

**BOQ FOR THE SECURITY ENHANCEMENT AT BANKI HUMANITARIAN HUB**

**Note: This bill shall include every minute item of work that is deemed to be included in the measurement and description.**

**BILL No. One Construction of Bunker in the Hub Extension**

S. No.	Description	Quantity	Unit	Unit Cost (NGN)	Total Cost (NGN)	Total Cost (USD)
A	SUBSTRUCTURE					
<b>a</b>	<b><u>EXCAVATION AND EARTH WORK</u></b>					
i	TRENCH EXCAVATION					
	Excavate trench for foundation exceeding 0.30m in width max. depth n. e 1.0 meters starting at ground level.	36.54	Cu M		-	-
ii	FILLING TO EXCAVATION					
	Back filled selected excavated materials around the foundation average thickness n.e 0.25 arising from the excavation leveled & compaction.	24.01	Cu M		-	-
iii	SURFACE TREATMENT					
	Prepare and apply " dieldrex anti-termite treatment to faces and bottom of the excavation (Trench & fit).	145.00	Sqr M		-	-
iv	LEVELLING AND COMPACTION					
	Level and compact the bottom of the excavation to receive concrete.	40.60	Sqr M		-	-
	Well compacted laterite filling.	32.49	Cu M		-	-
	Hard core filling.	32.49	Cu M		-	-
<b>b</b>	<b><u>E IN-SITU CONCRETE/LARGE PRE-CAST CONCRETE</u></b>					
	Plain Insitu-concrete mix(1:10 all in aggregate in Bed(plain)					
i	50mm blinding material to bottom of the trench excavation.	2.03	Cu M		-	-
ii	Vibrated reinforced insitu concrete(1:2:4) :20mm aggregate filled into formwork and well packed around reinforcement. Formwork and reinforcement measure separately in columns, beams, floor slabs and lintels.	87.07	Cu M		-	-
iii	FORM WORK FOR IN SITU CONCRETE					
	plain sawn formwork to the vertical sides of: columns, beams and lintels	498.98	Sqr M		-	-
iv	REINFORCEMENT FOR IN SITU CONCRETE					
	plain high yield tensile reinforcement bars 12mm dia @200mm c/c to BS 4449 in; ground beams, columns, footing, and slab.	4,299.59	Kg		-	-
<b>c</b>	<b><u>RENDERING/PLASTERING</u></b>					
	Apply 25mm thick plaster to the surfaces of the reinforced concrete wall both internal and external.	518.30	Sqm		-	-
d	Prepare and apply two coat of cool white high quality emulsion paint from an approved manufacturer over screeded surfaces for interior spaces and facing bricks for the exterior.	518.30	Sqm		-	-
<b>e</b>	<b><u>FLOOR AND WALL TILING</u></b>					
i	supply and lay vitrified ceramics wall tiles in the toilets from the floor to ceiling level.	47.04	Sqr M		-	-
ii	Supply and lay 400mm x 400mm vitrified ceramic floor tiles.	128.96	Sqr M		-	-
f	75mm diameter galvanized steel vent pipe	13.00	m		-	-
g	electrical concertina barbed wire	32.00	m		-	-
h	Supply and install 8 PV 200W Monocrystalline Solar Panel 300W , Max Power Voltage 12V, Open Circuit Voltage, Victron Energy Charge Controller - MPPT 150V & 100amps, Victron Energy 15 kva 24v Blue Gate   Sinergy Inverter including Luminous Set of 8 of 200Ah Batteries complete with cable connectors and a battery rack also with with complete installation kits.	1.00	Nr		-	-
i	Xpelair Extractor Ventilating Fan - 4X4 Inches for a "4" by 4" Inches hole on a Wall Voltage- 220-240V, -Ip Rating IPX4, -Wattage- 15.7W, -Dimension- 150mm(L) X 150mm(H) X 15mm(D)	12.00	Nr		-	-
j	camouflage air filter cover using normal net	4.00	Sqm		-	-
k	Security Doors: 4mm thick Double panel chakared steel purpose made panel door, framed with 2"x2"x2mm thick square pipe frame, in size 1000mm x 2100mm high Filled solid concrete.	2.00	LS		-	-
l	Supply and fix high quality 900mm x 2100mm purpose made steel door.	1.00	Ls		-	-
m	Supply and fix high quality 750mm x 2100mm purpose made steel door.	2.00	Ls		-	-
n	Supply and install 1.5HP Split Inverter Airconditioner - Pv-12inv from an approved manufacturer.	1.00	LS		-	-
	<b><u>ELECTRICAL FITTING AND INSTALLATIONS</u></b>					

e	Allow a provisional sum for all electrical fittings and Installations. This cost shall include the cost of a distribution board D4 3, knockout boxes, looping boxes, circular boxes, pvc pipes and conduits, lighting switches, wiring cables; (1.5mm, 2.5mm and flexes) cable connector, RCCB, RCD, 32amp 6mm 5 core cable, junction boxes, 13/15 amp sockets, and all other necessary materials and accessories for a complete installation. All cable shall be NOCACO	1.00	LS			-	-
<b><u>PLUMBING FITTINGS AND MECHANICAL INSTALLATION</u></b>							
q	Supply and fix sanitary appliances and accessories including all joints, to cold and hot water supply and discharge pipes. These should include: Toilet Paper Holder, Toilet Seat, Basin & Pedestal, Skylanders Bathroom Fittings & Accessories, Skylanders Skyland Standing Shower with Mixer, Floor Drain and water heater.	1.00	LS			-	-
<b>TOTAL</b>						-	-
<b>SEPTIC TANK</b>							
23.1	<b>TRENCH EXCAVATION</b>						
	Excavate trench for foundation exceeding 0.30m in width max. depth n.e 1.0 meters starting at ground level.	7.20	Cu m			-	-
23.2	<b>FILLING TO EXCAVATION</b>						
	Back filled selected excavated materials around foundation average thickness n.e 0.25 meter arising from excavation levelled & compacted.	7.68	Cu m			-	-
23.3	<b>SURFACE TREATMENT</b>						
	Prepare and apply "dioldrex 20" anti-termite treatment to faces and bottom of excavation (Trench & Pit)	48.00	Sqr M			-	-
23.4	<b>LEVELING AND COMPACTION</b>						
	Level and compact bottom of excavation to receive concrete.	4.00	Sqr M			-	-
<b>24.1</b>	<b><u>E IN-SITU CONCRETE/LARGE PRECAST CONCRETE</u></b>						
	Plain in situ concrete mix (1:10 all - in - aggregate) in:						
	Bed (Plain)						
	50mm Blinding material to bottom of trench excavation.	0.20	Cu m			-	-
24.2	Vibrated reinforced insitu concrete(1:2:4) :20mm aggregate filled into formwork and well packed around reinforcement. Formwork and reinforcement measure separately in columns, beams and lintels.	7.77	Cu m			-	-
24.3	<b>FORMWORK FOR IN SITU CONCRETE</b>						
	Sawn formwork and support including striking and removing to:- the sides of columns and the slab	12.49	Sqr M			-	-
24.4	<b>REINFORCEMENT FOR IN SITU CONCRETE</b>						
	plain high yield tensile reinforcement bars 12mm dia @200mm c/c to BS 4449 in; ground beams, columns, footing, and slab.	161.62	Kg/M			-	-
<b>25</b>	<b><u>F10 BLOCK WORK WALLING</u></b>						
	Hollow sancrete block work, bedded and jointed in cement and sand mortar (1:6). Wall; filled solid with weak concrete.	14.40	Sqr M			-	-
26	Apply 25mm thick plaster to sandcrete block wall.	14.40	Sqr M			-	-
<b>TOTAL</b>						-	-
<b>GRAND TOTAL</b>						-	-

BILL NO. ONE CARRIED TO THE SUMMARY

**BILL No. Two Construction of Separation Wall in the Main Hub**

S. No.	Description	Quantity	Unit	Unit Cost (NGN)	Total Cost (NGN)	Total Cost (USD)
<b>1</b>	<b>EXCAVATION AND EARTH WORK</b>					
1.1	<b>TRENCH EXCAVATION</b>					
i	Excavate trench for foundation exceeding 0.30m in width max. depth n.e 1.0 meters starting at ground level.	39.20	Cu m		-	-
1.2	<b>FILLING TO EXCAVATION</b>					
i	Back filled selected excavated materials around foundation average thickness n.e 0.25 meter arising from excavation levelled & compacted.	25.76	Cu m		-	-
1.3	<b>LEVELING AND COMPACTION</b>					
i	Level and compact bottom of excavation to receive concrete.	39.20	Sqr M		-	-
2.1	<b>E IN-SITU CONCRETE/LARGE PRECAST CONCRETE</b>					
i	Vibrated plain insitu concrete(1:2:4) :20mm aggregate filled into formwork and well packed around reinforcement. Formwork and reinforcement measure separately in;					
a	foundation footing	3.92	Cu m		-	-
b	column base	2.31	Cu m		-	-
c	column	4.02	Cu m		-	-
d	Wall capping	3.36	Cu m		-	-
e	Ground Beam	2.96	Cu m		-	-
2.2	<b>FORMWORK FOR IN SITU CONCRETE</b>					
i	Sawn formwork and support including striking and removing to the sides of:-					
a	column	22.80	Sqr M		-	-
b	Wall capping	319.20	Sqr M		-	-
c	Beam	12.88	Sqr M		-	-
2.3	<b>REINFORCEMENT FOR IN SITU CONCRETE</b>					
i	plain high yield tensile reinforcement bars 10mm dia @200mm c/c to BS 4449 in;					
a	Columns base	129.58	Kg		-	-
b	Column	202.62	Kg		-	-
c	Ground Beam	138.88	Kg		-	-
d	Y6 Stirup @ 300mm c/c	120.34	Kg		-	-
<b>3</b>	<b>F10 BLOCK WORK WALLING</b>					
i	Hollow sancrete block work,bedded and jointed in cement and sand mortar (1:6). Wall;filled solid with mass concrete.	224.00	Sqm		-	-
4	Apply 25mm thick plaster externally and dress the eadges of the slabs.	347.20	Sqm		-	-
5	Screed the rendered surfaces with a mixture of cement, master lock, waterproofing agent and emulsion paint. Then, Prepare and apply two Coats (2) of white meyer emulsion paint or its equivalent in quality from an approved manufacturer on the wall surfaces and blue color of same describtion on the columns.	347.20	Sqm		-	-
6	Supply and install concertina (razor) wire of 500mm diameter on the top surfaces of the wall including the Y angles bars to which it will be fixed.	56.00	M		-	-
	<b>SUB-TOTAL</b>				-	-
7	Supply and install 4000mm x 3000mm purpose made steel gate; it should be double panelled with 4mm thick checkered plate on good and very strong iron frame with very high qualitative hinges. Note that, there should not be any gap of greater 1cm between the gate and the supporting columns.	1.00	Ls		-	-
8	Supply and install 1500mm x 2100mm purpose made steel pedestrian door; it should be double panelled with 4mm thick checkered plate on a good and very strong iron frame with very high qualitative hinges. Note that, there should not be any gap of greater 1cm between the gate and the supporting columns.	1.00	Ls		-	-
9	Fabricate and install boom barrier with 75mm dia. of 6mm thick Galvanise pipes and should be of approved design.	1.00	Ls		-	-
	<b>SUB-TOTAL</b>				-	-
	<b>TOTAL</b>				-	-

BILL NO. TWO CARRIED TO THE SUMMARY

**BILL No. Three Conversion of Slabs to Solid Structures in the Hub Extension**

S. No.	Description	Quantity	Unit	Unit Cost (NGN)	Total Cost (NGN)	Total Cost (USD)
<b>A</b>	<b>BLOCK WORK</b>					
<b>1</b>	230mm hollow sandcreed block bedded and joint with sand cement mortar	82.50	Sqm		-	-
<b>B</b>	<b>PARTITIONS</b>					
i	100mm solid sandcreed block bedded and joint with sand cement mortar	90.89	Sqm		-	-
ii	High quality fly-screen net installed on two sides of properly made aluminum frame work.	12.00	Sqm		-	-
<b>C</b>	<b>WALL FINISHING</b>					
<b>2</b>	Apply 25mm thick plaster to sandcrete block wall.	335.23	Sqm		-	-
<b>3</b>	Prepare and apply two coat of cool white high quality emulsion paint from an approved both interior and the exterior.	335.23	Sqm		-	-
<b>D</b>	<b>CONCRETE WORK</b>					
<b>4</b>	Vibrated reinforced insitu concrete(1:2:4) :20mm aggregate filled into formwork and well packed around reinforcement. Formwork and reinforcement measure separately in columns, beams and lintels.	5.50	Cu m		-	-
<b>2.3</b>	<b>REINFORCEMENT FOR IN SITU CONCRETE</b>					
i	plain high yield tensile reinforcement bars 10mm dia @200mm c/c to BS 4449 in; ground beams, columns, footing, and slab.	438.69	Kg		-	-
<b>6</b>	plain sawn formwork to the vertical sides of:	81.56	Sqm		-	-
<b>E</b>	<b>FLOOR FINISHING</b>					
<b>7</b>	Supply and lay 400mm x 400mm vitrified ceramic floor tiles.	83.64	Sqm		-	-
<b>F</b>	<b>ROOFING</b>					
<b>8</b>	0.55mm blue long span corrugated aluminium roofing sheet complete with accessories fixed to purlins(measured separately).					
i	Roof covering	132.00	Sqm		-	-
ii	Edging at 150mm gith	23.00	M		-	-
iii	Rigde cap 400mm width	10.00	M		-	-
<b>9</b>	Sawn hardwood roof members treated with anti-temite					
i	50mm x 50mm noggings	100.00	Nr		-	-
ii	50mm x 75mm purlins	50.00	Nr		-	-
iii	50mm x 100mm rafters, king post and other struts member	50.00	Nr		-	-
iv	50mm x 150mm tie beam	30.00	Nr		-	-
v	High quality white flank fascia board	15.00	Nr		-	-
<b>10</b>	Well screeded with a mixture of white paint, screeding powder and strong adhesive; painted cool white marine ply-wood ceiling; thickness: half inch	91.16	Sqm		-	-
<b>11</b>	Prepare and apply two coats blue high quality gloss paint on the fascia board externaly.	10.98	Sqm		-	-
<b>G</b>	<b>DOORS AND WINDOWS</b>					
<b>12</b>	Supply and fix high quality 900mm x 2100mm purpose made steel door to include high level window attached to the top of the door.	2.00	Ls		-	-
<b>13</b>	Supply and install high quality 750mm x 2100mm solid core flush door to the cubicles. This should include all accessories eg handles its keys.	8.00	Ls		-	-
<b>13</b>	Supply and install high quality 1200mm x 1200mm, Aluminum projected windows paneled with 4mm frosted glass laminated with 8ml Llumar Security Shutter Resistance Film; Burglaries and fly screen(Net) included.	8.00	Ls		-	-
<b>H</b>	<b>ELECTRICAL WORK</b>					
<b>14</b>	Allow a provissional sum for the supply and installation of electrical wiring and fittings including piping work. To include; 8no. 13Amp 2gang sockets, 4no. 16Amps socket, 12no lighting points, ABB three phase DB, and all connections should be fully grounded with a pure copper rod and all cables shall be Nocaco or its equivalent from an approved manufacturer.	1.00	Ls		-	-
<b>15</b>	Supply and Install 2.5Hp LG wall mounted split Acs or its equivalent in quality from an approved manufacturer complete with all installation kits.	2.00	Ls		-	-
	<b>TOTAL</b>				-	-

**BILL NO. THREE CARRIED TO THE SUMMARY**

**BILL No. Four Construction of Training Facility in the Main Hub**

S. No.	Description	Quantity	Unit	Unit Cost (NGN)	Total Cost (NGN)	Total Cost (USD)
	<b>SUBSTRUCTURE</b>					
i	TRENCH EXCAVATION; Excavate trench for foundation exceeding 0.1m in width max. depth not exceeding 1.0 meters starting at 150mm below ground level.	14.89	Cu M		-	-
ii	FILLING TO EXCAVATION; Back-filled selected excavated materials around foundation average thickness not exceeding 0.25 meter arising from excavation levelled & compacted.	9.58	Cu M		-	-
iii	FILLING TO MAKE UP LEVEL					
	Hardcore filling average thickness exceeding 0.25 meter obtained off site imported rock materials in layers not exceeding 150mm thick in: 200 - 300mm depth	13.50	Cu M		-	-
	Laterite filling and compaction	9.86	Cu M		-	-
iv	LEVELING AND COMPACTION; Level and compact bottom of excavation to receive concrete.	19.89	Sqm		-	-
	SURFACE TREATMENT; Prepare and apply " dieldrex anti-termite treatment to faces and bottom of the excavtion (Trench & fit).	98.29	Sqm		-	-
b	E IN-SITU CONCRETE/LARGE PRE-CAST CONCRETE					
	Plain Insitu-concrete mix(1:10 all in aggregate in Bed(plain)					
i	50mm blinding material to bottom of the trench excavation.	1.09	Cu M		-	-
ii	Vibrated plain insitu concrete(1:2:4) :20mm aggregate filled into formwork and well packed around reinforcement. Formwork and reinforcement measure separately in columns, beams, floor slabs and lintels.	3.89	Cu M		-	-
iii	FORM WORK FOR IN SITU CONCRETE					
0	plain sawn formwork to the vertical sides of: columns, beams and lintels	8.96	Sqr M		-	-
2.3	REINFORCEMENT FOR IN SITU CONCRETE					
i	plain high yield tensile reinforcement bars 10mm dia @200mm c/c to BS 4449 in; ground beams, columns, footing, and slab.	149.88	Kg		-	-
c	F10 BLOCK WORK WALLING					
0	Hollow sancrete block work,bedded and jointed in cement and sand mortar (1:6). Wall;filled solid with weak concrete.	35.56	Sqr M		-	-
	<b>SUPERSTRUCTURE</b>					
A	BLOCK WORK					
i	230mm hollow sandcreed block bedded and joint with sand cement mortar	83.31	Sqm		-	-
ii	150mm hollow sandcreed block bedded and joint with sand cement mortar	51.85	Sqm		-	-
iii	High quality fly-screen net installed on two sides of properly made aluminum frame work.	6.50	Sqm		-	-
B	WALL FINISHING					
2	Apply 25mm thick plaster to sandcrete block wall.	285.39	Sqm		-	-
3	Prepare and apply two coat of cool white high quality emulsion paint from an approved both interior and the exterior.	285.39	Sqm		-	-
C	CONCRETE WORK					
4	Vibrated reinforced insitu concrete(1:2:4) :20mm aggregate filled into formwork and well packed around reinforcement. Formwork and reinforcement measure separately in columns, beams and lintels.	2.00	Cu m		-	-
2.3	REINFORCEMENT FOR IN SITU CONCRETE					
i	plain high yield tensile reinforcement bars 10mm dia @200mm c/c to BS 4449 in; ground beams, columns, footing, and slab.	158.98	Kg		-	-
6	plain sawn formwork to the vertical sides of:	85.98	Sqm		-	-
D	FLOOR FINISHING					
7	Supply and lay 400mm x 400mm vitrified ceramic floor tiles.	52.35	Sqm		-	-
E	ROOFING					
8	0.55mm blue long span corrugated aluminium roofing sheet complete with accessories fixed to purlins(measured separately).					
i	Roof covering	71.00	Sqm		-	-
ii	Edging at 150mm gith	28.00	M		-	-
iii	Rigde cap 400mm width	32.00	M		-	-
9	Sawn hardwood roof members treated with anti-temite					
i	50mm x 50mm noggings	75.00	Nr		-	-
ii	50mm x 75mm purlins	40.00	Nr		-	-
iii	50mm x 100mm rafters, king post and other struts member	25.00	Nr		-	-
iv	50mm x 150mm tie beam	18.00	Nr		-	-
v	High quality white flank fascia board	12.00	Nr		-	-
10	Well screeded with a mixture of white paint, screeding powder and strong adhesive; painted cool white marine ply-wood ceiling; thickness: half inch	52.35	Sqm		-	-

<b>11</b>	Prepare and apply two coats blue high quality gloss paint on the fascia board externally.	7.58	Sqm		-	-
<b>F</b>	<b>DOORS AND WINDOWS</b>					
<b>12</b>	Supply and install high quality 900mm x 2100mm purpose made steel door.	1.00	Ls		-	-
<b>13</b>	Supply and install high quality 750mm x 2100mm solid core flush door on metal frame.	4.00	Ls		-	-
<b>14</b>	Supply and install high quality 1200mm x 1200mm, Aluminum projected windows paneled with 4mm frosted glass laminated with 8ml Lumar Security Shutter Resistance Film; Burglaries and fly screen(Net) included	5.00	Ls		-	-
<b>G</b>	<b>ELECTRICAL WORK</b>					
<b>15</b>	Allow a provisional sum for the supply and installation of electrical wiring and fittings including piping work. To include; 5no. 13Amp 4gang sockets, 2no. 16Amps socket, 10no lighting points, ABB three phase DB, and all connections should be fully grounded with a pure copper rod and all cables shall be Nocaco or its equivalent from an approved manufacturer.	1.00	Ls		-	-
<b>16</b>	Supply and Install 1.5Hp LG wall mounted split Acs or its equivalent in quality from an approved manufacturer complete with all installation kits.	2.00	Ls		-	-
<b>SUB-TOTAL</b>					-	-
<b>BILL NO. FOUR CARRIED TO THE SUMMARY</b>						

**BILL No. Five Construction of Toilet Block in the Main Hub for ETS Users**

S. No.	Description	Quantity	Unit	Unit Cost (NGN)	Total Cost (NGN)	Total Cost (USD)
2.1	Earthwork in excavation in any kind of soil in foundation commencing at strip level not exceeding 450mm deep.	9.94	Cu M		-	-
2.2	Backfilling on/around the Foundation plus its compaction. The materials could be from the excavated foundation subject to approval of the Engineer. Lateritic Hard core.	4.95	Cu M		-	-
2.3	'Dieldrex' anti-termite treatment to sides and bottom of excavation	67.20	Sq M		-	-
3.1	Plain In-situ Concrete (1:10 -40mm aggregate), blinding, vibrated, not exceeding 100mm thick	2.48	Cu M		-	-
3.2	Vibrated Reinforced insitu Concrete (1:2:4 – 19mm aggregate) filled into formwork and well packed around reinforcement (Both measured separately);	0.7935	Cu M		-	-
4.1	High Yield Deformed hot rolled Steel Bar Reinforcement to B.S. 4461 including hooks distance blocks tying wire etc. (Provisional)	60.72	Kg		-	-
5.1	Plain sawn formwork	17.80	Sq M		-	-
6	Hollow sancrete block work,bedded and jointed in cement and sand mortar (1:6). Wall;filled solid with weak concrete.	100.06	Sq M		-	-
7	0.55mm guage " OVEN BAKED COLOUR CORRUGATED LONG SPAN ALUMINIUM ROOFING SHEET or approved roofing Sheet, fixed to hardwood purlin (measured separately) complete, in accordance with the manufacturers instructions, including side and end laps	32.13	Sq M		-	-
8	Carcassing and Timber: Solignum termitte treatment hardwood timbers	360.00	Nr		-	-
9.1	WALL FINISH(Plastering): 25 mm cement plaster of mix 1:4 (1 cement : 4 fine sand) on new block wall	107.25	Sq M		-	-
9.2	PAINT FINISH: Prepare and apply three Coats of 'Meyer' Emulsion paint on Screeded surfaces.	88.00	Sq M		-	-
9.3	CEILING FINISH: PVC Ceiling, attached noggins and all well polished to Architect's specifications	24.75	Sq M		-	-
9.4	200 x 400 x 6mm thick vitrified wall tiles fixed to 45mm thick floated bed in 1:4 cement sand mix and grouted in matching tile finish	32.00	Sq M		-	-
9.5	300 x 300 x 6mm thick vitrified floor tiles fixed to 45mm thick floated bed in 1:4 cement sand mix and grouted in matching tile finish	24.75	Sq M		-	-
10.1	STEEL DOORS: 3mm thick single panel chakared steel purpose made panel door with 2"x2"x2mm thick square pipe frame, in size 900mm x 2100mm high.	6.00	Nr		-	-
11.1	Sliding window with aluminium frame and mosquito net (600 x 600 mm) and laminated with 8ml security shutter resistance film.	4.00	Sq M		-	-
12.0	BURGLAR PROOF: Cast iron burglar proofing in aproved design profile and colour;	4.00	Sq M		-	-
13.0	Allow a provisional for all electrical fittings and Installations. This cost shall include the cost of a distribution board D4 3, knockout box, looping boxes,circular boxes, pvc pipes and conduits, lighting switches, wiring cables; (1.5mm,2.5mm and flexes) cable connector, RCCB, RCD, 32amp 6mm 5 core cable, junction boxes, 13/15 amp sockets, and all other necessary materials and accessories for a complete installation. All cable shall be NOCACO or its equivalent in quality from an approved manufacturer.	1.00	LS		-	-
14.1	Supply and fix sanitary appliances and accessories including all joints, to cold and hot water supply and discharge pipes. These should include: 4 Toilet Paper Holder, 4 Toilet Seats, 4 Basin & Pedestal, Floor Drain, Wall mounted Mirror and other necessary accessories.	1.00	LS		-	-
14.2	Allow a provisional sum for soakaway/septic tank and all piping work both cold water , hot water and waste pipes including their fittings and accessories.	1.00	LS		-	-
<b>Total</b>					-	<b>0.00</b>

**BILL NO. FIVE CARRIED TO THE SUMMARY**

**BILL No. Six Construction of an Observation Tower**

S. No.	Description	Quantity	Unit	Unit Cost (NGN)	Total Cost (NGN)	Total Cost (USD)
<b>A</b>	<b>SUBSTRUCTURE</b>					
1.0.0	<b>EXCAVATION AND EARTH WORK</b>					
1.0.1	TRENCH EXCAVATION					
	Excavate trench for foundation exceeding 0.30m in width max. depth n. e 1.0 meters starting at ground ground level.	7.56	Cu M		-	-
1.0.2	FILLING TO EXCAVATION				-	-
	Back filled selected excavated materials around the foundatio average thickness n.e 0.25 arising from the excavation leveled & compaction.	4.97	Cu M		-	-
1.0.3	SURFACE TREATMENT				-	-
	Prepare and apply " dioldrex anti-termite treatment to faces and bottom of the excavation (Trench & fit).	30.00	Sqr M		-	-
1.0.4	LEVELLING AND COM[PACTION				-	-
	Level and compact the bottom of the excavation to receive concrete.	8.40	Sqr M		-	-
	Well compacted laterite filling.	2.70	Cu M		-	-
2.0.0	<b>E IN-SITU CONCRETE/LARGE PRE-CAST CONCRETE</b>					
	Plain Insitu-concrete mix(1:10 all in aggregate in Bed(plain)				-	-
2.0.1	50mm blinding material to bottom of the trench excavation.	0.42	Cu M		-	-
2.0.2	Vibrated reinforced insitu concrete(1:2:4) :20mm aggregate filled into formwork and well packed around reinforcement. Formwork and reinforcement measure separately in columns, beams, floor slabs and lintels.	5.69	Cu M		-	-
2.0.3	FORM WORK FOR IN SITU CONCRETE				-	-
	plain sawn formwork to the vertical sides of: columns, beams and lintels	38.80	Sqr M		-	-
2.0.4	REINFORCEMENT FOR IN SITU CONCRETE				-	-
	plain high yield tensile reinforcement bars 12mm dia @200mm c/c to BS 4449 in; ground beams, columns, footing, and slab.	274.83	Kg		-	-
3.0.0	<b>F10 BLOCK WORK WALLING</b>					
3.0.1	Hollow sancrete block work,bedded and jointed in cement and sand mortar (1:6). Wall;filled solid with weak concrete.	10.80	Sqr M		-	-
<b>B</b>	<b>SUBSTRUCTURE</b>					
	FRAMES				-	-
4.0.0	<b>F10 BLOCK WORK WALLING</b>					
4.0.1	Hollow sancrete block work,bedded and jointed in cement and sand mortar (1:6). Wall;filled solid with weak concrete.	52.36	Sqm		-	-
4.0.2	<b>WALL FINISHING</b>					
i	Apply 25mm thick plaster to sandcrete block wall.	105.32	Sqm		-	-
ii	Prepare and apply two coat of cool white high quality emulsion paint from an approved manufacturer over screeded surfaces for interior spaces and facing bricks for the exterior.	105.32	Sqm		-	-
4.0.3	<b>FLOOR FINISHING</b>					
	Supply and lay 400mm x 400mm vitrified ceramic floor tiles.	10.24	Sqm		-	-
5.0.1	<b>ROOFING</b>					
	0.55mm blue long span corrugated aluminium roofing sheet complete with accessories fixed to purlins(measured separately).				-	-
i	Roof covering	22.56	Sqm		-	-
ii	Edging at 150mm gith	15.00	M		-	-
iii	Rigde cap 400mm width	10.00	M		-	-
iv	Sawn hardwood roof members treated with anti-temite				-	-
v	50mm x 50mm noggings	20.00	L		-	-
vi	50mm x 75mm purlins	20.00	L		-	-
vii	50mm x 100mm rafters, king post and other struts member	15.00	L		-	-
viii	50mm x 150mm tie beam	14.00	L		-	-
ix	Well screeded with a mixture of white paint, screeding powder and strong adhesive; painted cool white marine ply-wood ceiling; thickness: half inch	21.32	Sqm		-	-
x	Pascial Board	12.00	M		-	-
	<b>TOTAL</b>				-	-

**BILL NO. SIX CARRIED TO THE SUMMARY**



**BILL No. Seven Upgrading of Emergency Exit Gate and Reinforcing Security Access Control Room in the Main Hub**

S. No.	Description	Quantity	Unit	Unit Cost (NGN)	Total Cost (NGN)	Total Cost (USD)
<b>A</b>	<b>REINFORCING SECURITY ACCESS CONTROL ROOM</b>					
1	BLOCKWORK					
7.1	230 mm thick sandcrete blocks laid in regular bond in cement mortar 1:4 (1 cement : 4 coarse sand) including centering and shuttering complete.	6.60	M <sup>2</sup>		-	-
2	FINISHING					
9.1	WALL FINISH(Plastering): 25 mm cement plaster of mix 1:4 (1 cement : 4 fine sand) on new block wall					
i	25mm Cement and Sand (1:4) Render Externally	7.20	M <sup>2</sup>		-	-
ii	25mm Cement and Sand (1:4) Render Internally	11.88	M <sup>2</sup>		-	-
9.2	PAINT FINISH: Prepare and apply three Coats of 'Meyer' Emulsion paint on Screeded surfaces.					
i	Rendered Walls; over 300mm wide. Internally	4.95	M <sup>2</sup>		-	-
9.3	CEILING FINISH: Half inch Ply-wood painted glossy attached to the noggins and all well polished to Architect's specifications	8.00	M <sup>2</sup>		-	-
3	DOORS AND WINDOWS					
10.1	Fabricate and fix purpose made door latches at the top and bottom of the bunker doors.	4.00	Nr		-	-
10.3	Remove security room window, old Pedestarian door and screening room window and block the openings with block wall infilled with concrete.	1.00	Ls		-	-
11.3	Supply and installation of 8 meter concertina barb wire including Y angle to hold firmly on the top of the wall	8.00	M		-	-
	<b>SUB-TOTAL</b>				-	<b>0.00</b>
<b>B</b>	<b>UPGRADING EMERGENCY EXIT GATE</b>					
a	EXCAVATION AND EARTH WORK					
i	<b>TRENCH EXCAVATION</b>					
	Excavate trench for foundation exceeding 0.3m in width max. depth n.e 1.0m starting at ground level.	25.07	Cu M		-	-
ii	<b>FILLING TO EXCAVATION</b>					
	Back fill selected excavated materials around the foundation average thickness 0.25 rising from levelled and compacted	16.48	Cu M		-	-
iii	<b>SURFACE TREATMENT</b>					
	Prepare and apply dieldrex anti termite treatment to the faces and the bottom of the excavation(trench and pit)	99.50	Sqr M		-	-
iv	<b>LEVELING AND COMPACTION</b>					
	Level and compact the bottom of trench to receive concrete	27.86	Sqr M		-	-
b	<b>E-INSITU CONCRETE LARGE PRE-CAST CONCRETE</b>					
	Plain insitu concrete mix(1:10 all in aggregate in bed( plain)					
i	50mm blinding materials to the bottom of the trench excavation	1.40	Cbm		-	-
ii	Vibrated reinforced insitu concrete(1:2:4)20mm aggregate filled into formwork and well packed around reinforcement.Form work and reinforcement measured separately in column,beam,floor slab and lintel	4.18	Cbm		-	-
iii	REINFORCEMENT FOR INSITU CONCRETE					
c	<b>F-10 BLOCK WORK WALLING</b>					
	Hallow sancrete block bedded and jointed in cement and sand motar(1:6)wall filled solid with weak concrete.	142.36	Sqr M		-	-
B	SUPER STRUCTURE					
	<b>WALL FINISHING</b>					
a	Apply 25mm thick plaster to sancrete block and dress the edges	284.72	Sqm		-	-
b	Prepare and apply two coat of cool white high quality emulsion paint from an approved manufacturers over screeded surface for inteerior spaces and facing bricks of the exteerior	284.72	Sqr M		-	-
c	Allow provisional sum for installation of bollards around the perimeter fence at a reasonable upset atleast 3m away from the fence.	1.00	Ls		-	-
e	Supply and installation of 40 meter long concertina barb wire including Y angle to hold firmly on the top of the wall	40.000	M		-	-
f	Allow provisional sum for removing and re-installation of the existing exit gate including casting of the columns to hold the gate and clearing debris off site.	1.000	Ls		-	-
	<b>SUB-TOTAL</b>				-	-
	<b>TOTAL</b>				-	-

**BILL NO. SEVEN CARRIED TO THE SUMMARY**

Contractor is responsible for cargo movement to location, hence, logistics, handling and offloading of all goods are solely the responsibility of the contractor. A humanitarian cargo movement form will be given to the contractor to facilitate haulage of the items stated in the waybill to site location.

All calculations should be limited to two (2) decimal places.