

REPUBLIC OF KENYA



MANDERA COUNTY GOVERNMENT  
MINISTRY OF ROADS, TRANSPORT & PUBLIC WORKS  
DEPARTMENT OF PUBLIC WORKS

Telephone: .....  
Email: mdrpublicworks@gmail.com  
When replying please quote

County works officer,  
P.O BOX 49-70300,  
**MANDERA.**

Ref: MDR/NGCDF/BANISA/2020-(13)

8<sup>th</sup> February, 2020

The Fund Manager,  
NG-CDF- Banisa Constituency,  
P.O. Box 37-70303,  
**TAKABA**

RE: **PROPOSED CONSTRUCTION OF BANISA CONSTITUENCY OFFICE  
BLOCK.**

**ESTIMATE BILLS OF QUANTITIES**

This Is In Reference To Your Request On The Above Project and Subject Matter.

The estimated cost for the proposed works is Kenya Shillings fourteen Million, Nine Hundred and Ninety eight Thousands seven Hundred nine five Kshs. **(14,998,795.36)** only.

  
**Abdikadir Maalim (SCWO)**  
For: CD-Public Works Department,  
**MANDERA COUNTY.**

Encls.



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MANDERA COUNTY GOVERNMENT  
MINISTRY OF ROADS, TRANSPORT & PUBLIC WORKS  
DEPARTMENT OF PUBLIC WORKS

**PROPOSED CONSTRUCTION OF  
BANISA CONSTITUENCY CDF OFFICE BLOCK  
& 50M<sup>3</sup> UNDERGROUND WATER TANK.**

**AT  
BANISATOWN  
IN**

**BANISA CONSTITUENCY**

**TENDER DOCUMENT**

TENDER NO: .....

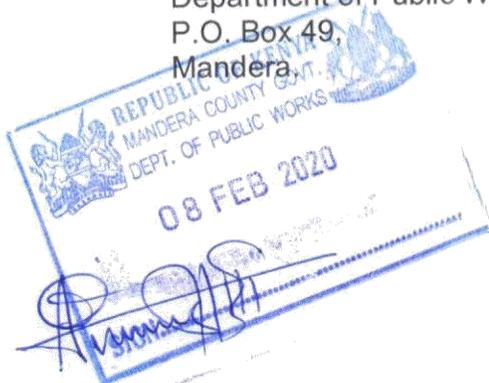
**Prepared: -**

Sub County Works Officer,  
Banisa Sub County,  
Department of Public Works  
P.O. Box 49,  
Mandera

**Issued: -**

Fund Manager,  
NG-CDF Office,  
Banisa Constituency,  
P.O. Box 175- 70304,  
Takaba.

**FEBRUARY, 2020.**





**BILL NO. 02: BILLS OF QUANTITIES FOR THE PROPOSED CDF  
BANISA CONSTITUENCY OFFICE BLOCK AT BANISA**

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<b>MAIN OFFICE BLOCK</b>				
	<b><u>ELEMENT NO. 1: SUBSTRUCTURES</u></b>				
	<b><u>ALL PROVISIONAL</u></b>				
	<b><u>NOTE:</u></b>				
	All work measured under this element is up to and including the floor slabs but excluding the finishes thereon: -				
A	<b><u>SITE CLEARANCE:</u></b> Clear the site of all bushes, shrubs, undergrowth and small trees grab uproot and cart away burn all arising.	520	SM	100	52,000.00
B	Excavate over site average 250mm deep to remove vegetable soil load up wheel and deposit on site not exceeding 50m	485	SM	250	121,250.00
C	Excavate to reduce levels	42	CM	250	10,500.00
D	Excavate for strip foundation trenches not exceeding 1.5m deep commencing from reduced level.	195	CM	250	48,750.00
E	Ditto for column bases	28	CM	450	12,600.00
F.	Allow for keeping excavations free from mud and all water including spring and running water by pumping, pailing or other approved means.	-	ITEM	2,000	2,000.00
G.	Allow for planking and strutting to sides of excavations.	-	ITEM	2,000	2,000.00
	<b>CARRIED TO COLLECTION</b>				<b>249,100.00</b>

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<b><u>DISPOSAL</u></b>				
A	Load surplus excavated material wheel and deposit onsite not exceeding 50m away.	78	CM	300	23,400.00
	<b><u>FILLING:</u></b>				
B	Return, fill and ram selected excavated material around foundations.	130	CM	200	26,000.00
	<b><u>HARDCORE AS DESCRIBED:</u></b>				
C	Approved hardcore filling including leveling, consolidating and or hand packing in layers 150mm thick.	78	CM	350	27,300.00
	<b><u>BLINDING:</u></b>				
D	50mm thick layer murrum or other equal and approved blinding to the surface of hardcore; roled smooth to receive polythene sheeting's (m.s.)	322SM		600	193,200.00
	<b><u>INSECTICIDE TREATMENT</u></b>				
E	'Termidor' or other equal and approved chemical insecticide treatment prepared and applied according to the manufacturer's printed instructions.	322	SM	250	80,500.00
	<b><u>REMOVE OF TERMITES NESTS</u></b>				
F	Remove termite's nests by approved means and destroy the termites by applying 'termidor' or other equal and approved chemicals as per the manufacturers printed instructions.	-	ITEM	1,000	1,000.00
	<b>CARRIED TO COLLECTION</b>				<b>351,400.00</b>

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
A	<b><u>DAMP PROOF MEMBRANE</u></b> 500 gauge polythene or other equal and approved plastic sheets damp proof membrane laid over blinding (measured net – allow for laps)	322	SM	250	80,500.00
B	<b><u>IN-SITU CONCRETE WORK</u></b> <b><u>MASS CONCRETE (1:4:8/38-38mm AGGREGATE)</u></b> 50mm thick blinding under foundations	130	SM	600	78,000.00
C	<b><u>VIBRATED REINFORCED CONCRETE (1:2:4/20-20MM) AGGREGATE AS DESCRIBED IN:-</u></b> Strip foundations	18	CM	10,000	180,000.00
D	Columns and bases	8	CM	10,000	80,000.00
E	150mm thick floor slab (1:3:6)	322	SM	5,000	1,610,000.00
F	<b><u>STEEL REINFORCEMENT SUPPLY AND FIX BAR/ROD REINFORCEMENT INCLUDING BENDING HOOKS TRYING WIRE CUTTING SPACER AND SUPPORTING ALL IN POSITION AS DESCRIBED.</u></b> <b><u>HIGH TENSILE SQUARE TWISTED BARS TO B.S. 4461</u></b> 12mm diameter	560	KG	200	112,800.00
G	10mm diameter	475	KG	200	95,000.00
H	8mm diameter	280	KG	200	56,000.00
	<b>CARRIED TO COLLECTION</b>				<b>2,291,500.00</b>

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
A	<b><u>MESH REINFORCEMENT</u></b> Fabric mesh reinforcement to B.S. 4484 ref. A142 including laps trying wire and spacer blocks complete (measure net allow for lap)	322	SM	350	112,700.00
B	<b><u>SAWN FORMWORK AS DESCRIBED TO:</u></b> Edges of floor slabs 75 - 150mm high	103	LM	200	20,600.00
C	<b><u>FOUNDATION WALLING</u></b> 200mm thick rough chiseled natural stone walling bedded and joined in cement and sand (1:3) mortar and reinforced with and including 20 Gauge 25mm wide hoop iron in every alternate course.	342	SM	650	222,300.00
D	400mmx200mm attached pier	NIL	LM	-	-
E	<b><u>PLINTH AREA FINISHES</u></b> 20mm thick cement and sand (1:3) wood float render to plinth area.	46	SM	300	13,800.00
F	Prepare and apply three coats black bitumastic paints to rendered area.	46	SM	300	13,800.00
G	<b><u>PAVING SLABS</u></b> Paving slabs 50mm thick paving slabs laid on compacted murrum and pointed in cement and sand (1:3) mortar.	62	SM	250	15,500.00
<b>TOTAL CARRIED TO COLLECTION</b>					398,700.00
<b><u>COLLECTION</u></b>					
Brought forward page ADM/01					249,100.00
Brought forward page ADM/02					351,400.00
Brought forward page ADM/03					2,291,500.00
Brought down from page ADM/04 above					398,700.00
<b>TOTAL FOR ELEMENT NO. 01: SUBSTRUCTURES CARRIED TO SUMMARY</b>					<b>3,290,650.00</b>

ITEM	DESCRIPTION	QTY.	UNIT	RATE	\$HS.
	<b><u>ELEMENT NO. 02</u></b> <b><u>R.C. FRAME(SUPERSTRUCTURE</u></b>				
	<b><u>Vibrated reinforced concrete (1:2:4/20-25 – 20mm aggregates) as described in:-</u></b>				
A	R.C Columns	5	CM	13,000	65,000.00
B	Ring Beams(2No. levels)	14	CM	13,000	182,000.00
	<b><u>Steel reinforcement</u></b> <b><u>Supply and Fix steel bar/rod reinforcement including bending hooks trying wire cutting spacer blocks and supporting all in position.</u></b>				
	<b><u>High Tensile square twisted bars to B.S. 4461 as described in:-</u></b>				
C	12mm diameter	1530	KG	200	306,000.00
D	8mm diameter	560	KG	200	112,000.00
	<b><u>Sawn Form Works as described to:-</u></b>				
E	Side and soffits to ring beams	153	SM	350	53,550.00
F	Sides of columns	70	SM	300	21,000.00
G	Circular columns	NIL	SM	-	-
	<b>TOTAL FOR ELEMENT NO. 02: REINFORCED CONCRETE FRAME 739,550.00 CARRIED TO SUMMARY</b>				

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<b><u>ELEMENT NO. 03</u></b>				
	<b><u>EXTERNAL WALLING</u></b>				
	<b><u>FINE CHISEL DRESSED NATURAL STONE WALLING BEDDED AND JOINED IN CEMENT AND SAND (1:3) MORTAR AS DESCRIBED:-</u></b>				
A	150mm thick reinforcement with and including 25mm wide x 3mm thick galvanized hoop iron in every alternate course.	285	SM	1050	185,250.00
B	Ditto but 150mm thick concrete or other equal and approved louvre block walling.	NIL	SM		
C	400mmx200mm attached pier.	NIL	LM		
	<b><u>HORIZONTAL DAMP PROOF COURSE; ONE LAYER OF 3PLY BITUMINOUS FELT OR OTHER EQUAL AND APPROVED (MEASURED NETT-ALLOW FOR LAPS)</u></b>				
D	150mm wide leveled and bedded in cement and sand (1:3) mortar under walls.	90	LM	950	85,500.00
	<b><u>SUNDRIES</u></b>				
E	Labour and material for 150mm wide x 230mm (average) high eaves filling to top of 200mm wall.	24	SM	500	9,600.00
F	Fair raking cutting on top of 150mm wall.	16	LM	550	7,200.00
G	Pair of 250mm x 250mm x30mm thick precast permanent vent fitted with mosquito gauze	46	NO.	400	9,200.00
	<b>TOTAL FOR ELEMENT NO. 3 EXTERNAL WALLING CARRIED TO SUMMARY</b>				<b>423,950.00</b>

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<b><u>ELEMENT NO. 4</u></b>				
	<b><u>INTERNAL WALLING</u></b>				
	<b><u>FINE CHISEL DRESSED NATURAL STONE WALLING BEDDED AND JOINED IN CEMENT AND SAND (1:3) MORTAR AS DESCRIBED IN:-</u></b>				
A	150mm thick walling reinforcement with and including hoop iron in every alternate course.	390	SM	950	370,500
	<b><u>HORIZONTAL DAMP PROOF; ONE LAYER OF 3 PLY BITUMINOUS FELT OR OTHER EQUAL AND APPROVED (MEASURED NETT- ALLOW FOR LAPS)</u></b>				
B	150mm wide leveled and bedded in cement and sand (1:3) mortar under walls.	102	LM	950	96,900.00
	<b>TOTAL FOR ELEMENT NO. 04 INTERNAL WALLING CARRIED TO SUMMARY</b>				<b>467,400.00</b>

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<b><u>ELEMENT NO. 05</u></b>				
	<b><u>ROOFING</u></b>				
	<b><u>All Timber To Be Sawn Cypress Seasoned To An Equilibrium Moisture Content Of Between 9% And 15% And To The Requirement Of K.S. 02771 Of 1991 Treated With Approved Wood Preservative:</u></b>				
A	100 x 50mm wall plate on and including 10mm cement and sand (1:4) mortar bed secured, on reinforced concrete ring beams (m.s) by mild steel anchor bolts (m.s)	92	LM	150	13,800.00
	<b><u>The Following In Nailed Timber Trusses Including Hoisting And Placing 3000mm Above Floor Slab Level:-</u></b>				
B	150x 50mm rafters.	288	LM	130	37,440.00
C	150x 50mm tie beams	165	LM	180	29,700.00
D	150x 50mm strut/ties.	356	LM	180	64,080.00
	<b><u>INDEPENDENT MEMBERS</u></b>				
E	75 x 50mm purlins	338	LM	110	37,180.00
	<b><u>ROOF COVERING</u></b>				
F	Prepainted Gauge 28ITBP950 Profiled sheets 906mm wide 857mm effective cover fixed on timber purlins(M.S)	494	SM	1500	741,000.00
G	Gauge 22 valley gutter 600mm girth.	18	LM	800	14,400.00
H	Gauge 28 ridge cap or hip cover to match covering.	59	LM	800	47,200.00
	<b><u>RAIN WATER GOODS</u></b>				
I	Gauge 22 galvanized mild steel sheeting: all welds ground smooth:150mm x100mm box gutter including soldered joints in the running length fixed to fascia board with and including brackets at 1.0m centres.	100	LM	200	20,000
J	<b>Extra over gutter for blocked ends with 100mm</b>	2	NO	250	500.00
K	Dittofor 100mm diameter outlet.	12	NO	200	2,400.00
L	<b>Ditto for 90<sup>o</sup> degrees bends.</b>	10	NO	250	2,500.00
M	100mm dia rainwater down pipe fixed with and including mild steel brackets at 900mm centres plugged and screwed to wall.	48	LM	300	14,400.00
N	<b>Extra over for swan neck bend</b>	12	NO	350	4,200.00
O	Ditto horse shoe bend	12	NO	350	4,200.00
	<b>TOTAL CARRIED TO COLLECTION</b>				<b>1,033,000.00</b>

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<b><u>WROT CYPRESS</u></b>				
A	25 x 250mm fascia board fixed to end of rafters (m.s)	92	LM	450	41,400.00
B	25 x 255mm barge board fixed to the end of battens.	12	LM	450	5,400.00
	<b><u>SUNDRIES</u></b>				
C	12mm diameter x 250mm long black mild steel anchor bolt embedded in ring beam at 1200mm centers including drilling holes in timber.	75	NO	500	37,500.00
D	100 x 100 x 6mm thick galvanized mild steel nailing cleat once bent to form angle ten times drilling; one flange nailed to foot of rafter (m.s) other nailed to top of wall plate (m.s) or any other approved fixing method.	48	NO	500	24,000.00
	<b><u>PAINTING</u></b>				
	<b><u>PRIME ONLY BACK OF WOOD BEFORE FIXING</u></b>				
E.	Surface 100 – 200mm girth.	92	LM	200	18,400.00
	<b><u>KNOT PRIME STOP AND PREPARE AND APPLY ONE UNDER COAT AND TWO FINISHING COATS OF GLOSS OIL PAINT (abd) To:</u></b>				
F.	General surface of wood 200 – 300 mm girth.	104	LM	200	20,800.00
	<b><u>TOTAL CARRIED TO COLLECTION COLLECTION</u></b>				147,500.00
	Brought forward from page ADM/08				1,033,000.00
	Brought forward from page ADM/09 above				147,500.00
	<b><u>TOTAL FOR ELEMENT NO.05 ROOFING CARRIED TO SUMMARY</u></b>				<b>1,180,500.00</b>

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<b>ELEMENT NO. 06</b> <b>WINDOWS</b> <b>ALUMINIUM WINDOWS</b>				
	<b>200mm x 100mm x 75mm average throated concrete windows sill finished smooth in red oxide plaster to surfaces.</b> <b>Aluminum windows including 8mm thick clear glass and ironmongery:-</b>				
A	Window comprising 2 No. sliding sashes, overall size 1500 x 1500mm	21	NO	22,000	462,000.00
B	Window comprising 2 No. sliding sashes, overall size 1000 x 1500mm	2	NO	22,000	44,000.00
C	Window comprising 2 No. sliding sashes, overall size 1200 x 1500mm	1	NO	22,000	22,000.00
	<b><u>Burglar proofing</u></b> <b><u>25mm SHS tube sections burglar proofing according to approved design size:</u></b>				
D	1500 x 1500mm	21	NO	15,000	315,000.00
E	1000 x 1500mm	2	NO	10,000	20,000.00
F	1200 x 1500mm	1	NO	9,500	9,500.00
G	<b><u>Painting</u></b> Prepare surface and apply three coats crown paint to general surfaces of metal.	22	SM	200	4,400.00
	<b>Pair of precast permanent vent as director by project manager</b>				
H	precast permanent vent comprising overall size 3000 x 1100mm	3	NO	10,000	30,000.00
	<b>TOTAL CARRIED TO COLLECTION</b>				<b>906,900.00</b>

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<b><u>Curtains</u></b> <b>38mm Standard imported decorative bronze curtain rods complete with approved curtain cloth and net:-</b>				
A	Size 1500mm	21	NO	2,000	42,000.00
B	Ditto 1000mm	2	NO	1,800	3,600.00
	<b>TOTAL CARRIED TO COLLECTION</b>				45,600.00
	<b><u>COLLECTION</u></b>				906,900.00
	Brought forward from page ADM/10				45,600.00
	Brought forward from page ADM /11 above				
	<b>TOTAL FOR ELEMENT NO. 06: WINDOWS CARRIED TO SUMMARY</b>				<b>952,500.00</b>

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS
	<b><u>ELEMENT NO. 07</u></b> <b><u>DOORS</u></b>				
	<b><u>FRAMES AND FINISHING</u></b> <b><u>Hardwood timber door frames</u></b>				
A	150 x 50mm f frame once rebated	130	LM	600	26,000.00
B	50 x 25mm Architrave	110	LM	250	16,500.00
C	25x 25mm finished Quadrant	110	LM	200	11,000.00
	<b><u>Flush Timber Doors</u></b> <b><u>45mm thick semi –solid core</u></b> <b><u>decorative flush door</u></b>				
D	Door size 900mm x 2100mm with Mahogany veneer both sides	10	NO	12,000	120,000.00
	<b><u>Hardwood timber doors</u></b>				
E	50 mm thick hardwood paneled door with 6No. fielded and raised panels overall size 1500mm x 2400mm high, partly opening (leaf size 900mm x 2100mm high) and partly fixed size 300mm x 2100mm infilled with two panels and rest in clear glass 5mm thick and 300mm clear glass fixed light above all openings.	NIL	NO	-	-
F	<b><u>Grill doors</u></b>				
G	<b>Supply and fabricate decorative grill in 25 x 25mm RHS hollow section including primer, locking accessories and painting overall size:</b>				
	1500 x 2100mm	3	NO	15,000	45,000.00
	900 x 2100mm	4	NO	10,000	40,000.00
	<b>TOTAL CARRIED TO COLLECTION</b>				<b>332,500.00</b>

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS
	<b><u>Paneled Doors</u></b> <b>50mm thick Hardwood paneled doors with 6NO. fielded and raised panels</b>				
A	Door oversize 900 x 2400mm high.	4	NO	18,000	72,000.00
B	Ditto double door size 1500 x 2400mm high.	3	NO	26,000	78,000.00
	<b><u>Iron Mongery</u></b> <b><u>Supply and fix the following iron mongery with matching screw to wood and / or (where applicable) metal:-</u></b>				
C	Three lever rebated mortise lock complete with approved lever handle furniture	8	NO	2,000	16,000.00
D	Two lever mortise lock complete with approved level handle furniture	10	NO	1,500	15,000.00
E	100mm brass butt hinges	40	PRS	500	20,000.00
	<b><u>Door stoppers</u></b>				
F	40mm diameter rubber door stopper fixed to wall or floor with approved raw bolt.	22	NO	400	8,800.00
	<b><u>Steel Gate</u></b>				
G	Steel paneled gate size 4000mm x 2100mm high fabricated in rolled hot sections RHS tubes size 40mm x 25mm in outer frame infilled with 25mm x 25mm and covered with gauge 14 steel sheet including 50mm x 50mm angle iron frame hang on concrete columns (m.s) with 600mm pedestrian door incorporated, including all accessories.	NIL	NO	-	-
	<b>TOTAL CARRIED TO COLLECTION</b>				<b>209,800.00</b>

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS
	<b><u>PAINTING</u></b>				
	<b><u>Prime only back of frame with aluminium or other equal and approved primer before fixing as described to:-</u></b>				
A	Frames; surfaces not exceeding 100mm girth	218	LM	200	43,600.00
B	Ditto 200mm to 300mm girth	128	LM	200	25,600.00
	<b><u>Prepare, knot, prime, stop and apply 2-pack polyurethane H/B first grade varnish.</u></b>				
C	General surfaces of wood	74	SM	180	13,320.00
D	Ditto 200-300mm girth	130	LM	150	19,500.00
E	Ditto not exceeding 100mm girth	220	LM	150	33,000.00
	<b>TOTAL CARRIED TO COLLECTION</b>				<b>135,020.00</b>
	<b><u>COLLECTION</u></b>				
	Brought forward from page ADM/12				332,500.00
	Brought forward from page ADM /13				209,800.00
	Brought forward from page ADM/14 above				135,020.00
	<b>TOTAL ELEMENT NO. 07 DOORS CARRIED TO SUMMARY</b>				<b>677,320.00</b>

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS
	<b><u>ELEMENT NO. 08</u></b>				
	<b><u>FINISHES</u></b>				
	<b><u>Floor Finishes</u></b>				
	<b><u>Cement and sand (1:4) screed as described</u></b>				
A	40mm thick colored cement and sand screed steel trowelled smooth(Kitchen)	12	SM	600	7,200.00
B	32mm thick finished to receive tiles	318	SM	550	174,900.00
C	Ditto 20 x 100mm high skirting	98	LM	400	39,200.00
	<b><u>Ceramic non-slip tiles</u></b>				
D	300mm x 300mm x 8mm as manufactured by SAJ CERAMICS LTD or other equal and approved coloured ceramic non-slip floor bedded as per manufacturer's instructions	318	SM	850	270,300.00
E	100mm high skirting	98	LM	450	44,100.00
	<b><u>Wall finishes</u></b>				
	<b><u>Two coats gauged cement lime and sand (1:2:9) plaster steel trowelled smooth:-</u></b>				
F	20mm (minimum) thick to natural stone walls internally	790	SM	600	474,000.00
G	Ditto walls externally	269	SM	550	147,950.00
	<b><u>Ceiling finishes</u></b>				
H	12mm thick chipboard ceiling on brandering (m.s) and set in systematic V-joints.	322	SM	900	289,800.00
I	Extra over for trap doors size 600 x 600mm complete.	3	NO	500	1,500.00
	<b><u>Sawn Cypress brandering</u></b>				
J	75 x 50mm brandering plugged	214	LM	219	46,866.00
K	50 x 50mm brandering.	1225	LM	180	220,500.00
	<b>TOTAL CARRIED TO COLLECTION</b>				<b>1,716,316.00</b>

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS
A	<u>Wrot Cypress</u> 12 x 100mm curved cornice plugged	242	LM	100	24,200.00
B	<u>Painting</u> <u>Prime only back of frame with aluminium or other equal and approved primer before fixing as described to;</u> Timber; surface not exceeding 100mm girth	242	LM	200	48,400.00
C	<u>Knot prime stop and prepare and apply one undercoat and two finishing coats gloss oil Crown paints to;</u> General surfaces of wood not exceeding 100mm girth	242	LM	180	43,560.00
D	<u>Paint and Decoration</u> <u>Prepared and apply one undercoat and three coats emulsion paint to;</u> Plastered walls internally	805	SM	200	161,000.00
E	Ditto externally	282	SM	200	56,400.00
F	<u>Prepared and apply three coats of washable distemper paints to;</u> Celotex lining internally	322	SM	200	64,400.00
	<b>TOTAL CARRIED TO COLLECTION</b>				<b>397,960.00</b>
	<b><u>COLLECTION</u></b> Brought forward from page ADM/15				<b>1,716,316.00</b>
	Brought down from page ADM/16 above				<b>397,960.00</b>
	<b>TOTAL FOR ELEMENT NO. 08 FINISHES CARRIED TO SUMMARY</b>				<b>2,114,276.00</b>

ITEM	DESCRIPTION	QTY	UNIT	RATESHS	
	<b><u>ELEMENT NO.09: JOINERY WORKS</u></b>				
	<b>1. Kitchen Concrete Worktop</b>				
	<b><u>Plain concrete (1:3:6)</u></b>				
A	Plinth, thickness 120mm	2	SM	13,000	26,000.00
B	<b><u>Form work</u></b>				
	Edges of plinths, 75-150mm	3	LM	400	1,200.00
C	25mm cement and sand (1:4) paving steel trowelled smooth.	2	SM	550	1,100.00
	<b><u>Wrought mahogany</u></b>				
D	Frame with one labour plugged, size	14	LM	750	10,500.00
E	75x50mm.	17	LM	500	8,500.00
F	<b>Frame with two labours, size 75x25mm</b>	31	LM	300	9,300.00
G	Bearer plugged size 50x25mm.				
	<b>Reinforced concrete class 20/20mm concrete top 100mm.</b>	2	CM	10,000	20,000.00
H	<b><u>Reinforcements.</u></b>				
	Layer of A142 mesh fabric reinforcement laid in slab or bed with 200mm side and end laps.	2	SM	550	1,100.00
I	<b><u>Sawn Formwork.</u></b>	2	SM	400	800.00
	To soffit of top.				
J	25mm Cement and sand (1:4) paving steel trowelled smooth.	2	SM	550	1,100.00
K	Form or leave 1No. Whole size 500x1000mm in concrete.	-	ITEM	5,000	5,000.00
L	<b><u>Granito Tops</u></b>				
M	Granito tile, 10mm thick.				
N	<b>Granito fascia 120x10mm thick.</b>	2	SM	15,500	31,000.00
	Supply and fix Stainless SBS steel sink 500x1000mm including fittings and pipework.	3	LM	2,000	6,000.00
O	<b><u>2. Secretary's' Workstation &amp; Shelving</u></b>	-	ITEM	15,000	15,000.00
	Allow for construction of 2No. Secretary's counters and store shelving comprising of MDF decorative mahogany veneer and 50x50mm wrot cypress framework of approved design.	-	ITEM	200,000	200,000.00
	<b>TOTAL FOR ELEMENT NO. 09: JOINERY WORKS CARRIED TO SUMMARY</b>				<b>336,600.00</b>

ITEM	DESCRIPTION	PAGE NO.	SHS.
	<b>SUMMARY OFFICE BLOCK ELEMENT</b>		
A	SUBSTRUCTURE	ADM/04	3,290,650.00
B	R.C FRAME	ADM/05	739,550.00
C	EXTERNAL WALLING	ADM /06	423,950.00
D	INTERNAL WALLING	ADM /07	467,400.00
E	ROOFING	ADM /09	1,180,500.00
F.	WINDOWS	ADM/11	952,500.00
G.	DOORS	ADM /14	677,320.00
H	FINISHES	ADM /16	2,114,276.00
I	JOINERY FITTINGS	ADM/17	336,600.00
	<b>TOTAL FOR BUILDER'S WORKS CARRIED TO GRAND SUMMARY</b>		<b>10,182,746.00</b>

**ELECTRICAL WORKS****ELECTRICAL INSTALLATION WORKS AT THE PROPOSED CDF OFFICE BLOCK AT BANISA CONSTITUENCY**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>LIGHTING</b>				
1:01	<u>Supply and Install lighting points wired in 3 x 1.5 mm<sup>2</sup> core cables in 20 mm diameter p.v.c heavy gauge conduit including all the necessary p.v.c accessories excluding fittings:</u> <ul style="list-style-type: none"> <li>• In one gang two way</li> <li>• In One gang two way</li> <li>• In two gang two way switches</li> <li>• In three gang two way switches</li> </ul>	6 9 3 4	No No No No	250 350 450 650	1,500.00 3,150.00 1,350.00 2,600.00
2:02	<u>Supply and install power points wired in 2.5 mm<sup>2</sup> single core cables drawn in 20 mm<sup>2</sup> p.v.c heavy gauge conduits excluding the socket out-lets :</u> <ul style="list-style-type: none"> <li>• For twin socket out-let</li> </ul>	18	No	750	13,500.00
2:03	Supply and install ceiling fans switching points wired in 1.5mm <sup>2</sup> single core cables drawn in 20mm <sup>2</sup> p.v.c cables excluding fans	9	No	1,850	16,650.00
2:05	<u>Supply and install the following switches(fittings)</u> <ul style="list-style-type: none"> <li>• One gang two way switches.</li> <li>• One gang two way switches</li> <li>• Two gang two way switches</li> <li>• Three gang two way switches</li> </ul>	6 9 3 4	No No No No	150 250 350 450	900.00 2,250.00 1,050.00 3,800.00
2:06	<u>Supply and install the following lighting points:</u> <ul style="list-style-type: none"> <li>• 1200 mm fluorescent fittings as single complete with daylight tube as Philips in suspension chain</li> <li>• Bulk-head fittings complete with energy saving bulbs.</li> <li>• 20 Amps Photocell as Zidion</li> </ul>	21 5 1	No No No	1,500 1,500 4,500	31,500.00 7,500.00 4,500.00
2:07	<u>Supply and install 13 Amps twin socket out-lets.</u> <ul style="list-style-type: none"> <li>• Twin socket out-lets as ivory</li> <li>• 20 amps pendants.</li> <li>• Spherical fittings (Toilets)</li> </ul>	18 2 -	No No -	500 250 -	9,000.00 500.00 -
	<b>SUB-TOTAL CARRIED TO COLLECTION</b>				<b>99,750.00</b>

EW/01

**ELECTRICAL WORKS****ELECTRICAL INSTALLATION WORKS AT THE PROPOSED CDF OFFICE BLOCK AT BANISA CONSTITUENCY.**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
3:01	<p><b><u>POWER SUPPLY</u></b></p> <p><b>Supply and install the following:</b></p> <ul style="list-style-type: none"> <li>Supply and install Nine-ways consumer units as Havels , complete with its integral switch.</li> <li>Supply and install 9 amps mcbs for the consumer units above.               <ol style="list-style-type: none"> <li>6 amps m.c.b as Havels</li> <li>32 amps m.c.b as Havels.</li> </ol> </li> <li>Supply and install 100 Amps double –pole switch complete with insulated cover as Havels to be installed in the Metre board.</li> </ul> <p><b><u>Supply and install Air-Conditioners &amp; Ceiling fans</u></b></p> <p><b><u>Nb</u></b></p> <p><b><u>In the Managers Office,Chairmans Office and Boardroom (Air Conditioners)</u></b></p> <ul style="list-style-type: none"> <li>12Btu Supply and install Air-Conditioners</li> <li>18Btu Supply and install Air-Conditioners</li> <li>Supply and instal ceiling fans as Panasonic.</li> </ul>	1	No	3,500	3,500.00
		3	No	1,500	4,500.00
		5	No	1,450	7,250.00
		4	No	1,450	5,800.00
		1	No	3,500	3,500.00
		4	No	130,000	520,000.00
		1	No	160,000	160,000.00
		9	No	8,000	72,000.00
3:02	<p><b><u>Sub-mains cables running from the metallic single tariff meter board to the individual consumer unit.</u></b></p> <ul style="list-style-type: none"> <li>6.0 mm<sup>2</sup> single core cables as (E/A) Red</li> <li>6.0 mm<sup>2</sup> single core cables as (E/A) Black</li> <li>6.0 mm<sup>2</sup> single core cables as(E/A) Green</li> </ul> <p><b><u>Sub-mains cables and associated p.v.c accessories for the Air-conditioners</u></b></p> <ul style="list-style-type: none"> <li>4.0 mm<sup>2</sup> cables as East African(Red)</li> <li>4.0 mm<sup>2</sup> cables as East African(Black)</li> <li>4.0 mm<sup>2</sup> cables as East African(Green)</li> </ul>	6	LM	500	3,000.00
		6	LM	500	3,000.00
		6	LM	500	3,000.00
		1	Roll	9,500	9,500.00
		1	Roll	9,500	9,500.00
		1	Roll	9,500	9,500.00
3:03	<p><b><u>METAL BOARD SINGLE-TARIFF</u></b></p> <ul style="list-style-type: none"> <li>Supply and install single tariff meter board of heavy gauge metal with a glass inspection window and a fabricated bored hole for connecting the bonding nut.</li> </ul>	1	No	4,500	4,500.00
	<b>SUB-TOTAL CARRIED TO COLLECTION</b>				<b>818,550.00</b>

**ELECTRICAL WORKS****ELECTRICAL INSTALLATION WORKS AT THE PROPOSED CDF OFFICE BLOCK AT BANISA CONSTITUENCY**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
3:05	<b><u>EARTHING(EARTH-LEAD AND ASSOCIATED ACCESSORIES)</u></b> <ul style="list-style-type: none"><li>• 300 mm x 300 mm concrete earthing chamber with removable concrete cover.</li><li>• Earth –rod (original copper) 1500 mm complete with earthing clamp.</li><li>• 6.0 mm<sup>2</sup> Earth lead cable green yellow concealed in 20 mm<sup>2</sup> p.v.c conduits from the earthing clamp to the bonding bolt-nut in the meter board.</li></ul>				
			Item	10,000	10,000.00
		1	No	3,000	3,000.00
		6	LM	300	1,800.00
	<b><u>Total Carried To This Pageew/03</u></b>				14,800.00
	<b>Brought Forward From Page Ew/01</b>				99,750.00
	<b>Brought Forward From Page Ew/02</b>				818,550.00
	<b>Brought From Above</b>				14,800.00
	<b>Sub-Total Carried Down To Collection</b>				933,100.00

**PROPOSED UNDERGROUND MASONRY WATER TANK AT  
BANISA CONSTITUENCY CDF OFFICE BLOCK**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE</b>	<b>KSHS</b>
	<b>ELEMENT NO. 1 SUBSTRUCTURES (ALL PROVISIONAL)</b>				
	<b>1No. Water Tank Ø 5m depth 2.5m</b>				
A	Clear site of all grass and small trees not exceeding 600mm girth and cart away or burn arising.	76	SM	100	7,600.00
B	Excavate pit not exceeding 1.5m deep.	68	CM	250	17,000.00
C	Ditto starting from 1.5m deep.	36	CM	200	7,200.00
D	Excavate over all kinds of excavation for excavating in rock irrespective of class.	36	CM	300	10,800.00
E	Allow for keeping excavations free from all water by pumping or otherwise.	-	ITEM	1,000	1,000.00
F	Ditto for planking and strutting to sides of excavations.	-	ITEM	1,000	1,000.00
	<b><u>Disposal</u></b>				
G	Return fill and ram selected excavated material around foundations.	53	CM	350	18,550.00
H	Load, wheel and cart away from site surplus excavated material and deposit in approved dumping area.	51	CM	350	17,850.00
	<b><u>Imported filling</u></b>				
I	300mm thick (average) approved broken quarry stone hardcore filling in two equal layers well compacted.	25	SM	550	13,750.00
J	50mm thick stone dust blinding to surfaces of hardcore.	25	SM	650	16,250.00
K	50mm plain concrete(1:4:8 class 15/20mm)blinding to foundation base	25	SM	1050	26,250.00
	<b><u>Vibrated reinforced concrete class 25 in</u></b>				
L	300mm raft foundation slab	25	SM	950	23,750.00
M	200 x 400mm columns	4	CM	10,000	40,000.00
N	150mm thick suspended slab	25	SM	10,000	250,000.00
O	250mm thick closing lid	1	SM	1,000	1,000.00
	<b><u>Walling</u></b>				
P	200mm impervious natural stone walling with hoop iron and water proof cement mortar.	54	SM	850	45,900.00
	<b>Total to collection page WT/3</b>				<b>497,900.00</b>

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<b><u>ELEMENT NO.1 CONT'D</u></b>				
	<b><u>Reinforcement (All Provisional)</u></b>				
	<u>High tensile square twisted bars BS 4461 as described in:</u>				
A	8mm diameter bars	175	KG	200	35,000.00
B	10mm ditto	1053	KG	200	210,600.00
C	12mm ditto	131	KG	200	26,200.00
	<b>Steel mesh fabric reinforcement to BS 4483</b>				
D	Steel fabric mesh reinforcement type A142 weighing 2.2kg/M <sup>2</sup> and to BS4483 and with 150mm wide side laps (measured net no allowance for laps).	25	SM	350	8,750.00
	<b>Damp proof membrane</b>				
E	1000 gauge polythene sheeting laid under concrete floor bed.	25	SM	350	8,750.00
F	50mm thick mastic asphalt waterproofing or equivalent to structural engineer's specifications.	38	SM	550	20,900.00
	<b><u>Anti-termite treatment</u></b>				
G	'Dragnet' or other equal and approved anti termite insecticide treatment to blinded hardcore surfaces applied in accordance with manufacturer's instructions.	25	SM	350	8,750.00
	<b><u>Sawn formwork to:</u></b>				
H	Edges of ground floor bed exceeding 150mm but not exceeding 300mm girth.	17	LM	350	5,950.00
I	Sides of concrete columns	24	SM	450	10,800.00
J	Soffits of suspended slab	25	SM	650	16,250.00
K	Edges of suspended slab exceeding 75mm but not exceeding 150mm girth	17	LM	550	9,350.00
L	Soffits of lid	1	SM	1,000	1,000.00
M	Vertical sides of closing lid	3	LM	1,000	3,000.00
	<b>Carried to collection page WT/3</b>				<b>365,300.00</b>

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
<b><u>ELEMENT NO.1 CONT'D</u></b>					
<b><u>Floor Finishes</u></b>					
A	32mm thick cement and sand (1:4) bedding screed steel floated.	25	SM	650	16,250.00
<b><u>Wall Finishes</u></b>					
B	Plaster				
C	12mm thick cement and sand plaster 1:4 steel trowel-led.	54	SM	550	29,700.00
<b><u>Ceiling Finishes</u></b>					
D	12mm thick cement and sand (1:4) plaster steel trowel-led to soffits of suspended slab.	25	SM	400	10,000.00
E	32mm thick cement and sand (1:4) screed to top of suspended slab.	25	SM	400	10,000.00
<b>Total to collection</b>					<b>65,950.00</b>
<b><u>COLLECTION</u></b>					<b>497,900.00</b>
Total from page WT/1					<b>365,300.00</b>
Total from page WT/2					
Total from page WT/3					<b>65,950.00</b>
F	Allow Kshs 50,000.00 for general pipe work				<b>50,000.00</b>
G	Allow Kshs 85,000.00 for contingencies (Class A rock or water or disposal of soil)				<b>85,000.00</b>
<b>TOTAL FOR UNDERGROUND WATER TANK CARRIED TO GRAND SUMMARY</b>					<b>1,064,150.00</b>
<b>WT/3</b>					

ITEM	DESCRIPTION	KSHS
<b><u>PRIME COST AND PROVISIONAL SUMS</u></b>		
A.	Allow A Provisional Sum Of Kenya Shillings Four Hundred Thousands (Kshs.400, 000.00) For Contingencies.	400,000.00
B.	Allow a Provisional sum of Kenya Shillings One Hundred Fifty Thousand (Kshs.150, 000.00) for Project Documentation and supervision.	150,000.00
C.	Allow a Provisional sum of Kenya Shillings One Hundred Thousand (Kshs.100, 000.00) for connection to KPLC.	100,000.00
E.	Allow a Provisional sum of Kenya Shillings One Hundred Thousand (Kshs.100, 000.00) for Landscaping works.	100,000.00
<b>TOTAL FO PC &amp;PS CARRIED TO GRAND SUMMARY</b>		<b>750,000.00</b>

PC&PS/01

**BILLS OF QUANTITIES FOR THE PROPOSED CONSTRUCTION OF  
BANISA CONSTITUENCY CDF OFFICE BLOCK AT BANISA  
CONSTITUENCY  
GRAND SUMMARY**

ITEM	DESCRIPTION	For official use only		For contractor use only	
		Kshs	Cts	Kshs	Cts
	<b><u>GRAND SUMMARY</u></b>				
A	Particular & General Preliminaries.	-			
B.	Office Block	10,182,746	00		
C.	Electrical works.	933,100.00	00		
D.	Underground Water Tank	1,064,150	00		
E.	PC & Provisional sums.	750,000	00	750,000	00
	<b>SUB-TOTAL</b>	<b>12,929,996</b>	<b>00</b>		
	ADD 16% VAT	2,068,799	36		
	<b>TOTAL ESTIMATED COST</b>	<b>14,998,795</b>	<b>36</b>		

Amount in words: Kenya Shillings... **Fourteen Million Nine Hundred Ninety Eight Thousand Seven Hundred Ninety Five And Thirty Six Cents.**

Contractor /Tenderers and Stamp: .....

VAT Registration No: .....

Pin No: .....

Address: .....

Signature: ..... Date: .....

Witness: .....

Address: .....

Signature: ..... Date: .....



