



MINISTRY OF TRANSPORT AND INFRASTRUCTURE  
PUBLIC WORKS DEPARTMENT

BILLS OF QUANTITIES

FOR

THE PROPOSED DINING HALL, ADMINISTRATION OFFICES AND  
CLASSROOMS

AT

EBUYALU SECONDARY SCHOOL

P.O BOX 443-40610

YALA

EMUHAYA SUBCOUNTY

VIHIGA COUNTY

Issued by:

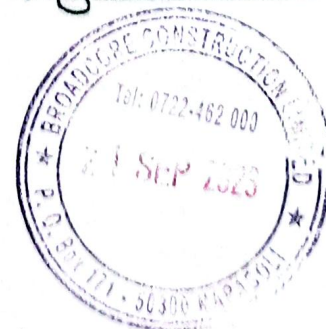
County Works Office

Vihiga County

COUNTY WORKS OFFICER (MOPW)  
VIHIGA DISTRICT  
P. O. Box 1460 – 50300 MARAGOLI

Sign: 

JANUARY 2023



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**BILL OF QUANTITIES**

**PROPOSED DINING HALL,  
ADMINISTRATION OFFICES AND  
CLASSROOMS FOR EBUYALU SECONDARY  
SCHOOL**

**BILL NO.1**

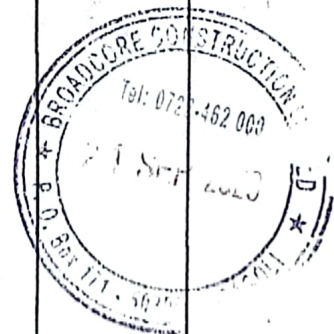
Jan-23



COUNTY WORKS OFFICER (MOPW)  
VIHIGA DISTRICT  
P. O. Box 1460 - 50300 MARAGOLI  
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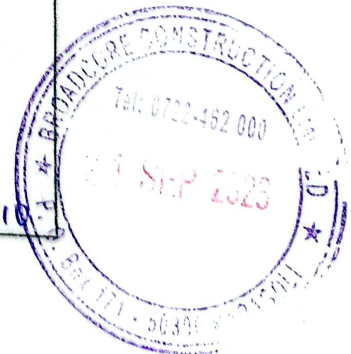
ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	TRANSPORT				
B	STORAGE OF MATERIALS				
C	MATERIAL TESTING				150,000
D	GOVERNMENT ACTS REGARDING WORKPEOPLE				
E	INSURANCE				
F	OFFICE OF THE PM & CLERK				160,000
G	WATER & ELECTRICITY				300,000
H	SANTITATION				250,000
J	PROTECTION OF THE WORKS				
K	WORK TO BE DELIVERED UP CLEAN				
L	HOARDING				200,000
M	GOVERNMENT APROVALS				60,000
TOTAL TO FINAL SUMMARY					1120000



COUNTY WORKS OFFICER (MOPW),  
VIHIGA DISTRICT  
P. O. Box 1460 - 50300 MARAGOLI

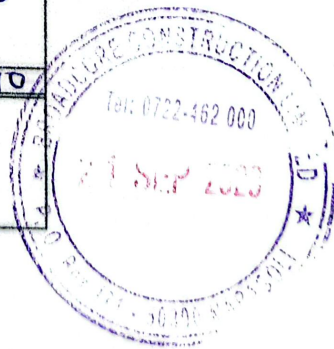
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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>BILL NO. 1</b>					
<b>ELEMENT NO. 1: SUBSTRUCTURE (ALL PROVISIONAL)</b>					
<b>EXCAVATION WORKS</b>					
<b>Site preparation</b>					
A	Clear site of works of grass, shrubs, bush and trees, grub up roots, fill with selected soil and burn debris	SM	680	80	54400
B	Excavate to remove top vegetable soil 150mm deep and deposit on the site as described	SM	680	70	47600
C	Excavate trenches for strip footing not exceeding 1.5m deep commencing at reduced level	CM	145	350	50750
D	Excavate column pits not exceeding 1.5m deep commencing surface reduced level	CM	148	350	51800
<b>Disposal</b>					
E	Load and cart away surplus excavated materials from site.	CM	100	250	25000
F	Return, fill and ram selected excavated material around foundation in layers of 150 mm thick maximum.	CM	193	220	42460
<b>Filling</b>					
H	Approved hardcore filling; well watered, rolled and compacted in layers not exceeding 300mm thick	SM	480	220	105600
J	50mm Thick marram blinding to hardcore surfaces.	SM	480	180	86400
<b>Anti-termite treatment</b>					
<i>Apply "Bayer premise 200 sc" or equal and approved insecticide with a ten year guarantee as described.</i>					
K	To surfaces of blinded hardcore.	SM	480	150	72000
<b>Damp proof membrane</b>					
L	Polythene, 1000 gauge; 300 mm laps; no allowance made for laps.	SM	480	180	86400
<b>WATER DISPOSAL</b>					
M	Allow for keeping foundations free from water, mud, fallen materials by pumping, bailing or other approved means, etc.	ITEM			5000
<b>Planking and strutting</b>					
N	Allow for planking and strutting.	ITEM			5000
Total Carried Forward					632410



COUNTY WORKS OFFICER (MOPW)  
VIHIGA DISTRICT  
P. O. Box 1460 - 60300 MARAGOLI  
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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Total Brought Forward				632 410
	<b>INSITU REINFORCED CONCRETE</b>				
	<i>50mm Thick mass concrete 1:4:8 class 15/20 in.</i>				
A	Ditto, columns bases	SM	180	600	108 000
	<i>Class 20 Vibrated Reinforced concrete as described in:-</i>				
C	Column bases & columns	CM	35	11000	385000
D	150mm Thick surface slab	SM	480	1100	528 600
	<b>REINFORCEMENTS</b>				
	<i>High yield square twisted rod reinforcement to BS 4461 in structural concrete work including cutting bending hoisting, fixing, tying wire and spacing blocks to:</i>				
	10mm	KG	1,100	140	154 000
E	16mm diameter	KG	1,320	140	184 800
F	Ditto 8mm	KG	210	140	29 400
G	ditto 12mm	KG	1,120	140	156 800
	<i>Fabric: BS 4483 Reference A142; mesh 200 x 200 mm weight 2.2 kg per sm (300 mm laps); including bends, tying wire and distance blocks.</i>				
F	In concrete surface slab	SM	480	400	192 000
	<b>Sawn timber formwork as described</b>				
G	To edges of surface slab 75 - 150mm high.	LM	125	200	25 000
H	Sides of column bases	SM	230	250	57 500
	<b>Walling</b>				
	<i>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</i>				
M	200mm Thick walling:	SM	380	900	342 000
	<b>PLINTH FINISHES</b>				
	<i>Waterproof render in:-</i>				
N	15 mm Thick wood float finished to plinths.	SM	75	250	18 750
	<b>Paint &amp; Decorations</b>				
P	Prepare surfaces and apply three coats bituminous paint to rendered surfaces (m/s)	SM	75	250	18 750
	<b>Carried Forward to Summary of Bill No.02</b>				<u>2832410</u>
	Bill No. 01 Ground Floor Element No.01 Substructures				



COUNTY WORKS OFFICER (MOPW)  
VIHIGA DISTRICT  
P. O. Box 1460 - 50300 MARAGOLI  
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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>ELEMENT NO. 2: CONCRETE FRAME/ WALLING</b>					
<b>WALLING</b>					
<b>External Walls</b>					
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	390	900	351 000
<b>INTERNAL WALLS</b>					
Machine cut stone walling jointed in cement/sand mortar mix 1:3 including 25 x 4mm thick hoop iron at every alternate courses					
B	150mm Thick walls	SM	260	900	234 000
<b>Horizontal damp proof course; one layer of 3- ply bituminous felt or other equal and approved (measured nett - allow for laps)</b>					
200mm wide levelled and bedded in cement and sand (1:3) mortar under walls					
C		LM	201	200	42200
<i>In situ concrete class 25/20, vibrated and reinforced as described, in:-</i>					
D	Columns	CM	20	10500	210 000
E	Beams	CM	55	10300	575 000
F	Stairs AND ramp	CM	22	10500	231 000
G	150mm thick Suspended slab	SM	400	1200	480 000
<b>REINFORCEMENTS</b>					
<i>High yield square twisted rod reinforcement to BS 4461 in structural concrete work including cutting bending hoisting fixing tying wire and spacing blocks to:</i>					
J	10mm diameter	KG	3,800	140	532 000
K	Ditto 16mm diameter	KGS	3,650	140	511 000
L	Ditto 12mm	KGS	720	140	100 800
M	Ditto 8mm	KGS	2,100	140	294 000
<b>Sawn formwork: to</b>					
N	Vertical Sides of Columns	SM	200	200	40 000
O	Soffits and sides of beams	SM	870	200	174 000
C	Formwork: to the soffits of the suspended slab.	SM	396	200	79 200
Total Carried Forward					

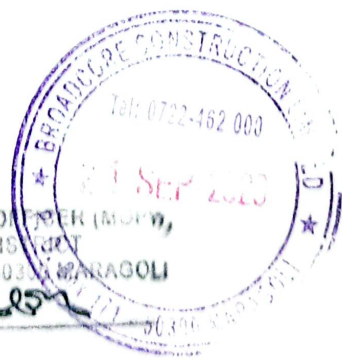


COUNTY WORKS OFFICE, VIHIYA DISTRICT  
 P. O. Box 1460 - 50300 MARACOU  
 Sign: *Jambon*

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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
●	Total Brought Forward				
●					
●					
●					
●	Carried Forward to Summary of Bill No.02  Bill No. 01 Ground Floor Element No. 03 Concrete Frame/Walling				<u>3854700</u>

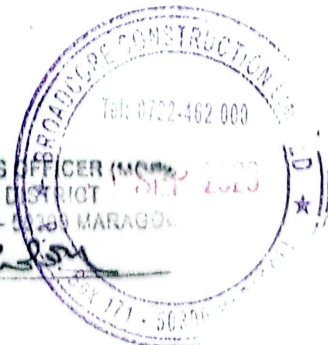
COUNTY WORKS OFFICER (MOPW),  
 VIHIGA DISTRICT  
 P. O. Box 1460 - 50300 KARAGOLI  
 Sign: *Jarison*



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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>ELEMENT NO 4-ROOFING</b>					
A	28 gauge Prepainted G C I sheets nailed	SM	560	1260	672000
B	28 gauge ridge cap	LM	110	550	60500
<u>The following in swan celcured cypress</u>					
C	150 x 50 mm rafters	LM	550	300	165000
D	150 x 50 mm Tie Beam	LM	420	300	126000
E	100 x 50 mm struts / ties	LM	400	300	120000
F	100 x 50 mm Kingpost	LM	200	300	60000
G	150 x 50 mm wallplate	LM	150	250	37500
H	75 x 50 mm purlins	LM	500	250	125000
J	225 x 25 mm fascia board	LM	122	280	30500
	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	250	30500
<u>RAIN WATER DISPOSAL</u>					
L	140mm Diameter half round plastic gutter	LM	120	400	48000
M	75mm plastic downpipe	LM	50	400	20000
N	Extra over down pipe for swan neck	NO	12	200	2400
O	Extra over down pipe for shoe	NO	12	200	2400
<b>TOTAL FOR ROOFING CARRIED TO SUMMARY</b>					<b>1505900</b>

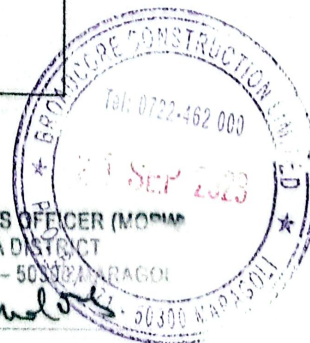
COUNTY WORKS OFFICER (MOM) 2010  
 VIHIGA DISTRICT  
 P. O. Box 1460 - 51200 MARAGO  
 Sign: *Jaisley*



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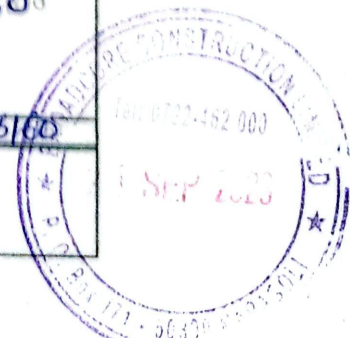
ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<b>ELEMENT NO. 4: WINDOWS.</b>				
	<i>Supply, assemble and fix primed purpose made heavy duty mild steel window comprising standard steel window frame built in wall, 25 x 25 mm Z section frame welded to standard frame in small panes complete with and including 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.</i>				
A	Window size 1500 x 1500mm high overall	NO	40	8000	320 000
B	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			
	<b>Glazing</b>				
	<i>6mm Thick Clear glass and glazing fixed with and including putty to steel windows (m.s)</i>				
F	Panes 0.1 - 0.5 square metres	SM	120	900	108 000
	<b>PAINTING AND DECORATING</b>				
	<i>Apply one coat and two finishing coats of gloss oil paint as "Crown Paints" or other approved to metal work in:</i>				
G	General surfaces of windows both sides.	SM	120	290	34 800
	<b>Curtain Rods</b>				
	<i>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.</i>				
		LM	110	1200	132 000
	<b>Carried Forward to Summary of Bill No.02</b>				594 800
	Bill No. 01 Ground Floor Element No 03 Windows				



COUNTY WORKS OFFICER (MOPW)  
VIHIGA DISTRICT  
P. O. Box 4460 - 50300 NARAGON  
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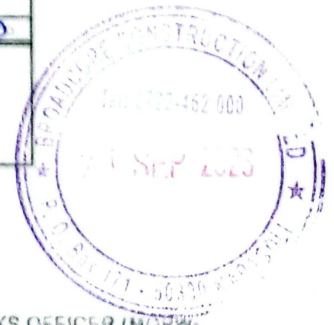
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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>ELEMENT NO. 5: DOORS</b>					
Note: All doors to architect's approval and drawing details					
<b>STEEL DOORS</b>					
<i>Supply, assemble and fix primed purpose French steel doors comprising heavy duty mild 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.</i>					
A	Door overall size 1200 x 2400mm high.	NO	8	17000	132000
B	Door overall size 900 x 2400mm high.	NO			
<b>TIMBER DOORS</b>					
Door frames					
<i>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.</i>					
C	100x50mm door frame including architrave and quadrant	LM	300	220	66000
<b>Flush doors</b>					
<i>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;</i>					
D	Door overall size 900 x 2400 mm high.	NO	8	6000	48000
E	Door overall size 800 x 2100mm high	No.			
<b>Paint &amp; Decorations</b>					
<i>Apply one coat and two finishing coats of polyurethane clear varnish as to wood work in:</i>					
F	General surfaces.	SM	300	320	96000
<i>Apply one coat and two finishing coats of gloss oil paint as "Crown Paints" or other approved to metal work in:</i>					
G	Framing: generally	LM	300	100	30000
H	General surfaces of doors both sides.	SM	150	280	42000
<b>IRON MONGERY</b>					
<i>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)</i>					
J	100mm brass butt hinges	Prs	8	400	3200
K	Two lever mortice lock with pair of lever handles	No	8	3500	28000
L	Ditto but steel locks	No.			
M	Rubber Door Stop	No	8	120	960
<b>Carried Forward to Summary of Bill No.02</b>					466160
Bill No. 01 Ground Floor Element No. 5 Doors					



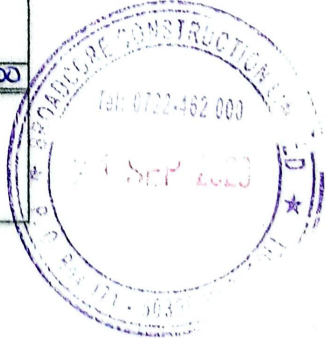
BILL OF QUANTITIES FOR THE PROPOSED DINING HALL, ADMINISTRATION OFFICES AND CLASSROOMS FOR EBUYALU SECONDARY SCHOOL

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>ELEMENT NO. 6: WALL FINISHES</b>					
<b><u>EXTERNAL FINISHES</u></b>					
A	External horizontal and vertical keying	SM	350	300	105 000
<b><u>Internal finishes</u></b>					
<b><u>Wall Finishes</u></b>					
<i>Prepare and apply two coats of joint paste plaster to wall surfaces to Architect's Approval as described in:-</i>					
E	General wall surfaces.	SM	530	300	159 000
<b><u>Painting and Decoration</u></b>					
<i>Apply one coat and two finishing coats of silk vinyl/emulsion paint as "Crown Paints" or other equal and approved to:</i>					
F	Plastered wall surfaces.	SM	530	300	159 000
<i>15mm thick cement and sand (1:4) backing as described to:-</i>					
G	Sides of walls to receive mazeras wall finish (m.s)	SM			
<i>Supply &amp; fix approved ceramic wall tiles fixed on backing (measured separately) with an approved adhesive jointed and flush pointed with grouting to match tile all to Architect's approval.</i>					
H	General wall surfaces in wet areas	SM	30	1200	36000
<b>Carried Forward to Summary of Bill No.02</b>					<b>459 000</b>
Bill No. 01 Ground Floor Element No. 06 Wall Finishes					



COUNTY WORKS OFFICER (MOPW),  
VIHIGA DISTRICT  
P. O. Box 460 - 50300 MARAGOLI

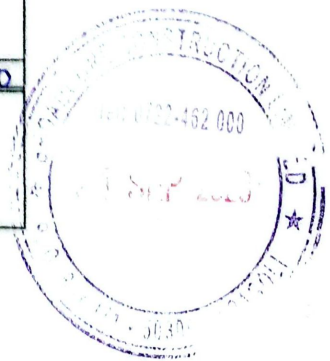
ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>ELEMENT NO 7: FLOOR FINISHES.</b>					
<u>Floor Finishes</u>					
<u>Screed, Backing &amp; Skirting.</u>					
<u>In situ cement sand (1:3) screeded beds with wood floated finish, on concrete to:-</u>					
A	25mm Thick floor backing	SM	960	290	266800
B	Ditto to 100mm high skirting	LM	200	180	36000
<u>Terrazo</u>					
C	38mm thick polished terrazo finish with dividing strip moulded in cement and sand mortar( 1:3 )Including plastic dividing strip	SM	960	1900	1824000
D	100mm high skirting	LM	200	300	60000
					<u>2128800</u>
Carried Forward to Summary of Bill No.02					
Bill No. 01 Ground Floor Element No. 07 Floor Finishes					



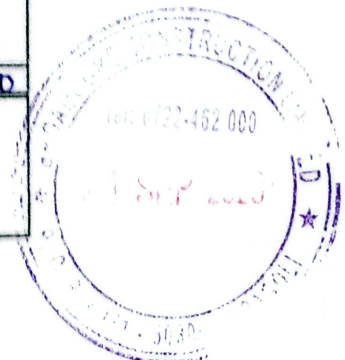
COUNTY WORKS OFFICER (MOPW),  
VIHIYA DISTRICT  
P. O. Box 1460 - 50300 MARAGOLI  
Signature: *[Handwritten Signature]*

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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>ELEMENT NO.8 : CEILING FINISHES.</b>					
<u>Ceiling Finishes</u>					
<i>Prepare and apply two coats of joint paste plaster to Architect's Approval as described in:-</i>					
A	Soffits of the suspended slab	SM	480	300	144000
<b><u>PAINTING AND DECORATING</u></b>					
<i>Prepare and apply two coats of premium quality emulsion paint to:-</i>					
B	Plastered concrete soffits	SM	480	400	192000
C	13mm thick chip board ceiling laid on 50x50mm timber branderling	SM	480	900	432000
D	<b>Wrot cypress</b> 50x50mm timber branderling at 600 centres	LM	1,500	220	330000
<b>Carried Forward to Summary of Bill No.02</b>					<b>1098000</b>
Bill No. 01 Ground Floor Element No.8 Ceiling Finishes.					




ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>ELEMENT NO.8 : CEILING FINISHES.</b>					
<u>Ceiling Finishes</u>					
<i>Prepare and apply two coats of joint paste plaster to Architect's Approval as described in:-</i>					
A	Soffits of the suspended slab	SM	480	300	144000
<b><u>PAINTING AND DECORATING</u></b>					
<i>Prepare and apply two coats of premium quality emulsion paint to:-</i>					
B	Plastered concrete soffits	SM	480	400	192000
C	13mm thick chip board ceiling laid on 50x50mm timber branderling	SM	480	900	432000
D	Wrot cypress 50x50mm timber branderling at 600 centres	LM	1,500	220	330000
<b>Carried Forward to Summary of Bill No.02</b>					<b>1098000</b>
Bill No. 01 Ground Floor Element No.8 Ceiling Finishes.					



BILL OF QUANTITIES FOR THE PROPOSED DINING HALL, ADMINISTRATION OFFICES AND CLASSROOMS FOR EBUYALU SECONDARY SCHOOL

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SUMMARY</u>				
	Sub structures Total Brought Forward				2832410
	Concrete Frame & Walling Total Brought Forward				3854700
	Roofing: Total Brought Forward				1505900
	Windows Total Brought Forward				594800
	Doors : Total brought forward				466160
	Wall Finishes: Total brought forward				459000
	Floor Finishes: Total brought forward				2788807
	Ceiling Finishes: Total brought forward				1098000
	Carried Forward to Final Summary				<u>129,770.00</u>
Bill No.1	Ground Floor.				


  
 COUNTY WORKS OFFICER (MORWA)  
 VINDGA DISTRICT  
 P. O. Box 1402-60300 MARAGOLI  
 Sign: *J. J. J.*

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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<b>BILL NO. 01</b>				
	<b>PROVISIONAL &amp; PRIME COST SUMS</b>				
	<b><u>ELECTRICAL WORKS</u></b>				
A	Allow a provisional sum of KSH Three Hundred thousand only (Kshs.300,000) for Electrical Installations	Sum			300,000.00
	<b><u>MECHANICAL WORKS</u></b>				
B	Allow a provisional sum of Kenya shillings Three Hundred Thousand Only (Kshs. 300,000) Only for Mechanical Installations	Sum			300,000.00
	<b><u>PROJECT MANAGEMENT</u></b>				
D	Allow a Provisional sum of Kenya Shillings Two Hundred Thousand (300,000) Only for Engineers Miscellaneous	Sum			300,000.00
	<b><u>CONTINGENCY</u></b>				
E	Allow a Provisional sum of Kenya Shillings Five Hundred Thousand (300,000) Only for Contingency.	Sum			300,000.00
	<b><u>SEPTIC TANK</u></b>				
F	Allow a provisional sum of Five Hundred Thousand 500,000 for septic tank and soak pit				500,000.00
	<b><u>PLUMBING WORKS AND DRAINAGE WORKS</u></b>				
G	Allow a provisional sum of Ksh. Two Hundred thousand 200,000.00for plumbing and drainage works				200,000.00
	<b><u>WATER TANKS</u></b>				
J	Allow a provisional sum of Ksh. One Hundred and Fifty thousand (150,000) for water tank				150,000.00
K	<u>General Contract office and administrative cost</u>				1,000,000.00
	<b>Carried Forward to Final Summary</b>				<b>3,050,000.00</b>
	Bill No.1				
	P.C & PROVISIONAL SUM				




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ITEM	DESCRIPTION	PAGE	AMOUNT (SHS)
	<b>GRAND SUMMARY</b>		
1	PRELIMINARIES		1120,000
2	BUILDERS WORK		12,999,770
3	P.C AND PROVISIONAL SUMS		3,050,000.00
	SUB TOTAL		17,169,770
	ADD 16% VAT		2,747,631.20
<b>TOTAL ESTIMATED COST OF THE PROJECT</b>			<b>19,916,433.20</b>

**TENDERER**


Signature ..... 


Name & Title ..... 

Date ..... 

Official Stamp ..... 

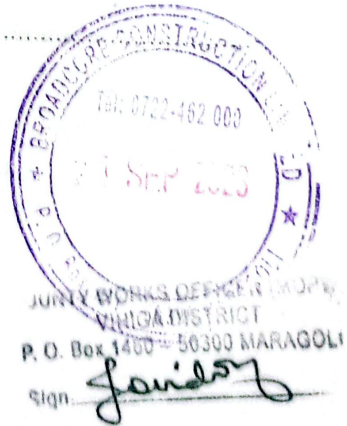
**EMPLOYER**

Signature ..... 

Name & Title ..... 

Date ..... 

Official Stamp ..... 



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