

**REMOVE DAMAGED BLOCKWALL FENCE AND RE-CONSTRUCT REINFORCED SECURITY BLOCKWALL & CLEAR VIEW PERIMETER FENCING AT EDENDALE
DEPOT ROADS SECTION**

Item no.		UNIT	QTY	RATE	AMOUNT
	<u>Provisional Bill of Quantities</u>				
	<u>SECTION NO. 1</u>				
	<u>BILL NO. 1</u>				
	<u>PRELIMINARIES</u>				
1	The P&G's are priced excluding Vat but are inclusive of all items and expressed as a percentage amount of the Contract Sum in the appropriate category as indicated in a percentage amount to form a Final Contract Amount. (8,5%)	Item			
	Carried to Summary				
	<u>SECTION NO. 3</u>				
	<u>BILL NO. 01</u>				
	<u>DEMOLITIONS</u>				
	The Tenderer is referred to the relevant Clauses in the separate document The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.				
	<u>REMOVAL OF EXISTING WORK</u>				
	<u>Taking down & removing blocks by carting off site</u>				
1	Blockwall fence 1,8m high	m	290		
	Carried to summary				
	<u>BILL NO. 02</u>				
	<u>EARTHWORKS</u>				
	The Tenderer is referred to the relevant Clauses in the separate document The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.				
	<u>SITE CLEARANCE</u>				
2	Allow for clearing the area of the site to be built upon of all grass, weeds, shrubs, trees with trunks not exceeding 200mm girth, debris, etc., including grubbing up all roots, scoffling up as required and cart away all vegetation and debris.	m ²	580		

<u>REMOVAL OF TREES ETC</u>				
<u>Taking out and removing, grubbing up roots and filling in holes - cart off site</u>				
3	Tree exceeding 500mm and not exceeding 1000mm girth	No	5	
4	Tree exceeding 1000mm and not exceeding 1500mm girth	No	8	
<u>EXCAVATION</u>				
<u>Excavation in earth not exceeding 2m deep:</u>				
5	Surface trenches.	m ³	150	
<u>Extra over trench and hole excavations in earth for excavation in:</u>				
6	Soft rock.	m ³	8	
7	Hard rock.	m ³	5	
<u>Extra over all excavations for carting away:</u>				
8	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m ³	144	
<u>Risk of collapse of excavations:</u>				
9	Sides of trench and hole excavations not exceeding 1,5m deep.	m ²	288	
<u>Keeping excavations free of water:</u>				
10	Keeping excavations free from mud and all water including subterranean sources.	Item	1	
<u>EARTH FILLING, ETC.</u>				
<u>Earth filling obtained from the excavations and / or prescribed stock piles on site compacted to 95% Mod. AASHTO density:</u>				
11	Backfilling to trenches, holes, etc.	m ³	86	
<u>Compaction of surfaces:</u>				
12	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density.	m ²	96	
<u>SOIL POISONING</u>				
<u>Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against termite infestation for ten years:</u>				
13	To bottoms and sides of trenches, holes, etc.	m ²	408	
Carried to summary				

BILL No. 03				
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
<p>The Tenderer is referred to the relevant Clauses in the separate document The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p>				
<u>SUPPLEMENTARY PREAMBLES</u>				
Proprietary products in descriptions:				
<p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.</p>				
<u>Cost of tests:</u>				
<p>The costs of making, storing and testing of concrete test cubes as required under clause 7 'Tests' of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Architect. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Architect. (Test cubes are measured separately).</p>				
<u>Formwork:</u>				
<p>Descriptions of formwork shall be deemed to include use and waste only (except where described as left in or permanent), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use.</p>				
<p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p>				
<p>Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described.</p>				
<p>Formwork to sides of bases, pile caps, ground beams, etc., will only be measured where it is prescribed by the Engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in Earthworks.</p>				
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>25MPa / 19mm concrete:</u>				
14	Strip footings	m ³	36	
15	Underground concrete beam	m ³	15	
16	Concrete infill to columns	m ³	10	
17	V Drains cast in panels	m ³	30	
<u>TEST BLOCKS</u>				
<u>Test blocks:</u>				

18	Making and testing set of three 150x150x150mm concrete strength test cubes (Provisional).	No	3		
	<u>FINISHING TOP SURFACE OF CONCRETE</u>				
	<u>Finishing top surfaces of concrete smooth with a steel trowel</u>				
19	Paving to falls and currents	m ²	120		
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>				
	<u>Rough Formwork to Sides:</u>				
20	Strip footings (Provisional)	m ²	72		
21	V Drains	m	120		
	<u>REINFORCEMENT (PROVISIONAL)</u>				
	<u>Fabric reinforcement:</u>				
22	REF. 193 fabric reinforcement in concrete surface beds, slabs, etc.	m ²	120		
	<u>High tensile steel reinforcement to structural concrete work:</u>				
23	Stirrups Y10 @ 250 c/c	t	1		
24	14 Y12 in bases	t	1		
25	4 Y12 in colums	t	1		
26	4 Y12 in walls	t	1		
	Carried to summary				
	<u>BILL No. 04</u>				
	<u>MASONRY</u>				
	The Tenderer is referred to the relevant Clauses in the separate document The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.				
	<u>Blockwork:</u>				
	Blockwork shall comply with SABS 0145 "Concrete Masonry Construction"				

	Surfaces shall have joints raked out to a depth of at least 10mm and pointed on exposed surfaces. Cavities of hollow walls shall be kept free of mortar droppings or other undesirable matter. Every second perpend of the bottom course of the external skin of hollow walls shall be left open as a weep hole.				
	<u>Standard complementary blocks:</u>				
	Descriptions of blockwork shall be deemed to include standard complementary blocks such as corner, three-quarter, half and quarter blocks required in the construction of corners, reveals, jambs, ends, etc to solid and hollow walls and for bonding as necessary				
	<u>3M HIGH BOUNDARY WALL</u>				
	<u>BLOCKWORK</u>				
	<u>Blockwork in class II mortar</u>				
27	190mm block walls	m ²	480		
28	190mm block columns	m ²	320		
	<u>BLOCKWORK SUNDRIES</u>				
	<u>Fair face to blockwork pointed with flush horizontal and vertical joints</u>				
29	Extra over for fair face	m ²	720		
	<u>Brickwork reinforcement:</u>				
30	150mm Wide reinforcement built in horizontally	m	####		
	Carried to summary				
<u>BILL No. 05</u>					
	<u>EXTERNAL WORKS</u>				
	The Tenderer is referred to the relevant Clauses in the separate document The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.				
	<u>FENCING AND GATES</u>				
	<u>Clear view fusion bonded high density anti-climbing, anti-cut pressed galvanised mesh panel, aperture size 76,2 x 12mm and reinforcing V-section ribs, bolted with vandal resistant bolts and clamping plates to galvanised 85 - 45mm Taper locking post including Locking Recess Mechanism at 3,150m centres with sealed end caps and 30 x 3mm x 250mm long angle section base anchors with posts bedded in 15MPa concrete bases size 400 x 400 x 600mm deep with bitumen coated and marine fusion bonded 400mm Clear view underdig, all to Manufacturer's specification.</u>				

	Fencing			
31	2 400mm high fencing	m	170	
32	Extended post for flat wrap	No	87	
33	Vehicular gate size 6 500 x 2 400mm, double leaf swing	No	1	
	Carried to summary			
SUMMARY OF SCHEDULES				
1	PRELIMINARY AND GENERAL	Bill no	1	
2	DEMOLITIONS	Bill no	1	
3	EARTHWORKS	Bill no	2	
4	CONCRETE, FORMWORK AND REINFORCEMENT	Bill no	3	
5	MASONRY	Bill no	4	
6	EXTERNAL WORKS	Bill no	5	
	SUB - TOTAL			
	ADD VAT @ 15%			
	CARRIED TO FORM OF TENDER			