



MINISTRY OF TRANSPORT AND INFRASTRUCTURE
PUBLIC WORKS DEPARTMENT

BILLS OF QUANTITIES

FOR

THE PROPOSED DINING HALL, ADMINISTRATION OFFICES AND
CLASSROOMS

AT

BUNYORE BOYS SECONDARY SCHOOL

P.O BOX 75-50314

EMUHAYA

EMUHAYA SUBCOUNTY

VIHIGA COUNTY

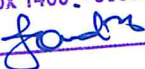
Issued by:

County Works Office

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

Vihiga County

JANUARY 2023

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	TRANSPORT				
B	STORAGE OF MATERIALS				
C	MATERIAL TESTING				120,000.00
D	GOVERNMENT ACTS REGARDING WORKPEOPLE				
E	INSURANCE				
F	OFFICE OF THE PM & CLERK				150,000.00
G	WATER & ELECTRICITY				200,000.00
H	SANITATION				150,000.00
J	PROTECTION OF THE WORKS				
K	WORK TO BE DELIVERED UP CLEAN				
L	HOARDING				150,000.00
M	GOVERNMENT APROVALS				60,000.00
COUNTY WORKS OFFICER (MOPW) VIHIGA DISTRICT P. O. Box 1460.- 50300 MARAGOLI Sign: 					
TOTAL TO FINAL SUMMARY					830,000.00

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BILL NO. 1					
ELEMENT NO. 1: SUBSTRUCTURE (ALL PROVISIONAL)					
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	140	95,200.00
B	Excavate to remove top vegetable soil 150mm deep and deposit on the site as described.	SM	680	150	102,000.00
C	Excavate trenches for strip footing not exceeding 1.5m deep commencing at reduced level	CM	145	700	101,500.00
D	Excavate column pits n.e 1.5m deep commencing surface reduced level.	CM	148	700	103,600.00
Disposal					
E	Load and cart away surplus excavated materials from site.	CM	100	295	29,537.07
F	Return, fill and ram selected excavated material around foundation in layers of 150 mm thick maximum.	CM	193	200	38,600.00
Filling					
H	Approved hardcore filling: well watered, rolled and compacted in layers not exceeding 300mm thick	SM	480	350	168,000
J	50mm Thick marram blinding to hardcore surfaces.	SM	480	250	120,000
Anti-termite treatment					
<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	250	120,000.00
Damp proof membrane					
L	Polythene: 1000 gauge; 300 mm laps; no allowance made for laps.	SM	480	200	96,000.00
WATER DISPOSAL					
M	Allow for keeping foundations free from water, mud, fallen materials by pumping, bailing or other approved means, etc.	ITEM			10,000
Planking and strutting					
N	Allow for planking and strutting.	ITEM			10,000
Total Carried Forward					994,437

COUNTY WORKS OFFICER (MOPW)
 VIHIGA DISTRICT
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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Total Brought Forward				994,437
	<u>INSITU REINFORCED CONCRETE</u>				
	<i>50mm Thick mass concrete 1:4:8 class 15/20 in:</i>				
A	Ditto ; columns bases	SM	210	800	168,000.00
	<u>Class 20 Vibrated Reinforced concrete as described in:-</u>				
C	Column bases & columns	CM	40	13,500	540,000.00
D	150mm Thick surface slab.	SM	480	1,500	720,000.00
	<u>REINFORCEMENTS</u>				
	<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	150	165,000.00
E	16mm diameter	KG	1,320	150	198,000.00
F	Ditto 8mm	KG	210	150	31,500.00
G	ditto 12mm	KG	1,120	150	168,000.00
	<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	450	216,000.00
	<u>Sawn timber formwork as described</u>				
G	To edges of surface slab 75 - 150mm high.	LM	125	300	37,500.00
H	Sides of column bases	SM	230	300	69,000.00
	<u>Walling</u>				
	<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	400	1,200	480,000.00
	<u>PLINTH FINISHES</u>				
	<u>Waterproof render in:-</u>				
N	15 mm Thick wood float finished to plinths.	SM	75	400	30,000.00
	<u>Paint & Decorations</u>				
P	Prepare surfaces and apply three coats bituminous paint to rendered surfaces (m/s).	SM	75	400	30,000.00
	Carried Forward to Summary of Bill No.02				3,847,437.07
	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
	ELEMENT NO. 2: CONCRETE FRAME/ WALLING				
	WALLING				
	External Walls				
	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	480	1,200	576,000.00
	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				
B	150mm Thick walls	SM	300	1,200	360,000.00
	Horizontal damp proof course; one layer of 3- ply bituminous felt or other equal and approved (measured nett - allow for laps)				
C	200mm wide levelled and bedded in cement and sand (1:3) mortar under walls	LM	201	200.00	40,200.00
	<i>In situ concrete class 25/20 , vibrated and reinforced as described, in:-</i>				
D	Columns	CM	20	12,000	240,000.00
E	Beams	CM	60	12,000	720,000.00
F	Stairs AND ramp	CM	22	12,000	264,000.00
G	150mm thick Suspended slab	SM	400	1,500	600,000.00
	REINFORCEMENTS				
	<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	4,000	150	600,000.00
K	Ditto 16mm diameter	KGS	3,850	150	577,500.00
L	Ditto 12mm	KGS	800	150	120,000.00
M	Ditto 8mm	KGS	2,200	150	330,000.00
	Sawn formwork: to				
N	Vertical Sides of Columns	SM	200	200	40,000.00
O	Soffits and sides of beams	SM	870	200	174,000.00
C	Formwork to the soffits of the suspended slab.	SM	396	200	79,200.00
	Total Carried Forward				4,720,900.00

COUNTY WORKS OFFICER (MOPW)
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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
ELEMENT NO 4-ROOFING					
A	28 gauge Prepainted G.C.I sheets nailed	SM	600	1500	900,000.00
B	28 gauge ridge cap	LM	110	600	66,000.00
<u>The following in swan celcured cypress</u>					
C	150 x 50 mm rafters	LM	550	380	209,000.00
D	150 x 50 mm Tie Beam	LM	420	380	159,600.00
E	100 x 50 mm struts / ties	LM	400	350	140,000.00
F	100 x 50 mm Kingpost	LM	200	350	70,000.00
G	150 x 50 mm wallplate	LM	150	335	50,250.00
H	75 x 50 mm purlins	LM	500	300	150,000.00
J	225 x 25 mm fascia board	LM	122	350	42,700.00
K	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	300	36,600.00
<u>RAIN WATER DISPOSAL</u>					
L	140mm Diameter half round plastic gutter	LM	120	800	96,000.00
M	75mm plastic downpipe	LM	50	800	40,000.00
N	Extra over down pipe for swan neck	NO	12	200	2,400.00
O	Extra over down pipe for shoe	NO	12	200	2,400.00
TOTAL FOR ROOFING CARRIED TO SUMMARY					1,964,950.00

COUNTY WORKS OFFICER (MOPW)
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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELEMENT NO. 4: WINDOWS.				
	<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	9000	360,000.00
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			-
	Glazing				
	<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	1,400	168,000.00
	PAINTING AND DECORATING				
	<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	400	48,000.00
	Curtain Rods				
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	2,000	220,000.00
	Carried Forward to Summary of Bill No.02				796,000.00
	Bill No. 01 Ground Floor Element No.03 Windows				

COUNTY WORKS OFFICER (MOPW)
VIHIGA DISTRICT
P. O. Box 1460 - 50300 MARAGOLI
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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELEMENT NO. 5: DOORS Note: All doors to architect's approval and drawing details				
	STEEL DOORS <u>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</u>				
A	Door overall size 1200 x 2400mm high.	NO	8	25,000	200,000.00
B	Door overall size 900 x 2400mm high.	NO			-
	TIMBER DOORS <u>Door frames</u> <u>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.</u>				
C	100x50mm door frame including architrave and quadrant	LM	300	250	75,000.00
	Flush doors <u>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.</u>				
D	Door overall size 900 x 2400 mm high.	NO	8	7,000	56,000.00
E	Door overall size 800 x 2100mm high	No.			-
	Paint & Decorations <u>Apply one coat and two finishing coats of polyurethane clear varnish as to wood work in:</u>				
F	General surfaces.	SM	300	350	105,000.00
	<u>Apply one coat and two finishing coats of gloss oil paint as "Crown Paints" or other approved to metal work in:</u>				
G	Framing: generally	LM	300	150	45,000.00
H	General surfaces of doors both sides.	SM	150	300	45,000.00
	IRON MONGERY <u>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)</u>				
J	100mm brass butt hinges	Prs	8	400	3,200.00
K	Two lever mortice lock with pair of lever handles	No	8	4,000	32,000.00
L	Ditto but steel locks	No.	-	2,800	-
M	Rubber Door Stop	No	8	100	800.00
	Carried Forward to Summary of Bill No.02				562,000.00
	Bill No. 01 Ground Floor Element No. 5 Doors				

COUNTY WORKS OFFICER (MOPW)
VIHIGA DISTRICT
P. O. Box 1460 - 50300 MARAGOLI
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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
ELEMENT NO. 6: WALL FINISHES					
<u>EXTERNAL FINISHES</u>					
A	External horizontal and vertical keying	SM	350	400	140,000.00
<u>Internal finishes</u>					
<u>Wall Finishes</u>					
<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	400	212,000.00
<u>Painting and Decoration</u>					
<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	400	212,000.00
<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		350	-
<i>Supply & 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	1,500	45,000
Carried Forward to Summary of Bill No.02					609,000
Bill No. 01 Ground Floor Element No. 06 Wall Finishes					

COUNTY WORKS OFFICER (MOPW)
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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
ELEMENT NO 7: FLOOR FINISHES.					
<u>Floor Finishes</u>					
<u>Screed, Backing & 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	320	307,200
B	Ditto to 100mm high skirting	LM	200	200	40,000
<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	2,150	2,064,000
D	100mm high skirting	LM	200	350	70,000
Carried Forward to Summary of Bill No.02					2,481,200
Bill No. 01					
Ground Floor					
Element No. 07					
Floor Finishes					

COUNTY WORKS OFFICER (MOPW)
 VIHIGA DISTRICT
 P. O. Box 1460 - 50300 MARAGOLI
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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELEMENT NO.8 : CEILING FINISHES.				
	<u>Ceiling Finishes</u>				
	<u>Prepare and apply two coats of joint paste plaster to Architect's Approval as described in:-</u>				
A	Soffits of the suspended slab.	SM	480	400	192,000.00
	<u>PAINTING AND DECORATING</u>				
	<u>Prepare and apply two coats of premium quality emulsion paint to:-</u>				
B	Plastered concrete soffits	SM	480	450	216,000.0
C	13mm thick chip board ceiling laid on 50x50mm timber bandering	SM	480	1,000	480,000.0
	Wrot cypress				
D	50x50mm timber bandering at 600 centres	LM	1,500	250	375,000.0
	Carried Forward to Summary of Bill No.02				1,263,000.0
	Bill No. 01				
	Ground Floor				
	Element No.8				
	Ceiling Finishes.				

COUNTY WORKS OFFICER (MOPW)
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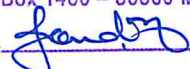
ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SUMMARY</u>				
	Sub structures: Total Brought Forward				3,847,437.07
	Concrete Frame & Walling: Total Brought Forward				4,720,900.00
	Roofing: Total Brought Forward				1,964,950.00
	Windows: Total Brought Forward				796,000.00
	Doors : Total brought forward				562,000.00
	Wall Finishes: Total brought forward				609,000.00
	Floor Finishes: Total brought forward				2,481,200.00
	Ceiling Finishes: Total brought forward				1,263,000.00
	Carried Forward to Final Summary				16,244,487.07
Bill No.1	Ground Floor.				

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

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	BILL NO. 01 <u>PROVISIONAL & PRIME COST SUMS</u>				
	<u>ELECTRICAL WORKS</u>				
A	Allow a provisional sum of KSH Three Hundred thousand only (Kshs.300,000) for Electrical Installations	Sum			300,000.00
	<u>MECHANICAL WORKS</u>				
B	Allow a provisional sum of Kenya shillings Three Hundred Thousand Only (Kshs. 300,000) Only for Mechanical Installations and Gas Piping	Sum			300,000.00
D	PROJECT MANAGEMENT Allow a Provisional sum of Kenya Shillings Two Hundred Thousand (200,000) Only for Project Management.	Sum			200,000.00
E	CONTINGENCY Allow a Provisional sum of Kenya Shillings Five Hundred Thousand (500,000) Only for Contingency.	Sum			500,000.00
F	<u>SEPTIC TANK</u> Allow a provisional sum of Five Hundred Thousand 500,000 for septic tank and soak pit				500,000.00
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	<u>General Contract office and administrative cost</u>				1,150,000.00
L	Fume Chamber				100,000.00
	Carried Forward to Final Summary				3,400,000.00
	Bill No.1 P.C & PROVISIONAL SUM				

COUNTY WORKS OFFICER (MOPW)
VIHIGA DISTRICT

P. O. Box 1460 – 50300 MARAGOLI

Sign: 

ITEM	DESCRIPTION	PAGE	AMOUNT (SHS)
	<u>GRAND SUMMARY</u>		
1	PRELIMINARIES		830,000.00
2	BUILDERS WORK		16,244,487.07
3	P.C AND PROVISIONAL SUMS		3,400,000.00
	SUB TOTAL		20,474,487.07
	ADD 16% VAT		3,275,917.93
TOTAL ESTIMATED COST OF THE PROJECT			23,750,405.00

TENDERER

Signature

Name & Title

Date

Official Stamp

EMPLOYER

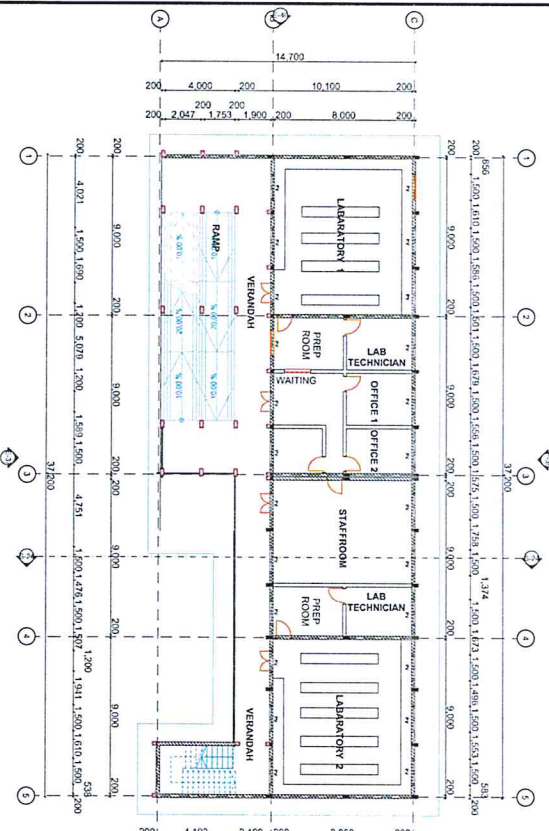
Signature

Name & Title

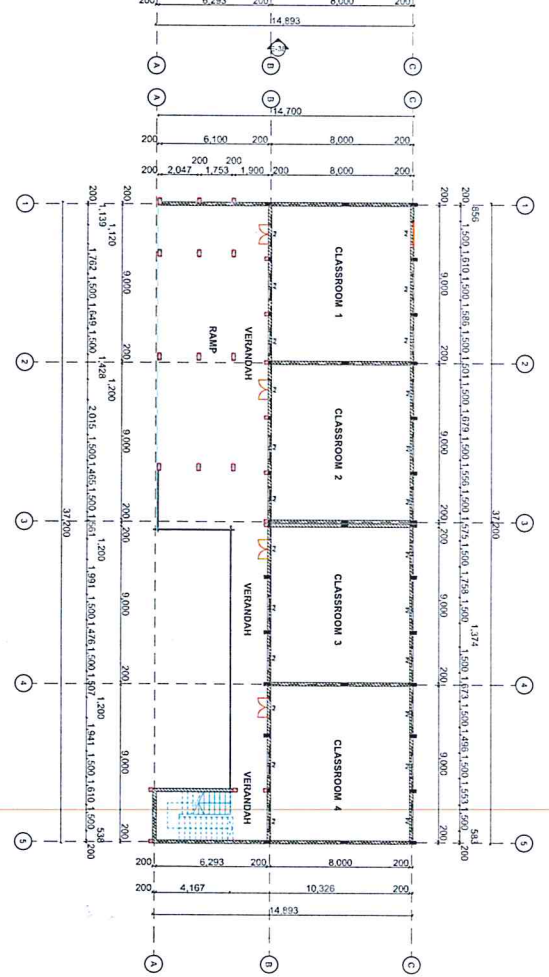
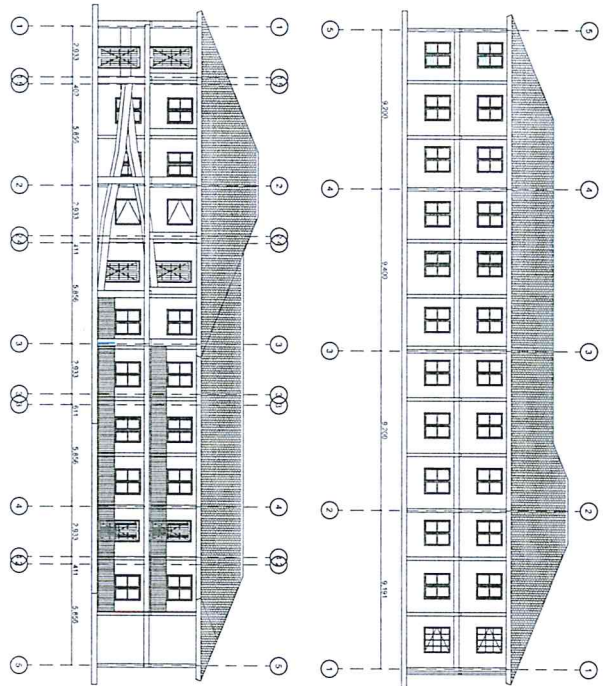
Date

Official Stamp

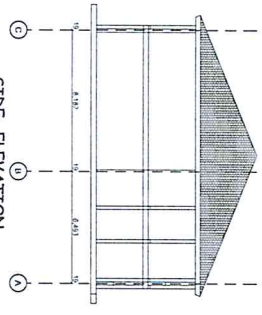
COUNTY WORKS OFFICER (MOPW)
VIHIGA DISTRICT
P. O. Box 1460 – 50300 MARAGOLI
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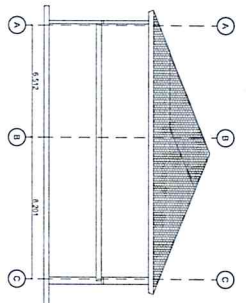
FRONT ELEVATION



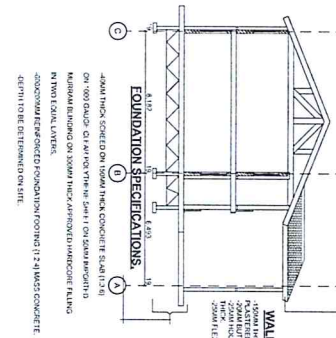
SIDE ELEVATION



SIDE ELEVATION



SECTION S-20



COUNTY WORKS OFFICER (MOPW)
VIHIGA DISTRICT
P. O. Box 1460 – 50300 MARAGOL
 Sign: *[Signature]*

PROJECT TITLE
 OPPOSITE TO LABORATORY, ADMINISTRATION OFFICE, BOYS SECONDARY SCHOOL, BIRNORE BOYS SEC SCHOOL, BIRNORE, SUB-COUNTY, BIRNORA, SUB-COUNTY.

DESIGNED BY
 ARCHITECTURAL DRAWINGS

DRAWINGS
 FLOOR LAYOUT
 SECTIONS
 1:150

DATE
 20/07/2023

SCALE
 1:150

PROJECT NO.
 1150

DATE
 20/07/2023

SCALE
 1:150

PROJECT NO.
 1150

- NOTES**
1. All measurements are shown in millimeters.
 2. Measurements should not be taken of the drawing.
 3. The contractor must check and verify all dimensions before commencing any work. Any discrepancy must be notified to the architect immediately.
 4. At sections should be made in the floor plan and all openings must be made in accordance with each other. Any discrepancies must be notified immediately to the designer and cleared by consulting the respective contractor's drawings.
 5. Damp proof course must be provided under all the external walls at grade. DPC to be minimum 150mm above ground level.
 6. All slabs at ground to be poured on 100mm layer of polythene on 50mm stone dust bedding on compacted subgrade.
 7. All concrete must be cured for 7 days.
 8. All concrete must be finished for 7 days.
 9. Window sills must be finished before internal plastering.
 10. All work on end encasement to be completed before the start of the internal plastering.
 11. All work on the 2nd floor must be completed before the start of the internal plastering.
 12. All work on the 1st floor must be completed before the start of the internal plastering.
 13. All work on the ground floor must be completed before the start of the internal plastering.
 14. All work on the external walls must be completed before the start of the internal plastering.
 15. All work on the roof must be completed before the start of the internal plastering.
 16. All work on the foundation must be completed before the start of the internal plastering.
 17. All work on the walls must be completed before the start of the internal plastering.
 18. All work on the floors must be completed before the start of the internal plastering.
 19. All work on the ceilings must be completed before the start of the internal plastering.
 20. All work on the doors must be completed before the start of the internal plastering.
 21. All work on the windows must be completed before the start of the internal plastering.
 22. All work on the stairs must be completed before the start of the internal plastering.
 23. All work on the ramps must be completed before the start of the internal plastering.
 24. All work on the verandahs must be completed before the start of the internal plastering.
 25. All electrical work must be completed with mechanical works. Any conflicts must be defined before work begins.
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