BILL OF QUANTITIES

PROPOSED SEVEN NUMBER CLASSROOMS ADMINSTRATION BLOCK AT ESSUNZA PRIMARY SCHOOL

BILL

Jan-23

COUNTY WORKS OFFICER (MUPWI VIHIGA DISTRICT
P. O. Bex 1460 - 50300 MARAGOLI

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	TRANPORT				
В	STORAGE OF MATERIALS				2
С	MATERIAL TESTING				
D	GOVERNMENT ACTS REGARDING WORKPEOPLE				
E	INSURANCE			2	
F	OFFICE OF THE PM & CLERK	2			
G	WATER & ELECTRICITY	U			S
Н	SANITATION				
J	PROTECTION OF THE WORKS			•	
К	WORK TO BE DELIVERED UP CLEAN			* **	ray dell'
L	HOARDING				
M	GOVERNMENT APROVALS				3
			2		
Control of					
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	<i>Y</i> *	,			
				2	
	TOTAL TO FINAL SUMMARY				/ -/

TEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	BILL NO. 1 ELEMENT NO. 1: SUBSTRUCTURE (ALL PROVISIONA	T)			
	EXCAVATION WORKS Site preparation				
A	Clear site of works of grass, shrubs, bush and trees, grub up roots, fill with selected soil and burn debris	SM	680	50	34000
В	Excavate to remove top vegetable soil 150mm deep and deposit on the site as described.	SM	680	50	34000
с	Excavate trenches for strip footing not exceeding 1.5m deep commencing at reduced level	СМ	145	171	24795
D	Excavate column pits n.e 1.5m deep commensing surface reduced level.	СМ	148	171	25 308
	Disposal				
E	Load and cart away surplus excavated materials from site.	СМ	100	520	52000
F	Return, fill and ram selected excavated material around foundation in layers of 150 mm thick maximum.	СМ	193	77	14861
	Filling				
н	Approved hardcore filling, well watered, rolled and compacted in layers not exceeding 300mm thick	SM	480	87	41760
4	50mm Thick marram blinding to hardcore surfaces.	SM	480	82	39360
	Anti-termite treatment				
	Apply "Baver premise 200 sc" or equal and approved insecticide with a ten year guarantee as described.				72000
K	To surfaces of blinded hardcore.	SM	480	150	+1000
.	Damp proof membrane				
L	Polythene; 1000 gauge; 300 mm laps; no allowance made for laps.	SM	480	85	408000
	WATER DISPOSAL				1 000
	Allow for keeping foundations free from water, mud, fallen materials by pumping, bailing or other approved means, etc.	ITEM			25 000
	Planking and strutting				2 (000
N	Allow for planking and strutting.	ІТЕМ			13
					- 0
•	<i>(*)</i>			8	0801
	Total Carried Forward				428884

P. O. Box 1460 - 50300 MARAGOLI

TEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Total Brought Forward				428884
	INSITU REINFORCED CONCRETE				3
	50mm Thick mass concrete 1:4:8 class 15/20 in:				
		SM	180	400	72000
	Ditto ; columns bases	2101	160	4	1
	Class 20 Vibrated Reinforced concrete as described in:-				
				1209	432565
С	Column bases & columns	CM	35	1732 [892320
D	150mm Thick surface slab.	SM	480	1857	877270
	REINFORCEMENTS			,	
E F	High yield square twisted rod reinforcement to BS 4461 in structural concrete work including cutting bending hoisting fixing tying wire and spacing blocks to: 10mm 16mm diameter Ditto 8mm	KG KG KG	1,320 210	120	132000
G	ditto 12mm Fabric; BS 4483 Reference A142; mesh 200 x 200 mm weight	KG	1,120	120	134400
	2.2 kg per sm (300 mm laps); including bends , tying wire and distance blocks.				
F	In concrete surface slab.	SM	480	358	171840
	Sawn timber formwork as described				
G	To edges of surface slab 75 - 150mm high.	LM	125	58	7770
Н	Sides of column bases	SM	230	385	88520
	Walling Load bearing natural stone walling, jointed in cement and sand (1:3) mortar with and including No.20 gauge hoop iron ties 450mm long x 25mm wide bent and tacked into formwork with one end cast into concrete and straightened after removal of formwork and built into mortar joint of walling				
M	200mm Thick walling	SM	300	1200	360000
N	PLINTH FINISHES Waterproof render in:- 15 mm Thick wood float finished to plinths.	SM	60	225	13,500
P	Paint & Decorations Prepare surfaces and apply three coats bituminous paint to rendered surfaces (m/s).	SM	60	225	13500
	Carried Forward to Summary of Bill No.02			×	
-	Bill No. 01 Ground Floor Element No.01 Substructures.				2930,409



TE	DESCRIPTION ELEMENT NO. 2: CONCRETE FRAME/ WALLING	UNIT	QTY	RATE	AMOUNT
	WALLING				
	External Walls				7 8
	Chisel dressed natural stone walling jointed in cement/sand mortar mix 1:3 including 25 x 4mm thick hoop iron at every alternate courses				
A	200 mm Thick external walls	SM	320	1100	352,000
	INTERNAL WALLS				
	Machine cut stone walling jointed in cement/sand mortar mix 1:3 including 25 x 4mm thick hoop iron at every alternate courses				
В	150mm Thick walls	SM	200	950	190,000
)	Horizontal damp proof course; one layer of 3- ply bituminous felt or other equal and approaved (measured nett - allow for laps)				
C	200mm wide levelled and bedded in cement and sand (1:3) mortar under walls	LM	180	100	18,000
	Insitu concrete class 25/20, vibrated and reinforced as descri	bed, in:-			
)	Columns	СМ	20	95764	190880
5	Beams	СМ	55	9544	524920
	Stairs AND ramp	СМ	22	9544	209968
ì	150mm thick Suspended slab	SM		1432	57280t
Annual or a	REINFORCEMENTS				\$
	High yield square twisted rod reinforcement to BS 4461 in structural concrete work including cutting bending hoisting, fixing, tying wire and spacing blocks to:				
-	10mm diameter	KG	3,800	120	456000
-	Ditto 16mm diameter	KGS	3,650	120	438000
	Ditto 12mm	KGS	720	120	86400
- 1	Ditto 8mm	KGS	2,100	120	252,00
	Sawn formwork: to			200	27 nn D
	Vertical Sides of Columns	SM	200	207	27,1000
	Soffits and sides of beams	SM	870	385	334730
1	Formwork to the soffits of the suspended slab. Fotal Carried Forward	SM	396	385	152460

COUNTY WORKS OFFICER (MOPVIN VIHIGA DISTRICT
P. O. Box 1460 - 50300 MARAGOLI Sign...

GILGAL CONSTRUCTI AGENCY LTD. P.O. Box 110. EMUHAY

EM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Total Brought Forward				
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	Carried Forward to Summary of Bill No.02				
E	Bill No. 01				22 000000
(Ground Floor				3855378
I	Element No. 03 Concrete Frame/Walling.				
1	Jonetete Frame/Walling.				



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELEMENT NO 4-ROOFING				
Α	28 gauge Prepainted G.C.I sheets nailed	SM	560	650	364000
В	28 gauge ridge cap	LM	110	565	
_	The following in swan celcured cypress			700	
C	150 x 50 mm rafters	LM	550	300	165000
D	150 x 50 mm Tie Beam	LM	420	300	126 000
E	100 x 50 mm struts / ties	LM	400	200	80000
F	100 x 50 mm Kingpost	LM	200	200	40000
•	150 x 50 mm wallplate	LM	150	300	45000
Н	75 x 50 mm purlins	LM	500	145	72 500
J	225 x 25 mm fascia board	LM	122	000	24,400
1	Prepare and apply two under coats and one finishing coat of exterior quality super gloss oil paint to wood surfaces 200-300mm girth	LM	122	50	6100
	RAIN WATER DISPOSAL 140mm Diameter half round plastic gutter	LM	120	260	31200
M	75mm plastic downpipe	LM	50	170	00028
N	Extra over down pipe for swan neck	NO	12	170	2040
O	Extra over down pipe for shoe	NO	12	170	2040
					,
and the second second					
	TOTAL FOR ROOFING CARRIED TO SUMMARY				1028930

COUNTY WORKS OFFICER (MOPW) VIHIGA DISTRICT
P. D. Box 1460 - 50000 MARAGOLI
Sign.



ITE	M DESCRIPTION	UNI	T QTY	RATE	AMOUNT
	ELEMENT NO. 4: WINDOWS.				
	Supply, assemble and fix primed purpose made heavy duty mild steel window comprising standard steel window frame built in wall, 25 x 25 mm Z section frame welded to standard frame in small panes complete with and including permanent ventilators comprising 'T'-bars, gauze and metal hood, coupling mullions; oiling and adjusting on completion and fixing of ironmongery such as hinges, locking devices such as windows fasteners, stays locks, bolts etc; all to Architect's approval and in accordance with drawings	-			2
.A	Window size 1500 x 1500mm high overall	NO		40 8000	320000
В	Window size 600 x 600mm high overall	NO			
C	Window size 1000 x 900mm high overall (W01)	NO	-		
D	Window size 2350 x 700mm high overall (W01)	NO			
E	Window size 2950 x 700mm high overall (W01)	NO			
	Glazing				
	6mm Thick Clear glass and glazing fixed with and including putty to steel windows (m.s)				P
F	Panes 0.1 - 0.5 square metres	SM	120	0 1210	145200
	PAINTING AND DECORATING Apply one coat and two finishing coats of gloss oil paint as "Crown Paints" or other approved to metal work in:				
G	General surfaces of windows both sides.	SM	120	200	24000
-	Curtain Rods				24000
J	25mm Diameter approved wrought iron front and rear rod curtain rail cut to lengths complete with fixings, runners and end stops and screwed or plugged to wall in accordance with the manufacturer's specifications.	LM	110	2500	275 000
	Carried Forward to Summary of Bill No.02				*
C	fill No. 01 Fround Floor Jement No.03			. \$.	764200

TEN	1 DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELEMENT NO. 5: DOORS Note: All doors to architect's approval and drawing details STEEL DOORS Supply, assemble and fix primed purpose French steel doors comprising heavy duty mild steel frame built into wall oiling and adjusting on completion and fixing of ironmongery such as hinges, locking devices etc; all to Architect's approval and in accordance with drawings				
Α	Door overall size 1200 x 2400mm high.	NO	8	20000	160000
В	Door overall size 900 x 2400mm high.	NO			
	TIMBER DOORS Door frames				
c	Supply, assemble and fix the following purpose mild steel door frame and including one coat of approved red oxide primer by the manufacturer before delivery on site building and bedding frames in concrete columns. The door frames shall conform in every respect with drawings bracketed after item descriptions all to the approval of the Architect. 100x50mm door frame including architrave and quadrant	LM	300	850	225000
•	Flush doors 45 mm Thick semi solid flush door faced both sides with high interior quality plywood with 50 x 12 mm thick hard wood lipping all round;				21122
D	Door overall size 900 x 2400 mm high.	NO	8	3000	24000
E	Door overall size 800 x 2100mm high	No.			
F	Paint & Decorations Apply one coat and two finishing coats of polyurethane clear varnish as to wood work in: General surfaces. Apply one coat and two finishing coats of gloss oil paint as	SM	300	200	6000
G	"Crown Paints" or other approved to metal work in: Framing, generally	LM	300	200	60000
Q _I	General surfaces of doors both sides	SM	150	2000	20000
	IRON MONGERY Supply and fix the following UNION ironmongery or other equal and approved ironmongery complete with all matching screws and keys (Reference to this particular catalogue is given as a guide to type and quality only and equal and approved alternatives may be used)	SIVI			
	100mm brass butt hinges	Prs	8	310	12200
K	Two lever mortice lock with pair of lever handles	No	8	2150	1770
L	Ditto but steel locks	No.	-		17200
M	Rubber Door Stop	No	8	160	1780
I	Carried Forward to Summary of Bill No.02 Bill No. 01 Ground Floor Element No. 5 Doors				609960

VIHIGA DISTRICT
P. O. Boo 1460 - 50200 MARAGOLI

TEN	1 DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELEMENT NO. 5: DOORS Note: All doors to architect's approval and drawing details STEEL DOORS Supply, assemble and fix primed purpose French steel doors comprising heavy duty mild steel frame built into wall oiling and adjusting on completion and fixing of ironmongery such as hinges, locking devices etc; all to Architect's approval and in accordance with drawings				
Α	Door overall size 1200 x 2400mm high.	NO	8	20000	180000
В	Door overall size 900 x 2400mm high.	NO			
	TIMBER DOORS Door frames				
С	Supply, assemble and fix the following purpose mild steel door frame and including one coat of approved red oxide primer by the manufacturer before delivery on site building and bedding frames in concrete columns. The door frames shall conform in every respect with drawings bracketed after item descriptions all to the approval of the Architect. 100x50mm door frame including architrave and quadrant Flush doors	LM	300	870	225000
•	45 mm Thick semi solid flush door faced both sides with high interior quality plywood with 50 x 12 mm thick hard wood lipping all round;				24000
D	Door overall size 900 x 2400 mm high.	NO	8	3000	74
E	Door overall size 800 x 2100mm high	No.			
F	Paint & Decorations Apply one coat and two finishing coats of polyurethane clear varnish as to wood work in: General surfaces. Apply one coat and two finishing coats of gloss oil paint as	SM		200	600 D
C	"Crown Paints" or other approved to metal work in:			1-0	30000
G Q	Framing; generally	LM	300	700	7-200
4 1	General surfaces of doors both sides.	SM	150	2000	5000
- 1	IRON MONGERY Supply and fix the following UNION ironmongery or other equal and approved ironmongery complete with all matching screws and keys (Reference to this particular catalogue is given as a guide to type and quality only and equal and approved alternatives may be used) 100mm brass butt hinges	Prs			
-	Two lever mortice lock with pair of lever handles			0216	17200
	Ditto but steel locks	No.	8	112	17200
	Rubber Door Stop	No.	8	160	1280
	Carried Forward to Summary of Bill No.02 Bill No. 01 Ground Floor Element No. 5 Doors			λ	609960

COUNTY WORKS OFFICER (MOFW

VIHIGA DISTRICT
P. O. Boo 1460 - 50200 MARAGOLI

ITEM DESCRIPTION	UNIT	QTY	RATE	AMOUNT
ELEMENT NO. 6: WALL FINISHES				
EXTERNAL FINISHES				
A External horizontal and vertical keying	200		200	87500
Daternal nonzonial and vertical keying	SM	350	1720	01-
Internal finishes				
Wall Finishes				
Prepare and apply two coats of joint paste plaster to				
surfaces to Architect's Approval as described in:-	watt			1
General wall surfaces.	SM	530	250	132500
Painting and Decoration				
distribution of the second of				
Apply one coat and two finishing coats of silk vinylem paint as "Crown Paints" or other equal and approved	nulsion to:			
Plastered wall surfaces.			0-5	106000
	SM	530	200	10000
15mm thick cement and sand (1:4) backing as describe	ed to:-			2
Sides of walls to receive mazeras wall finish (m.s)	SM			
Supply & fix approved ceramic wall tiles fixed on back (measured separately) with an approved adhesive joint	ing			
flush pointed with grouting to match tile all to Archite approval.	ct's			
			000	21100
General wall surfaces in wet areas	SM	30	800	24000
				To the state of th
Carried Forward to Summary of Bil	I No 02			
Bill No. 01	1,10.02			
Ground Floor			3	350000
Element No. 06 Wall Finishes	2	THE OWNER OF THE OWNER		



ITE	M DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELEMENT NO 7: FLOOR FINISHES.	1			
	Floor Finishes				3
	Screed, Backing & Skirting.				
	Insitu cement sand (1:3) screeded beds with wood floated finish, on concrete to:-				
A	25mm Thick floor backing	SM	960	400	384000
B	Ditto to 100mm high skirting	LM	200	35	384000
	<u>Terrazo</u>				
С	moulded in cement and sand mortar(1:3)Including plastic	SM	960	850	816000
D	100mm high skirting	LM	200	85	17000
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	Carried Forward to Summary of Bill No.02				
	Bill No. 01 Ground Floor			s	1224,000
1	Element No. 07 Floor Finishes				1
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VIHIGA DISTRICT
P. O. Bex 1460 - 50300 MARAGOLI

ITEN	d DESCRIPTION	UNIT	QTY	RATE	AMOUNT
HE	ELEMENT NO.8 : CEILING FINISHES.				
	Ceilling Finishes				
	Prepare and apply two coats of joint paste plaster to				
	Architect's Approval as described in:-				10000
A	Soffits of the suspended slab.	SM	480	250	120000
	PAINTING AND DECORATING				
	Prepare and apply two coats of premium quality emulsion				
	paint to:-			000	96000 264000 150000
В	Plastered concrete soffits	SM	480	200	1
.c	13mm thick chip board ceiling laid on 50x50mm timber brandering	SM	480	530	7 pt 000
1	Wrot cypress				. (22 22 2
D	50x50mm timber brandering at 600 centres	LM	1,500	100	150000
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	œ:				The state of the s
	Carried Forward to Summary of Bill No.02				
	Bill No. 01			,	
	Ground Floor Element No.8				630,000.
1	Ceiling Finishes				



ITE	M DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SUMMARY				AMOUNT
				A COLUMN TO THE	
					0 220429
	Sub structures: Total Brought Forward				2930,409
	Concrete Frame & Walling: Total Brought Forward				38553te
	Roofing: Total Brought Forward				0.0020
	Windows: Total Brought Forward				3855376
	Doors : Total brought forward				764200
	Wall Finishes: Total brought forward				609,10
					350000
	Floor Finishes: Total brought forward				1,224000
	Ceiling Finishes: Total brought forward				630000
					00
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					202 027
	Carried Forward to Final Summary				11,392,877
- 1	Bill No.1				77
- 10	Ground Floor.	1			

VINIGA DISTRICT

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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	BILL NO. 01				,
	PROVISIONAL & PRIME COST SUMS				
	ELECTRICAL WORKS				
A	Allow a provisional sum of KSH Three Hundred thousand only (Kshs.300,000) for Electrical Installations	Sum	-		300,000.00
	MECHANICAL WORKS				
В	Allow a provisional sum of Kenya shillings Three Hundred Thousand Only (Kshs. 300,000) Only for Mechanical Installations	Sum			300,000.0
D	PROJECT MANAGEMENT Allow a Proviional sum of Kenya Shillings Two Hundred Thousand (300,000) Only for Engineers Misceleneous	Sum			300,000.00
E	CONTINGENCY				•
	Allow a Proviional sum of Kenya Shillings Five Hundred Thousand (300,000) Only for Contingency.	Sum		÷	300,000.00
G	PLUMBING WORKS AND DRAINAGE WORKS Allow a provisional sum of Ksh. Two Hundred thousand 200,000.00for plumbing and drainage works				200,000.00
J	WATER TANKS Allow a provisional sum of Ksh. One Hundred and Fifty thousand (150,000) for water tank		,		150,000.00
K	General Contract office and adminstrative cost				1,000,000.0
			the state of the s		
	Carried Forward to Final Summary			ŀ	2,550,000.00
1	Bill No.1			Ī	
	P.C & PROVISIONAL SUM			1	

ITEM	DESCRIPTION	PAGE	AMOUNT (SHS)
	GRAND SUMMARY		
1	PRELIMINARIES		250,000
2	BUILDERS WORK		11392,877
3	P.C AND PROVISIONAL SUMS		2,550,000.00
	e.		
,			
			14,192,87
	SUB TOTAL		
	ADD 16% VAT		2,270,861
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Signature	# 1
Name & Title	
Date	
Official Stamp	
Signature	Jewik Co
EMPLOYER Signature Name & Title	H V
Date	
Official Stamp	

COUNTY WORKS OFFICER (MOPVI)
VIHIGA DISTRICT
P. 0. Box 1460 - 50200 MARAGOLI

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