



## **M.E.A.K - Report for Fondation Eagle:**

**March – July 2020**

**Project: MEAK / Milgis Water Projects, Milgis Conservancy, Samburu County, Kenya**

### **Donor:**

**Fondation Eagle, Switzerland**

### **Donor's reference:**

**FF 0514-35**

### **Charity:**

**Medical & Educational Aid to Kenya (UK),  
together with the Milgis Trust (Kenya)**

### **Date of acceptance:**

**26<sup>th</sup> November 2019**

### **Date donation received:**

**1<sup>st</sup> December 2019**

### **Amount of Donation:**

**A one-off donation of \$19,645**

**(2,005,510.2KSH at the exchange rate of 1 Kenyan shilling to 0.0098 US dollars)**

### **Duration of project:**

**We estimate the grant to fund the operation & maintenance of the water projects for one year, potentially longer, depending upon the amount of intervention each individual project needs.**

### **Estimated number of beneficiaries:**



Approximately 26,000 people are provided with clean water in 14 different communities within the conservancy. The water projects also provide employment for 28 members of the community.



## Report from the Milgis Trust:

Lazaro, our water projects manager has visited all of our water projects once a month, resulting in 3 round-trips adding up to almost 650kms. Most of the projects had no issues at all and some had minor issues such as taps that needed repairing. Unfortunately we had major issues at Ndonyo Nasipa and Ndare-Ntepes projects having already spent quite some time earlier in the year trying to sort these.

### Ndonyo Nasipa Water Project

Ndonyo Nasipa water project is one of our oldest projects, and was using the PS 1200 model of pumps. Whilst doing the maintenance in February, we had installed our last spare for the 1200 range. However in April, we experienced further issues. Eventually in June we decided to change the entire system to PS1800. This meant that we needed to add another 8 solar panels to reach the power requirement for the 1800. We have brought a new controller and motor and have combined this with a spare pump end that we had. This modern controller is able to connect to a mobile phone app for better monitoring and diagnostics. Again we hope that this system won't require any further works for a few years.



Fitting the new motor



Testing the pump before installation



As highlighted in the last report, this project is the only water source for approx. 3000 people. The Borehole serves two different communities, pumping 8 kms to the Mpagas community, and 4 km's to the Marti Derop community. The county government recently refurbished and extended the Pipeline linking Mpagas to the Ndare-Ntepkes borehole.

Having replaced the PS4000 motor in February, we were called again in June due to a breakdown. This time the problem was a faulty controller – this was the original controller which had lasted for more than 5 years in tough conditions. Whilst inspecting the unit the team also found that the pump end had seized, which could have contributed towards the controller problem. We decided to replace both the controller as well as the pump end. Fortunately the new motor was not damaged despite the seized pump end. So, we can report that both communities are back to 100% water supply and hopefully these new unit will last for another 5 years at least!



**Women very happy to be able to deal with the backlog of washing!**



**The big new pumping unit being put back in the borehole**

## **Water projects impact:**

The long term impacts are mainly positive. These impacts include:

- Improved child health
- Higher attendance to school
- Improved maternal healthcare
- More hygienic conditions at the dispensary
- Healthier livestock
- More time for productive activities

However, the negative impact could be that there are more people settling around the water project, meaning more pressure on nearby natural resources, particularly grazing since the Samburu are pastoralists.

## Budget details: Expenditure update March – July 2020



### Water projects maintenance overheads

#### Wages

Description	Unit Cost (\$)	Unit Type	No. Units	Total
Water projects Coordinator	750	Personnell	1	750
			<b>Subtotal</b>	<b>750</b>

#### Transport

Description	Unit Cost (\$)	Unit Type	No. Units	Total
Motorbike	0.7	Km	650	455
			<b>Subtotal</b>	<b>455</b>

**Total (\$)** **1205**

### Project specific costs Ndonyo Nasipa water project

#### Transport

Description	Unit Cost (\$)	Unit Type	No. Units	Total
Motorbike	0.7	Km	250	175
Vehicle	2.6	Km	367	954.2
			<b>Subtotal</b>	<b>1129.2</b>

#### Equipment, fittings and consumables

Description	Unit Cost (\$)	Unit Type	No. Units	Total
LORENTZ ECDRIVE 1800-HR,1.7kW	989	Motor	1	989
Controller PS -2 1800 Controlelr	1140	Controller	1	1140
Solar Panels	68.75	pcs	8	550
well probes	30	pcs	2	60
Fittings	50	Lump Sum	1	50
Consumables	70	lump Sum	1	70
			<b>Subtotal</b>	<b>2859</b>

**Total (\$)** **3988.2**

**Project specific costs**  
**Mpagas Water Project**

Transport				
Description	Unit Cost (\$)	Unit Type	No. Units	Total
Motorbike	0.7	Km	150	105
Vehicle	2.6	Km	420	1092
			<b>Subtotal</b>	<b>1197</b>
Equipment, fittings and consumables				
Description	Unit Cost (\$)	Unit Type	No. Units	Total
LORENTZ PS2-4000 Controller-4.0kVA	1830	controller	1	1830
PE C-SJ3-32, Rp 1 1/4"	1095	Pump End	1	1095
well probes	30	pcs	2	60
wiring	150	lump sum	1	150
Fittings	105	Lump Sum	1	105
Consumables	54	lump Sum	1	54
			<b>Subtotal</b>	<b>3294</b>
			<b>Total (\$)</b>	<b>4491</b>
			<b>Grand Total (\$)</b>	<b>9684</b>
			<b>2020 Cumulative Total (\$)</b>	<b>13897.2</b>

## Budget summary:

The grant total was \$19,645. The amount spent on the water projects up until March 2020 was \$4213.20. Several costly parts to fix pump breakdowns contributed to a total spend on the water projects of \$9684 from March to July 2020, but it is anticipated that these parts will last for many years. As reported above, the cumulative total for repairs & maintenance thus far is \$13,897.20.

This amount, subtracted from the grant total leaves \$5,747.80 in funds for ongoing maintenance to provide a continuous supply of clean water for approximately 26,000 people who benefit.

## Thank you:

Once again, MEAK and the Milgis Trust wish to thank Fondation Eagle for the generous grant that has enabled the maintenance & upkeep of the water projects which are a necessity to the health & livelihoods of the Milgis community.

Fondation Eagle can feel justifiably proud that they have made such a difference to so many people's lives and wellbeing. We look forward to further similar collaborative efforts in the future.