



ODFL Project Prospectus

Pit Latrines for High School Students

Ngungu Secondary School, Kenya



Latrines declared unhygienic by health department. Condemned as too risky for use



New latrines for another ODFL project completed by same NGO partner, Kiini Sustainable Initiative

PROJECT NAME:

Ngungu Day Secondary School Pit Latrine Project

PROJECT SUMMARY:

Provide design, materials, supervision and labor while working alongside the people of Ngungu community to build 4 pit latrines and two urinals at the Ngungu Day Secondary School in Kirinyaga, Kenya.

- The public health department has closed the existing latrines, declaring them unhealthy, unhygienic and at risk of spreading disease.
- The new latrines will ensure no gender sharing amongst students. Since girls have not had a dedicated latrine, they skip school during their monthly menses.

PROJECT PARTNERS:

One Dollar for Life (ODFL) and Kiini Sustainable Initiative (KISI).

One Dollar For Life (ODFL) helps American students and individuals build classrooms and other infrastructure projects in the developing world from donations as small as one dollar (hence its name). Since its founding in 2007, ODFL has completed 81 such projects in nine countries in Asia, Central America, and Africa. ODFL is an IRS registered 501(c)3 non-profit.

Kiini Sustainable Initiative (KISI) has worked with communities in Central Kenya since 2007 to improve access to education. It has constructed a number of pit latrines at various schools within Central Kenya and plans to build more classrooms and latrines for additional schools. KISI has an office in Nyeri and is registered as a Non Governmental Organization under the NGO coordinating board in Kenya.

PROJECT MANAGEMENT:

Kiini Sustainable Initiative

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PROJECT DATES:

Immediate, 2017

ABOUT THE COMMUNITY:

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. There is a sporadic amount of small

animal husbandry, for example, chickens, goats, rabbits, etc. to supplement local subsistence diets. Almost all agriculture is provisioned through open furrow irrigation (open ditch) systems which is susceptible to evaporation, leakage, and collapse. Crops are grown for a mixture of domestic consumption and for-market revenue, e.g., coffee. Distribution channels to international markets are densely layered with middlemen, leaving very little revenue for farmers.

Ngungu is in Kirinyaga county which is served by both county and national governments. Infrastructure such as electricity, roads, telephone service, etc. is rudimentary and localized mainly to the town center. 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 which are outdated and at risk of collapse. Education is funded by the national government for all children through sixth grade. Quality of education, however, varies widely depending on the designation of schools for priority funding and services.

ABOUT THE SCHOOL:

At the end 2016, the school had 103 students, nine teachers and three support staff. Five of the teachers are government employed and the others are hired by the parents. There are 4 classrooms, a staffroom that is shared by the teachers as well as the principal, a store, and a semi-permanent kitchen in which parents prepare meals for the students during the day. A modern exhaustible pit latrine was built for the teachers by ODFL in 2016 but the student latrines have been declared unfit, unhygienic and at risk of spreading disease.

The school teaches the Kenyan national standard high school curriculum which 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.

ABOUT THE PROJECT:

The project intends to build 4 pit latrines (3 for girls; 1 for boys) and two urinals (boys) for the students. The primary cost associated with construction are excavation of the pits which is very labor intensive, and materials, primarily stone for lining the pits and

concrete block for the above-ground structure. There is also a need to build more classrooms, a staffroom, a kitchen and a library to support increased enrollment. We hope these may be addressed in future ODFL/KISI collaborative projects.

Costs for 4 pit latrines and 2 urinals as per bill of quantity.

Broken Down Costs for Ngungu School Pit Latrine Project

		Kenya Shilling	U.S. Dollar
1.	Excavation 2 double units, 45 feet each	154,000	\$ 1,540
2.	Ballast 1 lorry	15,000	\$ 150
3.	Quarry stones 300 feet	18,000	\$ 180
4.	Sand 1 lorry	16,000	\$ 160
5.	Cement 30 bags @700	21,000	\$ 210
6.	Ndarugo 400 fts	31,000	\$ 310
7.	Timber 6*1-300 fts@49	14,900	\$ 149
8.	Timber 3*2 – 680 fts @51	34,765	\$ 348
9.	Nails for roofing and others 17 kg@250	4,175	\$ 42
10.	Iron Sheets--35 @3M each @750	26,500	\$ 265
11.	Doors 6 @5765 each	34,600	\$ 346
12.	Tiles and Paint	22,550	\$ 226
13.	Transportation	38,000	\$ 380
14.	Labour	132,700	\$ 1,327
15.	Plans, Permits, Inspection, Misc.	57,800	\$ 578
Total		620,990	\$ 6,210

SUMMARY AND EVALUATION:

We rate this a high priority project. That is based on several factors:

- Existing resources are both overstretched and deficient;
- The need is immediate and severe (danger of disease is imminent);
- Expansion will be utilized immediately and benefit more than 100 students;
- Expansion will allow expanded access to new high school students and classes;
- KISI has an excellent working relationships with the Ngungu community;
- ODFL has a multi-year, multi-project productive history of working with KISI;
- Project costs are extremely attractive for double units;
- Project has the explicit endorsement of Ministry of Education and Ministry of Health.