



REPUBLIC OF KENYA

MINISTRY OF PUBLIC WORKS.

PROPOSED LABORATORY RENOVATION

NYABIKONGORI MIXED SECONDARY SCHOOL

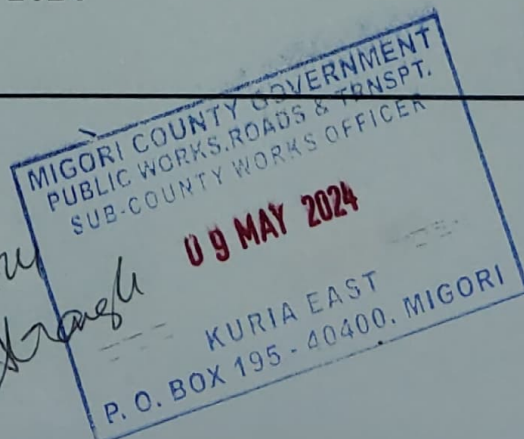
**BILLS OF QUANTITIES**

KURIA EAST SUBCOUNTY WORKS OFFICER

MINISTRY OF PUBLIC WORKS

P.O. BOX 21 KEGONGA

APRILL 2024



ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	LABORATORY NYABIKONGORI MIXED SECONDARY SCHOOL				
	<u>ELEMENT NO. 1 DEMOLITION</u> <u>(ALL PROVISIONAL)</u>				
A	Demolish the concrete worktops and carefully remove the sinks and store where directed		ITEM		25,000
B	Excavate over site average 150mm deep to remove top vegetable soil and cart away		SM	-	-
C	Excavate average 150mm deep to reduce levels and cart away		CM	-	-
D	Excavate foundation trench not exceeding 1.5m deep from reduced level and deposit where directed		CM	-	-
E	Extra over for excavating in rock irrespective of class		CM	-	-
F	Return, fill and well ram around foundations		CM	-	-
G	Load and cart away extra excavated materials from site		CM	-	-
H	Allow for keeping trenches free from water.	Item			5,000
I	Allow for upholding sides of trenches by plunking and strutting	Item			5,000
	<u>Concrete works</u> <u>Mass concrete mix 1:3:6 as described in:-</u>				
J	50mm thick in trenches		SM	-	-
	<b>Carried to collection</b>			<b>Kshs</b>	<b>35,000</b>

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 1CONT'D</u>				
	<u>Reinforced concrete class 20/20 as described in:-</u>				
A	200mm thick strip foundation		CM	-	-
B	150mm thick floor slab		SM	-	-
	<u>Sawn formwork as described to:-</u>				
C	Sides of floor slab.		LM	-	-
	<u>High yield square twisted bars to BS 4461</u> <u>(All provisional)</u>				
D	8mm in foundations		KG	-	-
E	10mm ditto		KG	-	-
	<u>Foundation walling</u>				
G	200mm roughly dressed natural stone walling in cement sand mortar		SM	-	-
	<u>Earthworks</u>				
H	300mm hand packed hardcore filling in layers not exceeding 150mm depth		CM	-	-
I	50mm thick murrum blinding.		SM	-	-
J	Treat surface of blinded hardcore with insecticides.		SM	-	-
	<b>Carried to collection</b>			<b>Kshs</b>	<b>-</b>

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 1CONT'D</u>				
	<u>Damp proofing</u>				
A	500gauge damp proof membrane.		SM	-	-
B	200mm wide bituminous damp proof course		LM	-	-
	<u>Plinth finishes</u>				
C	12mm thick cement sand render in plinths.	9	SM	300	2,700
D	Prepare and apply two coats of black bituminous paint on plinths	9	SM	300	2,700
E	25mm thick sand cement backing to receive tiles	159	SM	350	55,650
	300x300x18mm thick non slip ceramic tiles as saj or equal and approved quality to floors	159	SM	1,700	270,300
F	100mm high skirting	112	LM	100	11,200
	<u>Steel posts</u>				
G	75mm diameter steel posts 3000mm long <u>with bottom cast into concrete and with</u> a "U" bracket at the top to hold timber beam	8	N0	3,500	28,000
	<b>Carried to collection</b>			<b>Kshs</b>	<b>370,550</b>
	<b>COLLECTION</b>				
	Brought forward from page 1				35,000
	Brought forward from page 2				-
	Brought forward from page above				370,550
	<b>TOTAL FOR ELEMENT NO. 1 SUBSTRUCTURE CARRIED TO SUMMARY</b>			<b>Kshs</b>	<b>405,550</b>

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 2</u>				
	<u>CONCRETE FRAME</u>				
	<u>Reinforced concrete class 20/25 as described in:-</u>				
A	75mm thick work tops  <u>work top finishes</u>  25mm thick sand cement backing to receive tiles  300x300x18mm thick ceramic floor tiles as saj	35	SM	1,450	50,750
	<u>Sawn formwork as described to:-</u>				
B	Sides of work tops	63	LM	550	34,650
C	Soffits of ditto	38	SM	150	5,700
	<u>High yield square twisted bars to BS 4461</u> <u>(All provisional)</u>				
D	10mm bars in work tops	133	KG	200	26,600
F	12mm cement sand screed on concrete frame.	39	SM	300	11,700
	<b>TOTAL FOR ELEMENT NO. 2 CONCRETE FRAME CARRIED TO SUMMARY</b>			<b>Kshs</b>	<b>129,400</b>

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 3 WALLING</u>				
	<i>Well burnt brick walling in cement sand mortar (1:3) with 25mm SWG hoop iron after every alternate course.</i>				
A	150mm thick	27	SM	1,100	29,700
B	Ditto to gable ends		SM	-	-
	<u>Sundries</u>				
D	200x225mm high eaves fillings in stonework.	32	LM	200	6,400
E	Seal the joint between roof covering and walling with cement sand mortar.	32	LM	100	3,200
	<u>Wall finishes</u>				
E	15mm cement sand limed plaster trowelled smooth to walls internally	60	SM	350	21,000
F	12mm cement sand render to external walls.		SM	-	-
	<i>Prepare and apply one undercoat and two coats silk vinyl paint to:-</i>				
J	Plastered internal walls	60	SM	350	21,000
	<i>Prepare and apply one undercoat and two coats plastic emulsion paint to:-</i>				
K	Rendered external walls.		SM	-	-
	<b>TOTAL FOR ELEMENT NO. 3 WALLING</b>				
	<b>CARRIED TO SUMMARY</b>			<b>Kshs</b>	<b>81,300</b>

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 4 CONT'D</u>				
	<u>Ceiling</u>				
A	50x50mm brandering	324	LM	150	48,600
B	75x50mm ceiling joists	492	LM	200	98,400
C	Supply and fix 12mm thick chipboard ceiling lining.	156	SM	1,100	171,600
D	15x75mm sawn cypress timber cornice	112	LM	100	11,200
E	225x25mm fascia board	60	LM	300	18,000
	<u>Prepare and apply one undercoat and two coats super gloss paint to:-</u>				
F	Surfaces 200-300mm girth fascia	60	LM	75	2,400
	<u>Extra over ceiling for:-</u>				
G	Forming trap door size 600x600mm and positioning in roof space on bearers.	2	N0	1,000	2,000
	<u>Prepare and apply one undercoat and two coats soft white emulsion paint to:-</u>				
H	Ceiling lining	156	SM	300	46,800
	<b>Carried to collection</b>			<b>Kshs</b>	<b>399,000</b>
	<u>COLLECTION</u>				
	Brought forward from page 7				431,200
	Brought forward from page above				399,000
	<b>TOTAL FOR ELEMENT NO. 4 CEILING CARRIED TO SUMMARY</b>			<b>Kshs</b>	<b>830,200</b>

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 5 DOORS</u>				
	<b><u>STEEL DOORS</u></b>				
A	Purpose made steel double door size 1200x2400mm high in one coat red oxide primer and two coats gloss oil paint complete with burglar proof bars frame and steel door lock (union).	2	No	15,000	30,000
	<b><u>Glazing</u></b>				
B	4mm thick clear sheet glass and glazing in panes 0 – 0.5m2 with putty.	2	SM	2,000	4,000
	<b><u>Timber Doors</u></b>				
C	45mm thick semi-solid mahogany paneled door size 900x2400mm high.		N0	-	-
	<b><u>Frames</u></b>				
D	100x50mm thick mahogany timber frame once rebated and moulded one edge.		LM	-	-
E	Ditto but twice rebated.		LM	-	-
F	50x25mm architrave		LM	-	-
G	25x25mm quadrant fillet		LM	-	-
	<b>Carried to collection</b>			<b>Kshs</b>	<b>34,000</b>



ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 5 CONT'D</u>				
	<u>IRON MONGERY</u>				
	<u>ALL AS PER UNION CATALOGUE</u>				
A	Three lever mortice lock complete with door furniture.		N0	-	-
B	100mm pressed steel butt hinges.		PRS	-	-
C	25mm diameter rubber door stop fixed to floor with rawl bolt.		N0	-	-
	<u>Prepare and apply three coats of clear varnish paint to:-</u>				
D	Doors overally		SM	-	-
E	Surfaces 150 – 225mm girth		LM	-	-
	<u>Prime only back of frame</u>				
F	Surfaces 150 – 225mm girth		LM	-	-
	<b>Carried to collection</b>			<b>Kshs</b>	-
	<u>COLLECTION</u>				
	Brought forward from page 9				34,000
	Brought forward from page above				-
	<b>TOTAL FOR ELEMNT NO. 5 DOORS CARRIED TO SUMMARY</b>			<b>Kshs</b>	<b>34,000</b>

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 6</u>				
	<u>WINDOWS</u>				
	<i>Purpose made steel casement windows in one coat red oxide primer and two coats gloss oil paint and complete with burglar proof bars, and locking accessories</i>				
A	Window size 1500x1400mm high.		N0	-	-
B	Ditto size 1500x600mm high.		N0	-	-
B	Ditto size 1500x1000mm high zinc plated steel lovred windows for 150mm blades		N0	-	-
	<u>Glazing</u>				
C	4mm thick clear sheet glass and glazing in panes 0 – 0.5m2 with putty	3	SM	2,000	6,000
	<u>Cill</u>				
D	225x75mm thick weathered concrete window cill reinforced with 8 gauge weld . mesh and including all necessary moulding and formwork and both sides fair fished		SM	-	-
	<b>TOTAL FOR ELEMENT NO. 6 WINDOWS CARRIED TO SUMMARY</b>			<b>Kshs</b>	<b>6,000</b>

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>BUILDING WORKS</u></b>				
	<b>SUMMARY</b>	<b>PAGE</b>			
1	SUBSTRUCTURE	N,L3			405,550
2	CONCRETE FRAME	N,L 4			129,400
3	WALLING	N,L 5			81,300
4	ROOFING	N,L7			830,200
5	DOORS	N,L,L			34,000
6	WINDOWS	N,L10			6,000
	<b>TOTAL BUILDING WORKS CARRIED TO MAIN SUMMARY</b>			<b>Kshs</b>	<b>1,486,450</b>

ITEM	DESCRIPTION	UNIT	AMOUNT (KSHS)
<b><u>PRIME COST &amp; PROVISIONAL SUMS</u></b>			
<b><u>Contingencies</u></b>			
A	Allow a provisional sum of Kenya shillings <b>ONE hundred thousand</b> (Kshs.100,000) only for <b>contingencies</b>	Sum	100,000
<b><u>Electrical works</u></b>			
B	Allow a provisional sum of Kenya shillings <b>One hundred thousand</b> (Kshs. 100,000) only for <b>Electrical works</b>	Sum	100,000
<b><u>Project management</u></b>			
C	Allow a provisional sum of Kenya shillings <b>One hundred thousand</b> (Kshs. 100,000) only for <b>project management and supervision</b>	Sum	100,000
<b><u>Lab Equipments</u></b>			
D	Allow a provisional sum of Kenya shillings <b>three hundred thousand</b> (Kshs. 300,000) only for <b>worktops, fume cup board, extraction fan and LPGgas installation</b>	Sum	300,000
<b>TOTAL FOR PRIME COST &amp; PROVISIONAL SUMS CARRIED TO MAIN SUMMARY</b>			<b>600,000</b>

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PROPOSED RENOVATION OF LABORATORY AT NYABIKONGORI  
MIXED SECONDARY SCHOOL

MAIN SUMMARY

ITEM	DESCRIPTION	PAGE	CONTRACTOR SUM	OFFICIAL
A	BUILDING WORKS	11	1,486,450.00	
B	PRIME COST & PROVISIONAL SUMS	PC/1	600,000.00	
	<b>SUB TOTAL</b>		<b>2,086,450.00</b>	
<b>GRAND TOTAL INCLUSIVE OF V.A.T</b>			<b>2,086,450.00</b>	

AMOUNT IN WORDS, KENYA SHILLINGS .....

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MAIN CONTRACTOR .....

ADDRESS .....

SIGNATURE .....

DATE .....

SIGNATURE .....

DATE .....

MS/1

*Handwritten signature and date: 9/5/24*

**MIGORI COUNTY GOVERNMENT  
PUBLIC WORKS, ROADS & TRNSPT.  
SUB-COUNTY WORKS OFFICER**  
**09 MAY 2024**  
KURIA EAST  
P. O. BOX 195 - 40400, MIGORI