



NG - CDF

**National Government
Constituencies Development Fund
Rongo Constituency**

**PROPOSED COMPLETION OF 8-NO CLASSROOMS,
ADMINISTRATION & ABOLUTION BLOCKS
AT**

KOSODO SECONDARY SCHOOL

BILL OF QUANTITIES

Prepared by: -

**Sub County Works Officer,
Rongo Sub-County
P.O. Box 43, Rongo
MIGORI COUNTY.**

Issued By:-

**The Fund Account Manager,
NATIONAL GOVERNMENT CONSTITUENCY DEVELOPMENT FUND
RONGO CONSTITUENCY
P.O. BOX 542, RONGO**

APRIL 2023

MEASURED WORKS

Item	Description	Unit	Quantity	Rate	Shs.
	<u>ELEMENT NO. 1</u>				
	<u>SUBSTRUCTURE WORKS</u>				
	<u>PLINTH</u>				
	<i>Insitu Finishes</i>				
A	14mm thick 2No. coatwork cement sand (1:3) render; wood floated to concrete or block work base to wall; external.	SM	61		
	<i><u>Prepare and apply three coats of black bituminous paint on:-</u></i>				
B	Rendered plinths externally	SM	61		
	<i><u>Paving slabs</u></i>				
C	600x600mm pre-cast concrete slabs including excavating, carting away, leveling bottom, laying and compacting 150mm murrum bed, anti-termite treatment and 50mm thick quarry dust blinding	SM	77		
	Carried to collection on page.....			Kshs.	

Item	Description	Unit	Quantity	Rate	Shs.
	<u>ELEMENT NO. 2 ROOFING</u>				
	PLUMBING & DRAINAGE				
	<u>Rain water goods</u>				
	<u>24g Galvanied mild steel sheeting all welds grounds smooth</u>				
A	150x200mm box gutter including solvent joints in the running length fixed to fascia board with and including bracket at approved centres	LM	117		
B	Extra ; for blocked ends with 75mm dia. outlet 100mm long.	NO	4		
C	Extra; for 90 degree bends	NO	4		
D	75mm dia. Rain water down pipes fixed with and including mild steel straps at 900mm centres , plugged and scrued to wall	LM	98		
E	Extra; swan neck bends	NO	8		
F	Extra; horse shoe bend	NO	8		
	<u>Paintings and decorations</u>				
	<u>On wood work</u>				
	<u>Prepare and apply one undercoat and two coats of 'CROWN SOLO' or Other equal and approved super gloss oil paint to :-</u>				
G	Fascias; 200-300mm girth; external.	LM	143		
	<u>On metal work</u>				
	<u>Prepare and apply one approved etching primer, one under coat and two coats of 'CROWN SOLO' or other equal and approved super gloss oil paint to:-</u>				
H	General surfaces of gutters ; over 30mm girth external	SM	94		
I	Small pipes; external	SM	57		
	<u>Tongue and grooved timber timber surfaces</u>				
	<u>Prepare and apply three coats of 'CROWN SOLO' or other equal and approved poly urethane varnished to :-</u>				
J	Surfaces of eaves; over 300mm girth external	SM	79		
	Carried to collection on page.....			Kshs.	

Item	Description	Unit	Quantity	Rate	Shs.
	<u>ELEMENT NO 3. WALLING</u>				
	<u>EXTERNAL , INTERNAL AND PERIMETER WALLING</u>				
	<u>Brick walling</u>				
A	150mm thick approved local; burnt brick bedding, jointing and pointing in cement sand (1;3) Mortar in eaves	SM	80		
B	Ditto in washrooms	SM	40		
	<u>GRILLS</u>				
C	Fabricate, deliver and install security grills 1200mm high to side of the verandah both in ground and first floor (Adopt the pattern given by the [PMC and the Project Manager])	LM	117		
D	Ditto but in stairs and ramp 1000mm high	LM	25		
	Carried to collection on page.....			Kshs.	

Item	Description	Unit	Quantity	Rate	Shs.
	<u>ELEMENT NO 4. DOORS</u>				
	<u>Fabricate, deliver and install the following purpose made steel casement doors (to Archi detail) to comply to BS 990, obtained from an approved manufacturer, primed with red oxide primer before delivery to site, complete with hinges, handles, catches and to include 300mm high louvered top vent and 2100mm high openable leaf</u>				
A	<u>Wrot celcured cider framed frames and framings</u> 150x50mm; 2No.labours; plugged door frame	LM	139	600	
B	40x25mm weathered architrave	LM	251	100	
C	25mm rounded quadrant	LM	251	100	
	<u>45mm thick semi-solid core flush doors to BS 459:part 2 veneered both sides with first quality ply wood and lipped on all edges in approved hard wood.</u>				
D	Door size 9000x2100mm high	NO	21	4,500	
E	<u>4mm clear sheet glass and glazing</u> Glasses with approved metal putty	SM	4	1,200	
	<u>IRON MONGERY</u> <u>Supply and fix the following to union catalogue or other equal and approved</u>				
F	Two lever mortice complete with set lever brass handle furniture	NO	21	3,500	
G	100mm stainless steel butt hinges	PRS	21	400	
H	Rubber door stop complete with 38mm rawl bolt	NO	21	100	
	<u>Painting an decorations</u> <u>Prepare and apply three coats oil paint full gloss to crown Solo or other equal and approved to :-</u>				
I	General surfaces of flush doors; over 300mm girth internall	SM	81	200	
J	General surfaces of steel doors over 300mm girth intern,al	SM	47	200	
	<u>Alluminium primer or other equal and approved wood primer before fixing:-</u>				
K	Backs of frame, board, etc over 100mm but not exceeding 200mm girth.	LM	126	100	
	<u>Prepare and apply three coats oil paint full gloss to crown solo or other equal and approved to:-</u>				
L	Timber frames; over 100mm but not exceeding 200mm girth.	LM	126	100	
	Carried to collection on page.....	Kshs			

	Description	Unit	Quantity	Rate	Shs.
	<u>ELEMENT NO. 5WINDOWS</u>				
	<u>Pelmet box</u> <u>Supply and fixed patternised steel curtain rod as directed by project manager</u>				
A	Comprising 150x25mm wide fascia, 2No. 150x25mm ends 100mm long ; 100x25mm block board top; and 50x25mm wrot cypress bearer plugged (104 NO.)	LM	14		
	<u>Supply, assemble and fix the following purpose made mild steel casement windows; standard metal section from approved manufacturer complete with frames, transoms, mullions and with including permanent ventilators comprising 'T' bar, gauze and 16 gauge sheet metal hood 50mm high by 50mm projection to full width of window , coupling mullions, approved iron monger and one coat manufacturer's primer; all welding ground to smooth finish.</u>				
B	Steel; for glazing with putty, lugs to two jambs cutting and pinning to concrete or block work, fixing to head and sill with screws; plugging				
C	Window, overall size, 800x600mm high	NO	21		
	<u>Glazing</u>				
D	5mm thick clear sheet glass paints over 0.1 but not exceeding 0.5m ² ; fixing with putty	SM	135		
	<u>Prepare and apply three coats oil paint full gloss to crown solo or other equal and approved to:-</u>				
E	Surfaces of metal (casements and burglar proofing grills)	SM	114		
	Carried to collection on page.....			Kshs.	

Item	Description	Unit	Quantity	Rate	Shs.
	<u>ELEMENT NO. 6 FINISHES</u>				
	<u>Wall Finishes</u>				
	<u>Plaster; 12mm thick 2No. coat work, 9mm first coat of cement sand (1:6); 3mm second coat of cement and lime putty (1:10); steel troweled to concrete or block work base generally to :-</u>				
A	Walls internal				
	<u>Tile, Slab or Block Finishings</u>	SM	51	300	
	<u>Approved non-slip ceramic wall tiles to BS 1281; local ; coloured glazed wall tiles to regular or approved other pattern ; bedding and jointing in cement sand (1:4) mortar, grouting with white cement</u>				
B	250X250X8mm thick butt joints both ways; to cement sand base (m ²); to floors level ; internal	SM	59	1500	
	<u>Beds and backings</u>				
C	20mm thick one coat backings; wood floated to receive ceramic tile(m/s); to concrete or block work base; to walls; internal	SM	106	300	
	<u>Paintings and Decorations</u>				
	<u>Prepare and apply three coats of first quality plastic emulsion paint to:-</u>	SM	1607	200	
D	Plastered walls and internally	SM	738	200	
E	Walls externally	SM	530	200	
F	Ditto but celotex ceiliboard	SM	530	200	
G	Ditto but concrete ceiling	SM	530	200	
	<u>Floor Finishes</u>				
	<u>In situ Finishings</u>				
H	15mm thick floor screeding	SM	1166	350	
	<u>20mm thick, 2No. coat work terrazzo; approve d colour; cement and marble chippings (1:2); machine polished ; to concrete or block work base generally to:-</u>				
I	Floor; internal	SM	1166	2200	
J	Skirtings; 100mm wide with rounded junction with wall finish and curved junction with floor finish.	LM	519	300	
K	PROVISIONAL: 25X3mm plastic dividing strip skirts to lengths and set vertically to screed to form margins	LM	914	100	
	Carried to collection on page.....			Kshs.	

ITEM	DESCRIPTION	PAGE	KSH.
A	SUBSTRUCTURE	C 1	
B	ROOFING	C 2	
C	WALLING	C3	
D	DOORS	C4	
E	WINDOWS	C5	
F	FINISHES	C6	
	TOTAL BUILDERS WORK 1	KSHS.	

MEASURED WORKS 2

EXTERNAL WORKS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>EXTERNAL WORKS</u>				
	<u>EXTERNAL DRAINAGE</u>				
A	Provide all materials and construct type A manhole to details.	12	NO		
B	Ditto type B manholes.	3	NO		
	<u>TRENCH</u>				
C	Excavate trench not exceeding 1.5m deep but average 500mm wide 700mm deep part return fill and remainder cart away.	55	LM		
	<u>PIPING</u>				
D	Supply and lay in trench 110mm diameter pipe	55	LM		
	Carried to collection on page.....			Kshs.	

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	SHS.
	<u>CONTD</u>				
A	Allow for connecting the pipes to the septic tanks and internal drainage.		ITEM		
	<u>SEPTIC TANK</u> (100 persons)				
B	Clear site of all bushes band grab up roots.	60	SM		
C	Excavate and average 150mm deep to remove and cart away.	60	SM		
D	Excavate average 150mm deep to reduced levels.	24	CM		
E	Excavate in pi not exceeding 1.5m deep and deposit where directed.	36	CM		
	Carried to collection on page.....			Sh.	

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	SHS.
	<u>CONTD'</u>				
A	Ditto but no exceeding 3.0m ditto.	19	CM		
B	100mm thick reinforced concrete bottom slab	20	SM		
C	BRC Reinforcement Ref A 142 in slab.	20	SM		
D	150mm thick solid concrete block walling.	34	SM		
	<u>Reinforced concrete class 20/20 as described:-</u>				
E	Buffle wall	6	SM		
F	Scum buffle	9	SM		
G	150mm thick cover slab.	20	SM		
	<u>Sawn formwork as described to:-</u>				
H	Sides of buffle wall	12	SM		
	Carried to collection on page.....			Kshs.	

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	SHS.
	<u>CONTD'</u>				
A	Sides of scum buffle	18	SM		
B	Soffits of ditto.	9	LM		
C	Soffits of cover slab.	20	SM		
D	Sides of ditto.	18	LM		
	<u>Reinforcement</u>				
	<u>High yield square to BS 4461</u>				
E	10mm bars in buffle wall.	44	KG		
F	Ditto in scum buffle.	67	KG		
G	Ditto in cover slab.	148	KG		
H	Form or leave opening in cover slab size 600x450mm	2	NO.		
	Carried to collection on page.....			Kshs.	

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	SHS.
	<u>FINISHES</u>				
A	25mm cement sand screed on floors.	20	SM		
B	12mm cement sand plaster to walls internally with water proof cement.	34	SM		
C	Ditto on baffle walls.	12	SM		
D	Ditto on scam baffle.	18	SM		
E	Ditto on top slab.	20	SM		
F	Supply and install medium duty manhole cover size 560x 450mm complete with frame and greasing between cover and frame.	4	SM		
	Carried to collection on page.....			Kshs.	

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	SHS.
	<u>SOAK PITS.</u>				
A	Excavate in pit 0-1.5m deep and cart away.	3	CM		
B	Ditto 1.5-3.0mm ditto.	3	CM		
C	Ditto 3.0-4.5mm ditto.	3	CM		
D	Ditto 4.5-6.0mm ditto.	3	CM		
E	Extra over for excavating in rock.	12	CM		
F	Backfill the pits with porous material.	12	CM		
	Carried to collection on page.....			Kshs.	

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
A	<p><u>CONTD'complete</u></p> <p>Provide all material and provide soak pit cover 1500mm diameters complete with foundations to detail.</p>	2	NO		
B	<p>Allow for testing all the drainage works.</p> <p>To Collection</p> <p><u>COLLECTION</u></p> <p>Brought forward from page L1.</p> <p>Brought forward from page L2.</p> <p>Brought forward from page L3.</p> <p>Brought forward from page L4.</p> <p>Brought forward from page L5</p> <p>Brought forward from page L6</p> <p>Brought forward from page ABOVE</p> <p>TOTAL</p> <p>FOR EXTERNAL WORKS</p>		ITEM		
	TOTAL BUILDERS WORK 2			KSHS	

PC 1

	<i>PRIME COST(PC) AND PROVISIONAL SUM</i>	
1.	Allow a prime cost sum of Kenya shillings three hundred and forty five thousand (Ksh345,000.00) only for Project management	345,000
2.	Allow a prime cost sum of Kenya shillings Thirty thousand (Kshs. 30,000.00) only for publicity (Bill Board & wall writing)	30,000
3	Allow a prime cost sum of Kenya shillings one hundred thousand a (Kshs. 100,000.00) only for contingencies	100,000
4	Allow a prime cost sum of Kenya shillings two hundred and fifty thousand a (Kshs. 250,000.00) only for Plumbing works	250,000
5	Allow a prime cost sum of Kenya shillings Two hundred and fifty thousand a (Kshs. 250,000.00) only for Electrical works	250,000
TOTAL		975,000

GENERAL GRAND SUMMARY PAGE

ITEM	DESCRIPTION	PAGE	PROJECT SUM	
			KSHS.	CTS
1	BUILDERS WORKS 1	C7		00
2	BUILDERS WORKS 2	L7		00
3	PRIME COST(PC) AND PROVISIONAL SUM	PC1	975,000	
	GRAND TOTAL			00

NOTE: ALL RATES INCLUSIVE OF 16% VAT

AMOUNT IN WORDS KENYA SHILLINGS:

MAIN CONTRACTOR _____

ADDRESS _____

SIGNATURE _____

DATE _____