



TGUP Project Proposal

Major Expansion

Irigithathi Mixed Primary Day School

Naro Moru, Nyeri, Kenya



PROJECT OVERVIEW

Irigithathi is a Mixed Day Primary School in Naro Moru, Nyeri County Kenya. It has 248 mainstream students and 49 Special Needs students in grades one through eight. It is one of the few schools in the country that educates mainstream and Special Needs students together, in what is called the “Integrated Model.”

The present project will build two dormitories to house a total of 60 new Special Needs students (30 boys; 30 girls) at the school. Other major structures needed to support this expansion include a kitchen/dining hall to serve the new students and a new classroom.

The Project will be completed in two phases. Phase One will build one dormitory, one classroom and some ancillary projects. Phase Two will build the second dormitory and the new kitchen/dining hall complex. Phase One will cost \$79,883; Phase Two, \$85,268. With prompt funding, the entire Project can be completed in 2024.

BUDGET SUMMARY

Phase One

<u>Project Element</u>	<u>Cost</u>
Dormitory, Girls	\$43,385
Bunkbeds, Girls	\$6,791
Classroom	\$17,382
Desks	\$5,194
Wheelchair pathways	\$7,081
Total	\$79,833

Phase Two

<u>Project Element</u>	
Dormitory, Boys	\$43,385
Kitchen/Dining Hall /Jikos	\$41,883
Total	\$85,268
Total	\$165,101

Ancillary Elements Not Funded Above

Dining Hall Furniture	\$6,331
Bunkbeds, Boys	\$6,791
Total	\$13,122

PROJECT PARTNERS



The Global Uplift Project (TGUP) helps American donors build infrastructure projects in developing countries. Since its founding in 2007, TGUP has completed [more than 400 projects](#) in 26 countries in Asia, Central America, and Africa. It has completed 232 projects in Africa, including [131 projects in Kenya](#). TGUP is a U.S.-based 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 more than 120 projects for TGUP at schools in Central Kenya, including the extensive renovation of the [Special Needs School at Karatina](#), in 2023. KISI is a registered Non-Governmental Organization under the Kenyan NGO coordinating board.

PROJECT MANAGEMENT

The Global Uplift Project

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COMMUNITY

Irithathi school is located in Nyeri county, one of Kenya's 47 counties. It is part of the Naro Moru zone, Manyatta sub-location. As of the last census, the county had 854,862 residents. It suffers problems of geography, (mis)development, and demographics, all interrelated.

The county lies on the equator; Irithathi, itself, less than 1° south. It sits between the major geologic formations of Mt. Kenya (5,199 meters) to the east and the Aberdare range (3,999



meters) to the west. These facts—latitude and altitude, combined with developmental damage—create unique challenges.



Topography is typically deep valleys and sharp-ridged ravines. Rainfall is plentiful, though seasonal, but has become something of a curse due to over cutting of native forests and poor resultant soil retention. There are many negative externalities of short-sighted, rapacious development.

The main livelihood is farming, but foreign-owned plantation farms growing coffee, tea, tropical fruits, and other crops for export, have eroded soils and filled natural drainages. The result of all of this is a shallow economic base where much of the profit is removed from the area, leaving little for deep economic development, and with many compounding complications remaining.

Most of the residents are itinerant farm laborers, working on foreign- or domestically-owned plantations. There are some small freeholding land owners carrying out subsistence farming, but those are rare. There are some who work for the government, but those, too, are a small minority. The majority of the community are poor, economically tenuous, and uneducated.

There are an estimated eight residents per household. Most households have dirt floors, are made of ramshackle planks with, at best, a sheet of corrugated metal for a roof. Very few have electricity or running water. Few families have any access to healthcare. Parents of existing school children are estimated to have an average of a third-grade education. This might be high. The best analogue for the community's level of development is probably something like Appalachia in the 1920s.



IRIGITHATHI SCHOOL

Irigithathi is one of the few schools in Kenya that educates mainstream and Special Needs students in the same setting. This is extremely desirable because it greatly

reduces costs and exposes mainstream and Special Needs students to each other as normal members of society.



Of the 49 current Special Needs students at the school, 41 are physically handicapped, eight are mentally handicapped. Most of the Special Needs students live at the Naro Moru Disabled Children's Home, nearby. It is operated by the Catholic Church.

They come from all over the country and return there at night. There are 15 teachers at the school, four of whom are Special Needs trained and dedicated.

The head Special Needs teacher is Mr. James Tohodo. He has a four-year undergraduate degree, a two-year teaching certificate, and two years of specialized Special Needs education at the Kenya Institute of Special Education. He has been teaching Special Needs students for 8 years. He is intelligent, articulate, energetic, and exceptionally passionate about his stewardship of Special Needs students. He is well-connected to the Special Needs division in the national Ministry of Education and is a member of the National Special Needs Coordinating Forum. He serves as Secretary of the school's Board of Management (School Board).

Special Needs students at Irigithathi are evaluated upon entrance to the school and placed in developmentally appropriate pathways. Each student receives up to two hours per day of dedicated assistance per their unique needs. Students complete the mainstream classes and are evaluated at the completion of the class for



matriculation to the next level. Matriculation is based on demonstrated competence, not on age.

The mood of the campus is inclusive, and affirming of self-empowerment. Students and staff seem to know that they are special, and engaged in something special. It is dotted with small signs of inspiration, encouraging all to hold a positive attitude. The administration reports that Special Needs students with physical disabilities often outperform mainstream students on academic subjects.



Mainstream and Special Needs students mix in all academic and social settings. Each Special Needs student is assigned an upper division “buddy” who volunteers for the responsibility. Mainstream students are seen helping Special Needs students, for example, pushing their wheelchairs, helping them up the access ramps, and making special accommodations in classrooms. Mainstream “buddies” report pride

in being able to help their Special Needs peers.

The school itself was founded in 1953. The school accepted its first Special Needs student in 1982 and has steadily added students since. Most of the structures are made of concrete blocks and appear to be well maintained. The grounds are clean and orderly.

The school is oriented in a “horseshoe” fashion that facilitates movement throughout the campus. See the link to the Site Plan in the Appendix. Raised concrete pathways and ramps for wheelchair access are prevalent throughout the school (see photos at right and lower left on the following page), including to the latrines, which are at the edge of the building space.



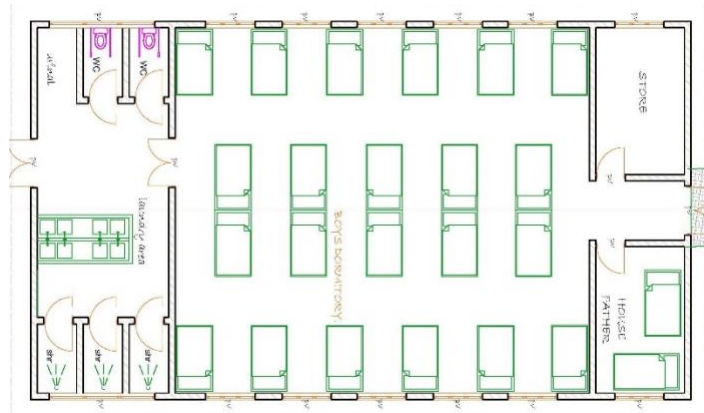


The school sits on a five-acre site. The Site Plan in the Appendix shows the current structures at the eastern side of the property. The intended new structures are those at the western end of the property. This leaves more than two acres of field between the new and old structures, as well as half an acre of gardens at the back which are currently used to grow vegetables to feed the students. These two acres could be used if a “Phase 3”

expansion to a secondary school is undertaken, as mentioned, below.

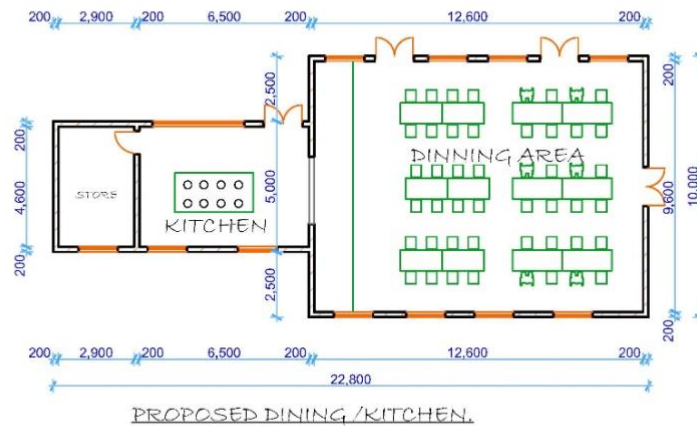
PROJECT DETAILS

- Dormitories.** Two dormitories will be constructed, one for boys; one for girls. Each will house 30 students. The buildings will be 55' X 32'. They will be built on a poured concrete foundation with concrete cinder blocks for walls and zinc-coated sheet metal roofing on rafters for the ceiling.



This meets national building standards for public domiciles. Each building will include a room for a house mother/father, toilets, laundry facilities, and a storage room. See the building design in the Appendix. Each dormitory will cost \$43,839. Students' boarding costs will be met by a combination of government stipend, parental fees, and subsidies by local charity agencies. This is similar to how fees are met by the 120 student boarders at the Karatina Special School where we did substantial work in 2023.

- Kitchen/Dining Hall.** The Kitchen/Dining hall will be of similar construction as the dormitories: poured foundation; cinder block walls; and sheet metal roof. It will include a cooking room with two commercial cooking vats (jikos) capable of serving 300 students a day, and food storage. It will also include a dining area with seating for 100+ students at one time. It is likely this kitchen will supersede the existing school kitchen, which is decades old and inadequate for the higher number of students served. The cost of the Kitchen/Dining Hall/Jikos complex is \$41,883.



- Classroom.** The classroom will be built to Kenyan national standards for education buildings. TGUP has built dozens of classrooms in Africa, mostly in Kenya, as seen [here](#), [here](#), [here](#), [here](#), [here](#), [here](#), [here](#), [here](#), [here](#)... The classroom will cost \$17,382.



- Other Elements.** Other essential elements required for success include:

 - Raised walkways connecting the residential area to the classroom area;
 - Specially designed desks for the disabled students;
 - Bunkbeds for the dormitories; and
 - Dining tables for the Dining Hall.

Only the bunkbeds for the boys' dormitory and raised walkways are included in this proposal. The bunkbeds for the girls' dormitory and tables for the dining hall are outside of the scope. TGUP will raise funds for these elements independently of this Project.

POSSIBLE PROJECT FOLLOW-ON

Irigithathi has the space and the willingness to expand to include secondary school students. This is of interest to national education authorities because it addresses two of their primary challenges: integrating mainstream and Special Need students into the same setting; and ensuring their matriculation to secondary school where they can receive vocational training. Only three schools in the entire country are doing this now.



TGUP has commissioned a leading Kenyan academic to perform a formal evaluation of the Irigithathi integrated education model, assessing its conformance with theoretical standards and its performance against practical standards. Assuming the results are positive, we will share them with the National Ministry of Education for consideration in the national dialogue about Special Needs policy going forward.

DISCUSSION

This is an extraordinary project, in three ways.

Most directly, it is a chance to improve the quality of education for what will become (over the life of the Project) thousands of Kenyan Special Needs students. This will occur because of the mature administration and curriculum of the school, the school's proven "Integrated Model," and the fact that it is one of the highest-performing primary/junior secondary schools in all of Kenya. It cannot be left unsaid, the positive benefit to the mainstream students from being exposed to their Special Needs peers.

The second opportunity—though beyond the scope of this immediate Project—is the direct, open migration path to enact a primary/junior secondary to secondary school using a proven Integrated Model for educating Special Needs students. This is of special interest because without vocational training, which can only occur at the secondary level, Special Needs students' human potential is left undeveloped and they remain wards of the state. Irigithathi is uniquely situated and



able to evolve itself into just such a primary-through-secondary integrated model school.

The final opportunity is the chance to influence Special Needs policy for all of Kenya. This nation's policy for dealing with Special Needs students is in the middle of review right now. Two concerns are especially germane: finding a national model for Integrated Education at all grade levels; and a national model for matriculating primary/JSS students to secondary settings, where they can receive vocational training. The Irigithathi administration and staff are well-connected in the national Special Needs education bureaucracy and will be effective advocates in this important policy discussion.

DETAILED BUDGETS

IRIGITHATHI Projects					
Dining Hall Budget					
SUB-STRUCTURE/SUPERSTRUCTURE	Units	Quantity	Rate	Total Cost in Ksh	Cost in USD (134)
Concrete blocks 9"	NO	900	90	81,000	\$604.48
Concrete blocks 6"	NO	2,260	105	237,300	\$1,770.90
Cement 50kg	Bags	320	900	288,000	\$2,149.25
Crushed stones/ballast	Tonnes	35	3100	108,500	\$809.70
Murram	Tonnes	52	2350	122,200	\$911.94
Sand	Tonnes	52	2900	150,800	\$1,125.37
BRC WireMesh	Rolls	3	37,450	112,350	\$838.43
Ant termite poison 1ltr	NO	3	4280	12,840	\$95.82
D-10 deformed bars	NO	42	1455	61,110	\$456.04
D-12 deformed bars	NO	22	1680	36,960	\$275.82
D-16 deformed bars	NO	20	2800	56,000	\$417.91
Polythene sheet	NO	3	12000	36,000	\$268.66
R-6 bars	NO	39	930	36,270	\$270.67
Concrete wire 2"	Roll	3	9600	28,800	\$214.93
Brick wire 4"	Roll	4	6500	26,000	\$194.03
Brick force wire 6"	Roll	20	400	8,000	\$59.70
Air vents	Pair	12	350	4,200	\$31.34
Tie wire (2.5mm)	Rolls	8	450	3,600	\$26.87
DPc 8"	Roll	3	6500	19,500	\$145.52
DPc 6"	Roll	6	5500	33,000	\$246.27

Wire nails 5"	kgs	5	350	1,750	\$13.06
Wire nails 4"	Kgs	5	350	1,750	\$13.06
wire nails 3"	Kgs	5	350	1,750	\$13.06
wire nails 2"	Kgs	5	350	1,750	\$13.06
steel nails 4"	Kgs	5	550	2,750	\$20.52
steel nails 3"	Kgs	5	550	2,750	\$20.52
steel nails 2"	kgs	5	550	2,750	\$20.52
Wheelbarrow	NO	2	6500	13,000	\$97.01
spade	NO	4	900	3,600	\$26.87
shovel	NO	4	900	3,600	\$26.87
Hoe	NO	4	750	3,000	\$22.39
claw hammer	NO	6	525	3,150	\$23.51
Hacksaw blade	No.	8	300	2,400	\$17.91
cutting disc	NO	6	400	2,400	\$17.91
drums 210 litres	NO	4	3750	15,000	\$111.94
Metal buckets	NO	8	750	6,000	\$44.78
Subtotal				1,529,830	\$11,416.64
ROOFING					
IT4 roofing sheets 3m	NO	48	4400	211,200	\$1,576.12
IT4 roofing sheets 2m	NO	27	3750	101,250	\$755.60
IT4 Ridges 2mx0.5mm	NO	12	800	9,600	\$71.64
u hooks roofing nails	NO	36	550	19,800	\$147.76
spider trusses ST250.4.0m	NO	9	900	8,100	\$60.45
Subtotal				349,950	\$2,611.57
CARPENTRY WORKS AND TIMBER					
Timber 200x25x5m	NO	32	1200	38,400	\$286.57
Timber 150x50x5m	NO	22	1100	24,200	\$180.60
Timber 100x50x5m	NO	12	1000	12,000	\$89.55
Timber 50x50x5m	NO	28	700	19,600	\$146.27
10mm thick soft board	NO	5	900	4,500	\$33.58
Block board 18mm	NO	33	1800	59,400	\$443.28
Wood screws	pkt	1	300	300	\$2.24
Subtotal				158,400	\$1,182.09
METAL WORKS					
Door frame and steel door	NO	3	20000	60,000	\$447.76
Installation of cables and electricity	set	1	95,000	95,000	\$708.96
Verandah Supporters	NO	8	8200	65,600	\$489.55
Subtotal				220,600	\$1,646.27

PAINTING AND FINISHING					
Undercoat 20 litre bucket	NO	5	3000	15,000	\$111.94
PVA cream 20 litre bucket	NO	6	3000	18,000	\$134.33
Green chalkboard 4 litre bucket	NO	4	3,000	12,000	\$89.55
Green gloss 4 litre bucket	NO	2	3000	6,000	\$44.78
Black bituminous 4 litres	NO	2	3,000	6,000	\$44.78
Thinners 5 litres	NO	8	1500	12,000	\$89.55
Clear varnish 4 litre bucket	NO	4	2,200	8,800	\$65.67
Wood primer 5 litre bucket	NO	2	2,500	5,000	\$37.31
Wood glue 4 litre	NO	2	1500	3,000	\$22.39
Window glazing	Item		40,000	40,000	\$298.51
windows (metal)	NO	6	8000	48,000	\$358.21
Painting glasses	sheet	6	7200	43,200	\$322.39
Subtotal				217,000	\$1,619.40
Grand Total				2,475,780	\$18,475.97
Plans, permits, inspection, misc				95,320	\$711.34
water installation				156,000	\$1,164.18
Labor				410,000	\$3,059.70
Community contribution				-200,000	-\$1,492.54
Project management & reporting				453,554	\$3,384.73
Total Requested				3,390,654	\$25,303.39

Classroom Budget					
SUB-STRUCTURE/SUPERSTRUCTURE	Units	Quantity	Rate	Total cost in Ksh	Cost in USD (134)
Concrete blocks 9"	NO	600	90	54,000	\$402.99
Concrete blocks 6"	NO	1,545	105	162,225	\$1,210.63
Cement 50kg	Bags	200	900	180,000	\$1,343.28
Crushed stones/ballast	Tonnes	30	3100	93,000	\$694.03
Murram	Tonnes	45	2350	105,750	\$789.18
Sand	Tonnes	49	2900	142,100	\$1,060.45
BRC WireMesh	Rolls	2	37,450	74,900	\$558.96
Ant termite poison 1ltr	NO	2	4280	8,560	\$63.88
D-10 deformed bars	NO	32	1455	46,560	\$347.46
D-12 deformed bars	NO	12	1680	20,160	\$150.45
D-16 deformed bars	NO	16	2800	44,800	\$334.33
Polythene sheet	NO	1	12000	12,000	\$89.55
R-6 bars	NO	31	930	28,830	\$215.15

Concrete wire 2"	Roll	1	9600	9,600	\$71.64
Brick wire 4"	Roll	7	6500	45,500	\$339.55
Brick force wire 6"	Roll	12	400	4,800	\$35.82
Air vents	Pair	10	350	3,500	\$26.12
Tie wire (2.5mm)	Rolls	4	450	1,800	\$13.43
DPc 8"	Roll	1	6500	6,500	\$48.51
DPc 6"	Roll	3	5500	16,500	\$123.13
Wire nails 5"	kgs	5	350	1,750	\$13.06
Wire nails 4"	Kgs	5	350	1,750	\$13.06
wire nails 3"	Kgs	4	350	1,400	\$10.45
wire nails 2"	Kgs	4	350	1,400	\$10.45
steel nails 4"	Kgs	4	550	2,200	\$16.42
steel nails 3"	Kgs	4	550	2,200	\$16.42
steel nails 2"	kgs	4	550	2,200	\$16.42
Wheelbarrow	NO	2	6500	13,000	\$97.01
spade	NO	2	900	1,800	\$13.43
shovel	NO	2	900	1,800	\$13.43
Hoe	NO	2	750	1,500	\$11.19
claw hammer	NO	3	525	1,575	\$11.75
Hacksaw blade	No.	4	300	1,200	\$8.96
cutting disc	NO	2	400	800	\$5.97
drums 210 litres	NO	2	3750	7,500	\$55.97
Metal buckets	NO	4	750	3,000	\$22.39
Subtotal				1,106,160	\$8,254.93
ROOFING					
IT4 roofing sheets 3m	NO	37	4400	162,800	\$1,214.93
IT4 roofing sheets 2m	NO	17	3750	63,750	\$475.75
IT4 Ridges 2mx0.5mm	NO	8	800	6,400	\$47.76
u hooks roofing nails	NO	30	550	16,500	\$123.13
spider trusses ST250.4.0m	NO	6	900	5,400	\$40.30
Subtotal				254,850	\$1,901.87
CARPENTRY WORKS AND TIMBER					
Timber 200x25x5m	NO	23	1200	27,600	\$205.97
Timber 150x50x5m	NO	13	1100	14,300	\$106.72
Timber 100x50x5m	NO	7	1000	7,000	\$52.24
Timber 50x50x5m	NO	20	700	14,000	\$104.48
10mm thick soft board	NO	3	900	2,700	\$20.15
Block board 18mm	NO	28	1800	50,400	\$376.12

Wood screws	pkt	1	300	300	\$2.24
Subtotal				116,300	\$867.91
METAL WORKS					
Door frame and steel door	NO	1	20,000	20,000	\$149.25
Installation of cables and electricity	set	1	55,000	55,000	\$410.45
Verandah Supporters	NO	6	8200	49,200	\$367.16
Subtotal				124,200	\$926.87
PAINTING AND FINISHING					
Undercoat 20 litre bucket	NO	3	3000	9,000	\$67.16
PVA cream 20 litre bucket	NO	4	3000	12,000	\$89.55
Green chalkboard 4 litre bucket	NO	2	3,000	6,000	\$44.78
Green gloss 4 litre bucket	NO	1	3000	3,000	\$22.39
Black bituminous 4 litres	NO	1	3,000	3,000	\$22.39
Thinners 5 litres	NO	6	1500	9,000	\$67.16
Clear varnish 4 litre bucket	NO	2	2,200	4,400	\$32.84
Wood primer 5 litre bucket	NO	1	2,500	2,500	\$18.66
Wood glue 4 litre	NO	1	1500	1,500	\$11.19
Window glazing	Item		35,000	35,000	\$261.19
windows (metal)	NO	5	8000	40,000	\$298.51
Painting glasses	sheet	4	7200	28,800	\$214.93
Subtotal				154,200	\$1,150.75
Grand Total				1,755,710	\$13,102.31
Plans, permits, inspection, misc				95,320	\$711.34
Labor				390,000	\$2,910.45
Community contribution				-300,000	-\$2,238.81
Project management & reporting				388,206	\$2,897.06
Total Requested				2,329,236	\$17,382.36

Kitchen Budget					
SUB-STRUCTURE/SUPERSTRUCTURE	Units	Quantity	Rate	Total cost in Ksh	Cost in USD (134)
Concrete blocks 9"	NO	300	90	27,000	\$201.49
Concrete blocks 6"	NO	800	105	84,000	\$626.87
Cement 50kg	Bags	120	900	108,000	\$805.97
Crushed stones/ballast	Tonnes	14	3100	43,400	\$323.88
Murram	Tonnes	20	2350	47,000	\$350.75
Sand	Tonnes	35	2900	101,500	\$757.46
BRC WireMesh	Rolls	2	37,450	74,900	\$558.96

Ant termite poison 1ltr	NO	2	4280	8560	\$63.88
D-10 deformed bars	NO	14	1455	20370	\$152.01
D-12 deformed bars	NO	8	1680	13,440	\$100.30
D-16 deformed bars	NO	11	2800	30,800	\$229.85
Polythene sheet	NO	1	12000	12000	\$89.55
R-6 bars	NO	22	930	20,460	\$152.69
Concrete wire 2"	Roll	1	9600	9600	\$71.64
Brick wire 4"	Roll	5	6500	32,500	\$242.54
Brick force wire 6"	Roll	8	400	3,200	\$23.88
Air vents	Pair	6	350	2,100	\$15.67
Tie wire (2.5mm)	Rolls	3	450	1,350	\$10.07
DPc 8"	Roll	1	6500	6,500	\$48.51
DPc 6"	Roll	3	5500	16,500	\$123.13
Wire nails 5"	kgs	4	350	1400	\$10.45
Wire nails 4"	Kgs	4	350	1400	\$10.45
wire nails 3"	Kgs	4	350	1400	\$10.45
wire nails 2"	Kgs	3	350	1050	\$7.84
steel nails 4"	Kgs	3	550	2,200	\$16.42
steel nails 3"	Kgs	3	550	1,650	\$12.31
steel nails 2"	kgs	3	550	1,650	\$12.31
Subtotal				673,930	\$5,029.33
ROOFING					
IT4 roofing sheets 3m	NO	18	4400	79,200	\$591.04
IT4 roofing sheets 2m	NO	9	3750	33,750	\$251.87
IT4 Ridges 2mx0.5mm	NO	5	800	4,000	\$29.85
u hooks roofing nails	NO	9	550	4,950	\$36.94
spider trusses ST250.4.0m	NO	5	900	4,500	\$33.58
Subtotal				126,400	\$943.28
CARPENTRY WORKS AND TIMBER					
Timber 200x25x5m	NO	13	1200	15,600	\$116.42
Timber 150x50x5m	NO	7	1100	7,700	\$57.46
Timber 100x50x5m	NO	4	1000	4,000	\$29.85
Timber 50x50x5m	NO	9	700	6,300	\$47.01
Subtotal				33,600	\$250.75
METAL WORKS					
Door frame and steel door	NO	1	20,000	20,000	\$149.25
Installation of cables and electricity	set	1	35,000	35,000	\$261.19
Verandah Supporters	NO	4	8200	32,800	\$244.78

Subtotal				87,800	\$655.22
PAINTING AND FINISHING					
Undercoat 20 litre bucket	NO	2	3000	6,000	\$44.78
PVA cream 20 litre bucket	NO	2	3000	6,000	\$44.78
Green gloss 4 litre bucket	NO	1	3000	3,000	\$22.39
Black bituminous 4 litres	NO	1	3,000	3000	\$22.39
Thinners 5 litres	NO	3	1500	4,500	\$33.58
Clear varnish 4 litre bucket	NO	1	2,200	2,200	\$16.42
Wood primer 5 litre bucket	NO	1	2,500	2,500	\$18.66
Wood glue 4 litre	NO	1	1500	1500	\$11.19
Window glazing	Item		30,000	30,000	\$223.88
windows (metal)	NO	4	8000	32,000	\$238.81
Painting glasses	sheet	2	7200	14,400	\$107.46
Subtotal				105,100	\$784.33
Grand Total				1,026,830	\$7,662.91
Plans, permits, inspection, misc				95,320	\$711.34
water installation		1		225,636	\$1,683.85
Labor				210,000	\$1,567.16
Community contribution				-200,000	-\$1,492.54
Project management & reporting				177,088	\$1,321.55
Total Requested				1,534,874	\$11,454.28

Jikos and installation Budget		
Item	Total cost in Ksh	Cost in USD (134)
Single pot firewood (350 Litres)	295,000	\$2,201.49
Double pot firewood(100X100)	310,000	\$2,313.43
chimneys	12,000	\$89.55
Slab installation	25,000	\$186.57
labour	25,000	\$186.57
Total	667,000	\$4,977.61
Community contribution	-50,000	-\$373.13
Project management & reporting	69,801	\$520.90
Total requested	686,801	\$5,125.38

Dining Hall Furniture		
Item	Total cost in Ksh	Cost in USD (134)
14 tables (8X4) with aluminium cover @ 18000	252,000	\$1,880.60
28 benches (8*11/2ft) @15000	420,000	\$3,134.33

Transportation	55,000	\$410.45
facilitation	35,000	\$261.19
Total	762,000	\$5,686.56
Community contribution	-55,000	-\$410.45
Project management & reporting	141,400	\$1,055.22
Total requested	848,400	\$6,331.34

Classroom Furniture for Special needs		
Item	Total cost in Ksh	Cost in USD (134)
50 special lockers and chairs @9500	475,000	\$3,544.78
10 special tables @8500	85,000	\$634.33
transportation	40,000	\$298.51
facilitation	30,000	\$223.88
Total	630,000	\$4,701.50
Community contribution	-50,000	-\$373.13
Project management & reporting	116,000	\$865.67
Total requested	696,000	\$5,194.03

Pavement/walkway installation Budget		
Item	Total cost in Ksh	Cost in USD (134)
cement 190 bags@900	171,000	\$1,276.12
sand 42 ton@2900	121,800	\$908.96
ballast 62@3100	192,200	\$1,434.33
murram 20@2350	47,000	\$350.75
hardcore 42@2350	98,700	\$736.57
BRC medium 4 roll @15000	60,000	\$447.76
Levelling of the field	50,000	\$373.13
labour	105,000	\$783.58
Total	845,700	\$6,311.19
Community contribution	-55,000	-\$410.45
Project management & reporting	158,140	\$1,180.15
Total requested	948,840	\$7,080.90

Boys Dormitory Budget					
SUB-STRUCTURE/SUPERSTRUCTURE	Units	Quantity	Rate	Total cost in Ksh	Cost in USD (134)
Concrete blocks 9"	NO	1250	90	112,500	\$839.55
Concrete blocks 6"	NO	3,795	105	398,475	\$2,973.69
Cement 50kg	Bags	725	900	652,500	\$4,869.40
Crushed stones/ballast	Tonnes	60	3100	186,000	\$1,388.06
Murram	Tonnes	56	2350	131,600	\$982.09
Sand	Tonnes	60	2900	174,000	\$1,298.51
BRC WireMesh	Rolls	4	37,450	149,800	\$1,117.91
Ant termite poison 1ltr	NO	4	4280	17120	\$127.76
D-10 deformed bars	NO	90	1455	130,950	\$977.24
D-12 deformed bars	NO	156	1680	262,080	\$1,955.82
D-16 deformed bars	NO	32	2800	89,600	\$668.66
Polythene sheet	NO	4	12000	48000	\$358.21
R-6 bars	NO	93	930	24,800	\$185.07
Concrete wire 2"	Roll	4	9600	38400	\$286.57
Brick wire 4"	Roll	8	6500	52,000	\$388.06
Brick force wire 6"	Roll	25	400	10,000	\$74.63
Air vents	Pair	40	350	14,000	\$104.48
Tie wire (2.5mm)	Rolls	12	450	5,400	\$40.30
DPc 8"	Roll	5	6500	32,500	\$242.54
DPc 6"	Roll	8	5500	44,000	\$328.36
Wire nails 5"	kgs	8	350	2800	\$20.90
Wire nails 4"	Kgs	8	350	2800	\$20.90
wire nails 3"	Kgs	8	350	2800	\$20.90
wire nails 2"	Kgs	8	350	2800	\$20.90
steel nails 4"	Kgs	8	550	4,400	\$32.84
steel nails 3"	Kgs	8	550	4,400	\$32.84
steel nails 2"	kgs	8	550	4,400	\$32.84
Wheelbarrow	NO	4	6500	26,000	\$194.03
spade	NO	6	900	5,400	\$40.30
shovel	NO	6	900	5,400	\$40.30
Hoe	NO	4	750	3,000	\$22.39
claw hammer	NO	8	525	4,200	\$31.34
Hacksaw blade	No.	10	300	3000	\$22.39
cutting disc	NO	10	400	4000	\$29.85
drums 210 litres	NO	4	3750	15,000	\$111.94

Metal buckets	NO	10	750	7,500	\$55.97
Subtotal				2,671,625	\$19,937.50
ROOFING					
IT4 roofing sheets 3m	NO	61	4400	268,400	\$2,002.99
IT4 roofing sheets 2m	NO	42	3750	157,500	\$1,175.37
IT4 Ridges 2mx0.5mm	NO	18	800	14,400	\$107.46
u hooks roofing nails	NO	45	550	24,750	\$184.70
spider trusses ST250.4.0m	NO	14	900	12,600	\$94.03
Subtotal				477,650	\$3,564.55
CARPENTRY WORKS AND TIMBER					
Timber 200x25x5m	NO	48	1200	57,600	\$429.85
Timber 150x50x5m	NO	36	1100	39,600	\$295.52
Timber 100x50x5m	NO	25	1000	25,000	\$186.57
Timber 50x50x5m	NO	42	700	29,400	\$219.40
10mm thick soft board	NO	13	900	11,700	\$87.31
Block board 18mm	NO	45	1800	81,000	\$604.48
Wood screws	pkt	3	300	900	\$6.72
Subtotal				245,200	\$1,829.85
METAL WORKS					
Door frame and steel door	NO	6	20000	120,000	\$895.52
Installation of cables and electricity	set	1	301,255	301,255	\$2,248.17
Verandah Supporters	NO	12	8200	98,400	\$734.33
Subtotal				519,655	\$3,878.02
PAINTING AND FINISHING					
Undercoat 20 litre bucket	NO	10	3000	30,000	\$223.88
PVA cream 20 litre bucket	NO	10	3000	30,000	\$223.88
Green chalkboard 4 litre bucket	NO	8	3,000	24,000	\$179.10
Green gloss 4 litre bucket	NO	4	3000	12,000	\$89.55
Black bituminous 4 litres	NO	4	3,000	12000	\$89.55
Thinners 5 litres	NO	10	1500	15,000	\$111.94
Clear varnish 4 litre bucket	NO	8	2,200	17,600	\$131.34
Wood primer 5 litre bucket	NO	4	2,500	10,000	\$74.63
Wood glue 4 litre	NO	4	1500	6000	\$44.78
Window glazing	Item		60,000	60,000	\$447.76
windows (metal)	NO	13	8000	104,000	\$776.12
Painting glasses	sheet	13	7200	93,600	\$698.51
Subtotal				414,200	\$3,091.04
Grand Total				4,328,330	\$32,300.97

Plans, permits, inspection, misc				95,320	\$711.34
water installation & latrines	item			429,300	\$3,203.73
Labor				515,000	\$3,843.28
Community contribution				-200,000	-\$1,492.54
Project management & reporting				645,640	\$4,818.21
Total Requested				5,813,590	\$43,385.00

Girls Dormitory Budget					
SUB-STRUCTURE/SUPERSTRUCTURE	Units	Quantity	Rate	Total Cost in Ksh	Cost in USD (134)
Concrete blocks 9"	NO	1250	90	112,500	\$839.55
Concrete blocks 6"	NO	3,795	105	398,475	\$2,973.69
Cement 50kg	Bags	725	900	652,500	\$4,869.40
Crushed stones/ballast	Tonnes	60	3100	186,000	\$1,388.06
Murram	Tonnes	56	2350	131,600	\$982.09
Sand	Tonnes	60	2900	174,000	\$1,298.51
BRC WireMesh	Rolls	4	37,450	149,800	\$1,117.91
Ant termite poison 1ltr	NO	4	4280	17120	\$127.76
D-10 deformed bars	NO	90	1455	130,950	\$977.24
D-12 deformed bars	NO	156	1680	262,080	\$1,955.82
D-16 deformed bars	NO	32	2800	89,600	\$668.66
Polythene sheet	NO	4	12000	48000	\$358.21
R-6 bars	NO	93	930	24,800	\$185.07
Concrete wire 2"	Roll	4	9600	38400	\$286.57
Brick wire 4"	Roll	8	6500	52,000	\$388.06
Brick force wire 6"	Roll	25	400	10,000	\$74.63
Air vents	Pair	40	350	14,000	\$104.48
Tie wire (2.5mm)	Rolls	12	450	5,400	\$40.30
DPc 8"	Roll	5	6500	32,500	\$242.54
DPc 6"	Roll	8	5500	44,000	\$328.36
Wire nails 5"	kgs	8	350	2800	\$20.90
Wire nails 4"	Kgs	8	350	2800	\$20.90
wire nails 3"	Kgs	8	350	2800	\$20.90
wire nails 2"	Kgs	8	350	2800	\$20.90
steel nails 4"	Kgs	8	550	4,400	\$32.84
steel nails 3"	Kgs	8	550	4,400	\$32.84
steel nails 2"	kgs	8	550	4,400	\$32.84

Wheelbarrow	NO	4	6500	26,000	\$194.03
spade	NO	6	900	5,400	\$40.30
shovel	NO	6	900	5,400	\$40.30
Hoe	NO	4	750	3,000	\$22.39
claw hammer	NO	8	525	4,200	\$31.34
Hacksaw blade	No.	10	300	3000	\$22.39
cutting disc	NO	10	400	4000	\$29.85
drums 210 litres	NO	4	3750	15,000	\$111.94
Metal buckets	NO	10	750	7,500	\$55.97
Subtotal				2,671,625	\$19,937.50
ROOFING					
IT4 roofing sheets 3m	NO	61	4400	268,400	\$2,002.99
IT4 roofing sheets 2m	NO	42	3750	157,500	\$1,175.37
IT4 Ridges 2mx0.5mm	NO	18	800	14,400	\$107.46
u hooks roofing nails	NO	45	550	24,750	\$184.70
spider trusses ST250.4.0m	NO	14	900	12,600	\$94.03
Subtotal				477,650	\$3,564.55
CARPENTRY WORKS AND TIMBER					
Timber 200x25x5m	NO	48	1200	57,600	\$429.85
Timber 150x50x5m	NO	36	1100	39,600	\$295.52
Timber 100x50x5m	NO	25	1000	25,000	\$186.57
Timber 50x50x5m	NO	42	700	29,400	\$219.40
10mm thick soft board	NO	13	900	11,700	\$87.31
Block board 18mm	NO	45	1800	81,000	\$604.48
Wood screws	pkt	3	300	900	\$6.72
Subtotal				245,200	\$1,829.85
METAL WORKS					
Door frame and steel door	NO	6	20000	120,000	\$895.52
Installation of cables and electricity	set	1	301,255	301,255	\$2,248.17
Verandah Supporters	NO	12	8200	98,400	\$734.33
Subtotal				519,655	\$3,878.02
PAINTING AND FINISHING					
Undercoat 20 litre bucket	NO	10	3000	30,000	\$223.88
PVA cream 20 litre bucket	NO	10	3000	30,000	\$223.88
Green chalkboard 4 litre bucket	NO	8	3,000	24,000	\$179.10
Green gloss 4 litre bucket	NO	4	3000	12,000	\$89.55
Black bituminous 4 litres	NO	4	3,000	12000	\$89.55
Thinners 5 litres	NO	10	1500	15,000	\$111.94

Clear varnish 4 litre bucket	NO	8	2,200	17,600	\$131.34
Wood primer 5 litre bucket	NO	4	2,500	10,000	\$74.63
Wood glue 4 litre	NO	4	1500	6000	\$44.78
Window glazing	Item		60,000	60,000	\$447.76
windows (metal)	NO	13	8000	104,000	\$776.12
Painting glasses	sheet	13	7200	93,600	\$698.51
Subtotal				414,200	\$3,091.04
Grand Total				4,328,330	\$32,300.97
Plans, permits, inspection, misc				95,320	\$711.34
water installation & latrines	item			429,300	\$3,203.73
Labor				515,000	\$3,843.28
Community contribution				-200,000	-\$1,492.54
Project management & reporting				645,640	\$4,818.21
Total Requested				5,813,590	\$43,385.00

Bunkbeds and mattresses for 64 capacity budget		
Item	Total cost in Ksh	Cost in USD (134)
140 black pipe 1" @2350	329,000	\$2,455.22
130 angle line 1 1/2 @2200	286,000	\$2,134.33
94 mesh wire @3500	329,000	\$2,455.22
85 D10 bars @1455	123,675	\$922.95
assorted bends, rods and discs	55,000	\$410.45
paints 14 gallons @3000	42,000	\$313.43
64 mattresses @3000	192,000	\$1,432.84
labour	200,000	\$1,492.54
Total	1,716,675	\$12,811.01
Community contribution	-200,000	-\$1,492.54
Project management & reporting	303,335	\$2,263.69
Total requested	1,820,010	\$13,582.17

APPENDIX

- [Kenyan National Special Needs Education Policy Framework](#)
- [Dormitory and Kitchen/Dining Hall Designs](#)
- [Classroom Design](#)
- [Site Plan](#)