Osiligi Charity Projects

Repair of broken hand pumps in Kenya FF 0504-25

2020 Final Report

For the Eagle Foundation

November 2020

Contents

Summary

This report outlines the progress made by the Osiligi charity team in Kenya from January to September 2020 in the repair of broken hand-pumps. The year 2020 has been a challenging year for doing anything in Kenya. Despite floods, the worst plague of locusts in 70 years and the restrictions imposed by Covid the team were still able to repair 177 pumps at an average cost of £254 (308 CHF) each. This provided access to water to around 65,000 people in 6,500 homesteads, schools and dispensaries. This was achieved through the donation of £45,000 by the Eagle Foundation.

Introduction

The BBC World Service in a broadcast on the 7th October (2020. 20:30) stated that climate change contributed and caused considerable stress in the need and demand to access a water supply. Covid has increased the demand for water for hand washing, WASH activities and by imposing restrictions on movement. This served only to amplify the demand for local water, and to increase the stress on the communities throughout Kenya.

The RWSN study from 2009 concluded that from the installed base of 12,000 hand pumps in Kenya, 3600 hand-pumps (30%) are broken. Although the Osiligi charity has restored over 1000 hand-pumps, there are still many many more to repair.

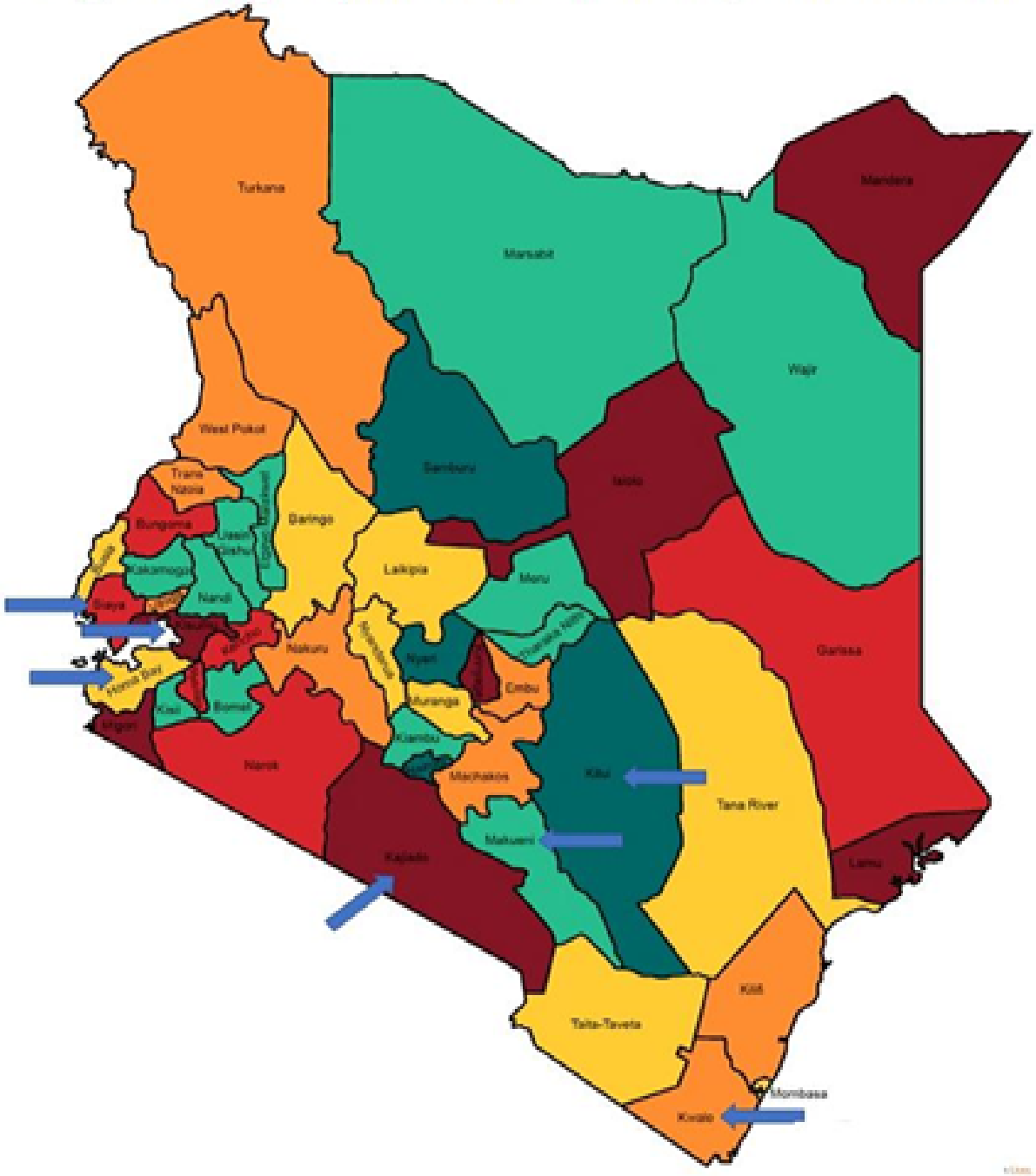
The aim of the handpump project is to repair the non-functional hand-pumps therefore providing access to groundwater for the rural communities. The failure of a hand-pump means that a rural community, school or dispensary would have to find an alternative source, such as purchasing expensive bottled water or buying from a tanker delivery. Alternatively, walk to and pay a membership fee from a neighbouring community. This may not be affordable and becomes a difficult choice of priority.

Often, the only other choice is an open water source, a river, stream, pond, puddle, rainwater (if storage is available), or an open well. If people go to an alternative hand pump, they may have to travel distances up to 6km from their village. This journey may carry the risk of an attack from a wild animal, a crocodile or person. Young girls can be attacked carrying the threat of pregnancy and HIV infection, which is as much as 25% in some areas. Children run the risk of drowning when collecting water from a river. Water borne diseases can account for 10% of the deaths of the young in some regions from typhoid, cholera, dysentery. Children who have to collect water miss out on their opportunity for a primary and then secondary school education and therefore employment opportunities.

Locating the pumps.

The map shows where the Osiligi charity is working in the East, Central and West of Kenya. In the regions of Siaya, Kisumu, Homa Bay, Kitui, Makueni, Kajiado and Kwale.

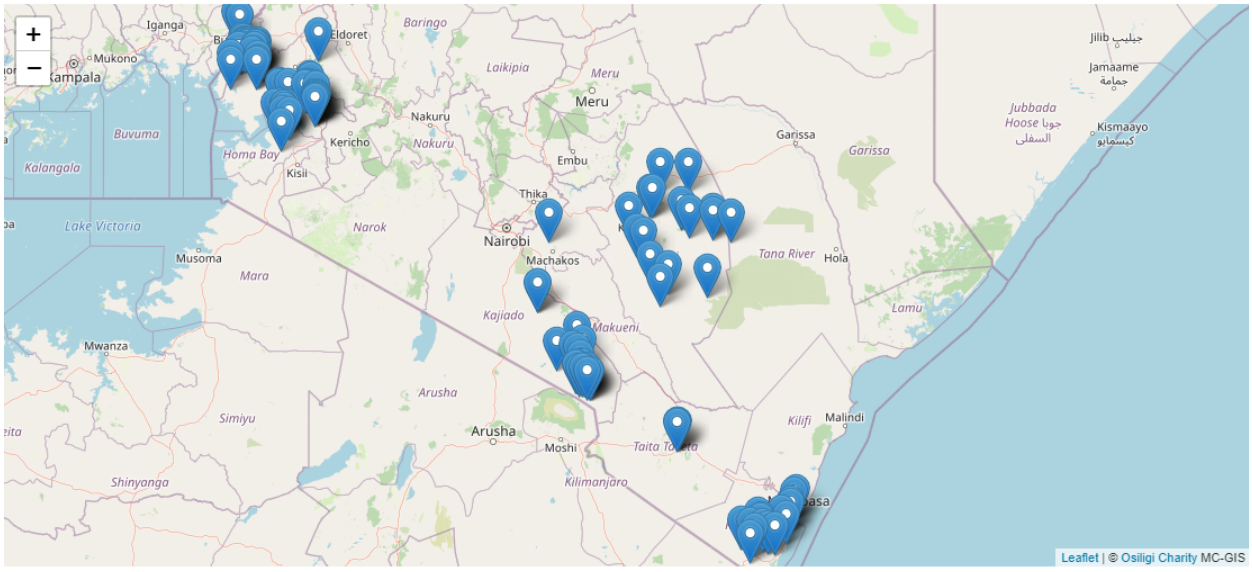
Fig 1 Pump repair areas shown by blue arrows



We now geo-map the location of the pumps as shown below.

The Geo-map data is available here. You can click on any pump to see more information such as its name, location, the number of users and the status. The map shows the location and status of 159 of the 177 pumps that have been repaired this year.

Locations of Hand Pumps



Serving the communities.

Any hand pump that is repaired or a new one installed will need maintenance. So the team encourages the local community to become involved and contribute in the repairs, providing both training and helping them to carry out basic maintenance. Their regional contact team members will always support the community and enable them to access spares for the maintenance of their pump.

How many people use the repaired pumps?

Our normal estimate is that each pump will serve an average of 250 people. Using 177 pumps repaired X 250 people = 44,250. However, many of the pumps repaired this year were new pumps put into schools, clinics and large villages where the actual number of users is much higher than 250 people. When we ask the communities of the repaired pumps how many will be using the pumps and add these numbers together, we estimate that these 177 pumps will serve 65,000 people.

What is the cost of a repair?

The average cost of repair is £254 each. Many of the repairs were new pumps onto boreholes that needed extensive repairs.

Last year, with £45,000 we were able to repair 235 pumps that served around 56,000 people

This year, the £45,000 repaired 177 pumps that served around 65,000 people so although less pumps were repaired, they were more expensive repairs in locations that serve a larger number of users. The repair cost per person is around 70p (0.85 CHF).

Fancy a drink from a dirty pool?

Why not? This stagnant water is used by humans and animals. Both photos were taken in Kajiado county and emphasises the need to access clean water from a hand pump. The young girl in the 2nd photo is dragging a 20L/20Kg water container back home, until the Osiligi charity was able to repair the hand pump. The alternative source was over 6km away.

Coping with the Challenges.

Covid

The restriction of movement and isolation meant that flights were cancelled from the UK to/from Kenya and isolation made travel impossible. Travel between regions for supplies, personnel and materials became dangerous and more expensive. All our costs increased. The Osiligi charity considered putting the project on hold but due to the demand for water and subsequent requests from the local authorities to continue, we had to reconsider our options. Once we received in writing reassurances for safe travel, access to site and appropriate covid sanitation measures the project was reinstated.

Flooding – 8th May 2020

It didn't get any easier.

Flooding makes it dangerous to even consider travelling to a rural location, adding to the delay in repair and increased costs. Another consequence of the flooding is pollution and contamination of the area around a borehole or well.

Repairing the pumps

The details for the repair of the pumps between Jan - Sept 2020 are shown in the following spreadsheet. It provides information about the pump, location, type of repair, the team responsible for its repair, alternative sources and cost, how far to travel and the population it serves. Most villages do not know how many people live in the surrounding community, especially if you include children, so when a pump is repaired in a village we have to ask the question, how many people and households does the pump serve?

3R's for sustainability

Reduce

Well can you reduce your need for water? You may have to if your demand is greater than the ability of the borehole to recharge itself. So good management in what can be a challenging environment is necessary. Therefore the community must play their part in this management, otherwise the constant pumping of a dry borehole will only damage seals, o-rings and bearings.

Reuse

Reuse if possible and necessary if you cannot get the spares to replace a worn out part. Africa doesn't manufacture pumps, they are imported by air or sea. Spare parts are therefore not available or can be expensive to buy.

Recycle

Kenyans are very innovative in the manner they can recycle old parts. This can lead to some disreputable practices of temporary replacements that quickly deteriorate. We have seen it many times with pump seals that work today but not tomorrow. This is a common cause of failure encountered by the team. The correct seals only cost a few dollars, if you can find a good source to buy them from. The quality of repairs by the team and the training of the community mean that they are rarely called back for any further maintenance.

The cost of repairing a hand pump

We have analysed the direct cost to repair 157 pumps. The cost to repair a pump (excluding the delivery cost, time to repair, transport, accommodation, meals etc) is broken down into 5 categories:

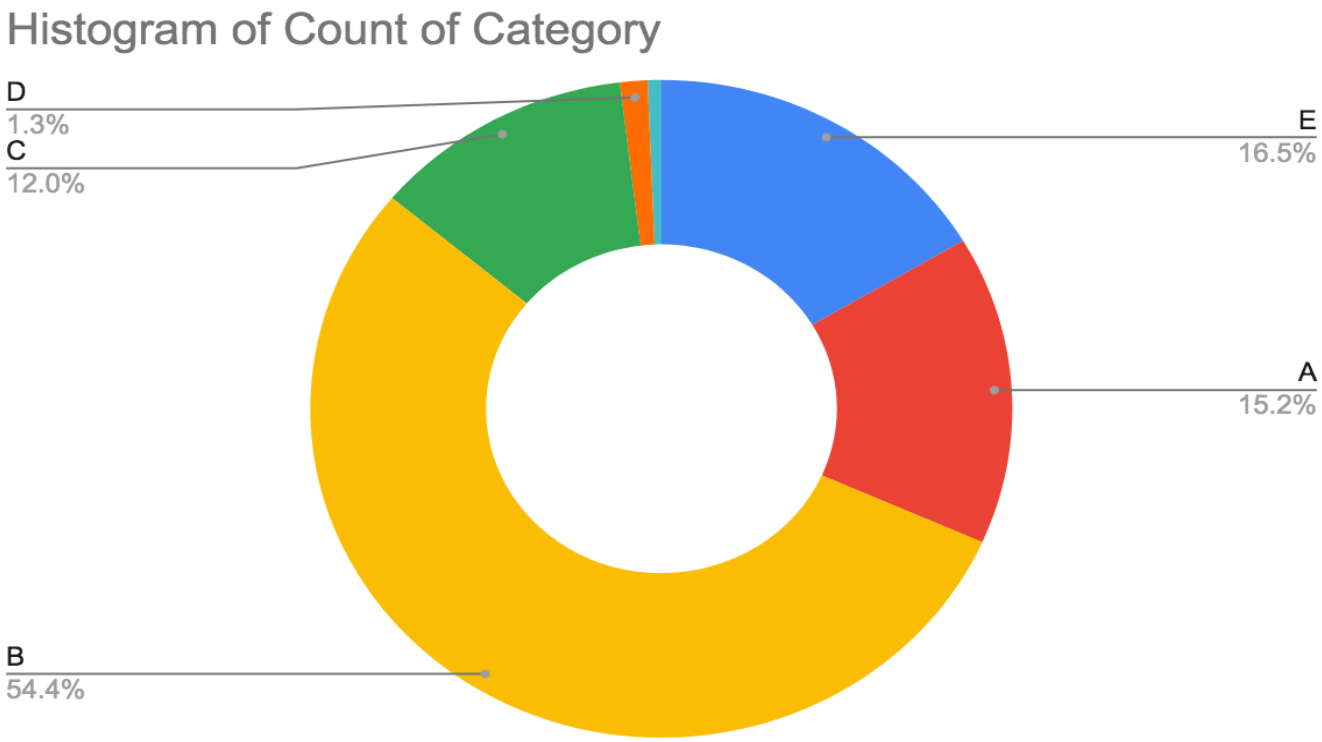
A to E. A (24 pumps) is a simple repair where the parts cost less than 5,000Ksh (£35).

B (86 pumps) is a more extensive repair where more parts are needed at a cost of between 5000Ksh and 25,000Ksh (£35 - £180). A and B repairs can be be done by the community themselves if they have someone available after they have received training

C (19 pumps) is a more extensive repair where the pipes and rods had to be removed. These repairs cost between 25,000 - 50,000Ksh (£180 - £360) and are usually due to a broken pump being left unused for a long time, a pump that has been vandalised or a pump that has worn out due to heavy usage.

D (2 pumps) is the installation of a new pump as the old one was beyond economic repair. The cost is 50,000 Ksh upwards (>£360)

E (26 pumps) is the need for a new pump and extensive repairs, such as civils work or having to employ a contractor to fish out broken risers/rods/rubble from the borehole, and the need to flush the bore-hole because it was blocked. When a new pump is installed, if any of the old parts can be recovered they are either reused or recycled. These expensive repairs can cost up to £1000 each.



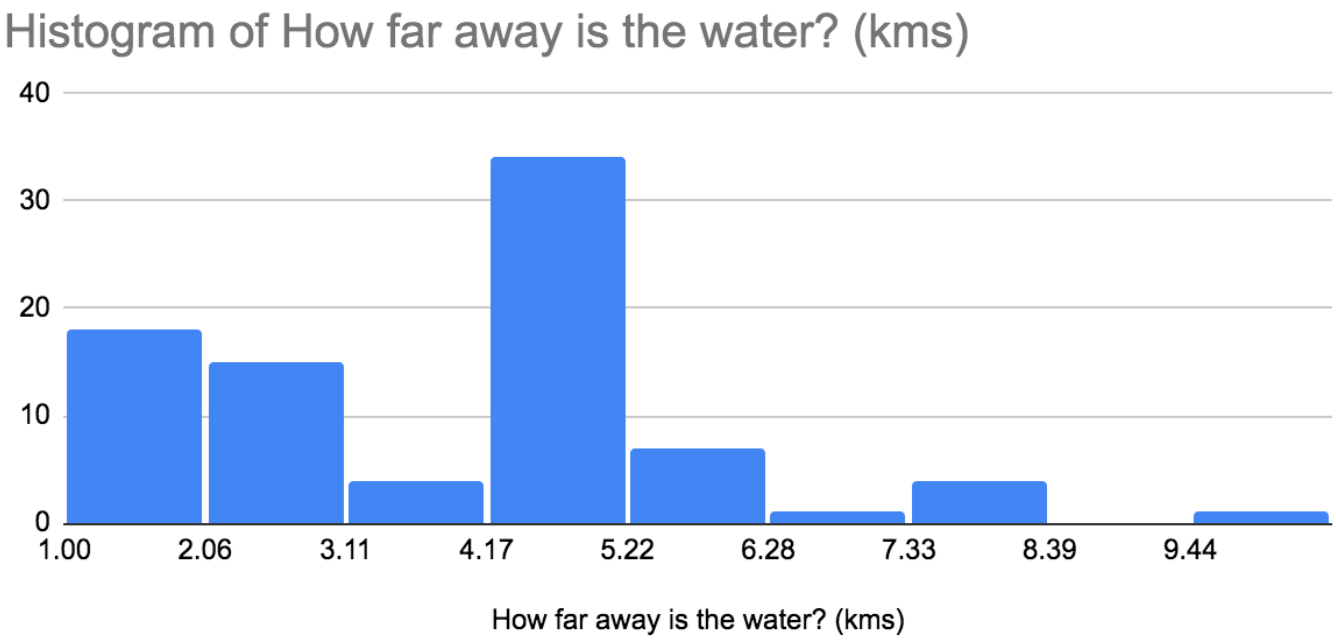
How are the costs broken down?

We have analysed how the £45,000 has been spent. About 75% was spent on materials and outside contractors with the rest spent on people and transport costs.

Item	Amount (Ksh)	Percentage
Materials	4,158,946	68%
Accommodation	7,500	0.1%
Outside Contractors	405,000	7%
Educational support	538,000	9%
Transport	425,600	7%
Miscellaneous Petty Cash	598,140	10%
Bank Charges	18,135	0.3%
Totals	**6,151,321**	**100%**

What is the alternative, what is the cost?

If the community's pump has failed, what is the alternative, an open source that will risk their health or a neighbouring pump that will cost them financially. The typical cost of 20L of water is around 5-10 Ksh.



The above graph indicates how far the person (mainly children) have walked to collect an alternative source of water carrying 20L weighing 20Kg, affecting their health and their education.

A sample of the pumps repaired

To monitor how the repairs are carried out for each region there is a spreadsheet to track progress, a snapshot version, showing just 19 of these pumps repaired, is shown in the table below:

No	County	Pump Name:	Depth (m)	Water (m)	Population	Type of Repair
1	Kisumu	Magina Health center	50	40	300	New Installation
2	Kisumu	Kanyatoro	30	22	500	Seal, bushes, centralizers
3	Kisumu	Mbogo women group	35	14	700	New Installation, 35m
4	Kisumu	Othith C	17	12	1000	New risers and cylinder
5	Kisumu	Pap onditi traders borehole	15	10	1000	Useal, Bobbin replaced
6	Kisumu	Nyabande water pump	40	30	390	Foot valve replaced
7	kisumu	wasare	140	50	700	Adding one rods
8	Siaya	Nyamula Kathieno	30	19	370	CylinderReplaced Rods 8pcs Rod Centralisers 8pc Main riser pipe 1pc
9	Siaya	Aduwa water pump	17	7	345	Head and cover replaced U seal Plastic bearings Fulcrum and Hanger Pins
10	Siaya	Koketch Water Project	30	8	321	8 Rods and Centralisers Cylinder Replaced 2pcs Risers
11	Siaya	Koketch Water Project	30	8	321	8 Rods and Centralisers Cylinder Replaced 2pcs Risers
12	Siaya	Komol water project	16	13	300	Bolts and nuts 2 stainless steel rods
13	Siaya	Kotit Water Project	45	25	410	
14	Kisumu	Kibogo market	45	7	300	Replaced plunger rod,U seal
15	Kisumu	Cherwa water pump	50	20	400	Replaced one riser,two rods
16	Kisumu	Kasawo primary school water pump	45	25	400	Bushes, U seal
17	Kisumu	Kanyangor primary school water pump	60	20	350	Bushes,U seal
18	Kisumu	Wasare school water pump	40	15	250	Bushes,U seal
19	Kisumu	Aluny community water pump	32	24	300	Rods, U seal

Pump repairs in Kitui (Dennis Njogu).

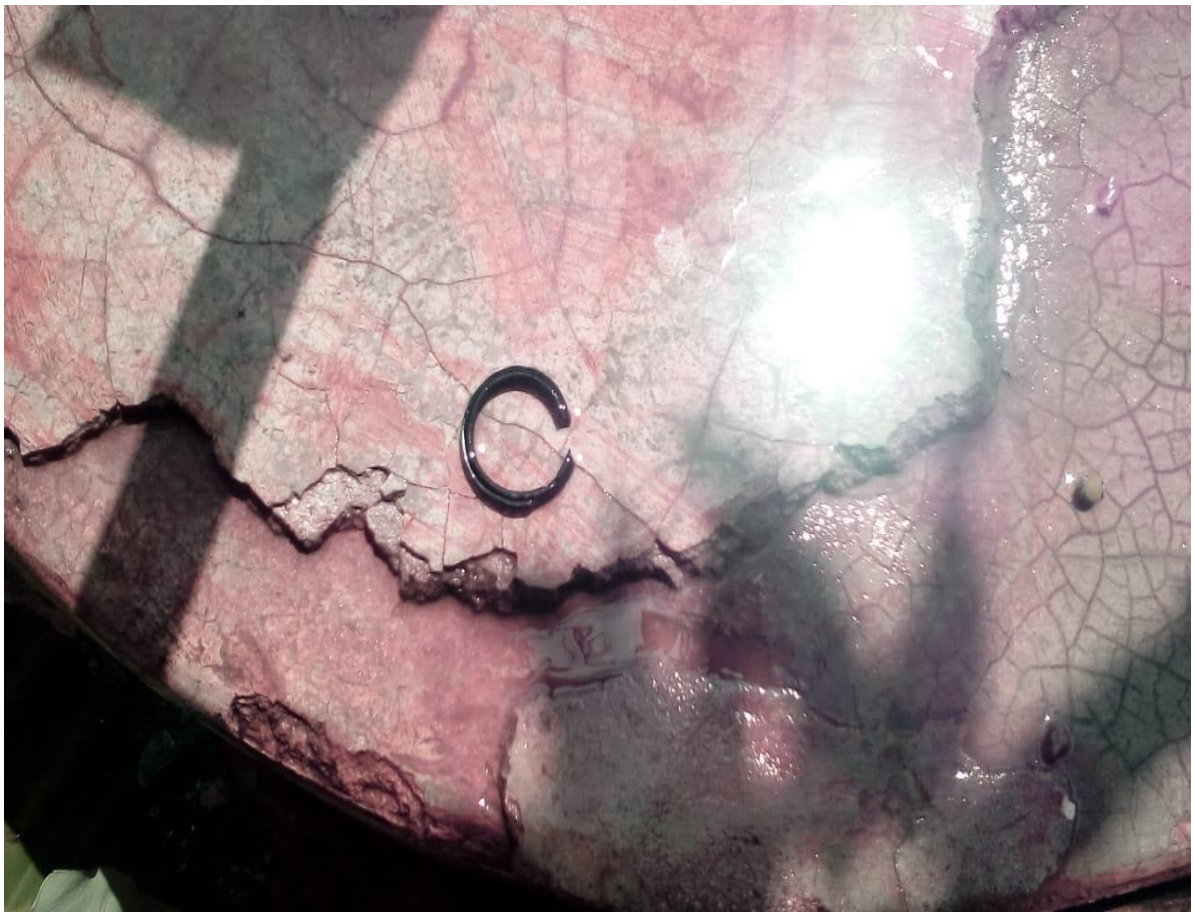
2020 SEPTEMBER KITUI REPORT DN.docx

SEPTEMBER 2020 PUMP 1 NGELANI COMMUNITY

SEPTEMBER 2020 REPAIRS PUMP 2 KATHANDE COMMUNITY

SEPTEMBER 2020 REPAIR PUMP 3 KWA MWIMWA PUMP

SEPTEMBER 2020 REPAIRS PUMP 4 KWA VILIITA



A broken 'O' ring. This small cheap item will stop the pump from working.

Audit January-september (Dennis Njogu) 2020.xlsx

Budget	Payment (P)	Pumps	Comment	Jan - Dec	Expenditure (E)	Receipts (R)
Jan	24000 Ksh	1	Flooding	Accommodation	122000 Ksh	129500 Ksh
Feb	104000 Ksh	3		Contractors	160000 Ksh	173000 Ksh
Mar	107000 Ksh	4		Materials	85293 Ksh	83609 Ksh
Apr	63712 Ksh	2		Petty Cash	134500 Ksh	111400 Ksh
May		0	Covid	Transport	153340 Ksh	148040 Ksh
Jun	96128 Ksh	4	Demand	**Sub totals**	**655133 Ksh**	**645549 Ksh**
Jul	111000 Ksh	4				
Aug	124000 Ksh	4				
Sep	130000 Ksh	4				
Oct	Waiting approval					
Nov						
Dec						
Jan	79500 Ksh		University fees			
Total	**839340 Ksh**	**26**				
Cost/pump	**32282 Ksh**	**£ 248.33**				

Summary; 26 hand pumps were repaired by Dennis in the Kitui region between Jan - Sept at an average cost of £248.33 per pump, this does not include the extra demands from the restrictions from Covid controls, sanitation, increased delays in the cost and collection, transport and delivery to the site of materials.

Encouraging volunteering.

Each 'volunteer' regional contact (Dennis Njogu example above) provides a monthly account of his expenditure and where possible provides receipts. For a brief period in May the project was halted due to COVID restrictions but restarted the following month due to requests from the local authorities that water due to Covid and the increased demand for water and WASH activities was essential.

The volunteers although not paid, have expenses covered and are encouraged to develop life skills and gain qualifications, so contributions are made towards their education fees. Where this is not requested from a volunteer it may be requested for assistance to a partner or sibling. For example the daughter of a volunteer was sent home from school because he could not pay the fees, she went back to school the following day with the fees paid. She completed her studies and because of her grades is now in a good high school. Dennis will at some stage hopefully complete his BSc in logistics. So developing life skills and encouraging education, volunteers are motivated by providing opportunities for employment and in investing in their future.

Water Quality, why it is so important.

Not only is it essential to gain access to water but it is important to monitor the quality. A repaired handpump/borehole in Kisumu was tested and the results shown below. indicates that water quality from a ground source if properly sampled can be safe as referenced to WHO and KEBS Standards.

Quote "*Based on the parameter done, turbidity, Iron and fluoride concentration have failed compliance for drinking@ water however the rest of the parameters have complied with the standards for drinking water"*

SERIAL NO 1 Sample No 0200/19-20

Name of Noe 0746618820

Purpose of sampling.. Assessment for drinking water. , ..County of Homa Bay

Date Sampled.. .27/11/2019 Date Received28/11/2019

	WATER RESOURCES MANAGEMENT AUTHORITY	
	TITLE: Water Sample Analytical Certificate -Physical Chemical Results	REF NO: F/9/1/3
		ISSUE NO: 04
	DEPARTMENT: Technical	REVG NO: 03

	ISSUED BY: DTCM	DATE OF ISSUE: 15 t April, 2013
	AUTHORIZED BY: TCM	PAGE:I of 2

Source Borehole o, n (Kanyangano primary school), Date compiled. e , 4/12/2019

PARAMETERS	UNIT	RESULTS	WHO STANDARDS	KEBS(KS 459-1:2007) STANDARDS
pH	pH Scale	688	605-805	605-805
Color	mgPt/l	5	Max 15	Max 15
Turbidity	N.T.U.	25	Max 5	Max 5
Conductivity (25 C)	PIS/cm	1420	Max 2500	
Odour	mg/l	Sharp smell of Chlorine		
Taste	mg/l	Slightly saline	Max 100	Max 100
Total Hardness	mgCaC03/l		Max 500	Max 300
Total Alkalinity	mgCaC03/l		Max 500	
Chloride	mg/l		Max 250	Max 250
Fluoride	mg/l	3.42	Max 1.5	Max 1.5
Nitrate	mgN03/l	7.0	Max 10	Max 10
Nitrite	mgN02/l	0.01	Max 0.1	Max 0.003
Orthophosphate	mg/l			
Total Dissolved Solids	mg/l		Max 1500	Max 1000
Aluminium	mg/l	00034	Max 0.2	Max 0.2
Ammonia	mg/l	< 0.02	0	0
Iron	mg/l	0.55	Max 0.3	Max 003

Name of analyst Beryl Akinyi Signature

Comments by head of laboratory:

Based on the parameter done, turbidity, Iron and fluoride concentration have failed compliance for drinkin@ water however the rest of the parameters have complied with the standards for drinking water.

Name, Fanuel Onyango

	WATER RESOURCES MANAGEMENT AUTHORITY	
	TITLE: Water Sample Analytical Certificate -Physical Chemical Results	REF. NO: F/9/1/3
		ISSUE NO: 04
	DEPARTMENT: Technical	REV. NO: 03
	ISSUED BY: DTCM	DATE OF ISSUE: 15t April, 2013
	AUTHORIZED BY: TCM	PAGE:2 of2

Letters of Authority - Siaya

Covid imposed restrictions in movement incurring fines if challenged by the authorities, so it was important that the volunteers had documentation that would enable them to move between regions and sub locations. This documentation was requested by the Osiligi charity.

REPUBLIC OF KENYA

COUNTY GOVERNMENT OF SIAYA
DEPARTMENT OF WATER, ENVIRONMENT & NATURAL RESOURCES

All Correspondences should be addressed to:
The Governor,
P.O.BOX 803-40600, Siaya,
Telephone 057 – 3217
In reply please quote:

Executive Department
County Executive Committee Member
Water, Environment & Natural Resources

Ref: CGS/WENR/TECH/9/12/VOL.VII (114)

4th June, 2020

TO WHOM IT MAY CONCERN

Dear Sir/Madam,

RE: AUTHORIZATION OF MOVEMENT FOR REHABILITATION OF WATER FACILITIES

Osiligi Charity has been running a Water Facilities' Rehabilitation Programme in Siaya County since 2018 by installing hand pumps. The organization through its networks has just managed to procure a consignment of handpumps which they would wish to distribute to various select sites.

In view of the Government protocols regarding the COVID-19 pandemic, the nature of their work will involve movement beyond the recommended hours and also across the borders of the restricted areas.

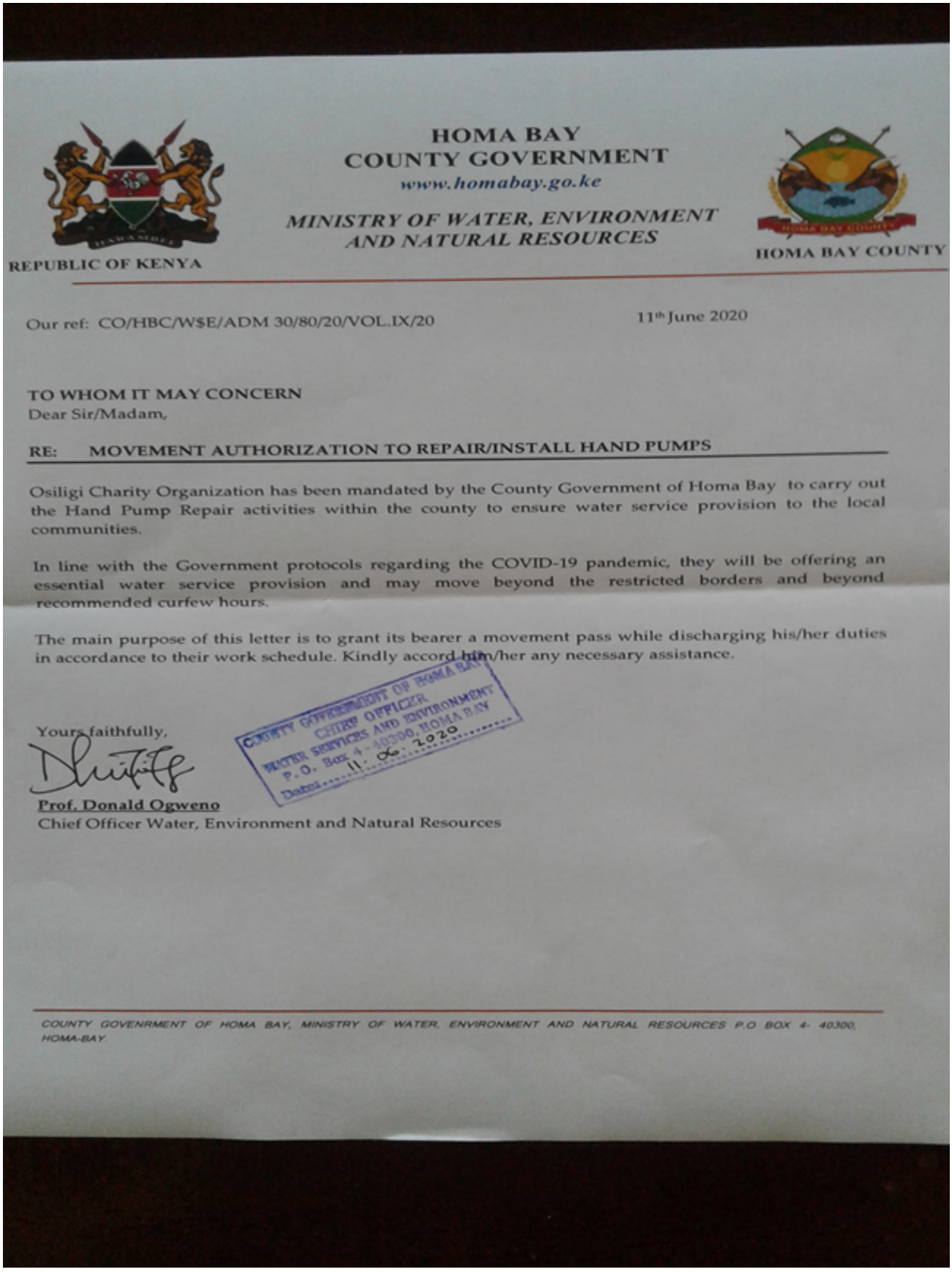
This therefore is to request that the bearer of this letter be allowed free movement while discharging the duties of the programme. Kindly accord him any necessary assistance.

COUNTY GOVERNMENT OF SIAYA
P. O. Box 803 - 40600
SIAYA
04 JUN 2020

George Rubiik
CECM, Water, Environment & Natural Resources

Copy to:
- H.E.The Governor
- County Secretary

Homa Bay



HOMA BAY
COUNTY GOVERNMENT
www.homabay.go.ke

MINISTRY OF WATER, ENVIRONMENT
AND NATURAL RESOURCES

REPUBLIC OF KENYA

HOMA BAY COUNTY

Our ref: CO/HBC/W$E/ADM 30/80/20/VOL.IX/20

11th June 2020

TO WHOM IT MAY CONCERN
Dear Sir/Madam,

RE: MOVEMENT AUTHORIZATION TO REPAIR/INSTALL HAND PUMPS

Osiligi Charity Organization has been mandated by the County Government of Homa Bay to carry out the Hand Pump Repair activities within the county to ensure water service provision to the local communities.

In line with the Government protocols regarding the COVID-19 pandemic, they will be offering an essential water service provision and may move beyond the restricted borders and beyond recommended curfew hours.

The main purpose of this letter is to grant its bearer a movement pass while discharging his/her duties in accordance to their work schedule. Kindly accord him/her any necessary assistance.

COUNTY GOVERNMENT OF HOMA BAY
CHIEF OFFICER
WATER SERVICES AND ENVIRONMENT
P.O. Box 4 - 40300, HOMA BAY
Dated 11. 06. 2020

Yours faithfully,

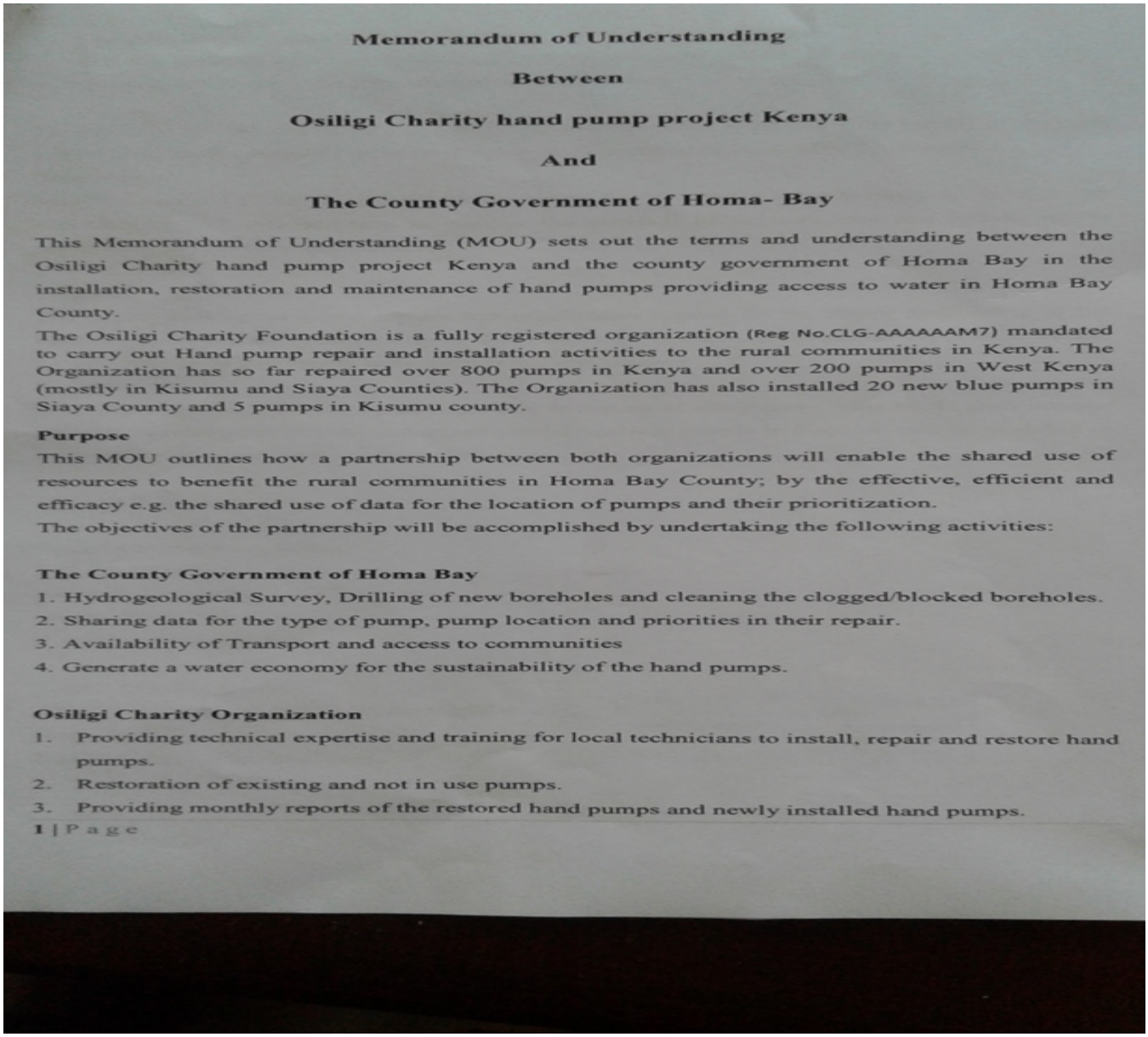
Prof. Donald Ogweno
Chief Officer Water, Environment and Natural Resources

COUNTY GOVERNMENT OF HOMA BAY, MINISTRY OF WATER, ENVIRONMENT AND NATURAL RESOURCES P.O BOX 4- 40300, HOMA-BAY.

Meeting expectations (MOU).

MOU's between the Osiligi charity and Local Authorities (LA's) can be reviewed and renewed on a yearly basis. They provide the opportunity for the regional contacts to discuss the progress they have achieved and what if any amendments either party would like to make. Covid raised the need for support from the LA's to permit access and provide sanitisation. The MOU indicates to a community registered with the LA the and commitment from them and the Osiligi charity. This helps to gain their trust and support. On one occasion we were threatened by someone with a machete. He was marched off site but not after he slapped our vehicle with his machete as we made a rather quick exit.

Homa Bay p1.



Memorandum of Understanding

Between

Osiligi Charity hand pump project Kenya

And

The County Government of Homa- Bay

This Memorandum of Understanding (MOU) sets out the terms and understanding between the Osiligi Charity hand pump project Kenya and the county government of Homa Bay in the installation, restoration and maintenance of hand pumps providing access to water in Homa Bay County.

The Osiligi Charity Foundation is a fully registered organization (Reg No.CLG-AAAAAAM7) mandated to carry out Hand pump repair and installation activities to the rural communities in Kenya. The Organization has so far repaired over 800 pumps in Kenya and over 200 pumps in West Kenya (mostly in Kisumu and Siaya Counties). The Organization has also installed 20 new blue pumps in Siaya County and 5 pumps in Kisumu county.

Purpose

This MOU outlines how a partnership between both organizations will enable the shared use of resources to benefit the rural communities in Homa Bay County; by the effective, efficient and efficacy e.g. the shared use of data for the location of pumps and their prioritization.

The objectives of the partnership will be accomplished by undertaking the following activities:

The County Government of Homa Bay

1. Hydrogeological Survey, Drilling of new boreholes and cleaning the clogged/blocked boreholes.
2. Sharing data for the type of pump, pump location and priorities in their repair.
3. Availability of Transport and access to communities
4. Generate a water economy for the sustainability of the hand pumps.

Osiligi Charity Organization

1. Providing technical expertise and training for local technicians to install, repair and restore hand pumps.
2. Restoration of existing and not in use pumps.
3. Providing monthly reports of the restored hand pumps and newly installed hand pumps.

1 | Page

MOU – Homa Bay p2.

4. Sourcing, transporting and installing new pumps in rural communities.
5. Training the local communities for their basic maintenance of the hand pump.
6. Generate a water economy for installation and maintenance.

The outcome will be a more effective use of knowledge and resources for the benefit of the r communities as it will enable more hand pumps to be restored in a cost effective manner.

Reporting

Monthly reports on the number of pumps repaired with service level agreements, budget expenditure costs will be made to monitor the progress of the outcomes and benefit to partnership and the rural communities

Funding

The future funding for pump repairs and installations depend on the future fundraising of Charity funds from the potential donors. The County government of Homa Bay commits to bud for future pump repairs, pump replacements and installations.

Duration

This MOU is for a Two years plan renewable at request of either party. This MOU shall beco effective upon signature by the authorized officials and will remain in force but may be modified terminated by any one of the partners through notice .

Contact Information

Osiligi Charity Foundation
1.Victor Ogwenya (P. Eng.)
Regional Contact Person-West Kenya,
Mobile: 0720536300.
E-mail: ogwenya@gmail.com.

2. Prof. Donald Ogweno.
Chief Officer, Water and Environmental Services,
Homa Bay County,
Email: dogweno54@gmail.com.

COUNTY GOVERNMENT OF HOMA BAY
CHIEF OFFICER
WATER SERVICES AND ENVIRONMENT
P. O. Box 4-40300, HOMA BAY
Date.....11.06.2020

Recognition and appreciation

THE PRESIDENCY MINISTRY OF INTERIOR AND CO-OPERATION OF NATIONAL GOVERNMENT

DISCTRICTER: RANGWE SUB - COUNTY OFFICE OF THE CHIEF

SOUTH KAGAN LOCATION

TELEPHONE: 0722906616...
P.O 40303

WHEN REPLYING, PLEASE QUOTE RANGWE
DATE:...21/09/2020...

REF: SKUADMIN/WAT/12/S9

TO
OSILIGI CHARITY ORGANIZATION
p.o. BOX

NAIROBI

RE: APPRECIATION

On behalf of the Kirongo community I wish to convey an appreciation for the donation Of a manual water pump and for the repair of the shallow well.

The pump was timely since it was at the Of COVID 19 period. This donation came at a time when water was being used in every aspect of our dåily lives.

The water point is serving Kirongo primary with a pupil population of 500 pupils and over 14 teaching staff_ The communities around the water point benefiting are over 300 Runilies. This will help in alleviating the clean water problem in the society.

The community will always remain grateful for the donation.

Thank you may God bless you.

Yours faithfully,

Mr. Sospeter Oyugi

CHIEF

SOUTH KAGAN.

. CHIEF. SOUTH KAGAN

THE PRESIDENCY MINISTRY OF INTERIOR AND CO-OPERATION OF NATIONAL GOVERNMENT

DISCTRICTER: RANGWE SUB - COUNTY

OFFICE OF THE CHIEF

SOUTH KAGAN LOCATION TELEPHONE:

0722906616...

P.O 40303

WHEN REPLYING, PLEASE QUOTE

RANGWE

DATE:...21/09/2020...

REF: SKUADMIN/WAT/12/S9

TO

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Mr. Sospeter Oyugi

CHIEF

SOUTH KAGAN.

. CHIEF.

SOUTH KAGAN

Stretching the budget, additional project requests

The Osiligi charity has a monthly programme to restore the hand pumps in the rural communities and occasionally additional demands are made on the budget to do more:

Our ref: CO/HBC/W$E/ADM50/92 17th April 2020

Eric McKinnon
Osiligi Charity Foundation
Project Manager
Mobile +447-970-036-307

Dear Sir,

RE: REQUEST FOR A HAND PUMP AT ACHUNE BOREHOLE

The above subject matter refers.

On behalf of the County Government of Homa Bay, Department of Water, Environment and Natural Resources, I take this opportunity to thank you for the support The Osiligi Charity Foundation had offered for Hand Pump Projects in Homa Bay County and especially at my Kibiri Administrative ward from 2016 to early 2019 .

A new Achune borehole which is based in my administrative ward has been drilled and the borehole depth is 130m and Static Water Level is 40m . As a matter of urgency we request your office to facilitate the procurement of the India Mk II pump to be installed as soon as possible to reduce chances of the new borehole blocking.

The MOU is now ready and will be signed after the COVID-19 has ceased to be a threat,

Yours faithfully,

Hon. Michael Odira
Chairman, Water, Environment and Natural Resources at the County Assembly.

c.c Victor Ogwenya
Regional Contact Person, West Kenya

REQUEST FOR TWO AFRIDEV HAND PUMPS- 30M DEEP WITH STAINLESS STEEL RODS

The above subject matter refers.

On behalf of the County Government of Kisumu, Department of Water, Environment and Natural Resources, residents of Ombeyi ward and on my own behalf, I take this opportunity to thank you for the support, The Osiligi Charity Foundation has offered towards the Hand Pump Projects in Kisumu County and especially at my OmbeyiAdministrative ward from 2019 to now.

We have successfully constructed and developed two shallow wells of good amount and quality water, they are approximately 30 m deep. As a matter of urgency we request your organization to facilitate the procurement of the Two Afridev pumps to be installed as soon as possible to help our local poor community have access to clean water and also enable them to manage the COVID-19.

Yours faithfully,

Hon. Vitalis Augustine Ogudi Otura

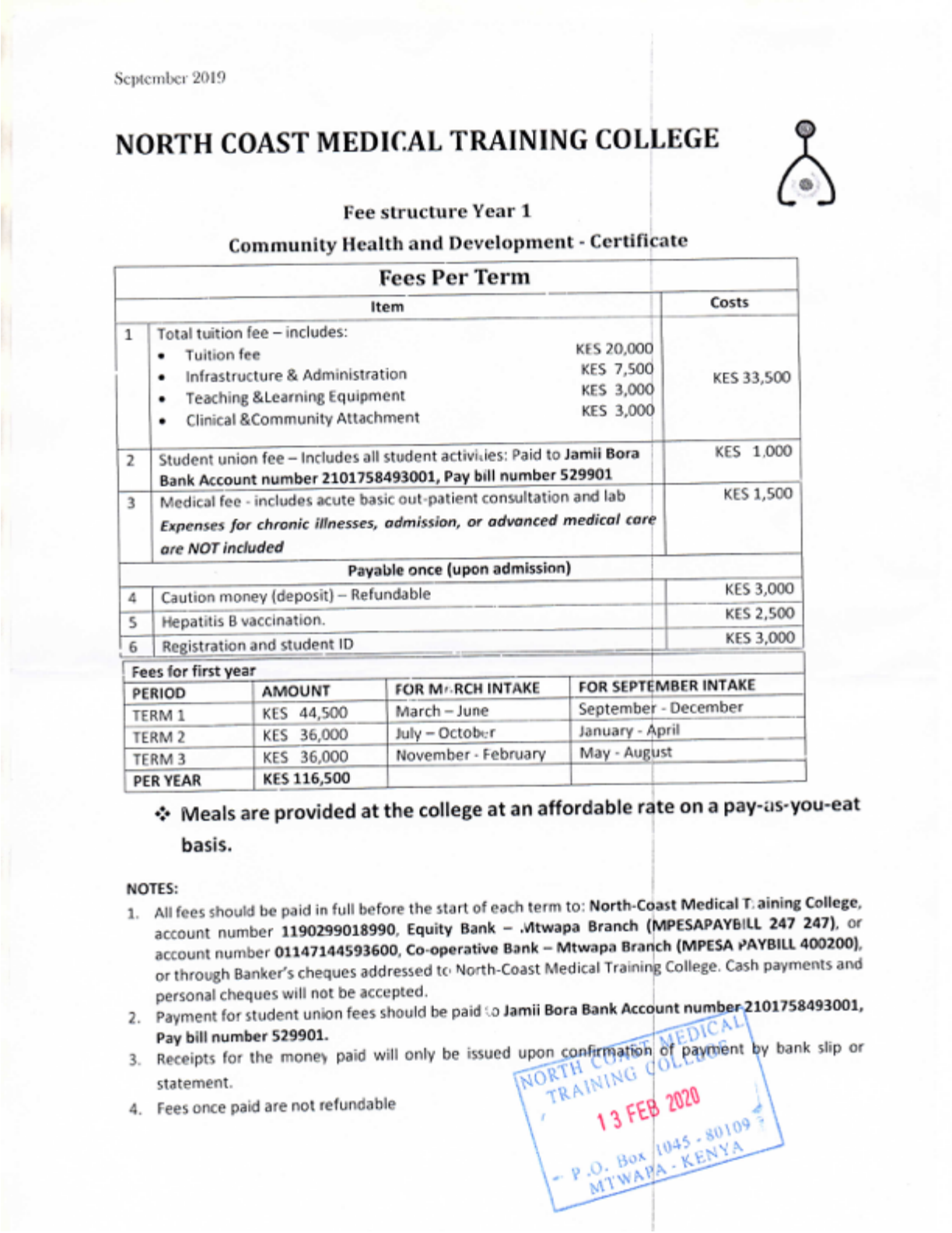
Member of County Assembly.

With the financial help from the Eagle Foundation, we can support such request for hand pumps.

Education, education, education

As mentioned about, although we do not pay the water engineers, we do support them with education costs against an invoice.

RCP - Emanuel Muthcar



September 2019

NORTH COAST MEDICAL TRAINING COLLEGE

Fee structure Year 1

Community Health and Development - Certificate

Fees Per Term			
	Item		**Costs**
1	Total tuition fee – includes: • Tuition fee • Infrastructure & Administration • Teaching &Learning Equipment • Clinical &Community Attachment	KES 20,000 KES 7,500 KES 3,000 KES 3,000	KES 33,500
2	Student union fee – Includes all student activities: Paid to **Jamii Bora Bank Account number 2101758493001, Pay bill number 529901**		KES 1,000
3	Medical fee - includes acute basic out-patient consultation and lab ***Expenses for chronic illnesses, admission, or advanced medical care are NOT included***		KES 1,500
	Payable once (upon admission)		
4	Caution money (deposit) – Refundable		KES 3,000
5	Hepatitis B vaccination.		KES 2,500
6	Registration and student ID		KES 3,000

Fees for first year			
PERIOD	**AMOUNT**	**FOR MARCH INTAKE**	**FOR SEPTEMBER INTAKE**
TERM 1	KES 44,500	March – June	September - December
TERM 2	KES 36,000	July – October	January - April
TERM 3	KES 36,000	November - February	May - August
PER YEAR	**KES 116,500**		

❖ **Meals are provided at the college at an affordable rate on a pay-as-you-eat basis.**

NOTES:

1. All fees should be paid in full before the start of each term to: **North-Coast Medical Training College**, account number **1190299018990**, **Equity Bank – Mtwapa Branch (MPESAPAYBILL 247 247)**, or account number **01147144593600**, **Co-operative Bank – Mtwapa Branch (MPESA PAYBILL 400200)**, or through Banker's cheques addressed to North-Coast Medical Training College. Cash payments and personal cheques will not be accepted.
2. Payment for student union fees should be paid to **Jamii Bora Bank Account number 2101758493001, Pay bill number 529901.**
3. Receipts for the money paid will only be issued upon confirmation of payment by bank slip or statement.
4. Fees once paid are not refundable

NORTH COAST MEDICAL TRAINING COLLEGE
13 FEB 2020
P.O. Box 1045 - 80109
MTWAPA - KENYA

RCP Victor Owenga

JOMO KENYATTA UNIVERSITY
OF
AGRICULTURE AND TECHNOLOGY
P.O. BOX 62000, CITY SQUARE, NAIROBI 00200, KENYA. TELEPHONE: (067) 52711, FAX: (067) 52446,
THIKA
Office of the Registrar (Academic Affairs)
E-mail: registrar@aa.jkuat.ac.ke

FEE STRUCTURE FOR MSc. (ENGINEERING BASED) PROGRAMMES FOR KENYAN STUDENTS 2015/2016

A. FEES PAYABLE DIRECTLY TO THE UNIVERSITY

FIRST YEAR

	1st Semester	2nd Semester	Total
1. Tuition	65,000	65, 000	130, 000
2. Registration	1,500	-	1,500
3. Examination	3,000	3,000	6,000
4. Identification card	500	-	500
5. Library fees	1,250	1, 250	2, 500
6. Medical Subscription	2,000	2,000	4,000
7. Computer/Internet	1,500	1,500	3,000
8. Laboratory fees	-	25, 000	25, 000
Total	**74, 750**	**97, 750**	**172, 500**

SECOND YEAR

	1st Semester	2nd Semester	Total
1. Tuition	65,000	70,000	140,000
2. Library fees	1,250	1, 250	2, 500
3. Computer/Internet	1,500	1,500	3,000
4. Medical Subscription	2,000	2,000	4,000
5. Thesis, Project, Portfolio	25,000	25,000	50,000
Total	**94, 750**	**94, 750**	**189,500**

GRAND TOTAL FEES **362,000**

B. OTHERS

Estimated Research / computer Lab/ field work 75,000 per research year.

Movement & Authorisation

REPUBLIC OF KENYA

HOMA BAY
COUNTY GOVERNMENT
www.homabay.go.ke

MINISTRY OF WATER, ENVIRONMENT AND NATURAL RESOURCES

HOMA BAY COUNTY

Our ref: CO/HBC/WRE/ADM/30/80/20/VOL.IX/20 11th June 2020

TO WHOM IT MAY CONCERN
Dear Sir/Madam,

RE: MOVEMENT AUTHORIZATION TO REPAIR/INSTALL HAND PUMPS

Osilgi Charity Organization has been mandated by the County Government of Homa Bay to carry out the Hand Pump Repair activities within the county to ensure water service provision to the local communities.

In line with the Government protocols regarding the COVID-19 pandemic, they will be offering an essential water service provision and may move beyond the restricted borders and beyond recommended curfew hours.

The main purpose of this letter is to grant its bearer a movement pass while discharging his/her duties in accordance to their work schedule. Kindly accord him/her any necessary assistance.

COUNTY GOVERNMENT OF HOMA BAY
CHIEF OFFICER
WATER, ENVIRONMENT AND NATURAL RESOURCES
P. O. Box 4 - 40300, HOMA BAY
Date: 11 JUN 2020

Yours faithfully,

Prof. Donald Ogwena
Chief Officer Water, Environment and Natural Resources

COUNTY GOVERNMENT OF HOMA BAY, MINISTRY OF WATER, ENVIRONMENT AND NATURAL RESOURCES P.O. BOX 4 - 40300, HOMA BAY

Email 20th May 2020

Dear Sir,

I believe you are doing well and keeping safe despite the restrictions.

This is a consent to allow your office to continue working in order to boost our effort in water provision especially during this time when it is needed the most. So far due to flood several water points have been destroyed that need replacement and your effort on the same would be highly appreciated. My office will facilitate the mask and sanitizers during the operations.

Warm regards

Zacheus Okoth

Chief Officer,

Water and Sewerage Services.

Kisumu County

Tel: +254-724 838 268, 0708944444

skype: zacheus.okoth