000							
Bank charges		3,000							
Sub-total	2,539,201	988,000							
C/F		1,551,201							
October 2024									
Eagle Foundation (£5727.34 GBP)	943,000								
Brought forward	1,551,201								
Pump repairs		840,000	35	12841	72	308	119415	70	
Education budget		80,000							
Bank charges		3,000							
Sub-total	2,494,201	923,000							
C/F		1,571,201							
November 2024									
Eagle Foundation (£5735.71 GBP)	923,000								
Brought forward	1,571,201								
Pump repairs		840,000	34	12432	74	342	131847	70	
Education budget		80,000							
Bank charges		3,000							
Sub-total	2,494,201	923,000							
C/F	, , , ,	1,571,201							
December 2024		.,07 1,201							
Eagle Foundation (£3165.44 GBP)	507,678								
Brought forward	1,571,201								
Pump repairs	1,57 1,201	818,000	37	13392	67	379	145239	70	
Education budget		80,000	O1	10032	37	010	170200	70	
Bank charges		3,000							
Sub-total	2 070 070				+				
C/F	2,078,879	901,000							
	14 205 774	1,177,879	270	145000	70	270	145000	70	
Grand total (Jan-Dec 2024) C/F GBP £0	11,335,774	10,157,895	379	145239	70	379	145239	70	
Un GDF <b>LU</b>		1,177,879							

## Appendix 2: Pump repair record keeping

(January 2024 as a representative month)

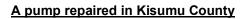
imestamp	Name	UK Pump repair Date (Categories (A - E):	Population (children & Number of Homes:	Type of Repair (parts r County:	District?	Village name:	Pump Name:	Pump Type:	Borehole Registration	Depth of Well/Borehol Wa	ater Column Depth	(Alternative source	Distance of water (ki	m: Cost of water (Ksh)	Latitude	Long	gitutde:
1/23/2024 17:19:4	49 PO	11/01/2024 C	210	Change of plungerNew Siaya		Upanda	Upanda	Afridev	Yes	30m 12i	m					0.11	34.17
1/23/2024 17:30:3	37 PO	11/01/2024 B	321	U sealPlastic bushes Siaya		Dadra	Dadra	Afridev	Yes	27m 8m						0.111	34.22
1/23/2024 17:54:0	07 PO	15/01/2024 B	620	Re installation Siaya		Malomba	Malomba Primary	Afridev	Yes	45m 34i	n	River				0.152	34.17
1/23/2024 18:27:5	59 PO	18/01/2024 B	300	U sealPlastic bushesF Siaya		Sudhe	Sudhe primary school	Afridev	Yes	25m 5m						0.14	34.181
1/23/2024 18:38:0	08 PO	19/01/2024 B	430	Replaced 5 rodsU sea Siaya		Boro	Boro Dispensary	Afridev	Yes	30	2	23				0.088	34.234
1/23/2024 18:44:5	58 PO	10/01/2024 C	234	13 Cylinder replacement I Siaya		Rapenj A	Rapenj A	Afridev	Yes	23m 4m						0.119	34.126
1/24/2024 11:24:4	42 LO	18/01/2024 C	400	25 Footvalve, U-seal , Plas Migori	Kuria East	Masangora village	Kerobert community hand pure	Afridev	No	50tt 30t	t	Spring	2km	None	-1.3	288833	34.567279
1/24/2024 11:40:0	08 LO	18/01/2024 D	600	30 Complete Cylinder pla: Migori	Kuria East, Nyabasi	w Senta village, senta a	ac Senta Academy and communit	Afridev	None	150ft 100	)tt	Water harvesting			-1.3	303237	34.617637
1/24/2024 11:49:0	06 LO	18/01/2024 B	430 None	Footvalve, plunger, 4 s Migori	Kuria East Nyabasi y	w Remanyanki village	Remanyanki primary school	Afridev	None	35ft 20f	t	Bottled Water (or oti	her purchased water)	20/201	-1.3	325413	34.635258
1/24/2024 11:54:2	21 LO	18/01/2024 B	500	35 Foot valve useal Migori	Kuria East Nyabasi y	w Kebaroti village	Kebaroti community hand pum	Afridev	None	40ft 35f	t	Standing (puddle)	1km	None	-1.3	315955	34.623657
1/24/2024 12:00:4	48 LO	18/01/2024 A	600	30 U-seal ,a pair of plastic Migori	Kuria East sub-coun	ty Komotobo village	Komotobo mix secondary scho	Afridev	None	35ft 30f	t	Bottled Water (or otl	her purchased water)	5/201	-1.3	281567	34.614758
1/24/2024 21:57:4	48 VO	11/01/2024 A	350	32 Homa Ba	y Ndhiwa	Kobonyo	Kobonyo Onyando	Afridev	Yes	120	10	4 Alternative Pump		1 2	.5 -0. 643591		34.523762
1/24/2024 22:16:3	33 VO	16/01/2024 A	300	29 Homa Ba	IV.	Kodendii	Kodendii community water pur	Afridev	Yes	69	(	3 Alternative Pump		1 2	.5 -0. 608682		34.505077
1/24/2024 22:46:1	10 VO	22/01/2024 A	250	19 Homa Ba	y Ndhiwa	Kawere	Kawere C water pump	Afridev	Yes	120	10	0 Alternative Pump	0	5 2	.5 -0. 657852		34.436497
1/24/2024 23:07:2	26 VO	22/01/2024 A	300	29 Homa Ba	v Ndhiwa	Maskla	Maskla primary school water p	Afridev	Yes	60		0 Alternative Pump		1 2	5 -0. 580979		34,509535
1/28/2024 12:18:1	19 SK	24/01/2024 B	200	10 Seal, bobbin, plastic be Makueni	Makindu	Soto	Sakimu well	Afridev	Shallow well	23		6 Alternative Pump		3	5 -2.349322°	37.85	15836°
1/28/2024 12:33:4	49 SK	24/01/2024 B	250	15 Seal, plastic bearings, Makueni	Makindu	Kyaaka	Mbinda well	Afridev	Shallow well	15		7 Alternative Pump		3	5 -2.4062°	37.84	341688°
1/28/2024 12:59:3	30 DN	28/01/2024 C	400	80 Rods change and bust Kitui	Nzambani	Kwa kalondu	Kwa kalondo	Afridev	Well	30		7 River		2	10 -1.3	381374	38,009683
1/28/2024 13:00:4	45 SK	26/01/2024 C	300	15 Additional of risin mair Makueni	Makindu	Uiini	Kioko well	Afridev	Shallow	25		7 Alternative Pump		3	5 -2.4062°	37.84	341688°
1/28/2024 13:07:4	43 DN	28/01/2024 C	300	60 Rods and leaking riser Kitui	Kangungi	Kangungi	huo well	Afridev	Well	20		6 Alternative Pump		1	5 -1.3	381377	38,010961
1/28/2024 13:16:5	52 SK	27/01/2024 A	300	16 Seal, bobbin, rod canti Makueni		Kenze	Nzomo well	Afridev	Shallow well	20		4 Alternative Pump		3	5 -2.422809°	37.89	390507°
1/28/2024 13:19:5	53 DN	28/01/2024 C	300	60 Change of fulcrumpin ¿Kitui	Kitui east	Katakani village	Mwangasa well	Afridev	Well	25		9 Alternative Pump		1	5 -1.1	169907	37.8989985
1/28/2024 13:33:4	46 DN	28/01/2024 C	200	40 Leaking rising main fix Kitui	Kitui east	Kaveta	Kaveta well	Afridev	Well	15		6 River		2	10 -1:	353992	38,00342
1/28/2024 13:40:4	48 DN	28/01/2024 C	300	60 Footvalve two bent rod Kitui	Kitui east	Mutuni	Unyaa primary school	Afridev	Well	31		9 Alternative Pump		2	10 -1	.32506	37.99744
1/29/2024 12:36:4	46 EM	28/01/2023 A	300	25 u-seal, rods centralise Kwale	Ukunda	Tiwi Mwachema	Mwachema dugu	Afridev	N/A	24	1	18 Alternative Pump			4.3	255319	39,573506
1/29/2024 12:46:0	05 EM	25/01/2024 A	300	30 Leaking, o-ring,, rod c(Kwale	Ukunda	Tiwi	Chibwaga	Afridev	N/A	21	1	15			-4	25334	39,579953
1/29/2024 12:59:3	28 EM	25/01/2024 A	250	25 u-seal, bobbin, rod cer Kwale	Ukunda	Tiwi Mwachem	Ndugu Pump -1	Afridey	N/A	20		15 Alternative Pump			4.3	252032	39.579349
1/29/2024 13:10:5	59 EM	24/01/2024 A	350	28 rod centralisers, s/s ro Kwale	Ukunda	Tiwi	Mwachma 2	Afridey	N/A	18		10 Alternative Pump			4.3	252438	35.576934
1/29/2024 13:36:4	41 EM	25/01/2024 B	300	30 Riser, useal and bush Kwale	Ukunda	Ndugu	Ndugu Pump	Afridey	N/A	N/A		10			-4	25378	39.581556
1/30/2024 14:09:0	04 DG	16/01/2024 B	500	100 Replaced cylinder, bea Kaijado	Kajjado South	Entonet	Entonet pump	Afridey	N/A	28		3 Alternative Pump	1	5	10 Lat -2.903889°	Long	g 37.429167°
1/30/2024 14:27:1	18 DG	17/01/2024 B	300	60 Changed rusty rods, b Kaiiado	Kajiado south	Mauani	Mauani pump	Afridev	N/A	18	2	5 Alternative Pump		1		388333	37,411111
1/30/2024 15:07:0	02 DG	17/01/2024 B		140 Replaced cylinder ass Kaijado	Kajjado south	Metumi village	Metumi pump	Afridey	N/A	24	_	2 Standing (puddle)		2	8 -2:	176667	37.110278
1/30/2024 16:07:2	28 DG	18/01/2024 B	400	80 Changed foot valve, us Kaiiado	Kajjado South	Makutano village	Makutano pump	Afridey	N/a	20		3 Alternative Pump		1	10 -2 5375*	37.50	526944°
1/30/2024 17:03:	14 DG	19/01/2024 B		120 Changed pipes, rods, [Kaiiado	Kajjado South	Poka village	Poka pump	Afridev	N/a	25	1	8 Alternative Pump		2	15 .2	134444	37.457111

	Caretaker 1. Name & contact details.	Caretaker 2. Name and con	ta Trough required	Trough provided (photo Training Yes/No (2 pe	r Trainee's (1) Names 8	Trainee's (2) Names	& Savings scheme,	Y/N, Savings scheme	(chair Saving scheme	e (Secre Saving schem	ne (Treasi Pre installation photo i Post installation photo including location data
	Moses Okoth- 0706903327	Toni-0715600603	No	No							https://drive.google.coi/https://drive.google.com/open?id=1MKFf4M8ia6j2x_5Tq_EiAsE_qxpE5d-2, https://drive.google.com/open?id=1lj8BppYj15XkUNeJJ_A0gt8
	Patronilla Awino- 0114982801	Eric 0734967947	No	No							https://drive.google.coi/https://drive.google.com/open?id=1scH/4UiZu8B1JtUR2CrHn2X1ga2ke_zk, https://drive.google.com/open?id=1GBV2JpDDKNckLOK0w-4
https://drive.google.co		Peter Odhiambo 078164981		No							https://drive.google.coi/https://drive.google.com/open?id=1nLLO_HtgAimfoCgy3e0m16fje6qyg_W7, https://drive.google.com/open?id=1x4gci-KcrDrf46oQGXNzV.
	David Ndinya 0721757088	Toni 0715600603	No	No							https://drive.google.co/https://drive.google.com/open?id=14jO1SmckxhOl_bsbPdknGbkL6Cb3imK, https://drive.google.com/open?id=16_nvTbnqe1kC-5gWoJgXq
https://drive.google.co		Eric 0734965947		No							https://drive.google.com/open?id=1pp5tcGi5zxWIOi-SrHX2D243rC7SXz0U, https://drive.google.com/open?id=1fO-aK4GrhFBEGrrnNZslfpl
	Samuel Owino 0715350989	Nelly Anyango 0704513473		No							https://drive.google.coi/https://drive.google.com/open?id=15G7WG3w5TT0HYr7gD6dism2KpBdyz3s, https://drive.google.com/open?id=14lw-e3RnktKPo9D0so
https://drive.google.co	Robert 0726453733	Charles, 0740749301	No	Yes	Robert. 0726453733	Charles. 074074930	1 To be formed				https://drive.google.coi.https://drive.google.com/open?id=1ffRPRtwue2lCR190yG2ghoJyClsxtb5c
	Chacha Mariko 0793964414	John Nyariba. 0746777584	No	Yes	Chacha Mariko. 0793	9 John Nyariba. 07467	7i To be formed				https://drive.google.coi.https://drive.google.com/open?id=17FA1pRDrAm59TitDC2Kh-GUaLIQ64U_v, https://drive.google.com/open?id=1jDq88EGIyUA1me51EnC
	Hyline Okenyuri. 0724698826	Mahiri Julia's. 0705013621		No							https://drive.google.coi.https://drive.google.com/open?id=1y1ut9GUyfHig8NK7z4PNugr3kCFSmvcM
https://drive.google.co	Aziza. 0719636305	Wankuru. 0721372948	Yes	No							https://drive.google.coi/https://drive.google.com/open?id=1YVnA2x5SRan4SwmO1Jak5nMVIYQw9RxH
https://drive.google.co	Kerari Paul. 0721685721	Ogutu Gordon. 0702006955	No	No							https://drive.google.coi/https://drive.google.com/open?id=12fRS-HMcCNM0tw2iM3cuucPIYQ21CR90, https://drive.google.com/open?id=1Bbiy4Oy6ETEWuD8hw
https://drive.google.co	Felix0727968779	Mary0710945719		Yes		Mary0710945719					https://drive.google.coi.https://drive.google.com/open?id=1f0DAHiC-BoNVW29Mgk3do6lilEEdTLXf
https://drive.google.co	Collins0727968064	Benta 0707945779		Yes	Collins 0727968064	Benta 0707945779					https://drive.google.coi.https://drive.google.com/open?id=1gwiCDWA39VZfGW45ht_UtKMTBdF7NUhw
https://drive.google.co		Jane 0710952025		Yes	Salome 0717470255						https://drive.google.coi.https://drive.google.com/open?id=1iRIAka2DK2HkByxg_nOvq-AXpcu70sHL
https://drive.google.co	Peter 0726984705	Maurice 0724793611		Yes	Peter 0726984705						https://drive.google.coi.https://drive.google.com/open?id=1XO5rl1hSC8e6lMS8rbwduDSi3_bzTwlY
	Mr.Sakimu 0780967399	Mrs.Sakimu 0780967399	No	Yes	Mr. Benjamin 070597	7 Mr. Sakimu 0780967	73! N	None	None	None	https://drive.google.co.https://drive.google.com/open?id=1_kplK0ifWucg7_VAR9Ko9Rd6PA_7Dxh7
	Mr. Mbinda 0704826742		No		Mr. Benjamin Masai (						https://drive.google.coi/https://drive.google.com/open?id=1AOLI8ywXDyeEbj9zdF0WtkWk65QBFfW0, https://drive.google.com/open?id=1mzZlmillLVwVs2GaVF
https://drive.google.co		0799378599 kilinga	No	Yes	Kamene 2541046346		None yet	None	None	None	https://drive.google.co/https://drive.google.com/open?id=1n2RwfcoDoVAnT46.lte0Dv4T-CW1DaF_S
https://drive.google.co	Mr.kioko 0713664862	Mrs. kioko 0713664862	No	Yes	mr.kioko 0713664862	Mr. Benjamin 07059	7 None	None	None	None	https://drive.google.coi/https://drive.google.com/open?id=1BFXprzYU_1eEqDByAl36Lu0k-D6NpQ9l, https://drive.google.com/open?id=1eaqsBUMoxXMz8TykBx3
https://drive.google.co	Mutua 0706843114	Gabriel 254103766917	No	No	Not available	Not available	None yet	None	None	None	https://drive.google.co/https://drive.google.com/open?id=1WRC4YPXFWaTUwtAmeHXoHr8HyC5mBu0r
https://drive.google.co	Mr.Nzomo 0729238042	Mrs. Nzomo 0729238042	No	Yes	Mr. Nzomo 07292380	4Mr. Benjamin 07059	77 None	None	None	None	https://drive.google.coi/https://drive.google.com/open?id=1_iQlQycUNZ8ECdcGB3s
https://drive.google.co	Mbuvi 0710710152	Kamene 254104634696	No	Yes	Mbuvi 0710710152		None	None	None	None	https://drive.google.co.https://drive.google.com/open?id=1GE5Rip0bnSYX3AWdi-BMvipc78wCxG9W
https://drive.google.co	Kamene 254103766917	Not available	No	No	Not available	Not available	Not started	None	None	None	https://drive.google.co/https://drive.google.com/open?id=1pyblGQC39YTfPw7srFbPuGZWALyUT4ek
https://drive.google.co	Kamene 0104634696	None	No	Yes	Kamene 0104634696	None	It is in a school	None	None	None	https://drive.google.co/https://drive.google.com/open?id=1zLiXdD5ZhtOV7GJbNP6ef6U1gPeHbbh
https://drive.google.co	Asha 0727447854	Bakari		No							https://drive.google.co/https://drive.google.com/open?id=1iiZc9sTDxTFsKOxM3KAbbseEoOvqS75n
https://drive.google.co	Mohamed Zigizi - 0783510417	Bakari	No	No							https://drive.google.co/https://drive.google.com/open?id=13ZQsbjC8GsdmlPCGXUv2NwFeYdN4IPVL
	Mesaidi Mwanundu 0112037653	Mesaidi 2 0792155448		No							https://drive.google.coi.https://drive.google.com/open?id=1M-yXIRVuCuuO5yI0FLLT8HujGid7WS7i
https://drive.google.co	Athmani Bakari - 0723950794	Bakari Ukunda		No							https://drive.google.coi.https://drive.google.com/open?id=11upgOlx-MWBUUjPg5QOVFUgXr5IOmxl8
https://drive.google.co	Mwalimu Juma - 0720092823	Bakari		No							https://drive.google.coi.https://drive.google.com/open?id=1QANLI3OSrDbjarBErS3qD0WH7WO3WMzw
https://drive.google.co	Ms Wanjiru	0751740955		Yes			N	N/A	N/A	N/A	https://drive.google.co.https://drive.google.com/open?id=1fGyeuQEL.cH9-ligB-6iLQFrZUVPnOq3L
https://drive.google.co		+254735151277	No	Yes			N				https://drive.google.coi.https://drive.google.com/open?id=17MnwWAphtwow8fB9DuoD2IBVquIHMBdJ
https://drive.google.co		Mr. Mureithi		Yes	Stan Mureithi		N	N/a	Nil	Nil	https://drive.google.coi.https://drive.google.com/open?id=1cPnCPVR9JFjd7rl0ju2SEm54rlkDGKgy
https://drive.google.co	+254 706 089505	Blake Mwangi	No	Yes	Blake Mwangi	Evans	N	N/A	N/a	N/a	https://drive.google.coi.https://drive.google.com/open?id=1JkA8OAJSHQG-IGZpXWnithTH-RyWx5IR
https://drive.google.co		+254 791 693541	No	Yes							https://drive.google.co/https://drive.google.com/open?id=1FdrnyNdk_JYCTrO1ETJuKDfCTXwWakMi

# Appendix 3: Variance of expenditure across categories

	Budget (%)	2024 actual (%)*							
Accommodation	8	10.4							
Communications	2	0.0							
Contractors	9	28.4							
Food-Drink	8	3.0							
Materials	39	32.3							
Misc	2	2.4							
Transport + Fuel	9	11.9							
People transport	3	0.0							
Education Budget	12	10.5							
Administration	5	1.0							
Audit	3	0.0							
Total	100	100							
*on receipted expenses									

## Appendix 4: Photographs of typical pump repairs





A child jumping for joy after an Osiligi/EF repair



A pump repaired in Makueni County

