



TGUP Project Details

Kanjuu Secondary School Classroom

Ngariama, Kenya

PROJECT NAME:

Kanjuu Mixed Day
Secondary School
Classroom

PROJECT SUMMARY:

Provide design, materials and supervision while working with the people of Kanjuu, Ngariama Zone, Njukiini ward, Kirinyaga East community to build a classroom measuring 28'x 30' 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.



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 170 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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The Global Uplift Project

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PROJECT DATES: Immediate, 2021

PROJECT DETAILS:

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 project 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. All funds raised go into the project.

ABOUT THE COMMUNITY:

Kanjuu is a growing village located in a rural area of Ngariama, in Kirinyaga County, with a population of about 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 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.



ABOUT 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 has great potential of growth with improved facilities, including more classrooms, a good kitchen, latrines for teachers 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 also lack rooms for technical subjects like home science, woodwork etc. 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 watchman. Girls are misused and it is for this reason KISI through TGUP's *Save a Girl* project is planning to supply reusable kits to girls and some community young mothers.

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 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.

BUDGET SUMMARY:

| | | |
|-------------------------------|------------------------|-------------------|
| Material | | \$ 10,174 |
| Labor | | \$ 3,650 |
| Permits, fees, transportation | | \$ 953 |
| Project Management | | \$ 2,400 |
| | Total | \$ 17,177 |
| Community contribution | | <u>\$ - 3,000</u> |
| | Total Requested | \$ 14,177 |

| 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 |
| AMOUNT REQUESTED | | | | 1,417,748 | \$14,177 |