NG - CDF

National Government
Constituencies Development Fund
Rongo Constituency

PROPOSED CONSTRUCTION OF 4NO. STOREY TUITION BLOCK

AT

KAMAGAMBO 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

MEASURED WORKS

PHASE 1

NOTE: *The proposed construction of Tuition Block involves; Substructure works, Concrete frames, Walling, Fixing of Doors, Windows, Fittings and Fixtures, in ground floor.*Page 2

Item	Description	Quantity	Unit	Rate	Amount
	ELEMENT NO.1 **SUBSTRUCTURE (ALL PROVISIONAL)** ***This element includes all works up to ground floor.*** **SITE CLEARENCE.**				
A	Clear site of all bushes, trees not exceeding 600mm girth and grubbing up their roots.	1003	SM		
B	Excavate average 50mm deep to remove top soil and remove from site.	716	SM		
C	Excavate average 300mm deep to reduce levels.	215	CM		
D	Excavate in column pits deep and deposit where directed.	286	CM		
E	Excavate in foundation trench not exceeding 1.5m deep form reduced level and deposit where directed	378	CM		
	Extra over excavation to:-				
F	Excavating in rock irrespective of class.	20	CM		
G	Return fill and ram around foundations	494	CM		
H	Load and cart any extra excavated materials from site.	186	CM		
I	Allow for keeping trenches free from water.	-	ITEM		
J	Allow for upholding sides of trenches by plucking and strutting.	-	ITEM		
	Carried to collection on page……			**Kshs.**	

Item	Description	Quantity	Unit	Rate	Amount
	ELEMENT NO. 1 CONTD`				
	Concrete works.				
	Mass concrete mix 1:4:8 as described in:-				
A	50mm blinding of column bases.	159	SM		
B	Ditto in trenches.	189	SM		
	Reinforced concrete class 20/20 as described in:-				
C	300mm thick column bases	32	CM		
D	300x300mm sub columns.	16	CM		
E	150mm thick floor slab.	540	SM		
F	Staircase and ramp footing.	9	CM		
	Sawn formworks as described to:-				
G	Sides of column bases.	109	SM		
H	Sides of sub columns	132	SM		
I	Sides of floor slab	191	LM		
	High yield square twisted bars to BS 4461.				
J	16mm bars in column bases.	1319	KG		
K	12mm bars in column bases.	912	KG		
L	20mm bars in foundation column	1590	KG		
M	16mm bars in foundation columns	126	KG		
N	12mm bars in stairs and ramp footing	129	KG		
O	**BRC** BRC fabric mesh reinforcement to BS 4483 Ref. A14 Weighing 2.22kg/m^2	540	SM		
P	**FOUNDATION WALLING** 200mm thick quarry stone walling in cement sand mortar.	143	SM		

	Carried to collection on page.....			**Kshs.**	

Item	Description	Quantity	Unit	Rate	Amount
	ELEMENT NO. 1 CONTD`				
	EARTHWORKS				
A	300mm thick well selected murram laid in 100mm thick layers to make up levels.	146	CM		
B	300mm thick hand packed hardcore filling to make up levels.	146	CM		
C	50mm thick well selected murram blinding to hardcore.	540	SM		
D	Treat surface of blinded hardcore with an approved insecticide.	540	SM		
	Damp proofing.				
E	1000 gauge polythene sheet damp proof membrane.	540	SM		
F	50mm wide hessian based bituminous damp proof course.	341	LM		
G	**FINSHES.** 12mm thick cement sand render on plinths.	125	SM		
H	Prepare and apply two coats of black bituminous paint on plinths.	125	SM		
I	25mm cement sand screed on floors.	540	SM		
J	**Floor Finish** 20mm thick, 2No. coat work terrazzo; approved colour; cement and marble chippings (1:2); machine polished ; to concrete or block work base generally to floor internal	540	SM		
K	Ditto but 75mm high skirting.	540	SM		
	To collection			**Kshs.**	
	COLLECTION Brought forward from page BO1				
	Brought forward from page BO2				

	Brought forward from Above.....				
	Carried to collection on page.....			**Kshs.**	

Item	Description	Quantity	Unit	Rate	Amount
	ELEMENT NO. 2				
	CONCRETE FRAME, GROUND FLOOR				
	Reinforced concrete class 20/20 as described in:-				
A	Columns.	28	CM	10,000	
B	Staircase and Ramp	9	CM	10,000	
C	Beams.	47	CM	10,000	
D	150mm thick suspended floor slab.	540	SM	1,200	
	Sawn formwork as described to:-				
E	Sides of columns.	231	SM	300	
F	Sides of beams.	160	SM	300	
G	Soffites of ditto.	110	LM	200	
H	Soffites of staircase Ramp Landing.	24	SM	300	
I	Soffits of floor slab	406	SM	300	
J	Sides of staircase and ramp 150-225mm girth.	28	LM	200	
K	Sides of raisers ditto.	48	LM	200	
	High yield square twisted bars to BS 4461.				
L	D12 in beams	1088	KG	140	
M	D16 in beams	1002	KG	140	
N	D20 in beams	405	KG	140	
O	D25 in beams	870	KG	140	
P	D12 in columns	1835	KG	140	
Q		114	KG	140	

R	D16 in columns	115	KG	150	
S	D20 in columns D10 in Floor Slab	7,900	KG	150	
	Carried to collection on page……			**Kshs.**	

Item	Description	Quantity	Unit	Rate	Amount
	ELEMENT NO. 2 CONTD`				
	FINISHES				
A	12mm thick cement sand plaster to columns on ground floor.	329	SM		
B	12mm thick cement sand plaster to beams.	441	SM		
C	12mm cement sand plaster to soffites of staircase and ramp ground floor, and beams.	52	SM		
D	12mm cement sand plaster to soffites of suspended slab in first floor	504	SM		
E	Labour and material for forming sharp arises at edges.	366	LM		
	Prepare and apply one undercoat and two coats of silk emulsion paint to;-				
F	Soffites of suspended slab.	504	SM		
G	Ditto staircase and ramp.	52	SM		
H	Ditto to beams.	441	SM		
	To collection			**Kshs.**	
	COLLECTION				
	Brought forward from page BO4				
	Brought forward from Above….				

	Carried to collection on page.....			Kshs.	

Item	Description	Quantity	Unit	Rate	Amount
	ELEMENT NO. 3 **WALLING** ***150mm thick brick walling in cement sand mortar and with 25mm SWG Hoop iron after every 400mm***				
	GROUND FLOOR.				
A	Externally and Internally.	563	SM		
	FINISHES.				
B	12mm cement sand render to walls externally.	313	SM		
C	Labour and material for forming sharp arises at edges.	130	LM		
D	12mm cement sand plaster to walls internally.	658	SM		
E	Labour for forming V junction at corners.	157	LM		
F	Labour for forming curved junction with floors.	118	LM		
	Prepare and apply one undercoat and two coats silk emulsion paint to:-				
G	Walls internally.	658	SM		
H	Externally.	313	SM		

	Carried to collection on page……			**Kshs.**	

Item	Description	Unit	Qty	Rate	Shs
	ELEMENT NO.5 **DOORS,WINDOWS, FITTINGS & FIXTURES** **DOORS**				
A	Purpose made steel door size 1500x2400mm high in one coat primer and two coats gloss paint complete with fixed fanlight at the top openable leaves size 600x2100mm each with top half in glass panels and with steel door lock, pad bolt and bottom and top barrel bolt including fixing in position	1	NO.		
B	Ditto but 1200x2400	4	NO		
C	4mm thick clear sheet glass and glazing in panes 0-0.5m^2 with putty.	14	SM		
D	Panel doors complete with cider frame and including fun light provision.. **WINDOWS** ***Purpose made steel casement windows in one coat primer and two coats gloss part complete with locking accessories, pavement vents as top and fabricated on (I) Inch 'Z' section:-***	18	NO		
E	Window size 1500x1200mm high	16	NO		
F	Ditto but 1,500x1000mm	8	NO		
G	Ditto but 1,500x1000mm	14	NO		
H	**GLAZING** 4mm thick clear sheet glass and glazing in panes 0-0.5m2 with patty.	49	NO		
I	**CILL** 200x75mm thick weathered concrete window cill reinforced with 8 gauge weld mesh and including all necessary form work and moulding and both sides fair finished.	45	LM		

	FITTINGS AND FIXTURES ***GUARD RAIL(STAIRCASE,RAMP & VERANDA)***				
J	Purpose made steel guard rail fabricated on 50x50x3mm RHS farming and 25x25mm RHS infills at 100mm centres to approved pattern and with 50mm diameter steel guardrail welded to frame fixed to concrete floor and columns and averagely 200mm high and in three coats of paint.	75	SM		
	Carried to collection on page.....			**KShs.**	

Item	Description	Page	Amount
1	SUBSTRUCTURE	BO3	
2	CONCRETE FRAME	BO5	
3	WALLING	BO6	
4	DOORS,WINDOWS,FITTINGS & FIXTURES	BO7	

NOTE: *The proposed construction of Tuition Block involves; Substructure works, Concrete frames, Walling, Fixing of Doors, Windows, Fittings and Fixtures, in ground floor.*Page 10

	TOTAL BUILDING WORKS.	**Kshs.**	

PC1

	PRIME COST(PC) AND PROVISIONAL SUM	
1.	Allow a prime cost sum of Kenya shillings one hundred and seventy five thousand (Kshs. 175,000) only **for electrical works.**	**175,000**
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 Fifty thousand (Kshs. 50,000) only for **contingencies**	**50,000**
5	Allow a prime cost sum of Kenya shillings five hundred and seventy thousand (Kshs. 570,000) only for **Bio-Digester** and **Septic tank.**	**570,000**
	TOTAL	**925,000**

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	**925,000**	00
	SUB TOTAL 1			
	ADD 5% PMC			
	SUB TOTAL 2			
	ADD 16% VAT			

	GRAND TOTAL		

AMOUNT IN WORDS KENYA SHILLINGS:

_____

_____

MAIN CONTRACTOR _____

ADDRESS_____

SIGNATURE_____

DATE_____