

Item No	Description	Qty	Unit	Rate	Kshs
	<b>BILLS OF QUANTITIES FOR CONSTRUCTION OF A PERIMETER WALL AT EMBU LIBRARY (PROVISSIONAL)</b>				
	<b>ENTRANCE GATE</b>				
	<b><u>Gate Leaves</u></b>				
A	2500 x75 x 75mm square hollow section steel posts casted in position complete with one end closed and welded, the other split fanged including one coat of red oxide primer 1 undercoat and two finishing coats gloss enamel paint .	2	No		
B	2500 x50 x 50mm square hollow section steel posts ditto <i>The following in 3 number openable leaves including all cutting, bending, welding and laying in position complete with all purpose made hinges, locking devices and one coat of red oxide primer , 1 undercoat and 2 coats gloss paint.</i>	2	No		
C	40 x 25 x 3mm thick rectangular hollow sections	289	KG		
D	40 x40 x 3mm thick square hollow section	158	kg		
E	Gauge 18 black sheet welded onto steel gate framing	7	sm		
F	Concrete 1:2:4 mix beching to gate posts	1	cm		
A	<b>PEDESTRIAN GATE</b>				
	<b>1500 x 1800 mm high mild steel Gate comprising of:</b> Single leaf metal gate overall size 1000 x 2100 mm high and comprising of 2 No. 40 x 40 x 3 mm SHS End stiles and 4 No. Intermediate rails size 1000 mm long both ends welded to end stiles; 5 No. 25 x 25 x 2 mm x 1800 mm long SHS vertical bars welded to stiles and rails in staggered pattern @ 150 mm centres; 1 No. 16 mm diameter x 300 mm long barrel bolt and receiver welded to end stile; 2 No. plate and pin hinges	1	NO		
	Prepare and apply one coat primer, two under coat and one coat gloss finishing oil paint on metal surfaces:	3.6	SM		
	<b><u>GATE POSTS COLUMNS AND GROUND BEAM</u></b>				
	<b>The following in 3 No. reinforced concrete columns size 300 x 300 x 2400 mm high</b>				
H	Excavation for column bases	48	CM		
J	Return fill in and ram excavated soil	32	CM		
K	Load and cart away	16	CM		
L	50mm thick blinding in concrete 1:4:8 mix	32	SM		
M	Concrete 1:2:4 mix in column/ base	6	CM		
N	Concrete 1:2:4 mix in ground beam	6	CM		
P	Sawn formwork to Sides of Column bases	76	SM		
Q	Ditto; Vertical Sides of ground beam	110	SM		

Item	Description	Qty	Unit	Rate	Kshs
<b>Reinforcement</b>					
A	8 mm diameter in Columns	442	KG		
B	10 mm diameter in foundation strip	172	KG		
C	<b>12 mm in Column in foundation strip</b>	324	KG		
D	12 mm in Column/bases/ bases	520	KG		
E	12 mm in Column in ground beam	312	KG		
F	8 mm diameter in ground beam	178	KG		
G	12 mm thick cement:sand ( 1:4 ) Render steel trowelled smooth on surfaces of Columns and ground beam	68	SM		
<b>BOUNDARY WALL</b>					
<b>Steel Grill</b>					
20 x 20 x 2.0mm thick SHS 1100mm high comprising two horizontal members and verticle member cut and bedded in masonry and the other splay cut, including welding all together with spot welds to approval					
J		92	LM		
K	Prepare and apply three coats of first grade oil paint to metal grill surface	92	LM		
L	Excavation 0-1.5	42	CM		
M	Return fill in and ram from soil heaps	33	CM		
N	Load and cart awy	11	cm		
P	50mm thick blinding in concrete 1:4:8 mix	2	cm		
Q	Concrete 1:2:4 mix in strip foundation	8	cm		
<b>Walling</b>					
R	200 thick well selected full gauge natural stone walling in mortar 1:3 mix	188	sm		
S	Pointing in neat recessed joints	92	sm		
T	Medium dressing to natural stone walling on one face and rough dressing to the other	92	sm		
<b>Coping</b>					
U	250x50mm thick precast concrete coping twice throated and twice wethered bedded in and including mortar 1:3 mix	92	lm		
Total to collection below					

**Collection**

Total from page 1

Total from above

**Total to summary for boundary walling**