

REPUBLIC OF KENYA



STATE DEPARTMENT OF PUBLIC WORKS

Telegrams: "MINIWORKS", Embu
Telefax: 31775
When replying please quote

County Works Office
Embu County
P.O. Box 29-60100

**PROPOSED COMPLETION OF DINING HALL AT
GIKUURI SECONDARY SCHOOL**

IN

RUNYENJES CONSTITUENCY

BILL OF QUANTITIES



COMPLETION OF A MULTIPURPOSE HALL					
GIKUURI DAY SECONDARY SCHOOL					
Bill of Quantities					Page:19
Bill no. 19					Project:
Item No.	Description	Units	Quantity	Unit Bid R	Amount KSh
A	provide D-8 for the serving slab area to the sinks at 20mm spacing center to center	KG	26.42	140	3698.8
B	Provide 100mm class15/20 concrete for the serving bench	CM	2	9600	19200
C	provide 150mm grey well dressed machine cutstone to as support for the topslab	SM	13	1200	15600
D	provide and lay white wall tiles at the top and sides of the support and working bench	SM	30	1300	39000
E	Supply and fix wash hand basins with pillar tap and other connections to waste drainage	NO.	6	3500	21000
F	supply and fix waste drainage pipes(4inches)with all necessary connections	LM	50	200	10000
GIKUURI DAY	Supply and fix kitchen sink	NO.	1	6000	6000
	TOTALS FOR EXTRA				114498.8

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EMBU EAST DISTRICT

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**COMPLETION OF A MULTIPURPOSE HALL
GIKUURI DAY SECONDARY SCHOOL**

Bill of Quantities	Summary	Page: 20
Item No.20	Description	Project:
		Amount (KShs)
BILL17	FLOOR AND WALL FINISH(TILING, PAVING SLAB AND PAINTING)	1,109,900.00
BILL18	PROVISION OF HANDWASHING POINT, BLUMPING WORKS AND BENCHES	114,498.80
	Sub Total 1	1,224,398.80
	Add 5% FOR PMC	61,219.94
	Sub Total 2	1,285,618.74
	ADD3% INCOME TAX	38,568.56
	SUBTOTAL	1,324,187.30
	VAT @ 16 %	211,869.97
	Total	1,536,057.27
	CARRIED TO SUMMARY	1,536,057.27

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**CONSTRUCTION OF A MULTIPURPOSE HALL
GIKUURI DAY SECONDARY SCHOOL**

Bill of Quantities					Page: 2
Bill No.2	EXCAVATION AND FILLING FOR STRUCTURES			Project:	
Item No.	Description	Units	Quantity	Unit Bid Rate(Ksh)	Amount KSh
	excavate 300mm top soil and dispose to s	SM	660	150	99000
A	Excavate for strip footing bases in soft material	M ³	150	500	75,000.00
B	Ditto but in hard material	M ³	10	1,000	10,000.00
C	Allow for keeping excavations free from water by baling or pumping as required including provision of drains e.t.c., as necessary	item	1	25,000.00	25,000.00
D	Allow for maintaining and supporting sides of excavations and keeping from fallen material as necessary	item	1	20,000.00	20,000.00
					-
	Disposal				-
					-
E	Backfilling around foundations	M ³	50	600.00	30,000.00
F	Load and cart away surplus excavated material	M ³	100	650.00	65,000.00
					-
	Imported Filling				-
					-
G	Imported approved fill material to make up levels well waterd and compacted in layers of 300mm deep.	M ³	27	1,450.00	39,150.00
	Natural stones				
H	200mm natural foundation stone	m ²	260	1,600.00	416,000.00
	Anti-termite Treatment				
	Plain Concrete Class 15(1:4:8)				
I	100 mm Thick blinding for strip footing <u>Vibrated reinforced concrete class 15/15 with minimum cube crushing strength of 15N/mm² at 28 days</u>	M ³	12	10,500.00	126,000.00
J	150 mm thick for strip footing	M ³	20	13,850.00	277,000.00
	Total Carried Forward to Summary:				1,083,150.00

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COMPLETION OF A MULTIPURPOSE HALL

GIKUURI DAY SECONDARY SCHOOL

Bill of Quantities					Page: 5
Bill No.5	General: Office administration and overheads/Preliminaries				Project:
Item No.	Description	Units	Quantity	Unit Bid Rate(Ksh)	Amount KSh
A	Publicity Sign Boards	KS	1	15000	15000
B	Allow a prime cost sum for the BOQ and PLAN preparation	PC SUM	ITEM	31000	31000
C	Allow prime cost for attendance upon the subcounty works officer and his staff as directed by the Engineer in accordance with clause 137 of the standard specification	PC SUM	10000		10000
F	Extra-over Item Above for Contractor's overhead and profit ditto D and E(5%)				2050
	Total Carried Forward to Summary:				58050

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COMPLETION OF A MULTIPURPOSE HALL

GIKUURI SECONDARY SCHOOL

Page: 8

Bill of Quantities					
Bill No.8	EXCAVATION AND FILLING FOR STRUCTURES				Project:
Item No.	Description	Units	Quantity	Unit Bid Rate	Amount KSh
A	Excavate for strip footing in soft material	M³	45	250.00	11,250.00
B	Ditto but in hard material	M³	3	500.00	1,500.00
C	Allow for keeping excavations free from water by baling or pumping as required including provision of drains e.t.c., as necessary	item	1	3,500.00	3,500.00
D	Allow for maintaining and supporting sides of excavations and keeping from fallen material as necessary	item	1	3,500.00	3,500.00
Disposal					
E	Backfilling around foundations	M³	41	100.00	4,100.00
F	Load and cart away surplus excavated material	M³	7	200.00	1,400.00
Imported Filling					
G	Imported approved fill material to make up levels well waterd and compacted in layers	M³	27	1,100.00	29,700.00
Natural stones					
H	200mm natural foundation stone for retaining wall for paving slab.	m2	93	1,300.00	120,900.00
I	200 mm Thick approved hardcore filling to make up levels well compacted in layers(in the hall and paving slab)	M³	110	1,100.00	121,000.00
Damp-proof membrane					
J	Single layer of 1000 gauge polythene sheeting laid on blinded hardcore with 150 mm side laps to receive concrete	m2	495	100.00	49,500.00
Anti-termite Treatment					
K	Chemical anti-termite treatment executed by an approved specialist under a ten-year guarantee to surfaces of	m2	495	80.00	39,600.00
Plain Concrete Class 15(1:4:8)					
L	100 mm Thick blinding under column bases	M³	3	9,600.00	28,800.00
Total Carried Forward to Summary:					414,750.00

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**COMPLETION OF A MULTIPURPOSE HALL
GIKUURI DAY SECONDARY SCHOOL**

Bill of Quantities					Page: 10
Bill No.10	REINFORCEMENT (All Provisional)				Project:
Item No.	Description	Units	Quantity	Unit Bid Rate(Ksh)	Amount KSh
	<u>Reinforcement (All Provisional)</u> <u>High yield square twisted steel bar reinforcement to B.S. 4461</u>				
A	D12 for column base , sub column and columns	KG	900	140	126,000.00
B	D10 for the ringbeam after 2course above main ring beam	KG	300	140	42,000.00
C	D-8 for all ringbars/shear members	KG	600	140	84,000.00
	<u>Steel mesh fabric reinforcement to BS 4483</u>				-
					-
D	Layer of fabric mesh reinforcement laid in bed with 150 mm side and end laps (measured nett - no allowance given for laps) ref. A98	SM	495	200.00	99,000.00
	Total Carried Forward to Summary:				351,000.00

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COMPLETION OF A MULTIPURPOSE HALL					
GIKUURI DAY SECONDARY SCHOOL					
Bill of Quantities					
Bill No.13	windows and doors				page:13
Item No.	Description	Units	Quantity	Unit Bid Rate(Ksh)	Amount KSh
A	provide and install complete 1500mm×2900mm steel double door with casement	NO.	3	15,000.00	45,000.00
B	provide and install complete 1200mm×2900mm steel double door with casement	NO.	1	14,000.00	14,000.00
C	provide and install complete 900mm×2900mm steel double door with casement	NO.	5	1,300.00	6,500.00
D	provide and install complete 1500mm×2400mm steel double door with casement	NO.	2	14,000.00	28,000.00
E	provide and install complete 900mm×2400mm steel double door with casement	NO.	4	14,000.00	56,000.00
F	provide and install complete 1500mm ×1800mm steel window with two side hang lights:one fixed bottom light and one fixed light complete with glazing	NO.	25	11,000.00	275,000.00
G	provide and install complete 900mm ×1300mm steel window with two side hang lights:one fixed bottom light and one fixed light complete with glazing	NO.	7	11,000.00	77,000.00
H	provide and install complete 1500mm ×1300mm steel window with two side hang lights:one fixed bottom light and one fixed light complete with glazing	NO.	1	11,000.00	11,000.00
I	provide and install 1700mm ×900mm lockable steel serving window	NO.	2	1,500.00	3,000.00
J	provide and install 500mm square steel casement ventilators with glazing	NO.	53	2,000.00	106,000.00
	Total Carried Forward to Summary:				621,500.00

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**COMPLETION OF A MULTIPURPOSE HALL
GIKUURI DAY SECONDARY SCHOOL**

Bill of Quantities					Page: 15
Bill no. 15	FINISHES				Project:
Item No.	Description	Units	Quantity	Unit Bid Rate(Ksh)	Amount KSh
	<i>floor finish</i>				
A	provide 32mm thick floor screed.	M ²	495	360.00	178,200.00
B	provide and lay non sliperly floor tiles (ditto)	M ²	495	1,400.00	693,000.00
	<i>walling</i>				-
	<u>Cement sand (1:4) rendering</u>				-
C	15 mm Rendering to concrete beams, columns and walls	M ²	650	320.00	208,000.00
D	Ditto to window and door reveals not exceeding 100 mm girth	M ²	45	320.00	14,400.00
	<u>Prepare surface and apply one undercoat of matt vinyl emulsion and two finishing coats of silk vinyl emulsion to:</u>				-
E	Plastered walls rendered concrete beams and columns	M ²	650	260.00	169,000.00
F	To window and door render not exceeding 100 mm girth	M ²	45	260.00	11,700.00
	Total Carried Forward to Summary:				1,274,300.00

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**COMPLETION OF A MULTIPURPOSE HALL
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Bill of Quantities					Page: 16
Bill no. 16	PROVISIONAL SUM				Project:
Item No.	Description	Units	Quantity	Unit Bid Rate(Ksh)	Amount KSh
A	Supply and install meter box	NO.	1	5,500.00	5,500.00
B	supply and install earthrod	NO.	1	600.00	600.00
C	Supply and install earth cable 6mm sq.	LM	8	450.00	3,600.00
D	provide 6mm sq.red black,green cable for main supplyfrom the meter box to consumer unit	LM	30	250.00	7,500.00
E	provide kmpg/100A dp mcb dp for meterbox	NO.	1	1,800.00	1,800.00
F	Provide 100A cct breaker mcb dp for mains	NO.	1	1,500.00	1,500.00
G	provide consumer unit/distributor board	NO.	1	4,000.00	4,000.00
H	provide 30/60A mcbsp for socket and other heating elements	NO.	1	850.00	850.00
I	provide 10A mcb for lighting	NO.	2	1,000.00	2,000.00
J	provide 2.5mm socket cables	LM	150	250.00	37,500.00
K	provide 1.5mm lighting cables	LM	250	250.00	62,500.00
L	provide double socket plates	NO.	16	100.00	1,600.00
M	provide double socket outlets	NO.	16	500.00	8,000.00
N	provide lighting switches plates	NO.	20	100.00	2,000.00
O	provide and fix switches	NO.	20	150.00	3,000.00
Q	provide double flourescent tubes 4fts	NO.	22	2,600.00	57,200.00
R	Provide circular boxes	NO.	40	100.00	4,000.00
S	Provide security lighting cct and cover	NO.	6	300.00	1,800.00
T	provide 20mm pvc pipe conduits	LM	400	50.00	20,000.00
	Total Carried Forward to Summary:				224,950.00

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Bill of Quantities		Page:17
	Summary	Project:
Item No.17	Description	Amount (KShs)
1	site clearance	56,000.00
2	excavation for foundation and substructures	1,083,150.00
3	walling	510,000.00
4	formwork, rinbeam reinforcement and concrete	611,200.00
5	general preliminaries and overheads	58,050.00
6	removal of debris,bushes and stumps	60,000.00
7	demolitions and alterations	250,000.00
8	excavations,and filling for structures	414,750.00
9	subbase,subcolumn, column concrete	950,400.00
10	reinforcement for columns	351,000.00
11	formwork for columns and ringbeam	101,200.00
12	supestructure	485,650.00
13	windows and doors	621,500.00
14	roof construction	1,278,000.00
15	finishes	1,274,300.00
16	electrical works	224,950.00
17	extra for working benches and drainage works	114,498.80
	Sub Total 1	8,444,648.80
	Add 5% FOR PMC	422,232.44
	Sub Total 2	8,866,881.24
	ADD3% INCOME TAX	266,006.44
	SUBTOTAL	9,132,887.68
	VAT @ 16 %	1,461,262.03
	Total	10,594,149.71
	Carried to page on the form of Tender	10,594,149.71

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