



MINISTRY OF TRANSPORT AND INFRASTRUCTURE
PUBLIC WORKS DEPARTMENT

BILLS OF QUANTITIES

FOR

THE PROPOSED DORMITORY

AT

BUNYORE TEACHERS TRAINING COLLEGE

P.O BOX 189-50314

EMUHAYA

EMUHAYA SUBCOUNTY

VIHIGA COUNTY

Issued by:

County Works Office

Vihiga County

COUNTY WORKS OFFICER (MOPW)
VIHIGA DISTRICT
P. O. Box 1460 - 50300 MARAGOI
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JANUARY 2024

**PROPOSED CONSTRUCTION OF NEW DORMITORY AT BUNYORE
TEACHERS TRAINING COLLEGE-JANUARY 2024**

BILL OF QUANTITIES

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

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JANUARY-2024.

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
BILL NO 01.EBUNANGWE BOYS DORMITORY					
ELEMENT NO 1-SUBSTRUCTURE					
Excavation					
A	Excavate over site average 150mm deep to remove vegetable soil and load and cart away.	588	SM	50	29,400
B	Excavate trench for foundation not exceeding 1.5m deep starting from reduced level.	30	CM	150	4,500
C	Allow for plunking and strutting		ITEM		2,000
D	Allow for keeping the whole of excavation free from water and mud by pumping, bailing or other approved method		ITEM		2,000
Disposal					
E	Return; Fill in and ram selected excavated materials around foundation.	20	CM	200	4,000
G	Load surplus excavated materials and cart away from site	10	CM	220	2,200
H	50mm thick murrum or quarry dust blinding to surface of hardcore	588	SM	220	129,360
Hardcore filling as described					
J	Hand packed hardcore fillings under floor spread, levelled well rammed and consolidated in 150mm thick layers	588	SM	250	147,000
Anti-termite Treatment					
K	Chemical anti-termite executed complete by an approved specialist to surface of hardcore	588	SM	70	41,160
Total Carried to Collection					361,620

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PROPOSED CONSTRUCTION OF NEW DORMITORY AT BUNYORE TEACHERS TRAINING COLLEGE-JANUARY 2024

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Damp Proof Membrane</u>				
A	500 gauge polythene or other equal and approved damp proof membrane laid over blinded hardcore	588	SM	220	129,360
	<u>Plain Concrete 1:4:8/28mm aggregate</u>				
B	under strip foundation	63	SM	700	44,100
	<u>Reinforced Concrete Class 25/20 1:2:4 as described.</u>				
C	Foundation	12	CM	10000	120,000
D	150mm thick floor slab	588	SM	1500	882,000
	<u>Reinforcement as described including tying wires</u>				
E	8mm diameter bars	290	KGS	130	37,700
F	10mm diameter bars	450	KGS	130	58,500
	<u>Mesh fabric reinforcement to B.S 4483 and measured nett-Allow for laps</u>				
G	Fabric Ref A-142 weighing 2.22kg/m	588	SM	250	147,000
	<u>Sawn Formwork as described to</u>				
H	Edges of slab over 100mm but not exceeding 200mm high	148	LM	150	22,200
	Total Carried to Collection				1,440,860

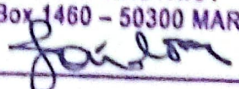
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COUNTY WORKS OFFICER (MOPW)
VIHIGA DISTRICT
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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Walling in concrete masonry stone bedded and jointed in cement and sand mortar (1:3) 200mm thick natural stone wall reinforced with hoop iron at every alternate courses	190	SM	800	152,000
Total Carried to Collection					152,000
COLLECTION					
Brought Forward From Page 01					361,620
Brought Forward From Page 02					1,440,860
Brought Forward From Above					152,000
Total For Substructure Works Carried to Summary					1,954,480

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
ELEMENT NO 2-WALLING					
A	Masonry stone wall in cement sand (1:4) mortar 200mm thick natural stone wall reinforced with hoop iron at every alternate courses	440	SM	800	352,000
B	200mm wide Hessian based bituminous felt damp proof course in one layer including levelling and bedding in cement sand (1:3) mortar.	170	LM	100	17,000
Total For Walling Carried to Summary					369,000

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COUNTY WORKS OFFICER (MOPW)
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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
ELEMENT NO 3-STRUCTURAL WORKS					
<u>Reinforced Concrete Class 25/20 (1:2:4) as described</u>					
A	Beams	11	CM	10000	110,000
<u>High yield squire twisted reinforcement bars to B.S 4461</u>					
B	8mm diameter bars	400	KGS	140	56,000
C	12mm diameter bars	570	KGS	140	79,800
<u>Sawn formwork as described to</u>					
D	Sides of Beam	100	SM	200	20,000
Total For Structural Works Carried to Summary					265,800

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COUNTY WORKS OFFICER (MOPW)
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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
ELEMENT NO 4-ROOFING					
A	30 Gauge Prepainted roofing sheets	676.2	SM	1100	743,820
B	30 gauge ridge cap	54	LM	400	21,600
<u>The following in swan celcured cypress</u>					
C	150 x 50 mm rafters	330	LM	280	92,400
D	150 x 50 mm Tie Beam	300	LM	300	90,000
E	100 x 50 mm struts / ties	350	LM	300	105,000
F	150 x 50 mm wallplate	125	LM	280	35,000
G	75 x 50 mm purlins	400	LM	280	112,000
H	225 x 25 mm fascia board	125	LM	300	37,500
J	Prepare and apply two under coats and one finishing coat of exterior quality super gloss oil paint to wood surfaces 200-300mm girth	180	LM	250	45,000
RAIN WATER DISPOSAL					
K	The following in approved heavy plastic gauge 150mm diameter half round PVC gutter fixed to faqscia board with including pattern brackets at 1000mm center to center	180	LM	400	72,000
L	100mm diameter downpipe fixed to wall and including holder bolts at 600mm centres	18	LM	800	14,400
M	Extra over down pipe for swan neck	4	NO	1000	4,000
N	Extra over down pipe for shoe	4	NO	1000	4,000
Total For Roof Carried to Summary					1,376,720

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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
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PROPOSED CONSTRUCTION OF NEW DORMITORY AT BUNYORE TEACHERS TRAINING COLLEGE-JANUARY 2024

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

ELEMENT NO 5-WINDOWS

Supply and fix steel casement window with buglar proof with red oxide and complete with window fasteners

A	Window size 1800 x 1500mm high	24	NO	7000	168,000
	Glazing				
G	4mm thick clear sheet glass in panes 0.5m squared to 1.0m squared in metal putty	65	SM	600	39,000
H	Prepare and apply two under coat and one finishing coat to general surfaces of metal	130	SM	200	26,000

Total For Windows Carried to Summary

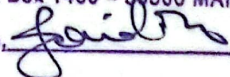
233,000

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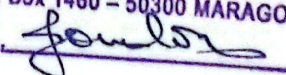
ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
ELEMENT NO 6-DOORS					
<u>Supply and fix the following steel and glass panel door with standard metal section from approved manufacture complete with frames,transomes,mullion and including permanent ventilation all welding ground to smooth finish</u>					
A	1200x2400mm high	8	NO	18000	144,000
B	900x2400mm high	2	NO	15000	30,000
Total For Doors Carried to Summary					174,000.0

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COUNTY WORKS OFFICER (MOP)
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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
ELEMENT NO 7-FINISHES					
Internal Wall Finishes					
A	40mm thick cement sand (1:3) screed trowelled smooth	450	SM	200	90,000
B	12mm thick two coat gauged plaster 1:1:6 to walls internally	450	SM	200	90,000
EXTERNAL WALL FINISHES					
C	12mm thick cement sand (1:4) mortar rendering to walls externally	60	SM	300	18,000
D	Extra over ditto for tyrolean finish to walls externally	0	SM	300	-
Prepare and apply two undercoat and one finishing coat of first quality emulsion paint to:					
E	Rendered Walls	20	SM	350	7,000
F	Plastered Walls	450	SM	300	135,000
Floor					
Insitu cement and sand (1:3) screed beds with steel trowelled smooth					
G	40mm thick screed trowelled and lamped to semi	588	SM	300	176,400
H	300 x 300 x 6mm thick ceramic tiles laid to screed bed and pointed in colured grout	588	SM	1300	764,400
J	25 x 100mm high tile skirting rounded on top	130	LM	150	19,500
K	200 x 200 x 6mm thick wall ceramic tiles on wet areas	10	SM	1300	13,000
Total For Finishes Carried to Summary					1,313,300

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COUNTY WORKS OFFICER (MOPW),
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ITEM	DESCRIPTION	AMOUNT
SUMMARY		
	Substructure From Page	1,954,480
	Walling From Page	369,000
	Structural Works From Page	265,800
	Roofing From Page	1,376,720
	Windows From Page	233,000
	Doors From Page	174,000
	Finishes From Page 09	1,313,300
	Total For Builders Works	5,686,300

COUNTY WORKS OFFICER (MOPW)
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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	PROVISIONAL SUMS				
	ELECTRICAL				
A	Allow the Provisional Sum of Kenya Shillings One Hudred and Eighty Thousand (Kshs. 180,000/-) for ELECTRICAL WORKS	--	SUM	--	180,000.00
	GENERAL OFFICE AND ADMINISTRATION				
B	Allow the Provisional Sum of Kenya Shillings Two Hudred Thousand (Kshs. 200,000/-) for General Office and adminstration	--	SUM	--	200,000.00
	PROJECT MANAGEMENT				
C	Allow the Provisional Sum of Kenya Shillings Two Hudred Thousand (Kshs. 200,000) For Project management	--	SUM	--	200,000.00
	CONTINGENCY				
D	Allow the Provisional Sum of Kenya Shillings Thirty Thousand (Kshs. 30,000) For CONTINGENCY	--	SUM	--	30,000.00
TOTAL PROVISIONAL SUMS CARRIED TO GRAND SUMMARY					610,000.00

COUNTY WORKS OFFICER (MOPW)
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ITEM	DESCRIPTION	AMOUNT
	SUMMARY	
A	BILL NO 01 .BUILDERS WORK	5,686,300.00
E	PROVISIONAL SUMS	610,000.00
	SUBTOTAL	6,296,300.00
	ADD 16% V.A.T	1,007,408.00
GRAND SUMMARY		7,303,708.00

NAME OF TENDERER.....

ADDRESS.....

SIGNATURE.....

DATE.....

NAME OF WITNESS.....

ADDRESS.....

SIGNATURE.....

DATE.....

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