

Item No	Quantity	Rate	Amount
<u>SECTION 1</u>			
<u>BILL NO.1</u>			
<u>PRELIMINARIES</u>			
<u>PRELIMINARIES</u>			
1			
Site Establishment			
F:..... V:..... T:.....			
	Item		
2			
Supervision			
F:..... V:..... T:.....			
	Item		
3			
Safety and security			
F:..... V:..... T:.....			
	Item		
4			
Plant and equipment			
F:..... V:..... T:.....			
	Item		
5			
Enclosure of the works			
F:..... V:..... T:.....			
	Item		
6			
Temporary Services: Water			
F:..... V:..... T:.....			
	Item		
Carried Forward			R
PROVISIONAL BILLS OF QUANTITIES			

	Brought Forward			R
7	Temporary Services: Electricity F:..... V:..... T:.....			
		Item		
8	Temporary Services: Telecommunications F:..... V:..... T:.....			
		Item		
9	<u>LOCAL LABOUR</u> It is a general requirement of this contract that persons normally resident in the locality of the works (local labour) be given preference for employment on the contract. Provided, however, that should adequate and appropriate labour not be available within the locality, other may be employed subject to satisfactory proof being provided that every reasonable endeavour has been made to employ local labour. The Contractor shall identify the local community leaders with the purpose of negotiating with them regarding the utilization of local labour in the construction process. In this regard, the Contractor shall furthermore give preference, wherever possible to the employment of single heads of households, women and youth. The Contractor shall, in general, maximize the involvement of the local community. F:..... V:..... T:.....			
		Item		
10	Occupational Health and Safety Act No. 85 of 1993 Bidders are to allow for costs in providing and implementing a "Construction Phase Safety, Health and Environmental Plan". Bidders are further reminded that it is their responsibility to amend their safety plan if the assessed risk of the work changes in the slightest manner. F:..... V:..... T:.....			
		Item		
	Carried Forward			R
	PROVISIONAL BILLS OF QUANTITIES			

**THE MVULA TRUST
KZN - SAFE BATCH 3
OMITTED SCOPE - CLUSTER FIFTEEN
MKATSHANA JUNIOR SECONDARY SCHOOL**

Brought Forward		R
11	SUB-TOTAL: FIXED ITEMS	Item
12	SUB-TOTAL: VALUE-RELATED ITEMS	Item
13	SUB-TOTAL: TIME-RELATED ITEMS	Item
Carried to Summary		R
PROVISIONAL BILLS OF QUANTITIES		

Brought Forward				R
<u>BILL NO. 2</u>				
<u>METALWORK</u>				
<u>MODEL PREAMBLES</u>				
The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates				
<u>MANHOLE COVER LOCKS.</u>				
3	Galvanized manhole cover locks	No	18	
<u>PADLOCKS</u>				
4	Supply 50 mm Galvanized "Viro" Padlocks and Keys (or equal approved)	No	18	
5	Supply 75 mm Galvanized "Viro" Padlocks and Keys (or equal approved)	No	7	
<u>BILL NO. 3</u>				
<u>PAINTWORK</u>				
<u>MODEL PREAMBLES</u>				
The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates				
Carried Forward				R
PROVISIONAL BILLS OF QUANTITIES				

Brought Forward			R
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Trade Names</u>			
Where trade names are specified it will read "or equal approved"			
<u>Epoxy paint</u>			
The product and its methodology for application must be approved by Principal Agent before it is used.			
Contractor must prepare a 1m x 1m sample in the presence of the Principal Agent. In this case, the Contractor must give at least 48 hours notice prior to the date when the application of the epoxy paint is intended to be done.			
Contractor to provide a Letter of Compliance confirming that epoxy paint has been applied as per Manufacturer's instructions and data sheet. Proof of payment for the epoxy paint must be provided to the Principal Agent once approval has been granted.			
<u>EPOXY FLOOR PAINT</u>			
<u>Scrub surface with degreaser, rinse thoroughly with tap water, and apply one coat sealer and two coats epoxy paint on:</u>			
6	Concrete floated or screeded floors	m2	107
7	Granolithic skirting not exceeding 300mm girth.	m	214
Carried Forward			R
PROVISIONAL BILLS OF QUANTITIES			

	Brought Forward			R
	<u>PAINTWORK ETC TO EXISTING WORK</u>			
	<u>ON FLOATED PLASTER</u>			
	<u>Prepare surfaces and remove all loose material, apply one coat Merit Plaster Primer and plaster primer and two coats "Plascon Gloss Enamel " or equal Architect approved emulsion paint for interior use</u>			
8	On internal walls	m2	55	
	<u>BILL No. 4</u>			
	<u>GLAZING</u>			
	<u>MODEL PREAMBLES</u>			
	The tenderer is referred to the "Model Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Proprietary products in descriptions:</u>			
	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.			
	<u>TOPS, SHELVES, DOORS, MIRRORS, ETC.</u>			
	<u>6mm Silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete:</u>			
9	Mirror 450 x 450mm high with four screws.	No	12	
	Carried to Summary			R
	PROVISIONAL BILLS OF QUANTITIES			

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OMITTED SCOPE - CLUSTER FIFTEEN
MKATSHANA JUNIOR SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION 3</u>			
	<u>BILL NO. 1</u>			
	<u>EXTERNAL WORKS</u>			
	<u>THE FOLLOWING IN EXISTING WALKWAYS, RAMPS, ETC.</u>			
	<u>Kerbing</u>			
1	Fig. 12 kerb size 75 x 150mm high overall, laid in lengths not exceeding 1000mm on a well rammed earth bottom or base course.	m	91	
2	Ditto but circular on plan.	m	10	
	<u>THE FOLLOWING IN ACCESS DRIVEWAY, ETC.</u>			
	<u>Excavation not exceeding 2m deep</u>			
3	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	12	
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>			
4	Off site to a dumping site to be found by the Contractor.	m3	12	
	<u>Selected earth supplied by the Contractor including haulage (material to comply with $P_i < 10$ GM = 1.2)</u>			
5	Over site of Selected Subgrade G7 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	6	
	Carried Forward		R	
	PROVISIONAL BILLS OF QUANTITIES			

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Brought Forward			R
6	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density. <u>Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:</u>	m3	6
7	Under floors,etc. <u>Prescribed density tests on filling:</u>	m2	40
8	In-situ dry density test. <u>Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:</u>	No	1
9	Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.	m2	40
<u>THE FOLLOWING IN RETAINING WALLS, ETC.</u>			
<u>Excavation in earth not exceeding 2m deep</u>			
10	Trenches. <u>Risk of collapse of excavations:</u>	m3	18
11	Sides of trench and hole excavations not exceeding 1,5m deep. <u>Keeping excavations free of water:</u>	m2	60
12	Keeping excavations free of all water other than subterranean water. <u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>	Item	
13	Off site to a dumping site to be found by the Contractor.	m3	10
Carried Forward			R
PROVISIONAL BILLS OF QUANTITIES			

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Brought Forward			R
	<u>Filling with approved clean, hard, dry decomposed dolerite filling supplied and carted onto site by the Contractor, compacted to a density of at least 95% Mod. AASHTO maximum density:</u>		
14	Behind walls with selected backfilling supplied by the Contractor compacted to 98% Mod ASSHTO density	m3	30
	<u>Compaction of surfaces</u>		
15	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 90% Mod AASHTO density.	m2	30
	<u>15Mpa/19mm Concrete</u>		
16	Surface blinding under footings and bases.	m3	2
	<u>30Mpa/19mm Concrete</u>		
17	Strip footings.	m3	9
18	Cavity walls.	m3	7
	<u>Test blocks:</u>		
19	Making and testing set of three 150x150x150mm concrete strength test cubes.	No	2
	<u>Fabric reinforcement:</u>		
20	REF. 193 fabric reinforcement in concrete infill, strip footings.	m2	72
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:</u>		
21	330mm thick cavity brick Walls made of two leafs of 110mm wall with 110mm mesh reinforced concrete fill (concrete and reinforcement elsewhere measured).	m2	72
Carried Forward			R
PROVISIONAL BILLS OF QUANTITIES			

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Brought Forward			R
	<u>Brickwork reinforcement:</u>		
22	230mm Wide reinforcement built in horizontally.	m	175
	<u>"Rustgold FBS" clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2:</u>		
23	Extra over brickwork for face brickwork externally.	m2	72
	<u>Brick-on-edge header course copings, sills, etc, of "Corobrik Firelight Travertine Imperial FBX" or equal Architect approved clay face brick size 222 x 106 x 73mm, pointed with recessed joints on all exposed faces:</u>		
24	220mm Wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	60
	<u>Openings in Walls etc.</u>		
25	Leave or form 32mm weephole through one brick wall	No	20
	<u>Membranes</u>		
26	"Geofabric filter blanket wrapped around stone with 150mm side and 300mm end laps, including stitching.	m2	72
	<u>Earth filling 300 x 300mm section of 20mm thick stone material surrounding 110mm uPVC pipe, supplied by the contractor compacted to 98% Mod AASHTO density:</u>		
27	20mm Stone.	m3	5
<u>THE FOLLOWING IN LANDSCAPING</u>			
	<u>Ground preparation:</u>		
28	Cultivation and preparation of areas to be planted.	m2	190
Carried Forward			R
PROVISIONAL BILLS OF QUANTITIES			

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Brought Forward			R
<u>Topsoil, compost, lime and fertilizer:</u>			
29	Topsoil supplied by the Contractor in plant beds, grassed areas and holes for trees, shrubs, etc.	m3	29
30	Fertilize garden soil with 3:2:1 super phosphate spread at a rate of 1kg/10m2 including working evenly into top 20mm depth of soil.	m2	190
<u>Grassing, ground covers, etc</u>			
31	"Kikuyu" roots in rows at 250mm centres	m2	190
<u>Pebble covering</u>			
32	White covering of pebbles varying from 10mm to 30mm diameter	m2	190
<u>Maintenance Period:</u>			
33	Maintenance of grassed and ground covered areas for a period of 3 months (total area approximately 190m2) including regularly weeding and irrigating as necessary.	Item	
<u>THE FOLLOWING IN STORMWATER DRAINAGE, ETC.</u>			
<u>STORMWATER APRONS</u>			
<u>Filling supplied by the contractor under concrete pavement, etc</u>			
34	G7 Base course material compacted to 98% Mod AASHTO density	m3	2
35	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	2
Carried Forward			R
PROVISIONAL BILLS OF QUANTITIES			

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Brought Forward			R
<u>Coarse river sand filling supplied by the contractor:</u>			
36	Under floors etc.	m3	1
<u>Compaction of surfaces:</u>			
37	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 90% Mod AASHTO density.	m2	14
<u>Prescribed density tests on filling:</u>			
38	In-situ dry density test.	No	1
<u>Reinforced 25Mpa/19mm Concrete:</u>			
39	Surface beds cast in panels on waterproofing.	m3	1
<u>Finishing top surfaces of concrete smooth with a wood float:</u>			
40	Surface beds, slabs, etc to falls and currents.	m2	14
<u>Test blocks:</u>			
41	Making and testing set of three 150x150x150mm concrete strength test cubes.	No	1
<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>			
42	12mm Joints not exceeding 300mm high.	m	5
<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>			
43	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	16
Carried Forward			R
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Brought Forward			R
	<u>Fabric reinforcement:</u>		
44	REF. 193 fabric reinforcement in concrete surface beds, slabs, etc.	m2	14
	<u>Waterproofing under Surface beds</u>		
45	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	14
	<u>STORMWATER CHANNELS</u>		
	<u>Cast in-situ Ref 395 mesh reinforced concrete (25MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in 3:1 cement plaster trowelled smooth and with angles rounded, cast in suitable lengths not exceeding 1.8m, including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in 3:1 cement mortar. Concrete apron to be tinted, colour to be specified by the Engineer.</u>		
46	700 x 150mm V' channel 75mm deep in centre laid in position in ground in 1800mm sections including all excavations, imported filling (G5), ramming, trimming, formwork, reinforcement, expansion joints, floating etc.	m	5
47	Extra for 700mm angle	No	1
48	Extra for forming 200mm thick 700mm wide spreader with 200mm high edges fanning out to 1 960mm width at furthest end with hard burnt bricks pitching cast in ass diffusers including working off concrete to a smooth finish and draining onto natural ground with 150 - 200mm diameter loose stones.	No	1
Carried Forward			R
PROVISIONAL BILLS OF QUANTITIES			

Brought Forward			R
<u>THE FOLLOWING IN SUB-SOIL DRAINAGE, ETC.</u>			
<u>Site Clearance, ETC</u>			
49	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	10
<u>Excavation in earth not exceeding 2m deep:</u>			
50	Trenches.	m3	8
<u>Extra over all excavations for carting away:</u>			
51	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	3
<u>Risk of collapse of excavations:</u>			
52	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	24
53	Ditto, but from ground level to exceeding 1,5m.	m2	3
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>			
54	Backfilling to trenches, holes, etc.	m3	5
<u>Earth filling 300 x 300mm section of 20mm thick stone material surrounding 110mm uPVC pipe, supplied by the contractor compacted to 98% Mod AASHTO density:</u>			
55	20mm Stone.	m3	1
<u>Membrane</u>			
56	""Geofabric filter blanket wrapped around stone with 150mm side and 300mm end laps, including stitching.	m2	3
Carried Forward			R
PROVISIONAL BILLS OF QUANTITIES			

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Brought Forward			R
	<u>Keeping excavations free of water:</u>		
57	Keeping excavations free from mud and all water including subterranean sources.	Item	
	<u>Compaction of surfaces</u>		
58	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 90% Mod AASHTO density.	m2	10
	<u>SOIL DRAINAGE</u>		
	<u>110mm Diameter perforated uPVC pipe surrounded with 300 x 300mm section of 20mm stone wrapped in A3 geotextile material.</u>		
59	110mm uPVC pipe.	m	10
	<u>Extra for:</u>		
60	110mm Tee.	No	3
61	110mm Y junction.	No	3
	<u>HEADWALLS</u>		
62	Excavation not exceeding 2m deep.	m3	4
63	Risk of collapse not exceeding 1,5m deep	m2	21
64	Keeping excavations free from water	Item	
65	Carting away surplus excavated material	m3	2
66	150mm layer of G7 material compacted to 95% MOD AASHTO under Concrete slab.	m3	1
Carried Forward			R
PROVISIONAL BILLS OF QUANTITIES			

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	Brought Forward			R
67	150mm layer of G5 material compacted to 95% MOD AASHTO under Concrete slab.	m3	2	
68	25Mpa/19mm Reinforced concrete in bottom slabs and footings.	m3	2	
69	Formwork to edges, risers, ends and reveals not exceeding 300mm wide or high.	m	5	
70	Weld Mesh Ref 193 in Concrete bottom slab.	m2	8	
71	One brick wall of 14 MPa NFX bricks.	m2	7	
72	230mm Wide reinforcement built in horizontally.	m	14	
73	Extra over brickwork for face brickwork externally.	m2	12	
74	Gabion mattress comprising of 20 to 30mm stones wrapped in A3 geotextile with voids filled with 1:3 cement/sand mortar.	m2	12	
<u>THE FOLLOWING IN SECURITY FENCING, ETC</u>				
<u>Site clearance</u>				
75	Allow for clearing site for the width of 1 000 mm where fencing is to be erected including removing trees, shrubs etc. not exceeding 200 mm girth, grubbing up roots and roughly levelling.	m2	40	
<u>Straining wires, fencing and razor wire:</u>				
76	Four strands of 4 mm galvanised straining wires secured to fencing posts with doubled 2 mm galvanised wire inserted through hole in post and turned a minimum of four turns around straining wire and attached to straining frame at one end with not less than four turns at the other end to straining bolts (elsewhere measured).	m	40	
77	3 Strands of galvanised barbed wire tied to standards, posts and eye bolts	m	40	
Carried Forward				R
PROVISIONAL BILLS OF QUANTITIES				

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Brought Forward			R
78	Fencing formed of 100 x 50 x 2.5mm diameter galvanised fencing 1 800mm high and fixed to each straining wire with 8 guage binding wire at 500mm centres (straining wires elsewhere measured).	m	40
	<u>Posts for 1 800mm high security fence:</u>		
79	60 mm Diameter galvanised steel intermediate fencing post 1800mm long fitted with a pressed steel mushroom cap one end and 150 x 150 x 5 mm baseplate at bottom and embedded in and including 350 x 350 x 600 mm mass concrete (15 MPa) base.	No	13
80	100 mm Ditto as corner post, fitted with two 50mm diameter galvanised steel stay set raking and with top end flattened and bolted through post, with post and stay both embedded in mass concrete (15 MPa) bases as last.	No	4
81	150mm Ditto as gate post 1 800mm long, fitted with two 50mm diameter galvanised steel stay set raking and with top end flattened and bolted through post, with post and stay both embedded in mass concrete (15 MPa) bases as last.	No	4
82	12 mm Diameter galvanised mild steel straining eye bolt with hook, threaded portion and two nuts and washers.	No	13
83	Form 12mm diameter hole through fence post.	No	8
Carried Forward			R
PROVISIONAL BILLS OF QUANTITIES			

Brought Forward			
	<u>Gates:</u>		
84	Security fence single gate, size 1 000 mm wide x 1 800 mm high, formed of 50 mm diameter nominal bore x 3,25 mm wall thickness hot dip galvanised mild steel pipe framing all round with mitred and welded angles and cross braces mullion and transome, scribed and welded into angles and at cross intersections, with two 50 mm diameter nominal bore x 3,25 mm wall thickness security posts each 600 mm long with one end welded to top rail of gate and closure plate to other end, the gate covered with 100 x 50 x 2,5 mm weld mesh with four straining wires as before described and with four 2,37 mm four point core diameter single "kampeon" wires with crimped droppers to security posts as before described; including three strands flat wrap razor barbed tape wire fixed as before described, leaf fitted with three 24 mm diameter x 300 mm long eyebolt hinges and stops including all holes, etc., welded or bolted to adjoining galvanised gatepost with and including 500 mm long approved chain spot welded to gate	No	1
85	Two leafed vehicular swing gate. Size 5500mm x 1800mm high.	No	1
	<u>PADLOCKS</u>		
86	Supply 50 mm "Viro" Padlocks and Keys (or equal approved)	No	2
Carried to Summary			
PROVISIONAL BILLS OF QUANTITIES			

THE MVULA TRUST
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Bill No	<u>FINAL SUMMARY</u>	Page No	Amount
1	PRELIMINARIES	3	
2	BUILDING WORKS	7	
3	EXTERNAL WORKS	19	
	<u>SUB-TOTAL EXCLUDING VAT</u>		R
	ADD 15% VALUE ADDED TAX		R
	<p style="text-align: right;">Carried to Form of Offer and Acceptance</p> PROVISIONAL BILLS OF QUANTITIES		R