



NG - CDF

**National Government
Constituencies Development Fund
Rongo Constituency**

PROPOSED CONSTRUCTION OF AN ADMINISTRATION BLOCK

AT

ST.PETERS' OFWANGA MIXED 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**

***NOTE:** The proposed construction of Admin. Block involves; Substructure works, Concrete Frame, Walling, Finishes and Fixing of Doors & Windows.*Page 1

Item	Description	Unit	Quantity	Rate	Shs.
	<u>ELEMENT NO.1</u>				
	<u>SUBSTRUCTURE(ALL PROVISIONAL)</u>				
A	Allow in the rates for site clearance for keeping all excavations free from surface water and for plunking and strutting to uphold side of excavations	ITEM	-	-	
B	150mm thick oversite excavation	SM	305		
C	Excavate foundation trenches not exceeding 1.5m deep commencing from stripped level.	CM	123		
D	Ditto but in column bases not exceeding 2000mm.	CM	18		
E	Extra over excavation for excavating in rock(all classes)	CM	3		
	<u>Disposal</u>				
F	Backfilling around foundations	CM	115		
G	Load and cart away surplus spoil.	CM	29		
	<u>Imported filling</u>				
H	300mm thick approved hardcore bed to receive concrete well compacted in layers.(after every 100m layer)	SM	274		
I	50mm thick murrum or quarry dust blinding to hardcore.	SM	274		
J	<u>Damp proof membranes</u>				
K	1000 gauge polythene sheet laid, under beds.	SM	274		
	<u>Anti-termite treatment</u>				
L	Chemical anti-termite treatment executed by an approved specialist under a ten year guarantee to surfaces blinded hardcore.	SM	82		
	<u>Plain concrete(1:4:8)</u>				
	50mm thick under strip footing.				
	Carried forward.....			Kshs.	

*NOTE: The proposed construction of Admin. Block involves; Substructure works, Concrete Frame, Walling, Finishes and Fixing of Doors & Windows.*Page 2

	Description	Unit	Quantity	Rate	Shs.
	ELEMENT NO. 1 CONTND. Brought forward				
	<u>Vibrated reinforced concrete class 20/20 in:</u>				
A	Foundations strip & 200mm thick	CM	7		
B	Ditto but column base 300mm thick	CM	2		
C	100mm thick floor beds.	SM	274		
D	Acces Ramp and Stairs	CM	3		
	<u>High yield deformed steel bar reinforcement to B.S 4461 including bends , hooks, tying wire distance blocks and spacers.</u>				
E	8mm diameter bars	KG	58		
F	10mm diameter bars	KG	89		
G	12mm diameter bars	KG	107		
	<u>BRC mesh fabric to B.S. 4483</u>				
H	BRC mesh fabric reinforcement type No. A142 weighing 2.22Kg/SM including laps.	SM	274		
	<u>Formwork to:</u>				
I	Sides of strip footing	LM	73		
J	Edges of floor beds etc. 75to 150mm high	LM	90		
	<u>Natural stone / burnt brick or solid concrete walling in cement and sand mortar (1:4) with 26 gauge hoop iron in every alternate course (price for the material available in the region)</u>				
K	200mm thick walling	SM	130		
	<u>Bituminous felt damp proof courses laid on and including leveling screed of cement sand mortar.</u>				
L	20mm wide in walling.	LM	263		
	<u>Plinths</u>				
M	19mm thick cement sand (1:3) rendering to plinths walls	SM	54		
N	Prepare and apply three coats black bituminous paints to rendered plinths externally.	SM	54		
	Carried to collection on page.....				
	ELEMANT NO.1 TO SECTION SUMMARY.			Kshs.	

NOTE: The proposed construction of Admin. Block involves; Substructure works, Concrete Frame, Walling, Finishes and Fixing of Doors & Windows. Page 3

Item	Description	Unit	Quantity	Rate	Shs.
	<u>ELEMENT NO. 2</u>				
	<u>SUPERSTRUCTURE (RC FRAMES & WALLING)</u>				
	<u>Vibrated reinforced concrete class 20/20</u>				
A	Ring beams	CM	12		
B	Columns	CM	1		
	<u>High yield deformed steel bar reinforcement to B.S.4461</u>				
C	8mm diameter bars .	KG	552		
D	12mm diameter bars.	KG	1030		
	<u>Sawn formwork to.</u>				
E	Sides and soffits roof ring beams	SM	106		
	<u>WALLING</u>				
	<i>Machine cut stone / burnt brick or solid concrete block walling jointed in cement and sand mortal (1:3) with minimum crushing strength of 7.0 N/mm² (price for the material that is available in the region)</i>				
F	200mm Thick walling (external)	SM	192		
G	150mm thick walling (internal)	SM	208		
H	Extra over for masonry piers size 200mm thick	LM	24		
	<u>Precast concrete louvre blocks</u>				
I	200mm Thick Louvre block walling.	SM	21		
	ELEMENT NO.2 TO SECTION SUMMARY...			Kshs.	

*NOTE: The proposed construction of Admin. Block involves; Substructure works, Concrete Frame, Walling, Finishes and Fixing of Doors & Windows.*Page 4

Item	Description	Unit	Quantity	Rate	Shs.
	ELEMENT NO. 3: ROOFING Roof construction –(all provisional) <u>The following in nailed selcured sawn second grade cypress roof structures including cleats, hoisting and fixing in position approximately 3.00metres above existing ground level.</u>				
A	100x50mm wall plates plugged	LM	125		
B	75x50mm purlins	LM	384		
	<u>6No. truss spanning 14.7metres including hoisting approximately 3metres from ground level</u>				
C	150x50mm tie beam	LM	142		
D	100x50mm king posts	LM	37		
E	100x50mmTies or struts	LM	170		
F	100x50mm rafters	LM	168		
	<u>Wrot cypress as described ;</u>				
G	200x25mm Fascia or bard	LM	110		
	<u>Prepare and apply one undercoat two finishing coats of gloss oil paint to wood-</u>				
H	Surface between 225-300mm girth	LM	110		
	<u>Roof Covering</u>				
	<u>Iron roofing sheet; 30 gauge; pre-painted Box Profile</u>				
I	Roof covering; 150mm laps on one end and one and a half corrugation side lap; and nailing to timber purlins	SM	384		
J	Ridge or hip covering to match.	LM	31		
K	Ditto but valleys	LM	21		
	<u>Ceiling Board and Finishes</u>				
	<u>Approved wrot cypress; prime grade pressure impregnated</u>				
L	100x25mm moulded cornice	LM	300		
	<u>Approved sawn softwood; second grade; pressure impregnated ;</u>				
M	50x50mm brandering	LM	1085		
	<u>Celotex ceiling boards</u>				
N	13mm thick nailed to 50x50mm timber brandering (m/s), nails punched and puttied; set to pattern to ceilings	SM	274		
	<u>Prepare and apply three coats oil paints full gloss to crown solo or other equal and approved to:-</u>				
O	Soft board surfaces	SM	274		
P	Painting to fascia board	SM	90		
	ELEMENT NO.3 TO SECTION SUMMARY...			Kshs.	

NOTE: The proposed construction of Admin. Block involves; Substructure works, Concrete Frame, Walling, Finishes and Fixing of Doors & Windows. Page 5

Item	Description	Unit	Quantity	Rate	Shs.
	<u>ELEMENT NO. 5 ;WINDOWS</u>				
	<u>Purpose made mild steel casement windows neat cut and welded, all welds ground smooth and to even surfaces comprising 25x25x3mm Z and T Section framing, transoms, mullions etc; complete with handles, stays and all other necessary iron monger; one coat red lead oxide primer by manufacturer; cutting and pinning lugs to concrete or masonry jambs , head and cill; bedding in cement sand (1:3) mortar, pointing all round frames easing, oiling and adjusting opening lights on completion.</u>				
A	Grilled Window type W1 overall size 1,500x1,200mm high 2no side openable lights each size 400x900mm high , 2no. middle fixed light each size 350x900mmhigh and 1no.top fixed lights size 1,500x300mm high.	NO	18		
B	Grilled Window type W2 overall size 1500x900mm; 2no. top openable lights each size 500x600mm high,3no. bottom fixed lights and1no. middle fixed light both size 500x600mm high.	NO	6		
C	<u>4mm clear glass and glazing to metal frame with putty</u> In panes over 0.10 but not exceeding 0.50 square meters <u>Painting and Decorating</u>	SM	35		
D	<u>Prepare and touch up primer, apply one undercoat and two finishing coats gloss paint; on metal</u>	SM	10		
	Surfaces of casement windows (measured both sides				
	ELEMENT NO.5 TO SECTION SUMMARY...			Kshs	

Item	Description	Unit	Quantity	Rate	Shs.
	<u>ELEMENT NO. 6 DOORS</u>				
	<u>Mild steel casement doors, 50x50x3mm thick frame plugged to block work with 100mm long fish tailed 25x25x2mm thick angle section frames at 300mm centres both sides , angles cut, mitred and welded; panels in filled with 4mm thick glazing at top panel and 16 gauge black sheet panel at both middle and bottom panels as detailed in the drawing, one coat manufacturers primer complete, with all necessary iron monger , all welding ground to smooth finish.</u>				
A	Double door with equal leaves 1500x2400mm high including three pairs 10mm long purpose made hinges ; 2no. 400mm tower bolts and one 1No. 300mm D handle.	NO	2		
	Ditto but 900x2400mm	NO	2		
B	<u>Painting and decoration</u> Touch up primer prepare and apply two undercoats and one finishing coat of matt oil paint to surfaces of metal doors (both sides measured measured overall)	SM	20		
C	<u>Timber Doors</u> Vannier flush complete with cider frames and all iron mongeries and including three lever lock union	NO	8		
D		NO	6		
E	Plywood flush doors to toilet with cider frames and all iron mongeries and including 2lever lock union	NO	2		
	Double panel door complete with all 3lever lock union				
F	<u>Wrot celcured cypress framed frames and framings</u>	LM	119		
G	50x25mm weathered architraves	LM	119		

*NOTE: The proposed construction of Admin. Block involves; Substructure works, Concrete Frame, Walling, Finishes and Fixing of Doors & Windows.*Page 8

25x25mmm rounded quadrant			Kshs.	
ELEMENT NO.2 TO SECTION SUMMARY...				

Page BO 8 MOW 122

ITEM	DESCRIPTION	PAGE	KSH.
	<u>SUMMARY</u>		
1	Sub structure work		
2	Superstructure		
3	Roofing		
4	Finishes		
5	Windows		
6	Doors		
	TOTAL TO SUMMARY	KSHS.	

NOTE: The proposed construction of Admin. Block involves; Substructure works, Concrete Frame, Walling, Finishes and Fixing of Doors & Windows. Page 9

PC1

PRIME COST(PC) AND PROVISIONAL SUM		
1.	Allow a prime cost sum of Kenya shillings two hundred thousand (Kshs. 200,000) only for electrical works.	200,000
2.	Allow a prime cost sum of Kenya shillings Thirty thousand (Kshs. 30,000) only for publicity (Bill Board & wall writing)	30,000
3	Allow a prime cost sum of Kenya shillings One hundred thousand (Kshs. 100,000) only for plumbing works.	100,000
4	Allow a prime cost sum of Kenya shillings Sixty thousand (Kshs. 60,000) only for contingencies	60,000
5	Allow a prime cost sum of Kenya shillings three hundred thousand (Kshs. 300,000) only for Bio-Digester and Septic tank.	300,000
TOTAL		790,000

NOTE: The proposed construction of Admin. Block involves; Substructure works, Concrete Frame, Walling, Finishes and Fixing of Doors & Windows. Page 10

GENERAL GRAND SUMMARY PAGE

ITEM	DESCRIPTION	PAGE	PROJECT SUM	
			KSHS.	CTS
1	BUILDERS WORKS	BO 7		00
2	PRIME COST(PC) AND PROVISIONAL SUM	BO 8	790,000	00
	SUB TOTAL 1			00
	ADD 5% PMC			
	SUB TOTAL 2			
	ADD 16% VAT			
	GRAND TOTAL			

AMOUNT IN WORDS KENYA SHILLINGS:

MAIN CONTRACTOR _____

ADDRESS _____

SIGNATURE _____

NOTE: The proposed construction of Admin. Block involves; Substructure works, Concrete Frame, Walling, Finishes and Fixing of Doors & Windows. Page 11

DATE _____

NOTE: The proposed construction of Admin. Block involves; Substructure works, Concrete Frame, Walling, Finishes and Fixing of Doors & Windows. Page 12