National Government Constituency Development Fund
Mandera North Constituency
P.O. Box 255 – 70300,
Mandera, Kenya
Tel: 0722471247

NG-CDF MANDERA NORTH Email: cdfmanderanorth@ngcdf.go.ke / amustafa@ngcdf.go.ke Website:www.ngcdf.go.ke

Our Ref: NG-CDF/MANDERANORTH/002/2020/21 30th OCT 2020

The Chief Executive Officer

National Government Constituencies' Developments Fund Board

P.O BOX 46682-00100

Nairobi

RE: CONSTRUCTION OF MANDERA NORTH NG-CDF OFFICE BLOCK

Kindly find attached Estimated Bill of Quantity for Construction NG-CDF office block as provided by the Public Works.

Your kind consideration will be accepted.

Yours faithfully,

Adan Salah Mustafa.
Fund Account Manager (FAM)
Mandera North

REPUBLIC OF KENYA

MINISTRY OF ROADS, TRANSPORT & PUBLIC WORKS
PUBLIC WORKS DEPARTMENT

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

County Works Office,
P.O BOX 49-70300,
MANDERA.

REF: MDR/NGCDF/NORTH/2020(20)

26th October, 2020

The Fund Manager,
NG-CDF-Mandera north Constituency,
P. O. Box 255-70300,
MANDERA.

RE: PROPOSED CONSTRUCTION OF MANDERA NORTH NG-CDF OFFICE BLOCK.

ESTIMATE BILLS OF QUANTITIES.

This is in reference to your request on the above project and subject matter.

Forwarded herewith, please find Estimate Bills of Quantities for the proposed works amounting to **Twenty Million, Three Hundred and Nineteen Thousand (Kshs. 20,319,000.00) only.**

Please liaise with this office after the project is approved for the preparation of tender documents and further technical advice.

SUB- COUNTY WORKS OFFICER
MANDERA NORTH
26 OCT 2020
P. O. Box 49 - 70300,
MANDERA

C. Mathugu (SCWO),
For:- CD-Public Works Department,
MANDERA COUNTY.

Encls.

REPUBLIC OF KENYA

MINISTRY OF ROADS, TRANSPORT & PUBLIC WORKS
DEPARTMENT OF PUBLIC WORKS

PROPOSED
CONSTRUCTION OF NG-CDF OFFICE BLOCK

AT

RHAMU NG-CDF OFFICE
MANDERA NORTH CONSTITUENCY

BILLS OF QUANTITIES

Prepared: -

Sub-County Works Officer,
Department of Public Works
P.O. Box 49,
MANDERA

Issued: -

Fund Account Manager,
NG-CDF Mandera North Constituency,
P.O. Box 255-70300,
MANDERA

SUB-COUNTY WORKS OFFICER
MANDERA NORTH
26 OCT 2020
P.O. BOX 49-70300,
MANDERA

OCT, 2020

BILL NO. 02: BILLS OF QUANTITIES FOR THE PROPOSED CONSTRUCTION OF NG-CDF OFFICE BLOCK AT RHAMU TOWN IN MANDERA NORTH CONSTITUENCY

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	MAIN OFFICE BLOCK				
	ELEMENT NO. 1: SUBSTRUCTURES				
	ALL PROVISIONAL				
	NOTE:				
	All work measured under this element is up to and including the floor slabs but excluding the finishes thereon: -				
A	**SITE CLEARANCE:** Clear the site of all bushes, shrubs, undergrowth and small trees grab uproot and cart away burn all arising.	650	SM	30	19,500
B	Excavate over site average 250mm deep to remove vegetable soil load up wheel and deposit on site not exceeding 50m	60	CM	150	9,000
C	Excavate for strip foundation trenches not exceeding 1.5m deep commencing from reduced level.	269	CM	300	80,700
D	Ditto for column bases	37	CM	300	11,100
E	Allow for keeping excavations free from mud and all water including spring and running water by pumping, pailing or other approved means.	-	ITEM	5,000	5,000
F	Allow for planking and strutting to sides of excavations.	-	ITEM	5,000	5,000
	TOTAL CARRIED TO COLLECTION				**130,300**

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	DISPOSAL				
A	Load surplus excavated material wheel and deposit onsite not exceeding 50m away.	162	CM	300	48,600
	FILLING:				
B	Return, fill and ram selected excavated material around foundations.	204	CM	300	61,200
	HARDCORE AS DESCRIBED:				
C	Approved hardcore filling including leveling, consolidating and or hand packing in layers 150mm thick.	101	CM	1500	151,500
	BLINDING:				
D	50mm thick layer murram or other equal and approved blinding to the surface of hardcore; roled smooth to receive polythene sheetings (m.s.)	403	SM	150	60,450
	INSECTICIDE TREATMENT				
E	'Termidor' or other equal and approved chemical insecticide treatment prepared and applied according to the manufacturer's printed instructions.	403	SM	350	141,050
	REMOVE OF TERMITES NESTS				
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	10000	10,000
	TOTAL CARRIED TO COLLECTION				**472,800**

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	DAMP PROOF MEMBRANE				
A	500 gauge polythene or other equal and approved plastic sheets damp proof membrane laid over blinding (measured net – allow for laps)	428	SM	150	64,200
	IN-SITU CONCRETE WORK MASS CONCRETE (1:4:8/38-38mm AGGREGATE)				
B	50mm thick blinding under foundations	180	SM	600	108,000
	VIBRATED REINFORCED CONCRETE (1:2:4/20-20MM) AGGREGATE AS DESCRIBED IN:-				
C	Strip foundations	27	CM	14000	378,000
D	Columns and bases	12	CM	14000	168,000
E	150mm thick floor slab (1:3:6)	428	SM	1950	834,600
	STEEL REINFORCEMENT SUPPLY AND FIX BAR/ROD REINFORCEMENT INCLUDING BENDING HOOKS TRYING WIRE CUTTING SPACER AND SUPPORTING ALL IN POSITION AS DESCRIBED.				
	HIGH TENSILE SQUARE TWISTED BARS TO B.S. 4461:-				
F	12mm diameter	660	KG	200	132,000
G	10mm diameter	629	KG	200	125,800
H	8mm diameter	392	KG	200	78,400
	TOTAL CARRIED TO COLLECTION				**1,889,000**

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
	MESH REINFORCEMENT				
A	Fabric mesh reinforcement to B.S. 4484 ref. A142 including laps trying wire and spacer blocks complete (measure net allow for lap)	428	SM	350	149,800
	SAWN FORMWORK AS DESCRIBED TO:				
B	Edges of floor slabs 75 - 150mm high	123	LM	150	18,450
	FOUNDATION WALLING				
C	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.	449	SM	1500	673,500
D	400mmx200mm attached pier	NIL	LM	00	00
	PLINTH AREA FINISHES				
E	20mm thick cement and sand (1:3) wood float render to plinth area.	56	SM	400	22,400
F	Prepare and apply three coats black bituminous paints to rendered areas.	56	SM	350	19,600
	PAVING SLABS/COURTYARD				
G	600mmx 600mmx50mm thick precast concrete paving slabs laid on compacted murram and pointed in cement and sand (1:3) mortar.	112	SM	800	89,600
	TOTAL CARRIED TO COLLECTION				**973,350**
	COLLECTION				
	Brought forward page ADM/01				130,300
	Brought forward page ADM/02				472,800
	Brought forward page ADM/03				1,889,000
	Brought down from page ADM/04 above				973,350
	TOTAL FOR ELEMENT NO. 01: SUBSTRUCTURES CARRIED TO SUMMARY				**3,465,450**

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	ELEMENT NO. 02 **R.C. FRAME(SUPERSTRUCTURES**				
	Vibrated reinforced concrete (1:2:4/20-25 – 20mm aggregates) as described in:-				
A	R.C Columns (3600mm high)	10	CM	14000	140,000
B	Ring Beams(2No. levels)	19	CM	14000	266,000
	Steel reinforcement **Supply and Fix steel bar/rod reinforcement including bending hooks trying wire cutting spacer blocks and supporting all in position.**				
	High Tensile square twisted bars to B.S. 4461 as described in:-				
C	12mm diameter	1634	KG	200	326,800
D	8mm diameter	510	KG	200	102,000
	Sawn Form Works as described to:-				
E	Side and soffits to ring beams	258	SM	900	232,200
F	Sides of columns	147	SM	900	132,300
G	Circular columns (16G sheet metal)	12	SM	1000	12.000
	TOTAL FOR ELEMENT NO. 02: **REINFORCED CONCRETE FRAME CARRIED TO SUMMARY.**				**1,211,300**

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	ELEMENT NO. 03				
	EXTERNAL WALLING **FINE CHISEL DRESSED NATURAL STONE WALLING BEDDED AND JOINED IN CEMENT AND SAND (1:3) MORTAR AS DESCRIBED: -**				
A	150mm thick reinforcement with and including 25mm wide x 3mm thick galvanized hoop iron in every alternate course.	412	SM	1200	494,400
B	Ditto but 150mm thick concrete or other equal and approved louvre block walling.	NIL	SM	00	00
C	400mmx200mm attached pier.	NIL	LM	00	00
	HORIZONTAL DAMP PROOF COURSE; ONE LAYER OF 3PLY BITUMINOUS FELT OR OTHER EQUAL AND APPROVED (MEASURED NETT-ALLOW FOR LAPS)				
D	150mm wide leveled and bedded in cement and sand (1:3) mortar under walls.	123	LM	180	22,140
	SUNDRIES				
E	Labour and material for 150mm wide x 230mm (average) high eaves filling to top of 200mm wall.	29	SM	400	11,600
F	Fair raking cutting on top of 150mm wall.	6	LM	300	1,800
G	Pair of 250mm x 250mm x30mm thick precast permanent vent fitted with mosquito gauze	40	NO.	300	12,000
	TOTAL FOR ELEMENT NO. 3 EXTERNAL WALLING CARRIED TO SUMMARY				**541,940**

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	ELEMENT NO. 4				
	INTERNAL WALLING				
	FINE CHISEL DRESSED NATURAL STONE WALLING BEDDED AND JOINED IN CEMENT AND SAND (1:3) MORTAR AS DESCRIBED IN:-				
A	150mm thick walling reinforcement with and including hoop iron in every alternate course.	320	SM	1200	384,000
	HORIZONTAL DAMP PROOF; ONE LAYER OF 3 PLY BITUMINOUS FELT OR OTHER EQUAL AND APPROVED (MEASURED NETT- ALLOW FOR LAPS)				
B	150mm wide leveled and bedded in cement and sand (1:3) mortar under walls.	78	LM	180	14,040
	TOTAL FOR ELEMENT NO. 04 INTERNAL WALLING CARRIED TO SUMMARY				**398,040**

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	ELEMENT NO. 05				
	ROOFING				
	All Timber To Be Sawn Cypress Seasoned To An Equilibrium Moisture Content Of Between 9% And 15% And Treated With Approved Wood Preservative:				
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)	123	LM	350	43,050
	The Following In Nailed Timber Trusses Including Hoisting And Placing 3000mm Above Floor Slab Level:-				
B	100x 50mm rafters.	380	LM	340	129,200
C	100x 50mm tie beams	219	LM	340	74460
D	100x 50mm strut/ties.	470	LM	340	59,800
	INDEPENDENT MEMBERS				
E	75 x 50mm purlins	442	LM	250	10,500
	ROOF COVERING				
F	Pre-painted Gauge 28, IT4 BP760 Box Profiled sheets 762mm effective cover fixed on timber purlins (m.s)	645	SM	1600	1,032,000
G	**Gauge 22 valley gutter 600mm girth.**	35	LM	1200	42,000
H	Gauge 28 ridge cap or hip cover to match covering.	57	LM	4800	27,360
	RAIN WATER GOODS				
I	Pre-painted 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.	142	LM	1350	191,700
J	**Extra over gutter for blocked ends with 100mm**	2	NO	600	1,200
K	Dittofor 100mm diameter outlet.	24	NO	300	7,200
L	**Ditto for 90^0 degrees bends.**	16	NO	600	9,600
M	100mm dia rainwater down pipe fixed with and including mild steel brackets at 900mm centres plugged and screwed to wall.	72	LM	800	57,600
N	**Extra over for swan neck bend**	24	NO	1,000	24,000
O	Ditto horse shoe bend	24	NO	1,000	24,000
	TOTAL CARRIED TO COLLECTION				**1,933,670**

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	WROT CYPRESS				
A	25 x 250mm fascia board fixed to end of rafters (m.s)	142	LM	500	71,000
B	25 x 255mm barge board fixed to the end of purlins.	6	LM	500	3,000
	SUNDRIES				
C	12mm diameter x 250mm long black mild steel anchor bolt embedded in ring beam at 1200mm centers including drilling holes in timber.	100	NO	250	25,000
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.	62	NO	250	15,500
	PAINTING				
	PRIME ONLY BACK OF WOOD BEFORE FIXING:-				
E.	Timber Surfaces 100 – 200mm girth.	123	LM	40	4,920
F	Ditto 200-300mm girth	148	LM	60	8,880
	KNOT PRIME STOP AND PREPARE AND APPLY ONE UNDER COAT AND TWO FINISHING COATS OF GLOSS OIL PAINT (abd) To:				
G	Timber Surfaces 100 – 200mm girth.	123	LM	100	12,300
H	Ditto 200-300mm girth	148	LM	150	22,200
	TOTAL CARRIED TO COLLECTION				**162,800**
	COLLECTION				
	Brought forward from page ADM/08				1,933,670
	Brought forward from page ADM/09 above				162,800
	TOTAL FOR ELEMENT NO.05 ROOFING CARRIED TO SUMMARY				**2,096,470**

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	ELEMENT NO. 06 **ALUMUNIUM WINDOWS**				
A	200mm x 100mm x 75mm average throated concrete windows sill finished smooth in red oxide plaster to surfaces.	66	LM	500	33,000
	Aluminum windows **Heavy duty powder coated including frames, iron monger and 8mm thick clear sheet glass:-**				
B	450 x 1500mm	2	NO	10300	20,600
C	1500 x 1500mm	27	NO	34650	935,550
D	2000 x 1500mm	4	NO	46200	184,800
E	3000 x 1500mm	2	NO	69300	138,600
	Burglar proofing **25mm SHS tube sections burglar proofing according to approved design size:**				
F	750x1800mm	2	NO	6750	13,500
G	1800 x 1800mm	27	NO	16200	437,400
H	2300x1800mm	4	NO	19800	79,200
I	3300 x 1800mm	2	NO	29700	59,400
	Painting				
J	Prepare surface and apply three coats crown paint to general surfaces of metal.	117	SM	400	46,800
	Curtains **38mm Standard imported decorative bronze curtain rods complete with approved curtain cloth and net:-**				
K	750x1800mm	2	NO	3000	6,000
L	1800 x 1800mm	27	NO	7200	194,400
M	2300x1800mm	4	NO	8800	35,200
N	3300 x 1800mm	2	NO	13200	26,400
	TOTAL FOR ELEMENT NO. 06 WINDOWS CARRIED TO SUMMARY				**2,210,850**

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS
	ELEMENT NO. 07 **DOORS**				
	FRAMES AND FINISHING **Hardwood timber door frames**				
A	150 x 50mm f frame once rebated	105	LM	1650	173,250
B	50 x 25mm Architrave	90	LM	200	18,000
C	25x 25mm finished Quadrant	90	LM	150	13,500
	Flush Timber Doors **45mm thick semi –solid core paneled decorative flush door**				
D	Door size 900mm x 2400mm with Mahogany veneer both sides	4	NO	15,000	60,000
	Hardwood timber doors				
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.	8	NO	42,000	336,000
F	Ditto 900 x 2400mm	1	NO	25,000	25,000
	5mm thick glazing above doors.				
G	5mm thick clear sheet glass	6	SM	1,300	7,800
H	50 x 20mm hardwood glazing bead.	42	LM	150	6,300
	TOTAL CARRIED TO COLLECTION				**639,850--**

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS
	ALUMINIUM DOORS				
	Heavy duty powder coated including frames, iron monger and 8mm thick clear sheet glass:-				
A	900 x 2400mm	4	NO	26000	104,000
B	1200 x 2400mm	3	NO	35000	105,000
	Iron Mongery				
	Supply and fix the following iron mongery with matching screw to wood and / or(where applicable) metal:-				
C	Three lever rebated mortise lock complete with approved lever handle furniture	9	NO	4500	40,500
D	Two lever mortise lock complete with approved level handle furniture	4	NO	4000	16,000
E	100mm brass butt hinges	$19^{1/2}$	PRS	300	5,850
	Door stoppers				
F	40mm diameter rubber door stopper fixed to wall or floor with approved raw bolt.	31	NO	100	3,100
	Door closers				
G	Supply and fix on door closer hold open power with cover	31	NO	5000	155,000
	Steel grills				
	Burglar proofing				
	25mm SHS tube sections burglar proofing according to approved design size:-				
H	1500 x 2400mm	15	SM	5000	75,000
	TOTAL CARRIED TO COLLECTION				**504,450**

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS
	PAINTING				
	Prime only back of frame with aluminium or other equal and approved primer before fixing as described to:-				
A	Frames; surfaces not exceeding 100mm girth	180	LM	20	3,600
B	Ditto 200mm to 300mm girth	105	LM	60	6,300
	Prepare, knot, prime, stop and apply 2-pack polyurethane H/B first grade varnish.				
C	General surfaces of wood	70	SM	600	42,000
D	Ditto 200-300mm girth	105	LM	250	26,250
E	Ditto not exceeding 100mm girth	180	LM	100	18,000
F	Prepare surface and apply three coats crown paint to general surfaces of metal grills.	12	SM	400	4,800
	TOTAL CARRIED TO COLLECTION				**100,950**
	COLLECTION				
	Brought forward from page ADM/11				630,850
	Brought forward from page ADM /12				504,450
	Brought forward from page ADM/13 above				100,950
	TOTAL ELEMENT NO. 07 DOORS CARRIED TO SUMMARY				**1,245,250**

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS
	ELEMENT NO. 08				
	FINISHES				
	Floor Finishes				
	Cement and sand (1:4) screed as described				
A	32mm thick finished to receive tiles	428	SM	400	171,200
B	Ditto 20 x 100mm high skirting	134	LM	150	20,100
	Ceramic non-slip tiles				
C	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	428	SM	1800	770400
D	100mm high skirting	134	LM	250	33,500
	Wall finishes				
	Two coats gauged cement lime and sand (1:2:9) plaster steel troweled smooth: -				
E	20mm (minimum) thick to natural stone walls internally	565	SM	400	226,000
F	Ditto walls externally	345	SM	400	138,000
	Kitchen				
G	40mmcement and sand(1;4) backing to receive wall tiles	24	SM	400	9,600
H	200 x 250mm coloured ceramic wall tiles	24	SM	1800	43,200
	Ceiling finishes				
I	12mm thick chipboard ceiling on brandering (m.s) and set in systematic V-joints.	428	SM	800	342,400
	Extra over for trap doors size 600 x 600mm complete.	3	NO	2500	7,500
	TOTAL CARRIED TO COLLECTION				**1,761,900**

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS
	Sawn Cypress brandering				
A	75 x 50mm brandering plugged on walling	376	LM	250	94,000
B	50 x 50mm brandering.	1175	LM	200	235,000
	Wrot Cypress				
C	12 x 100mm curved cornice plugged	376	LM	200	75,200
	Painting				
	Prime only back of frame with aluminium or other equal and approved primer before fixing as described to;-				
D	Timber; surface not exceeding 100mm girth	376	LM	20	7,520
	Knot prime stop and prepare and apply one undercoat and two finishing coats gloss oil Crown paints to;				
E	General surfaces of wood not exceeding 100mm girth	376	LM	100	37,600
	Paint and Decoration				
	Prepared and apply one undercoat and three coats emulsion paint to-;				
F	Plastered walls internally	565	SM	350	197,750
G	Ditto externally	345	SM	350	120,750
	Prepared and apply three coats of washable distemper paints to;-				
H	Chipboard lining internally	428	SM	350	149,800
	TOTAL CARRIED TO COLLECTION				**917,620**
	COLLECTION				
	Brought forward from page ADM/14				1,761,900
	Brought down from page ADM/15 above				917,620
	TOTAL FOR ELEMENT NO. 08 FINISHES CARRIED TO SUMMARY				**2,679,520**

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS
	ELEMENT NO.09: **JOINERY WORKS**				
	KITCHEN CONCRETE WORKTOP				
	Plain concrete (1:3:6)				
A	Plinth, thickness 120mm	2	SM	1200	2,400.00
	Form work				
B	Edges of plinths, 75-150mm	3	LM	150	450.00
C	25mm cement and sand (1:4) paving steel trowelled smooth.	2	SM	400	800.00
	Wrought mahogany				
D	Frame with one labour plugged 75x50mm.	14	LM	500	
E	**Frame with two labours, size 75x25mm**	17	LM	250	7,000.00
F	Bearer plugged size 50x25mm.	31	LM	170	4,250.00
G	**Reinforced concrete class 20/20mm concrete top 100mm.**	2	SM	1400	5,270.00 2,800.00
	Reinforcements.				
H	Layer of A142 mesh fabric reinforcement laid in slab or bed with 200mm side and end laps.	2	SM	350	700.00
	Sawn Formwork.				
I	To soffit of top.	2	SM	900	1,800.00
J	25mm Cement and sand (1:4) paving steel trowelled smooth.	2	SM	400	800.00
K	Form or leave 1No. hole size 500 x 450mm in concrete.	-	ITEM	500	500.00
	TOTAL CARRIED TO COLLECTION				**26,770.00**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Granito Tops				
A.	Granito tile, 10mm thick.	2	SM	2,000	4,000.00
B.	Granito fascia 120x10mm thick.	3	LM	250	750.00
C	Supply and fix Stainless SBSD steel sink 500x1000mm including fittings and pipe work.	1	NO	7,500	7,500
	SECRETARY'S' WORKSTATION & SHELVING				
D	Allow for construction of 2No. Secretary's counters and store shelving comprising of wrot 45 x 45mm cypress timber, MDF decorative mahogany veneer on both faces in top, shelves, divisions and doors as directed.	-	ITEM		150,000.00
	PLUMBING & DRAINAGE				
E	Allow a provisional sum for plumbing and drainage works from kitchen including supply of 2000 litres plastic water tank and connections from distribution line.	-	ITEM		30,000.00
	TOTAL CARRIED TO COLLECTION				**192,250**
	COLLECTION				
	TOTAL FROM PAGE ADM/16				26,770
	TOTAL FROM ADM/17 ABOVE				192,250
	TOTAL FOR ELEMENT NO. 09: JOINERY WORKS CARRIED TO SUMMARY				**219,020.00**

ITEM	DESCRIPTION	PAGE NO.	SHS.
	SUMMARY **NG-CDF OFFICE BLOCK** **ELEMENT**		
A	SUBSTRUCTURES	ADM/04	3,465,450
B	R. C . FRAME	ADM/05	1,211,300
C	EXTERNAL WALLING	ADM /06	541,940
D	INTERNAL WALLING	ADM /07	398,040
E	ROOFING	ADM /09	2,096,470
F.	WINDOWS	ADM/10	2,210,850
G.	DOORS	ADM /13	1,245,250
H	FINISHES	ADM /15	2,679,520
I	JOINERY FITTINGS	ADM/17	219,020
	TOTAL FOR BILL NO 02: OFFICE BLOCK CARRIED TO GRAND SUMMARY		**14,067,840.00**

BILL NO. 03: BILLS OF QUANTITIES FOR THE PROPOSED CONSTRUCTION OF MULTI-PURPOSE 4-DOOR ABLUTION BLOCK

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	1NO. MULTI-PURPOSE ABLUTION BLOCK				
	ELEMENT NO. 1 **SUBSTRUCTURES** **ALL PROVISIONAL**				
	NOTE: **All work measured under this element is upto and including the floor slabs but excluding the finishes thereon: -**				
	SITE CLEARANCE:				
A	Clear the site of all bushes, shrubs, undergrowth and small trees grab uproot and cart away burn all arising.	80	SM	30	2,400
B	Excavate over site average 250mm deep to remove vegetable soil load up wheel and deposit on site not exceeding 100m	10	CM	150	1,500
C	Excavate for strip foundation trenches not exceeding 1.5m deep commencing from reduced level.	34	CM	300	10,800
D	Allow for keeping excavations free from mud and all water including spring and running water by pumping pailing or other approved means.	-	ITEM	1000	1,000
E	Allow for planking and strutting to sides of excavations.	-	ITEM	1000	1,000
	TOTAL CARRIED TO COLLECTION				**16,100**

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	DISPOSAL				
A	Load surplus excavated material wheel and deposit onsite not exceeding 100m away.	21	CM	300	6,300
	FILLING:				
B	Return in and ram selected excavated material around foundations.	23	CM	300	6,900
	HARDCORE AS DESCRIBED:				
C	Approved hardcore filling including leveling, consolidating and or hand packing in layers 150mm thick.	15	CM	1500	22,500
	BLINDING:				
D	50mm thick layer murram or other equal and approved blinding to the surface of hardcore; roled smooth to receive polythene sheetings (m.s.)	48	SM	150	7,200
E	**INSECTICIDE TREATMENT** 'Termidor' or other equal and approved chemical insecticide treatment prepared and applied according to the manufacturer's printed instructions.	34	SM	350	11,900
F	**REMOVE OF TERMITES NESTS** 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	NIL	00
	TOTAL CARRIED TO COLLECTION				**54,800**

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	DAMP PROOF MEMBRANE				
A	500 gauge polythene or other equal and approved plastic sheets damp proof membrane laid over blinding (measured net – allow for laps)	34	SM	150	5,100
	IN-SITU CONCRETE WORK MASS CONCRETE (1:4:8/38-38mm AGGREGATE)				
B	50mm thick blinding under foundations	23	SM	600	13,800
	VIBRATED REINFORCED CONCRETE (1:2:4/20-20MM) AGGREGATE AS DESCRIBED IN:-				
C	Strip foundations	4	CM	14000	56,000
D	150mm thick floor slab (1:2:4)	34	SM	1950	66,300
E	100mm thick floor slab (1:3:6)	14	SM	1400	19,600
	STEEL REINFORCEMENT				
	SUPPLY AND FIX BAR/ROD REINFORCEMENT INCLUDING BENDING HOOKS TRYING WIRE CUTTING SPACER AND SUPPORTING ALL IN POSITION AS DESCRIBED.				
	HIGH TENSILE SQUARE TWISTED BARS TO B.S. 4461				
F	10mm diameter	80	KG	200	16,000
G	8mm diameter	37	KG	200	7,400
	TOTAL CARRIED TO COLLECTION				**184,200**

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	MESH REINFORCEMENT				
A	Fabric mesh reinforcement to B.S. 4484 ref. A1422 including laps trying wire and spacer blocks complete (measure nett allow for lap)	34	SM	350	11,900
	SAWN FORMWORK AS DESCRIBED TO:				
B	Edges of floor slabs 75 - 150mm high	22	LM	150	3,300
	FOUNDATION WALLING				
C	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.	57	SM	1500	85,500
	PLINTH AREA FINISHES				
D	20mm thick cement and sand (1:3) wood float render to plinth area.	10	SM	400	4,000
E	Prepare and apply three coats black bituminous paints to rendered area.	10	SM	350	3,500
	PAVING SLABS				
F	600mmx 600mmx50mm thick precast concrete paving slabs laid on compacted murram and pointed in cement and sand (1:3) mortar.	14	SM	800	11,200
	TOTAL CARRIED TO COLLECTION				**119,400**
	COLLECTION				
	Brought forward page AB/01				16,100
	Brought forward page AB/02				54,800
	Brought forward page AB/03				184,200
	Brought down from AB/04 above				119,400
	TOTAL FOR ELEMENT NO. 01 SUB-STRUCTURES CARRIED TO SUMMARY				**374,500**

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	ELEMENT NO. 02 **R.C. FRAME(SUPERSTRUCTURES)**				
	Vibrated reinforced concrete (1:2:4/20-25 – 20mm aggregates) as described in:-				
A	Ring Beams	1	CM	14000	14,000
	Steel reinforcement **Supply and Fix steel bar/rod reinforcement including bending hooks trying wire cutting spacer blocks and supporting all in position.**				
	High Tensile square twisted bars to B.S. 4461 as described in:-				
B	12mm diameter	85	KG	200	17,000
	Mild Steel rods to B.S. 4449 as described in:-				
C	8mm diameter	33	KG	200	4,600
	Sawn Form Works as described to:-				
D	Side and soffits to ring beams	15	SM	900	13,500
	TOTAL FOR REINFORCED CONCRETE FRAME CARRIED TO SUMMARY				**49,100**

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	ELEMENT NO. 03				
	EXTERNAL WALLING				
	FINE CHISEL DRESSED NATURAL STONE WALLING BEDDED AND JOINED IN CEMENT AND SAND (1:3) MORTAR AS DESCRIBED:-				
A	150mm thick reinforcement with and including hoop iron in every alternate.	50	SM	1200	60,000
	HORIZONTAL DAMP PROOF COURSE; ONE LAYER OF 3PLY BITUMINOUS FELT OR OTHER EQUAL AND APPROVED (MEASURED NETT-ALLOW FOR LAPS)				
B	150mm wide leveled and bedded in cement and sand (1:3) mortar under walls.	24	LM	180	4,320
	SUNDRIES				
C	Labour and material for 150mm wide x 230mm (average) high eaves filling to top of 150mm wall.	6	SM	400	2,400
D	Fair raking cutting on top of 150mm wall.	4	LM	300	1,200
E	Pair of 250mm x 250mm x30mm thick precast permanent vent fitted with mosquito gauze	6	NO.	300	1,800
	T0TAL FOR ELEMENT N EXTERNAL WALLING CARRIED TO SUMMARY				**69,720**

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	ELEMENT NO. 4 **INTERNAL WALLING** **FINE CHISEL DRESSED NATURAL STONE WALLING BEDDED AND JOINED IN CEMENT AND SAND (1:3) MORTAR AS DESCRIBED IN:-**				
A	200mm thick walling reinforcement with and including hoop iron in every alternate course.	18	SM	1200	21,600
	HORIZONTAL DAMP PROOF; ONE LAYER OF 3 PLY BITUMINOUS FELT OR OTHER EQUAL AND APPROVED (MEASURED NETT- ALLOW FOR LAPS)				
B	200mm wide leveled and bedded in cement and sand (1:3) mortar under walls.	8	LM	180	1,440
	TOTAL FOR ELEMENT NO. 04 INTERNAL WALLING CARRIED TO SUMMARY				**23,040**

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	ELEMENT NO. 05 **ROOFING** **ALL TIIMBER TO BE SAWN CYPRESS SEASONED TO AN EQUILLIBRIUM MOISTURE CONTENT OF BETWEEN 9% AND 15% AND TO THE REQUIREMENT OF K.S. 02771 OF 1991 TREATED WITH APPROVED WOOD PRESENTATIVE.**				
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)	32	LM	350	11,200
	THE FOLLOWING IN NAILED TIMBER TRUSSES INCLUDING HOISTING AND PLACING 3000MM ABOVE FLOOR SLAB LEVEL	54	LM	340	18,360
B	100x 50mm rafters.	36	LM	340	12,240
C	100x 50mm tie beams	39	LM	340	13,360
D	100x 50mm strut/ties.				
	INDEPENDENT MEMBERS				
E	75 x 50mm purlins	100	LM	250	25,000
	ROOF COVERING				
	ROOF COVERING				
F	Gauge 28/ IT4/BP760 Box Protiled sheets (762mm effective lover) fixed on timber purlins (m.s)	76	SM	1600	121,600
G	Gauge 28 ridge cap/Hip cap to match covering	26	LM	480	12,480
H	Ditto valley gutters	6	LM	1200	7,200
	GI PIPE STANCHIONS				
I	75mm diameter, 3.6m long GI stanchions well anchored onto concrete floor slab and roof trusses.	18	LM	1200	21,600
	TOTAL CARRIED TO COLLECTION				**242,940**

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	WROT CYPRESS				
A	25 x 250mm fascia board fixed to end of rafters and purlins (m.s)	32	LM	500	16,000
	SUNDRIES				
C	12mm diameter x 250mm long black mild steel anchor bolt embedded in ring beam at 1200mm centers including drilling holes in timber.	26	NO	250	6,500
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)	6	NO	250	1,500
	PAINTING PRIME ONLY BACK OF WOOD BEFORE FIXING:-				
	Surfaces 200 – 300mm girth.	64	LM	50	3,200
E	**KNOT PRIME STOP AND PREPARE AND APPLY ONE UNDER COAT AND TWO FINISHING COATS OF GLOSS OIL PAINT (abd) To:-**				
F	General surfaces of wood 200 – 300 mm girth.	64	LM	125	8,000
	GI pipe stanchions	18	LM	150	2,700
	TOTAL CARRIED TO COLLECTION BELOW				**37,900**
	COLLECTION				
	Brought forward from page AB/08				242,940
	Brought forward from AB/09above				37,900
	TOTAL FOR ELEMENT NO.05 ROOFING CARRIED TO SUMMARY				**280,840**