



TGUP Campaign Details

Kanjuu Secondary School
Combined Projects Details
Ngariama, Kenya

PROJECT NAME:

Kanjuu Mixed Day
Secondary School
Combined Projects

PROJECT SUMMARY:

Provide design, materials
and supervision while
working with the people
of Kanjuu, Ngariama
Zone, Njukiini ward,

Kirinyaga East community to complete the following three projects:



1. Build a **classroom** measuring 28'x 28' at the Kanjuu Mixed Day Secondary School. The project will cost \$17,177. Of this, \$3,000 is being contributed by the community, leaving \$14,177 to be funded. This will be the 9th classroom The Global Uplift Project has built in Kenya.
2. Install **electricity** to the entire school. The installation will cost \$2,314. Of this, \$500 is being contributed by the community for a net cost of \$1,814.
3. Build-out the existing **science room** with locking cupboards and shelving in preparation for the installation of a Science Lab in a Box. The project will cost \$2,786 and the community is again contributing \$500 for a total requested amount of \$2,286.

The total funding needed to complete these three projects is \$18,277. Should we need an "overflow" project to absorb an excess of funds raised beyond this amount, TGUP will install one of its **Science Labs in a Box**. A **SLaB** contains the equipment, instruments, and supplies needed for a school to carry out sophisticated lab work in Biology, Chemistry, and Physics. It comes with 10 pre-loaded experiments that are deemed central to the teaching of each of these three disciplines. A fully configured **SLaB** costs \$2,500, installed. 100% of All funds raised go into the project.

PROJECT PARTNERS:

The Global Uplift Project (TGUP) helps American donors build small-scale infrastructure projects in developing countries from donations as small as one dollar. Since its founding in 2007, TGUP has completed more than 180 such projects in 17 countries in Asia, Central America, and Africa. TGUP is a 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 many projects with TGUP at schools in Central Kenya. KISI is a registered Non-Governmental Organization under the Kenyan NGO coordinating board.

PROJECT MANAGEMENT:

Kiini Sustainable Initiative

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PROJECT DATES: As soon as funding is available

PROJECT DETAILS:

Classroom: The project will start by clearing the bushes around the area and excavation to level the land. A strong foundation will be laid comprised of murrum, hardcore, cement and rebar. Quarry stones will be used to reinforce the foundation and after the slab, Ndarugo stones will be used up to the lintel. The classroom will have 5 glazed glass windows and one steel door. The roof will be comprised of colored iron sheets which will last for many years.

Two blackboards will be installed on the front wall of the room. The metal window frames, and the walls, will be primed and then given three coats of paint. The classroom will have a verandah with metal poles supporting the roof. In all,

the building is expected to take three months or less to complete. The finished structure will last for at least 40 years.

Currently, the school is required to limit enrollment due to lack of facilities and classroom space. The new classroom will allow more students to attend school and create an environment that is conducive to good learning. The classroom will cost \$17,177 in total, but the local community will provide \$3,000 in labor towards the cost so the total requested is \$14,177.

Electricity: Once the classroom has been completed, electricity will be installed throughout the entire school. Currently, a few classrooms have electricity, but it is old, frayed and dangerous. This wiring will be replaced along with new conduit to all rooms. The total price is \$2,314, of which \$500 will be provided by the community, leaving \$1,814 to be funded.

Science Lab: In anticipation of the installation of TGUP's Science Lab in a Box, three locking cupboards and 30 shelves will be installed. The gross cost is \$2,786 but is reduced by \$500 of community contribution making a net cost of \$2,286.

THE COMMUNITY:

Kanjuu is a growing village located in a rural area of Ngariama, in Kirinyaga County, with a population of 13,547 people. There are 3,826 households with an average of between 5-8 children. The majority of local people are peasant farmers growing maize, coffee, French beans, bananas, and avocados. Most people live below the poverty line and in houses made of wood planks, roofed with iron sheets.



The majority of 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 area receives very low rainfall, so the community relies on wells and water harvesting for domestic use. Some homes have electricity, depending on the grid and the family income.

THE SCHOOL:

Kanjuu Mixed Day Secondary School started in January 2004 under the primary school Committee provision Certificate of Registration. In January 2007, the Teacher Service Commission (TSC) assigned a Principal to manage the school and the school attained full registration. Currently, the school has a population of 140 students (69 boys and 71 girls), 10 teaching staff and 6 support staff.

The school has 3 acres with a common shared playground and 5 classrooms inherited from the primary school that are in need of upgrade. They practice farming including raising maize, beans, coffee, and rearing dairy cows. These products are sold in the nearby market to help finance the students' meals. There is also a kitchen garden to supplement the kitchen.

Electricity and water are not currently fully distributed within the school. There is a community borehole which is being constructed within the school that will supply water.

The school has continued to grow and in 2020, enrollment increased by 40 students. The school attendance has great potential for growth with improved facilities, including more classrooms, a good kitchen, a science lab, a library and installation of electricity. The students' enrollment per class is as follows:

Class	Boys	Girls	Total
Form 1	13	21	34
Form 2	23	16	39
Form 3	14	20	34
Form 4	19	14	33
Total	69	71	140

The school lacks sufficient classrooms and the existing ones are in bad shape. There is no library or storage room for textbooks, no dining hall and the kitchen is terrible. They do have a rudimentary science lab that needs to be upgraded.

Enrollment continues to gradually increase but is limited by the crumbling infrastructure of the student' classrooms. 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 an increase in drug and substance abuse as well as early marriages. Boys are employed as shamba boys (male prostitutes) or watchmen. Girls are misused and it is for this reason KISI through TGUP's ***Save a Girl*** project will supply reusable kits to the girls at school.



BUDGET SUMMARY:

Classroom:	\$ 17,177
Electricity:	\$ 2,314
Science Lab Build-out:	\$ 2,786
Community contribution:	<u>\$ 4,000</u>
Total requested	\$ 18,277

Classroom Budget					
SUB-STRUCTURE/SUPERSTRUCTURE	Units	Quantity	Rate	Ksh	US\$
Concrete blocks 8"	NO	600	52.5	31,500	\$315
Concrete blocks 6"	NO	1,545	67.5	104,288	\$1,043
Cement 50kg	Bags	170	562.5	95,625	\$956
Crushed stones/ballast	Tonnes	29	1575	45,675	\$457
Murram	Tonnes	41	1275	51,638	\$516
Sand	Tonnes	41	2175	88,088	\$881
BRC WireMesh	Rolls	2	4875	9,750	\$98
Ant termite poison 1ltr	NO	2	2625	5,250	\$53
D-10 deformed bars	NO	30	945	28,350	\$284
D-12 deformed bars	NO	8	1005	8,040	\$80
D-16 deformed bars	NO	12	1500	18,000	\$180
Polythene sheet	NO	1	8100	8,100	\$81
R-6 bars	NO	27	600	16,200	\$162
Concrete wire 2"	Roll	1	6900	6,900	\$69
Brick wire 4"	Roll	7	4875	34,125	\$341
Brick force wire 6"	Roll	12	225	2,700	\$27
Air vents	Pair	10	187.5	1,875	\$19
Tie wire (2.5mm)	Rolls	4	337.5	1,350	\$14
DPc 8"	Roll	1	1500	1,500	\$15
DPc 6"	Roll	3	750	2,250	\$23
Wire nails 5"	kgs	5	150	750	\$8

Wire nails 4"	Kgs	5	150	750	\$8
wire nails 3"	Kgs	4	150	600	\$6
wire nails 2"	Kgs	4	150	600	\$6
steel nails 4"	Kgs	4	262.5	1,050	\$11
steel nails 3"	Kgs	4	262.5	1,050	\$11
steel nails 2"	kgs	4	262.5	1,050	\$11
Wheelbarrow	NO	2	3750	7,500	\$75
spade	NO	2	900	1,800	\$18
shovel	NO	2	900	1,800	\$18
Hoe	NO	2	750	1,500	\$15
claw hammer	NO	3	525	1,575	\$16
Hacksaw blade	No.	4	225	900	\$9
cutting disc	NO	2	375	750	\$8
drums 210 litres	NO	2	3750	7,500	\$75
Metal buckets	NO	4	750	3,000	\$30
Subtotal				593,378	\$5,934
ROOFING					
IT4 roofing sheets 3m	NO	37	3000	111,000	\$1,110
IT4 roofing sheets 2m	NO	17	2625	44,625	\$446
IT4 Ridges 2mx0.5mm	NO	8	525	4,200	\$42
u hooks roofing nails	NO	30	262.5	7,875	\$79
spider trusses ST250.4.0m	NO	6	675	4,050	\$41
Subtotal				171,750	\$1,718
CARPENTRY WORKS AND TIMBER					
Timber 200x25x5m	NO	23	900	20,700	\$207
Timber 150x50x5m	NO	13	825	10,725	\$107
Timber 100x50x5m	NO	7	750	5,250	\$53
Timber 50x50x5m	NO	20	525	10,500	\$105
10mm thick soft board	NO	3	675	2,025	\$20
Block board 18mm	NO	28	1350	37,800	\$378
hardwood doors 2100x920	NO	1	6750	6,750	\$68
1 lever mortice lock	NO	1	900	900	\$9
Barrel bolts 75mm	set	1	375	375	\$4
Wood screws	pkt	1	300	300	\$3
Subtotal				95,325	\$953
METAL WORKS					
Door frame and steel door	NO	1	15000	15,000	\$150
Installation of cables and electricity	set	1	33750	33,750	\$338
Verandah Supporters	NO	6	4950	29,700	\$297
Subtotal				78,450	\$785
PAINTING AND FINISHING					
Undercoat 5 litre bucket	NO	5	2100	10,500	\$105
PVA cream 5 litre bucket	NO	4	1875	7,500	\$75
Green chalkboard 4 litre bucket	NO	2	2250	4,500	\$45

Green gloss 4 litre bucket	NO	1	2250	2,250	\$23
Black bituminous 5 litres	NO	1	2250	2,250	\$23
Thinners 5 litres	NO	6	750	4,500	\$45
Clear varnish 4 litre bucket	NO	2	1350	2,700	\$27
Wood primer 5 litre bucket	NO	1	1350	1,350	\$14
Wood glue 4 litre	NO	1	975	975	\$10
Window glazing	Item		22500	0	\$0
windows (metal)	NO	6	4500	27,000	\$270
Painting glasses	sheet	4	3750	15,000	\$150
Subtotal				78,525	\$785
Plans, permits, inspection, misc				95,320	\$953
Labor				365,000	\$3,650
Project management				240,000	\$2,400
Community contribution				300,000	\$3,000
Total Requested				1,417,748	\$14,177

Electricity Budget		
ITEM	Kenya Shillings (KSH)	US Dollars (\$)
10 rolls 1.5mm2, 2.5mm2, 4.0mm2 T/E(red,black green)	62,500	625
20 pcs *4fts fluorescent fittings (L.E.D)	39,000	390
60metres armoured cable	12,000	120
1Gang switch- 18pcs	1,950	19.5
Double cut out- 1pcs	1,800	18
Pendant complete holders-6pcs	720	7.2
9mm2 tower clips-4 packets	600	6
Junction boxes- 18 pcs	2,700	27
20mm2 conduits 60pcs	15,000	150
20mm2 metal sandles-60pcs	1,200	12
Insulating tape- 2pcs	240	2.4
1" wood screws- 2 packets	400	4
Socket outlet – 6pcs	1,200	12
4 way consumer unit	3,600	36
Double sockets -8pcs	4,000	40
Double switch boxes – 8pcs	2,000	20
Single switch boxes- 8pcs	800	8
20mm2 4way boxes- 8pcs	320	3.2
Tangit glue	400	4
2 gang switch – 4pcs	480	4.8

Photo cell	3,500	35
Transportation	5,000	50
Labor	19,500	195
Plans, Permits, Inspection, misc	7,900	79
Total	201,210	\$2,012
Community contribution	-50,000	-500
Project management	30,242	302
Total requested	181,452	\$1,814

Science Lab Budget		
Item	Kenya Shillings (KSH)	US Dollars (\$)
Block boards -25	125,000	1250
angline 1/2" - 10	9,500	95
timber 6x1 - 300fts	13,500	135
timber 2x2 - 200fts	13,000	130
nails assorted -15kgs	3,000	30
piano hinges - 30pcs	7,500	75
screw 1/4 - 25packets	5,000	50
locks - 40 pcs	14,000	140
labour	50,000	500
Total	240,500	\$2,405
Community contribution	-50,000	-500
Project management	38,100	381
Total requested	228,600	2,286

SUMMARY AND EVALUATION:

We rate this high priority project based on several factors:

- Existing resources are 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 are cooperative;
- KISI has an excellent working relationship with the local community;
- TGUP's long and productive history of working with KISI (since 2009);
- The project conforms with both TGUP's and KISI's core missions;
- The project is endorsed by Ministry of Education and the Ministry of Health
- The project will serve as a model for expansion of other schools in the area.