



ODFL Project Details

Classroom for students
Ngungu Day Secondary School
Kirinyaga, Kenya



Dilapidated dining hall used for overflow classes

PROJECT NAME: Ngungu Day Secondary School Classroom Project

PROJECT SUMMARY:

Provide design, materials and supervision while working alongside the people of Ngungu community to build one classroom measuring 26'x 25' at the Ngungu Day Secondary School in Kirinyaga, Kenya.

- Existing classrooms are decrepit and insufficient for the growing student population.
- The school uses the dining hall during block lessons (see photo, above).
- The new classroom will ensure that there is sufficient space, quality facilities, and a conducive environment for learning.
- The project will cost \$14,400. All funds raised go into the project.
- This will be the sixth classroom ODFL has built in Kenya.

PROJECT PARTNERS:

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

One Dollar For Life (ODFL) helps American donors build small-scale infrastructure projects in the developing world from donations as small as one dollar (hence its name). Since its founding in 2007, ODFL has completed 100 such projects in ten countries in Asia, Central America, and Africa. ODFL is an IRS registered 501(c)3 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:

Kiini Sustainable Initiative

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PROJECT DATES:

Immediate, 2018

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. 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the families share pit latrines that are outdated and at risk of collapse and most of the schools lack basic facilities and sufficient classroom space.

ABOUT THE SCHOOL:

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 are 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 students. The enrollment in 2017 increased to 106 and this year, is up to 122 as follows:

Class	Boys	Girls	Total
1	14	15	29
2	10	20	30
3	16	19	35
4	17	11	28
Total	57	65	122

The school lacks enough classrooms, especially during block lessons. Enrollment continues to gradually increase but is limited by the crumbling infrastructure of the student classrooms, dilapidated laboratory with no facilities, 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.

ABOUT THE PROJECT:

The current project intends to build 1 classroom for the students. If it is successful, i.e., completed on time, in budget, at standard, and utilized as expected, there is a hope that as many as 3 additional classrooms can be added. The school also needs a kitchen, a staff room, and a library to be able to absorb increased enrollment while offering good educational facilities. Project design and construction will be supervised by KISI's resident engineer.

CLASSROOM BUDGET:

NGUNGU DAY SECONDARY SCHOOL BUDGET FOR ONE CLASSROOM

(1 USD = 100KSH)

ITEM	UNITS	QUANTITY	PRICE	AMT (KSH)	AMT (USD)
SUB-STRUCTURE/SUPERSTRUCTURE					
1 Concrete blocks 8"	unit	620	60	37200	372
2 Concrete blocks 6"	unit	1600	80	128000	1280
3 Cement 50kg	Bags	176	750	132000	1320
4 Crushed stones/ballast	Tonnes	30	1900	57000	570
5 Murram	Tonnes	42	1300	54600	546
6 Sand	Tonnes	35	2600	91000	910
7 Ant termite poison 1ltr	unit	2	3000	6000	60
8 D-10 deformed bars	unit	31	1060	32860	329
9 D-12 deformed bars	unit	8	1340	10720	108
10 D-16 deformed bars	unit	12	1800	21600	216
11 Polythene sheet	unit	1	10800	10800	108
12 R-6 bars	unit	28	800	22400	224
13 Concrete wire 2"	Roll	1	9200	9200	92
14 Brick wire 4"	Roll	7	6500	45500	455
15 Brick force wire 6"	Roll	12	300	3600	36
16 Air vents	Pair	10	200	2000	20
17 Tie wire (2.5mm)	Rolls	4	450	1800	18
18 DPc 8"	Roll	1	2000	2000	20
19 DPc 6"	Roll	3	1000	3000	30
20 Wire nails 5"	kgs	5	200	1000	10
21 Wire nails 4"	Kgs	5	200	1000	10
22 wire nails 3"	Kgs	4	200	800	8
23 wire nails 2"	Kgs	4	200	800	8
24 steel nails 4"	Kgs	4	350	1400	14
25 steel nails 3"	Kgs	4	350	1400	14
26 steel nails 2"	kgs	4	350	1400	14
27 Wheelbarrow	unit	2	5000	10000	100

28	spade	unit	2	1200	2400	24
29	shovel	unit	2	1200	2400	24
30	Hoe	unit	2	1000	2000	20
31	claw hammer	unit	3	700	2100	21
32	Hacksaw blade	unit	4	300	1200	12
33	cutting disc	unit	2	200	400	4
34	drums 210 litres	unit	2	5000	10000	100
35	Metal buckets	unit	4	1000	4000	40
	SUBTOTAL	unit			713580	7137
ROOFING						
36	IT4 roofing sheets 3m	unit	38	4000	152000	1520
37	IT4 roofing sheets 2m	unit	18	3500	63000	630
38	IT4 Ridges 2mx0.5mm	unit	8	700	5600	56
39	u hooks roofing nails	unit	400	35	1400	14
40	spider trusses ST250.4.0m	unit	7	900	6300	63
	SUBTOTAL				228300	2283
CARPENTRY WORKS AND TIMBER						
41	Timber 200x25x5m	unit	23	1200	27600	276
42	Timber 150x50x5m	unit	13	1100	14300	143
43	Timber 100x50x5m	unit	7	1000	7000	70
44	Timber 50x50x5m	unit	20	700	14000	140
45	10mm thick soft board	unit	3	900	2700	27
46	Block board 18mm	unit	8	6000	48000	480
47	hardwood doors 2100x920	unit	1	9000	9000	90
48	1 lever mortice lock	unit	1	1200	1200	12
49	Barrel bolts 75mm	set	1	500	500	5
50	Wood screws	pkt	1	400	400	4
	SUBTOTAL				124700	1247
METAL WORKS						
51	Door frame and steel door	unit	1	15000	15000	150
52	Double steel grill door	unit	1	20000	20000	200
53	Window frames	unit	6	6600	39600	396
	SUBTOTAL				74600	746
PAINTING AND FINISHING						
54	Undercoat 5 litre bucket	unit	5	2800	14000	140
55	PVA cream 5 litre bucket	unit	4	2500	10000	100

56	Green chalkboard 4 litre bucket	unit	2	3000	6000	60
57	Green gloss 4 litre bucket	unit	1	3000	3000	30
58	Black bituminous 5 litres	unit	1	3000	3000	30
59	Thinners 5 litres	unit	6	1000	6000	60
60	Clear varnish 4 litre bucket	unit	2	1800	3600	36
61	Wood primer 5 litre bucket	unit	1	1800	1800	18
62	Wood glue 4 litre	unit	1	1300	1300	13
63	Window glazing			30000	30000	300
64	windows (metal)	unit	6	5000	30000	300
65	Painting glasses	sheet	4	5000	20000	200
	SUBTOTAL				128700	1287
MANAGEMENT						
66	Design	unit	1		55000	550
67	Site Supervision	unit	1		83000	830
68	Inspection	unit	1		13000	130
69	Permitting	unit	1		6000	60
70	Auditing	unit	1		9000	90
71	Reporting	unit	1		4000	40
	SUBTOTAL				170000	1700
GRAND TOTAL					1440000	14400

SUMMARY AND EVALUATION:

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

- Existing resources are both overstretched and deficient;
- Expansion will be utilized immediately;
- Expansion will open up access to facilities for new high school classes;
- The school faculty and administration is excellent and cooperative
- KISI has an excellent working relationships with the local community;
- ODFL's productive history of working with KISI;
- The project comports with both ODFL's and KISI's core mission
- The project has the explicit endorsement of the Ministry of Education and the Ministry of Health.
- The project will serve as a model for expansion of other schools in the area