



TGUP Project Details

Classroom

Shining Star Primary School

Nyeri, Kenya



PROJECT NAME: Shining Star Primary School Classroom Project

PROJECT SUMMARY:

Provide design, materials and supervision while working with the people of Tambaya, Nyeri community to build a classroom measuring 37'x 22' at the Shining Star Primary School. The oblong design enables the building to serve multiple functions, including as a classroom and as a gathering place for assemblies and holiday functions. The Project will cost \$17,276. Of this, \$1,700 is being contributed by the community and TGUP is contributing \$2,596 in project management leaving \$12,980 to be funded. This will be the 7th classroom TGUP has built in Kenya.

PROJECT PARTNERS:

The Global Uplift Project (TGUP) and Kiini Sustainable Initiative (KISI)

The Global Uplift Project 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, TGUP has completed 131 such projects in 16 countries in Asia, Central America, and Africa. TGUP is an IRS registered 501c3 nonprofit.

Kiini Sustainable Initiative 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 registered as a Non-Governmental Organization under the NGO coordinating board in Kenya.

PROJECT MANAGEMENT:

Kiini Sustainable Initiative

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Supervising Executive:

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The Global Uplift Project

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PROJECT DATES:

Immediate, 2020

PROJECT DETAILS:

The project will begin by clearing the area of vegetation. Excavation to provide a strong foundation will follow. Trenches will be laid with murram, hardcore, cement and wires. Wire mesh will also be fixed to reinforce the floor which will have red oxide mixture as a final coat. Quarry stones will be used to make it stronger and after the slab, Ndarugo stones will be used up to the lintel. The classroom will have 8 glazed glass windows and two metal doors. The roof will be comprised of colored iron sheets which are of strong gauge that will last for the life of the structure.

Block boards will be installed as undercover from the roof top and a blackboard will be fixed on the front of the room for instruction. Window glazing will be done to ensure the glasses are well fixed and strong. Painting will include a coat of primer, followed by three additional finish coats. A verandah supported with metal bars will be fixed on the front. The entire project will be finished within four months of starting. A new classroom will make it possible for the school to absorb the students from the growing local population. The finished structure will remain serviceable for more than 40 years.

- The school limits the enrollment due to lack of facilities and classroom space.
- The new classroom will make an environment conducive for good learning by more students and teachers.
- The project will cost \$14,680. The community has committed to fund \$1,700 of this cost.

ABOUT THE COMMUNITY:



Tambaya is a growing village located in a rural area of Mukurweini in Nyeri County with a population of about 9000 people, 1200 households, with an average of 5-6 children per household. The locals are peasant farmers growing maize, coffee, and tea. Most people live below the poverty line and live in houses made of wood planks and roofed with iron sheets. Most of the families share pit latrines that are

outdated and at risk of collapse. Most of the schools lack basic facilities and sufficient classroom space.

For water, the homes rely on water from the River Gura which is the fastest river in Africa. Some homes have electricity, depending on the grid, and the family income. Tambaya is a “converging village,” to which families evacuate following flooding from the river, as it is higher ground and the safest close place for settlement.

ABOUT THE SCHOOL:

Shining Star School started in January 1999 as a nursery school measuring 12*10 feet in a rented room within Tambaya trading center. The enrollment started with 6 students and rose to 24 by the end of the year.

In the year 2002, the school managed to secure vacant land and thus relocated to its new, current location. The school has continued to grow and in 2010 the first class graduated the eighth grade. That is when pupils sit for the Kenya certificate of primary education examination in order to join secondary level. The student population had risen to 450 but due to lack of adequate facilities, in particular classrooms and latrines as required by the Ministries of Education and Public Health, the student population was reduced to 250. The school has great potential for growth if well equipped to absorb the growing population by provision of more classrooms, latrines, and electricity. Currently the school has 269 pupils, 11 teachers, and four support staffs. The enrollment per grade is as follows:

Class	Boys	Girls	Total
Play group	14	12	26
PP1	12	13	25
PP2	14	12	26
1	13	7	20
2	12	9	21
3	18	17	35
4	11	12	23
5	12	13	25
6	14	12	26
7	17	11	28
8	7	8	15
Total	134	135	269

The school lacks sufficient classrooms and the existing ones are in ill repair. A new curriculum has been introduced in Kenya called Competence Based Curriculum. This is now mandatory from play group through grade four. Here, in addition to standard reading and writing, etc., the pupils are taught on family chores, how to take care of the environment, safety, and basic human needs. This requires more practical-based instruction compared to the older system which was based on more theory. This requires more space for movement and equipment for playing. The school does not have electricity or running water, both of which are needed. These can be added later.

The school also lacks enough sanitation facilities for different ages of pupils. The water harvesting system (rainwater collection) is weak and needs to be enhanced so as to reduce the time spent fetching water from the Gura River. The school has 11 rooms similar to a classroom but which are temporary and dark. This makes it hard for the pupils to learn well during morning hours and when it is cloudy. There is also no separation of latrines between the lower grade (1-3) and upper level (4-8) students. Thus, there is a need for more latrines to separate the ages. These are planned for future projects. KISI has much experience with these kinds of enhancements. Once the basic structure is in place, they can easily be added over time to complete the plan.



Enrollment continues to increase but is limited by the deficient infrastructure. This has resulted in pupils 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) and watchmen and this increases the chances of crime especially during election due to handouts given by politicians. Girls are misused and it is for this reason KISI, through TGUP's Girls Equality Project, supplies hundreds of reusable sanitary kits to girls and community young mothers. More kits are needed to ensure hygiene and to bring back morals. All of these problems will be improved by the new classroom.

SUMMARY AND EVALUATION:

We rate this a 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 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 the Ministries of Education and Health;
- The project will serve as a model for expansion of other schools in the area.

SHINING STAR SCHOOL BUDGET FOR ONE CLASSROOM

						(1 USD = 100KSH)
ITEM	UNITS	QUANTITY	PRICE	AMT (KSH)	AMT (USD)	
SUB-STRUCTURE/SUPERSTRUCTURE						
1 Concrete blocks 8"	unit	730	70	51,100	511	
2 Concrete blocks 6"	unit	2000	85	170,000	1,700	
3 Cement 50kg	Bags	184	750	138,000	1,380	
4 Crushed stones/ballast	Tonnes	33	1,900	62,700	627	
5 Murram	Tonnes	42	1,500	63,000	630	
6 Sand	Tonnes	35	2,700	94,500	945	
7 Ant termite poison 1ltr	unit	2	3,500	7,000	70	
8 D-10 deformed bars	unit	12	1,060	12,720	127	
9 D-12 deformed bars	unit	24	1,340	32,160	322	
10 D-16 deformed bars	unit	12	1,800	21,600	216	
11 Polythene sheet	unit	1	10,800	10,800	108	
12 R-6 bars	unit	18	800	14,400	144	
13 Concrete wire 2"	Roll	1	9,200	9,200	92	
14 Brick wire 4"	Roll	7	6,500	45,500	455	
15 Brick force wire 6"	Roll	12	300	3,600	36	
16 Air vents	Pair	10	200	2,000	20	
17 Tie wire (2.5mm)	Rolls	4	450	1,800	18	
18 DPc 8"	Roll	1	2,000	2,000	20	
19 DPc 6"	Roll	3	1,000	3,000	30	
20 Wire nails 5"	kgs	5	200	1,000	10	
21 Wire nails 4"	Kgs	5	200	1,000	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	1,400	14	

25	steel nails 3"	Kgs	4	350	1,400	14
26	steel nails 2"	kgs	4	350	1,400	14
	SUBTOTAL	unit			752,880	\$7,529

ROOFING

27	IT4 roofing sheets 3m	unit	40	4,000	160,000	1,600
28	IT4 roofing sheets 2m	unit	17	3,500	59,500	595
29	IT4 Ridges 2mx0.5mm	unit	10	700	7,000	70
30	u hooks roofing nails	unit	400	35	14,000	140
31	spider trusses ST250.4.0m	unit	7	900	6,300	63
	SUBTOTAL				246,800	\$2,468

CARPENTRY WORKS AND TIMBER

32	Timber 200x25x5m	unit	33	1,100	36,300	363
33	Timber 150x50x5m	unit	13	1,000	13,000	130
34	Timber 100x50x5m	unit	13	900	11,700	117
35	Timber 50x50x5m	unit	14	800	11,200	112
36	10mm thick soft board	unit	3	900	2,700	27
37	Block board 18mm	unit	30	1,500	45,000	450
38	1 lever mortice lock	unit	1	1,200	1,200	12
39	Barrel bolts 75mm	set	1	500	500	5
40	Wood screws	pkt	1	400	400	4
	SUBTOTAL				122,000	\$1,220

METAL WORKS

41	Door frame and steel door	unit	2	15,000	30,000	300
42	Window frames	unit	8	7,200	57,600	576
	SUBTOTAL				87,600	\$876

PAINTING AND FINISHING

43	Undercoat 5 litre bucket	unit	5	2,800	14,000	140
44	PVA cream 5 litre bucket	unit	4	2,500	10,000	100
45	Green chalkboard 4 litre bucket	unit	2	3,000	6,000	60
46	Green gloss 4 litre bucket	unit	1	3,000	3,000	30
47	Black bituminous 5 litres	unit	1	3,000	3,000	30
48	Thinners 5 litres	unit	6	1,000	6,000	60
49	Clear varnish 4 litre bucket	unit	2	1,800	3,600	36
50	Wood primer 5 litre bucket	unit	1	1,800	1,800	18
51	Wood glue 4 litre	unit	1	1,300	1,300	13
52	Window glazing			20,000	20,000	200
53	Painting glasses	sheet	8	2,500	20,000	200
	SUBTOTAL				88,700	887

GRAND TOTAL					1,297,980	\$12,980
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MANAGEMENT (community will donate the following)

63	Design	unit	1	55,000	550
64	Site Supervision	unit	1	83,000	830
65	Inspection	unit	1	13,000	130
66	Permitting	unit	1	6,000	60
67	Auditing	unit	1	9,000	90
68	Reporting	unit	1	4,000	40
69	Project Management	unit	1	259,596	2,596
	SUBTOTAL			\$429,596	\$4,296
		Total including community contributions)		1,727,576	\$17,276