

NAROK SUBSTATION - BOUNDARY WALLING

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>DEMOLITIONS (All Provisional)</u>				
A	Remove existing concrete poles, chainlink fencing including cedar poles, clear the existing hedge, grub up the roots along the boundary load and cart away		ITEM		
B	Carefully remove existing mild steel gate and set aside as directed	1	NO		
C	Allow for demolition of existing and excavation of a new 9m deep and construction of a new double pit Latrine to a new location as directed on site.		ITEM		
	<u>Substructures (All Provisional)</u>				
D	Excavate for foundation trench and column bases commencing from ground level but not exceeding 1.50M deep	189	CM		
E	Ditto exceeding 1.50m but not exceeding 3.0m deep	106	CM		
F	Allow for keeping excavation free from general water		ITEM		
G	Allow for plunking and strutting		ITEM		
H	Return, fill and ram selected excavated material	152	CM		
J	Load and cart away surplus excavated material	143	CM		
K	50mm Mass concrete (1:4:8/40mm aggregates) blinding in foundation trench and column bases	210	SM		
	<u>V.R.C. (1:2:4/20mm aggregates) in:-</u>				
L	Foundation trench	34	CM		
M	Column bases	23	CM		
N	Columns	36	CM		
P	Ground Beam	9	CM		
	<u>Sawn formwork to sides of:-</u>				
Q	Foundation trench	140	SM		
R	Column bases	312	SM		
S	Columns	120	SM		
T	Ground Beam	216	SM		
	<u>High yield mild steel reinforcement including cutting, bending, spacers, tying wire and fixing to BS 4449 in:-</u>				
	<u>Foundation trench</u>				
	Y 10	1206	KG		
	Total carried to Summary				

1045

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>High yield mild steel reinforcement including cutting, bending, spacers, tying wire and fixing to BS 4449 in:-</u>				
	<u>Column Bases</u>				
B	Y 12	633	KG		
	<u>Columns</u>				
C	Y 12	422	KG		
D	Y 8	279	KG		
	<u>Ground Beam.</u>				
E	Y 12	320	KG		
F	Y 8	237	KG		
G	200mm thick natural stone walling in cement/sand (1:3) mortar including 20G hoop-iron reinforcement in every alternate courses	414	SM		
	<u>SUPERSTRUCTURES</u>				
H	V.R.C. (1:2:4/20mm aggregates) in columns	42	CM		
	<u>High yield mild steel reinforcement including cutting, bending, spacers, tying wire and fixing to BS 4449 in:-</u>				
	<u>Columns</u>				
I	Y12	760	KG		
J	Y8	328	KG		
K	Sawn formwork to the sides of columns	216	SM		
L	Labour and material for construction joints in 12mm thick flexel expansion and 25x25mm expansion sealer	22	LM		
M	200mm thick machine-cut or fair faced dressed natural stone walling in cement/sand (1:3) mortar including 20G hoop-iron in every alternate courses and finished flush internally and horizontal joints keyed and perpend finished flush externally	745	SM		
N	300mm Wide x 62.5mm thick (average) twice-weathered and twice-throated pre-cast concrete coping bedded and jointed in cement/sand (1:3) mortar	276	LM		
P	Allow for creating 150mm diameter weep holes at ground level at 2M centres on masonry wall and prevent ingress using wire mesh grouted in cement/sand (1:3) mortar	75	NO		
Q	Supply and fix facing bricks on protruding columns in cement and sand mortar 1:3 horizontally and vertically keyed finish.	144	SM		
R	25mm thick cement/sand (1:4) to rendering on wall surfaces finished smooth to receive plastic Emulsion paint (MS)	745	SM		
Total carried to Summary					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>GATE</u>				
A	Fabricate and fix double-leaf branded gate overall size 6000x2400mm high in RHS framing size 50x25x3mm thick and G15 M.S. plate panel infills; hung at three points both sides in metal lugs built into concrete columns and allow for a 600x1200mm high wicket gate hung at two points on the main frame and including padbolts, towerbolts and securing in 100x100x10mm RHS on both sides and apply two coats red-lead oxide primer before fixing and two coats of gloss oil paint as "Crown Berger" to the client's approval and satisfaction	1	NO		
B	Allow for facilitation and approvals by County Government and all other stake holders		ITEM		
C	Allow for facilitation of re-establishing the plot beacons with the Local Authority		ITEM		
	<u>GATE HOUSE - 2 No.</u>				
	<u>Substructures (All Provisional)</u>				
D	Excavate for foundation commencing from ground level but not exceeding 1.50M deep.	2	CM		
E	Ditto exceeding 1.50m but not exceeding 3.0m deep	2	CM		
F	Allow for keeping excavation free from general water		ITEM		
G	Allow for plunking and strutting		ITEM		
H	Return, fill and ram selected and approved material.	20	CM		
J	Load and cart away excavated material	32	CM		
K	50mm Mass concrete (1:4:8/40mm aggregates) blinding in foundation trench	18	SM		
L	Selected and approved hardcore material compacted in layers of 300mm to foundation	14	CM		
M	50mm thick quarry dust blinding to Hardcore	22	SM		
N	1000 Gauge polythene sheeting damp proof membrane to Blinding	24	SM		
O	150mm thick concrete bed on damp proof membrane (m.s)	22	SM		
	<u>Sawn formwork to: -</u>				
A	Edges of floor slab	26	LM		
B	200mm thick quarry stones walling bedded and jointed in mortar (1:3)	40	SM		
C	25mm thick cement/sand (1:4) rendering on wall surfaces finished smooth to receive bituminous paint.	20	SM		
D	Prepare and apply 3 coats bituminous paint on rendered surfaces	20	SM		
	Total carried to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>ELEMENT NO. 02</u> <u>SUPERSTRUCTURES</u> <u>Walling</u>				
E	Pluvex No.1 or other equal and approved bituminous damp proof course to B.S.743. 225mm wide under walling (m.s) including for 200mm long laps (measured net noallowance included for the laps)	42	LM		
F	200mm thick machine cut stone walling in cement sand mortar 1:4 including for hoop iron every alternate course.	88	SM		
G	Vibrated reinforced concrete (1:2:4/20mm aggregates) in ring beam 200 X 200 X 4500mm	14	CM		
	<u>High yield mild steel reinforcement including cutting, bending, spacers,tying wire and fixing to BS 4449 in:-</u> <u>Ring Beam</u>				
H	Y 8	120	KG		
I	Y 10	140	KG		
	<u>Sawn formwork to:-</u>				
J	Sides and soffits of ring beam	20	SM		
	<u>ELEMENT NO. 03</u> <u>ROOF CONSTRUCTION AND COVERING</u> <u>Roof construction timber to be sawn,cell cured second grade cypress timber.</u>				
K	75x50mm rafters	30	LM		
L	50x50mm purlins	30	LM		
M	Gauge 26 pre-painted roof covering sheet including 75mm side laps and 300mm long end laps.	32	SM		
N	250x25mm thick wrot cypress fascia and verge boards nailed to rafters and purlins respectively	32	LM		
P	Knot,prime,stop and apply 2 undercoats and one finishing coat of oil paint to fascia and verge boards 200-300mm girth.	32	LM		
Q	Prepare and apply 3 coats PEP paint on rendered surfaces of Perimeter wall internally	745	SM		
R	Fabricate and erect 6M high 150mm Dia CHS flood lights mast Complete with timer, 280 Watts LED lamps 2 per mast and all the necessary wiring as directed on site	6	No		
Total carried to Summary					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	ELEMENT NO.04 OPENINGS (WINDOWS) 100 x 50mm thick prime grade cypress in:-				
B	Window frame	10	LM		
C	Mullion	2	LM		
D	1800x1200mm purpose made grill using 16mm square bars.	2	NO		
E	5mm thick by150mm by 550mm louvre blades	16	NO		
F	A pair of 6 blade aluminium louvre channel complete with louvres	4	PRS		
G	Knot, prime, stop and apply 2 No. undercoats and 1No. finishing coat of super gloss to wrot timber surfaces 200 - 300mm girth.	16	LM		
	DOORS Wrot cypress in:-				
H	100 x 50mm rebated door frame plugged to wall	22	LM		
J	One finishing 3-lever original union lock	4	NO		
K	100mm steel butt hinges	6	Pr		
L	Knot,prime stop and apply 2 No. undercoats and 1 No.finishing coat of high gloss to surfaces 200 - 300 girth	12	LM		
	ELEMENT NO.05 - FINISHES INTERNAL FINISHES				
	Floor finishes				
M	25mm thick cement/sand (1:3) screed	24	SM		
	Wall finishes internally.				
N	12mm internal quality lime plaster finished smooth with steel trowel	106	SM		
P	Prepare and apply 3 coats of 1st quality silk vinyl paint to plastered walls internally	106	SM		
	Internal Ceiling finishes				
Q	50x50mm brandering at 600mm centers	104	LM		
R	12mm chipboard ceiling board v-jointed and nailed to brandering (m.s.)	24	SM		
S	Prepare and apply 3 coats 1st quality plastic emulsion paint to celotex ceiling boards (m.s) internally	24	SM		
T	75mm diameter wrot cypress cornice with three labours	100	LM		
Total carried to Summary					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>EXTERNAL FINISHES</u>				
	<u>Wall finishes</u>				
A	Prepare and apply 12mm plaster wood float finished smooth with steel trowel.	10	SM		
	<u>External Works</u>				
B	Strip levels and lay paving slabs along the guard house on plain concrete blinding (1:3:6/30mm aggregate) (Refer to attached drawing)	12	SM		
	<u>Electrical works</u>				
C	13 Amp socket outlet including heavy duty 20mm pvc conduits and wiring.	6	NO		
D	2 way consumer unit	2	NO		
E	600mm long flourescent tube complete with fitting and wiring	6	NO		
	<u>Rain water goods</u>				
F	G26 box gutter 150 x 150mm complete with metal brackets at 1200 c/c and painted to match the existing.	20	LM		
G	Extra over ditto for stopped end	8	NO		
H	Ditto gutter outlets for 150mm diameter rainwater pipe.	4	LM		
J	6M long;150mm diameter pvc down pipe secured with metal brackets at 600mm centres	4	NO		
K	Extra Over for swan neck	4	NO		
L	Ditto for shoe	4	NO		
M	Prepare and apply 2 coats of gloss paint as crown to all surfaces of gutters and down pipes.	14	SM		
	<u>ELEMENT NO. 6 CIVIL WORKS</u>				
P	Allow for design and preperation of construction details and subsequent approval by relevant government agencies. The successful bidder shall be required to submit preliminary drawing for approval to the client prior to making final drawings.		ITEM		
Q	Fabricate away from site and fix a pedestrian gate overall size 900x2400mm high and secure with 100x100x10mm RHS	1	No		
R	Recover the existing gate and reinstall the same to the store yard entrancesecuring it with 100x100x10mm RHS,repair, repaint and make good all affected surfaces. The contractor shall ensure that the store yard operations are not interfered during the contract period.		ITEM		
S	Construct a lined drainage in 450mm Dia. IBD with 3 course side slabs, concrete bedding with a fall of 1:75 and concrete duct 900mm Dia. X 12M long,head wall at gates openings as directed	102	LM		
	Total carried to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	CIVIL WORKS - CONTINUED				
A	Allow for gabions design and installation as directed on site approximately 84 x 2.4 x 2.4 m (LxWxD). Front stepped.		ITEM		
B	Supply and Spread after clearing the yard 2"-1.5" ballast hard-wearing stable, drainable, easy to clean, workable, resistant to deformation and 150 mm thick as directed and supervised by A COMPETENT KENYA POWER PERSONNEL.	1312	SM		
C	Supply and fix 2400mm x gauge 14 chain link inclusive of cranked concrete posts and struts at 3000 metres interval to the switch yard and a 900x2100mm metal grill door. The work shall be inclusive of excavation ,metal frame work,mounting,concrete works and tension wires and concrete. Length 82 metres		Item		
D	25 x25 x 3mm Thick RHS Tube overall 1000mm long at 3M centres including excavating and mortising in mass concrete (1:2:4) and allow for 1 coat grey oxide primer & 2 coats 1st quality gloss oil paint	100	NO.		
	Razor Wire				
E	Supply and fix Razor wire at the Bottom of the free standing Electric fence in two layers as directed conforming to the following specifications:- coil size - 450mm diameter,Blade profile - Ripper Razor Wire,Stretch factor - maximum of 10M per coil and secured with steel plates at 1M centres (Galvanised) coil thickness 24 Gauge	280	LM		
	Total carried to Summary				
<p>Summary page 1 Summary page 2 Summary page 3 Summary page 4 Summary page 5 Summary page 6 Summary page 7 Summary Preliminary page</p> <p>Total 16% VAT Inclusive</p> <p>Name of Contractor</p> <p>Contractor's Address</p> <p>Date</p> <p>Witness</p> <p>Address</p> <p>Signature</p> <p>Official Rubber Stamp</p>					