

PROPOSED SECURITY UPGRADE – RENOVATION WORKS TO HEADQUARTERS BUILDING (PELELEZA)

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (Kshs)
<u>BILL NO. 3; RE-ROOFING AND REPAIRS TO HEADQUARTER BUILDING (RENOVATIONS)</u>					
<u>Surface preparation</u>					
A	Carefully remove existing clay roof tiles and store on site as directed (approximately 662SM)		ITEM		
B	Clear concrete roof surface of all foreign material wire brush and clean ready for new roofing (aproximately 662SM)		ITEM		
C	Remove leaking felt gutter lining and cart away (aproximately 141SM)		ITEM		
D	Remove existing damaged rainwater downpipes and cart away (aproximately 72LM).		ITEM		
E	Clear fulbora rainwater outlet of all debris and uncover any blockage (aproximately 12NO).		ITEM		
F	Hack off existing roof cement/sand screed and ditto.(aproximately 141SM)		ITEM		
G	Make 50mm wide x 25mm deep groove in reinforced concrete for turning-in roofing felt.	255	LM		
<u>New roofing and gutter works</u>					
H	32mm cement/sand screed to receive new gutter lining.	141	SM		
J	Apply bituminous priming coat on screeded surface by torch spray to existing concrete roof surface.	662	SM		
K	Ditto. to concrete gutter.	141	SM		
L	DECRA' or other equal and approved sheet metal tiles, of approved colour, fixed to z-purlins with and J-bolts, plastic washers and caps at appropriate centres.	662	sm		
<u>Accessories, fixing as necessary to roof tiles</u>					
M	150mm diameter half round ridge or hip tile.	67	LM		
N	Extra over decra tiles for raking cutting at hips.	19	LM		
Carried to collection					

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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (Kshs)
A	Sirrah P GR 5kg/sm APP bituminous membrane felt applied on primed screed.	141	SM		
B	Extra over for turning-in and dressing felt in prepared groove with cement/sand (1:3) screed.	255	LM		
<u>Rain water Goods</u>					
<u>Heavy duty UPVC grey rainwater downpipe</u>					
C	160mm dia. rainwater downpipe fixed with and including UPVC straps at 3000mm centres, plugged and screwed to wall	72	lm		
D	Extra; swanneck bends	12	No		
E	Extra; horse shoe bend	12	No		
F	160mm diameter aluminium fulbora complete with fixing accessories	12	No		
G	Wall clips for 110mm down pipe fixed to steel columns.	48	NO		
<u>The following in refurbishment to MD's and Secretary's office</u>					
H	Carefully remove existing accoustic ceiling complete with aluminium carrier framing and dispose (aproximately 67SM)		ITEM		
J	Take down all timber brandering and ditto. (aproximately 67SM)		ITEM		
<u>Gypsum moulded and patterned false ceiling</u>					
K	75mm thick gupsum ceiling to PM's approved pattern including aluminium gridwork and gypsum boards; cutting to pattern; all fixing accessories and filler; fixing to concrete background; rubbing smooth to receive painting.	67	SM		
L	100mm covetto moulded and decorated gypsum cornice.	26	LM		
<u>Accoustic wall panelling and padding</u>					
M	50 x 50mm thick sawn cypress timber framing at 600mm centres both ways including fixing onto concrete background.	149	SM		
Carried to collection					

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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (Kshs)
A	5mm Thick plywood backing onto timber bearers (m.s)	149	SM		
B	50mm Thick high-density Accoustic foam onto plywood (m/s).	149	SM		
C	High quality rexin fabric in approved pattern complete with all necessary buttons stitched to padding and plywood backing and fixed to timber framing (padding, plywood and framing m/s).	149	SM		
	<u>Wrot mahogany or other approved hardwood.</u>				
D	25mm thick moulded beading fixed on rexin and timber backing.	248	LM		
E	200x25mm thick moulded and polished dado board on rexin and timber backing.	47	LM		
	<u>Painting and Decorating</u>				
F	Scratch off old paint on surfaces of concrete gutters and beams and apply one under coat, externally.	198	sm		
	<u>Prepare and apply two finishing coats permaplast long lasting marine emulsion paint on:-</u>				
G	Rendered surfaces of concrete gutters and beams, externally.	198	sm		
	<u>Prepare and apply one undercoat and two finishing coats plastic emulsion paint on:-</u>				
H	Pre-painted plastered surfaces; internally.	3152	sm		
	<u>Prepare and apply two coats oil paint full gloss to Crown Solo or other equal and approved to: -</u>				
J	Pre-painted surfaces of wooden doors; internally.	263	sm		
K	Ditto. frames; over 200mm but not exceeding 300mm girth.	331	lm		
	Carried to collection				

PROPOSED SECURITY UPGRADE – RENOVATION WORKS TO HEADQUARTERS BUILDING (PELELEZA)

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (Kshs)
	<u>On Metal work</u>				
A	Scratch off old paint and rust and on surfaces of metal windows and grilles and apply one metal priming coat; externally.	161	sm		
	<u>Prepare and apply two coats oil paint full gloss to Crown Solo or other equal and approved to: -</u>				
B	Pre-painted surfaces of metal windows and grilles; externally.	161	sm		
	<u>Prepare and apply three coats oil paint full gloss to Crown Solo or other equal and approved to: -</u>				
C	General surfaces of plastic pipes.	41	SM		
	Carried to collection				
	Collection.				
	Brough forward from pg HR/1.				
	Brough forward from pg HR/1.				
	Brough forward from pg HR/1. .				
	Brough down from above				
	TOTAL FOR RE-ROOFING AND REPAIRS CARRIED TO GRAND SUMMARY				

PROPOSED SECURITY UPGRADE – RENOVATION WORKS TO HEADQUARTERS BUILDING (PELELEZA)

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>BILL NO. 4; WATER TOWER</u>				
	<u>Demolitions</u>				
A	Carefully disconnect existing water pipes, plug all inlets and dispose all unusable pipes (approximately 30 LM).		ITEM		
B	Carefully take down existing elevated 10,000 litre plastic water tank and set aside for re-restoration as directed.		ITEM		
C	Carefully take down all existing timber decking and dispose as directed (approximately 20 SM).		ITEM		
D	Carefully dismount the entire existing 9m high water tank steel support tower down to top of concrete bases, consisting of 4no. 100mm columns, 8no. 100mm beams and 16no. 75mm angle diagonal braces including all flanges, nuts and welds e.t.c and store as directed.		ITEM		
E	Excavate around existing reinforced concrete bases to expose bases down base bottom including any murrum/hardcore parking.	45	cm		
F	Demolish existing reinforced concrete bases including steel reinforcement.	5	CM		
G	Excavate in existing bases to expand and deepen holes for new bases exceeding 1.5m but not exceeding 3.0 meters deep.	9	cm		
H	Extra over excavation for excavating in rock class I	28	CM		
J	50mm Thick mass concrete 1:4:8 blinding in expanded base	25	SM		
K	Concrete class 25/20 (1:1.5:3) in base.	15	CM		
L	Ditto. in columns.	7	CM		
M	Ditto. in beams.	8	CM		
N	Ditto. 200mm thick in suspended slabs.	38	SM		
P	Ditto. but in 125mm thick roof slab.	19	SM		
	Carried to collection				

PROPOSED SECURITY UPGRADE – RENOVATION WORKS TO HEADQUARTERS BUILDING (PELELEZA)

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
<u>Sawn timber formwork to:-</u>					
A	Sawn formwork to sides of bases.	24	SM		
B	Ditto. to vertical columns.	76	SM		
C	Ditto. to sides and soffits of beams.	63	SM		
D	Ditto. soffits of suspended slabs.	76	SM		
E	Ditto. to edges of suspended slabs, 75-150mm high.	19	LM		
F	Ditto. but edges 150 - 225mm high.	57	LM		
<u>Reinforcement</u>					
<u>Bars; high yield steel; cold worked to B.S. 4461 including bends, hooks, tying wire and distance blocks</u>					
G	8mm diameter bars	536	kg		
H	10mm diameter bars	67	kg		
J	12mm diameter bars	1790	kg		
K	16mm diameter bars	2188	kg		
L	20mm diameter bars	237	kg		
<u>Finishings</u>					
<u>15mm thick cement sand (1:4) render; wood floated to concrete surfaces of:-</u>					
M	Columns and beams.	139	sm		
N	Soffits of suspended floors	76	sm		
<u>Painting and Decorating</u>					
P	Prepare and apply three coats black bitumastic paint on concrete surfaces, externally.	24	sm		
Q	Ditto. but permaplast long lasting marine emulsion paint.	215	sm		
R	Prepare surfaces of existing painted but flaked and discoloured solid wall and apply three coats permaplast long lasting marine emulsion paint.	21	sm		
S	Ditto. internally.	21	sm		
Carried to collection					

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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Ditto. but on concrete ventillation wall surfaces externally.	18	sm		
B	Ditto. internally.	18	sm		
<u>Restoration works</u>					
C	Retrieve the 10,000 litre platic water tank and re-set to top of the newly constructed tower.		ITEM		
D	Allow for reconnection of all water pipes including any necessary additional lengths, fittings and reolacement of wornout pipes and fittings.		ITEM		
E	Allow for reconnection of all electrical wiring including any necessary additional lengths and fittings.		ITEM		
F	Allow for testing and commissioning of the entire plumbing works to the satisfaction of the PM.				
G	Ditto. for electrical works.				
<u>The following in refurbishment of existing switchroom</u>					
H	Carefully remove existing rusty corrugatted sheet roofing complete with roof timber and dispose (aproximately 14SM)		ITEM		
J	100 x 50mm selcured treated sawn cypress wall plate rag-bolted to walling with and including 12mm diameter bolts.	9	lm		
K	Ditto. 75 x 50mm single rafters nailed to wall plate.	11	lm		
L	Ditto. 75 x 50mm purlins nailed to rafters.	18	lm		
M	DECRA' or other equal and approved sheet metal tiles fixed to timber purlins (m/s).	12	sm		
N	Hack off existing worn-out wall plaster internally and externally.(aproximately 61SM)		ITEM		
P	15mm thick cement sand (1:4) render; wood floated to blockwork.	61	sm		
Carried to collection					

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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Provide and install metal grille door size 800 x 1800mm high comprising 50 x50mm SHS framing and 30x30mm SHS infill complete with hinges and locking handle to PM's approved design.	2	NO		
B	Prepare and apply three coats permaplast long lasting marine emulsion paint on plastered surfaces internally.	35	sm		
C	Ditto. externally.	26	sm		
D	Prepare and apply one red lead primer coat to 'Crown' or other equal and approved to metal grille door surfaces before fixing.	7	sm		
E	Prepare and apply three coats gloss oil paint to 'Crown' or other equal and approved to metal grille door surfaces internally.	4	sm		
F	Ditto. externally.	4	sm		
Carried to collection					
<p>Collection</p> <p>Brought forward from page WT/1</p> <p>Brought forward from page WT/2</p> <p>Brought forward from page WT/3</p> <p>Broughtdown from above</p>					
TOTAL FOR R. C WATER TOWER CARRIED TO GRAND SUMMARY					

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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (Kshs)
<u>BILL NO. 5; SEPTIC TANK; 100 Person (22,500 Litres)</u>					
<u>Earth works</u>					
A	Clear site of grass, bushes etc and cart away arisings	57	SM		
B	Excavate for pit commencing from existing ground level n.e 1.50 m deep	84	CM		
C	Ditto 1.50 to 3.00 m ditto	83	CM		
D	Ditto 3.00 to 4.50 m ditto	9	CM		
E	Extra over all excavations for excavating in rock class 1	26	CM		
F	Cart away surplus excavated materials	59	CM		
G	Return fill and ram selected excavated materials	117	CM		
<u>Plain concrete (1:4:8) in:-</u>					
H	50mm thick blinding under base slab	23	SM		
<u>Vibrated reinforced concrete (1:2:4)/20 mm in:-</u>					
J	300 mm thick bed	3	SM		
K	200 mm thick ditto	21	SM		
L	250 mm thick walls	45	SM		
M	200 mm thick ditto	3	SM		
N	100 mm thick scum baffle ditto	7	SM		
P	200 mm thick vertical division	7	SM		
Q	200 mm thick cover slab	26	SM		
<u>Reinforcement</u>					
<u>Bars; mild steel; cold worked to B.S. 4449 including bends, hooks, tying wire and distance blocks</u>					
R	8 mm diameter bars	1	KG		
Total carried to summary					

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	<u>Bars; high yield steel; cold worked to B.S. 4461 including bends, hooks, tying wire and distance blocks</u>				
A	10 mm diameter bars	123	KG		
B	12 mm ditto	1053	KG		
C	16 mm ditto	1254	KG		
	<u>Fabric mesh reinforcement</u>				
D	BRC Ref. 66	7	SM		
	<u>Sawn form work to:-</u>				
E	Vertical sides of walls	125	SM		
F	Soffittes of suspended slab	19	SM		
G	Edge of ground slab 225 - 300 mm high	5	LM		
H	Edge of ground slab 150 - 225 mm high	19	LM		
J	Ditto 75 - 150 mm ditto	4	LM		
K	Ditto suspended slab 150 - 225 mm ditto	24	LM		
L	Soffittes of baffle walls 75 - 150 mm girth	9	LM		
M	Boxing size 600 x 450 mm to form opening for man hole cover	4	SM		
N	12 mm thick sulphate - resisting water proof render to concrete surfaces.	99	SM		
P	Supply and fix medium duty, cast iron manhole cover size 600 x 450 mm complete with frame including greasing before fixing	4	NO		
	<u>SOAKPIT.</u>				
Q	Excavate pits for circular soak pit as per detailed drawing No. (50) 5345, not exceeding 1.5 m deep.	2	CM		
R	Ditto. Exceeding 1.5 m but not exceeding 3.0 m deep	2	CM		
S	Ditto. Exceeding 3.0 m but not exceeding 4.5m deep	2	CM		
	Total carried to collection				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (Kshs)
A	Extra over for excavation in rock class I	4	CM		
B	Concrete class X (mix 1:4:8) in; 50mm thick concrete blinding to strip footing.	1	SM		
C	Approved local natural stone; roughly squared; bedding and jointing in cement sand (1:3) mortar in:- 150mm thick walling to detail 50 (5345) .	5	SM		
D	12mm thick water proof cement rendering to vertical walls. Vibrated reinforced concrete class 20/20 (1:2:4) in;	5	SM		
E	150mm thick suspended slab. Mild steel reinforcement bars to B.S 4449	1	SM		
F	12mm diameter round bars.	32	KG		
G	Stone blocks or hardcore in filling up soak pit.	10	CM		
H	Provide and fix 600 x 450mm medium duty C.I manhole cover and frame to B.S 497 .	2	No		
J	Allow a provisional sum of Kenya Shillings One million five hundred (Ksh 1,500,000) for opening up and rehabilitation of existing sewer including replacement of broken manholes and covers.		ITEM		
Total carried to collection					
Collection From page ST/1 From page ST/2 From page ST/3					
TOTAL FOR SEPTIC TANK CARRIED TO GRAND SUMMARY					