



ODFL Project Details

Ngungu Secondary School Girls' Pit latrines



Current girls' latrines at Ngungu



Latrines built by KISI, our NGO

PROJECT NAME: Ngungu Secondary School Girls' pit latrines

PROJECT SUMMARY: We will build a block of 4 pit latrines for the girls at Ngungu Day Secondary School in Kirinyaga, Kenya. The current latrines are unsanitary and unsafe. The Project will cost \$5,950 of which the community is contributing \$1,950 for a total ODFL participation of \$4,000.

PROJECT PARTNERS:

One Dollar For Life (ODFL) helps American donors build classrooms and other infrastructure projects in developing countries from donations as small as one dollar. Since founding in 2007, ODFL has completed more than 120 such projects in 16 countries in Asia, Central America, and Africa. ODFL is an IRS registered 501c3 nonprofit.

Kiini Sustainable Initiative (KISI) works with communities in Central Kenya, to improve access to education for all Kenyan citizens regardless of income or ethnicity. It has completed a number of projects with ODFL at schools in Central Kenya. KISI is registered as a Non Governmental Organization under the NGO coordinating board in Kenya.

PROJECT MANAGEMENT:

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PROJECT DATES: Within 2 months of funding

ABOUT THE COMMUNITY AND PROJECT: Ngungu is a village located in a rural area of Kenya where the main activities within the community are farming of maize, coffee and tea. Almost all agriculture is provisioned through open furrow irrigation (open ditch) systems that are susceptible to evaporation, leakage, and collapse. Crops are grown for a mixture of domestic consumption and for-market revenue, especially coffee. Distribution channels to international markets are densely layered with middlemen, leaving very little revenue for farmers.

Most people live below the poverty line in uncemented houses made of wood and roofed with iron sheet. Most of the families share pit latrines that are outdated and at risk of collapse and most of the schools lack basic facilities and sufficient classroom space. The community is committed to supporting the school when possible but the challenge is that most families earn less than a dollar per day.

ABOUT THE SCHOOL: The school teaches the Kenyan national standard high school curriculum that consists of mathematics, Kenyan and world History, physical and biological Sciences, agricultural Sciences, domestic (household) sciences, Kiswahili (Kenyan native language), and English. Enrollment continues to gradually increase but is limited by the crumbling infrastructure including the student pit latrines, classrooms and kitchen. This has resulted in students either not going to school at all or joining other schools that are miles away. The increase in truancy has led to a corresponding increase in drug and substance abuse among those students who have stopped attending.

Towards the end 2016, the school had 94 students, nine teachers and three support staff. Five of the teachers are government employed and the others hired by the parents. There are 4 classrooms that have cracks in the walls and crumbling floors, a staffroom that is shared by the teachers as well as the principal, a store and a semi permanent kitchen. A modern exhaustible pit latrine was built for the teachers by ODFL in 2016 and then in 2017, ODFL again built an additional 4 pit latrines and two urinals for the boys. The enrollment in 2017 increased to 106 and this year, is up to 141 as follows:

Class	Boys	Girls	Total
1	15	18	33
2	21	17	38
3	16	20	36
4	20	14	34
Total	72	69	141

The project intends to build 4 pit latrines for use by the girls. Once installed, enrollment at the school is expected to increase to 200 students within one year.

ANTICIPATED BENEFITS: More girls will join the school and be able to compete fully in academics. Currently, many girls stay home from school because of the condition of the toilets, particularly during their monthly menstruation.

BUDGET SUMMARY:

Total costs:

Materials	\$3,696
Labor	\$ 957
Other	\$ 850
Total	\$5,950

ODFL portion:

\$ 3,696
\$ 0
\$ 304
\$ 4,000

DETAILED BUDGET:

The project will build 4 pit latrines. The primary costs of construction are excavation of the pits (which is very labor intensive), materials, stone for lining the pits, concrete blocks for the above-ground structure, and labor. The units are projected to have a serviceable life of 20 years. The Kenyan Ministry of Health has endorsed this project and the KISI staff engineer will oversee construction.

	100 KSH to \$1 US	Kenya Shillings (KSH)	US Dollars (\$)
1.	Excavation of 2 double units, 45 cu feet each	104,000	\$1,040
2.	Ant Termite Poison 1 Liter	3,000	30
3.	Ballast 10 tons	19,000	190
4.	Quarry stones 300 cu ft	18,000	180
5.	Sand 10 tons	22,000	220
6.	Cement 40 bags @ 750ksh	30,000	300
7.	Stones 450 cu ft	36,000	360
8.	Timber 6*1 - 430ft @ 49ksh	21,070	210
9.	15, D-10 ground bars @1060ksh	15,900	159
10.	Barbed wire Roll @5000ksh	5,000	50
11.	Timber 3*2 – 500ft @ 51ksh	25,500	255
12.	Nails 15kg @ 250ksh	3750	38
13.	Iron sheets 21 @ 3M each @ 900ksh	21,900	220
14.	10 kgs Binding wires @300ksh	3,000	30
15.	Doors 4 @ 5765ksh	23,060	230
16.	Paint	18,450	184
17.	Transportation	28,000	280
18.	Labor	159,500	1,595
19.	Plans, Permits, Inspection, misc	37,900	379
	Totals	595,030	5,950
	Portion covered by Kiini		\$1,950
	ODFL portion		\$4,000

SUMMARY AND EVALUATION: We rate this a high priority project. This is based on several factors:

- Existing resources are both overstretched and deficient;
- Latrines will be utilized immediately;
- Latrines will encourage girls to stay in school, especially during menstruation;
- KISI has an excellent working relationships with the community;
- ODFL's productive history of working with KISI;
- Project costs are extremely attractive since community is contributing \$1,950;
- The project has the explicit endorsement of the Ministry of Education and Ministry of Health.