

PROPOSED FENCING AROUND THE KEMRI CPHR, CMR PARCEL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	BILL NO 1. FENCING AROUND CPHR & CMR (1.6m HEIGHT IN MASONRY & 1.0M IN METAL GRILL) SUBSTRUCTURES				
	<u>All provisional Excavations</u>				
A	Clear site of all shrubs and undergrowth including grubbing up of roots and dispose off as directed.	325	SM		
B	Excavate oversite average 150mm deep and cart away as directed	325	SM		
C	Excavate trenches in black cotton soil for strip foundation not exceeding 2 metres and cart away as directed	650	CM		
D	Ditto to column base	115	CM		
	<u>Filling and carting away</u>				
E	Backfill with approved murrum around excavations including compaction in 150mm layers to approval	765	CM		
	<u>Plain concrete (1:4:8) in</u>				
F	50mm Thick blinding to strip foundation	325	SM		
G	Ditto to column base	115	SM		
	<u>Vibrated reinforced concrete grade 20/20 (1:2:4) in:</u>				
H	Strip footing	54	CM		
I	Column base	39	CM		
J	stub column	12	CM		
	<u>Sawn formwork to:</u>				
K	Sides of strip footing	812	SM		
L	Ground beam	812	SM		
M	Column base	288	SM		
N	Column	96	SM		
	Carried to Collection				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Reinforcements				
	<u>Bars; high yield steel; cold worked to B.S. 4461 including bends, hooks, tying wire and distance blocks</u>				
A	12mm Ditto	1,584	KG		
B	8mm Ditto	515	KG		
	<u>SUBSTRUCTURES-(CONTINUED)</u>				
	<u>plaster</u>				
C	12mm thick cement and sand (1:3) render to ground beam	365	SM		
D	Allow for keeping the whole of the excavations free from all water; include for draining or other wise keeping all works free from water as necessary over the entire contract period		ITEM		
E	Allow for maintaining and upholding sides of excavations and keeping excavations clear of all fallen materials, rubbish etc		ITEM		
	<u>REINFORCED CONCRETE SUPERSTRUCTURE</u>				
	<u>All provisional</u>				
	<u>Vibrated reinforced concrete grade 20/20 (1:2:4) in:</u>				
F	Ground Beam	57	CM		
G	Columns	20	CM		
	<u>Sawn formwork to:</u>				
H	Sides of beams	365	SM		
I	Ditto to columns	180	SM		
	Carried to Collection				

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	<u>Reinforcements</u>				
	<u>Bars; high yield steel; cold worked to B.S. 4461 including bends, hooks, tying wire and distance blocks</u>				
A	12mm Ditto	4,213	KG		
B	8mm Ditto	995	KG		
	<u>WALLING</u>				
C	200 mm wide approved quality 3-ply bituminous felt damp proof course under walls	609	LM		
	<u>Smooth chisel dressed natural stone walling in cement and sand (1:4) mortar reinforced with and including 25 x 3mm thick hoop iron in every alternate course</u>				
D	200mm Thick walling externally	650	SM		
E	225mm pre-cast concrete copping placed on top of the masonry walling	445	LM		
F	450x450mm ditto to concrete columns	169	NO		
G	Allow for storm water drainage through the wall		ITEM		
H	vertical and horizontal keying to both side of masonry walling	1,430	SM		
	<u>GRILLS</u>				
	<u>Mild steel hollow sections as grills to fence including welding and finishing to approval</u>				
I	25mm x 25mm x 4mm thick	3,573	LM		
J	450mm dia razor wire including achorage on the grills to approval	445	LM		
	<u>Painting and decoration</u>				
	<u>Prepare and apply three coats gloss oil paint to surfaces of metal</u>				
K	Grilled surfaces; both sides (measured gross)	325	SM		
	Carried to Collection				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	<p>GATE Mild steel GATE 5000x 2400mm high mild steel gate comprising of 2 No. leaves complete with 200 x 100 x 6mm RHS framing, 400X400mm concrete columns, column base and metal lugs including purpose made hanging and locking accessories once primed with red oxide primer before delivery to the site</p>	2	NO		
	Carried to Collection				
	<p>COLLECTION Carried forward from pg1 Carried forward from pg2 Carried forward from pg3 Carried forward from pg4</p>				
	TOTAL FOR FENCING CARRIED TO GRAND SUMMARY				