

BILL NO. 2

Item No.	Description	Unit	Qty	Rate	Amount Excluding VAT
<u>SCHEDULE No. 2</u>					
<u>EARTHWORKS (PROVISIONAL)</u>					
Tenderers are advised to study the "Model Preambles for Trades 1999" before pricing this schedule.					
<u>SUPPLEMENTARY PREAMBLES</u>					
<u>Nature of ground</u>					
No soil investigation is available.					
<u>Carting away of excavated material</u>					
Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site.					
<u>Subterranean water</u>					
No information regarding subterranean water is available. The contractor must acquaint himself of the presence and depth of subterranean water and allow therefore in his rates.					
<u>Prices</u>					
Prices for all filling and carting away of surplus materials must make allowance for bulking.					
<u>Carting away of excavated material</u>					
Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site					
<u>DEMOLITIONS ETC</u>					
2.1	<u>Breaking up and removing</u>				
2.1.1	85mm thick concrete surface beds, paving, etc	m ²	1	28.39	28.39
				-	
2.1.2	100mm thick concrete surface beds, paving, etc	m ²	1	32.75	32.75
				-	
2.1.3	150mm thick concrete surface beds, paving, etc	m ²	1	49.13	49.13
				-	
2.1.4	85mm thick mesh reinforced concrete surface beds, paving, etc	m ²	1	32.75	32.75
				-	
2.1.5	100mm thick mesh reinforced concrete surface beds, paving, etc	m ²	1	36.03	36.03
				-	
2.1.6	150mm thick mesh reinforced concrete surface beds, paving, etc	m ²	1	53.50	53.50
				-	
2.1.7	60mm thick brick paving with mortar joints	m ²	1	21.84	21.84
				-	
2.1.8	80mm thick brick paving with mortar joints	m ²	1	22.93	22.93
				-	

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2.1.9	300 x 300 x 30mm thick paving	m ²	1	22.93	22.93
2.1.10	230 x 75mm concrete kerb	m	1	13.10	13.10
2.1.11	300 x 150mm half-battered concrete kerb	m	1	18.56	18.56
2.1.12	280 x 180 x 140mm mountable concrete kerb	m	1	18.56	18.56
2.1.13	300 x 200 x 100mm mountable concrete kerb	m	1	18.56	18.56
2.1.14	230 x 110mm brick kerb with mortar joints	m	1	5.46	5.46
2.2	<u>Take down and removing</u>			-	-
2.2.5	Steel palisade, round bar, square tube, etc. gate size 813 x 2032mm high	no	1	114.64	114.64
2.2.6	Steel palisade, round bar, square tube, etc. gate size 1200 x 2032mm high	no	1	114.64	114.64
2.2.7	Steel sliding palisade, round bar, square tube, etc. gate size 6000 x 1800mm high	no	1	267.49	267.49
2.2.8	Steel two leaf palisade, round bar, square tube, etc. gate size 6000 x 1800mm high	no	1	267.49	267.49
2.2.9	Steel burglar gates, screens, etc. size 813 x 2032mm high	no	1	114.64	114.64
2.2.10	Steel burglar gates, screens, etc. size 1626 x 2032mm high	no	1	229.28	229.28
2.2.11	Steel two leaf palisade, round bar, square tube, etc. fence panel size 3000 x 1800mm high	no	1	136.48	136.48
2.2.12	Diamond mesh fence 2,1m high with flat wrap razor wire fixed to top and bottom and 750mm high overall with steel post and droppers	m	1	25.11	25.11
2.2.12a	Diamond mesh fence 1.2 m high formed of 50mm mesh chain link netting 2.5 mm diameter galvanised mild steel wire stained and secured to top and bottom rails and posts	m	1	13.10	13.10
2.2.13	Half brick, precast, etc. boundary or yard wall 1,8m high	m	1	141.93	141.93
2.2.14	One brick boundary or yard wall 1,8m high	m	1	259.85	259.85
2.2.15	Steel Palisade fencing not exceeding 2400mm high	m	1	32.75	32.75
2.2.16	Concrete Palisade fencing not exceeding 2400mm high	m	1	49.13	49.13
2.2.17	Wooden picket fence 1500mm high	m	1	15.29	15.29
	<u>SITE CLEARANCE, ETC.</u>			-	-
	<u>User Note</u>			-	-
	Where the value is of significance, the removal of hedges, etc. shall be given separately in meters or in number			-	-

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Item No.	Description	Unit	Qty	Rate	Amount Excluding VAT
2.3	<u>Site clearance</u>			-	
				-	
2.3.1	Dig up and remove rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush etc.	m ²	1	8.73	8.73
				-	
2.3.1a	Dig up and remove contaminated rubbish, debris	m ³	1	123.60	123.60
				-	
2.3.2	Strip average 150mm. thick layer top soil and stockpile on site where directed	m ²	1	22.93	22.93
				-	
2.3.3	Rip, scarify and compact ground 150mm average	m ²	1	22.93	22.93
				-	
2.3.4	Carting away rubble up to 5km radius (to dumping area, return distance not covered)	m ³	1	66.95	66.95
				-	
2.3.5	Overhaul exceeding 5km limited overhaul to dumping area, return distance not covered	m ³ -km	1	13.65	13.65
				-	
	<u>REMOVAL OF TREES, ETC.</u>			-	
				-	
2.4	<u>Taking out and removing, grubbing up roots and filling in holes</u>			-	
				-	
2.4.1	Tree stump exceeding 200mm. and not exceeding 500mm. girth	no	1	1 419.34	1 419.34
				-	
2.4.2	Tree stump exceeding 500mm. and not exceeding 1000mm. girth	no	1	2 074.42	2 074.42
				-	
2.4.3	Tree stump exceeding 1000mm. and not exceeding 2000mm. girth	no	1	3 002.45	3 002.45
				-	
2.4.4	Tree stump exceeding 2000mm. and not exceeding 3000mm. girth	no	1	3 930.48	3 930.48
				-	
2.5	<u>Cutting down and removing, grubbing up roots and filling in holes including importing filling where required</u>			-	
				-	
2.5.1	Hedge not exceeding 1500mm high	m	1	22.93	22.93
				-	
2.5.2	Hedge exceeding 1500mm high and not exceeding 2500mm high	m	1	30.57	30.57
				-	
2.5.3	Tree exceeding 200mm. and not exceeding 500mm. girth	no	1	1 632.24	1 632.24
				-	
2.5.4	Tree exceeding 500mm. and not exceeding 1000mm. girth	no	1	2 385.58	2 385.58
				-	
2.5.5	Tree exceeding 1000mm. and not exceeding 2000mm. girth	no	1	4 520.05	4 520.05
				-	
2.5.6	Tree exceeding 2000mm. and not exceeding 3000mm. girth	no	1	11 858.86	11 858.86
				-	
	<u>Cutting of tree excluding tree stump and carting away off site</u>			-	
				-	
2.5.7	Tree exceeding 200mm. and not exceeding 500mm. girth	no	1	1 182.78	1 182.78
				-	
2.5.8	Tree exceeding 500mm. and not exceeding 1000mm. girth	no	1	1 728.68	1 728.68
				-	
2.5.9	Tree exceeding 1000mm. and not exceeding 2000mm. girth	no	1	2 502.04	2 502.04
				-	
2.5.10	Tree exceeding 2000mm. and not exceeding 3000mm. girth	no	1	3 275.40	3 275.40
				-	
	<u>BULK EXCAVATION, FILLING, ETC.</u>			-	
				-	

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Item No.	Description	Unit	Qty	Rate	Amount Excluding VAT
	<u>User Note</u>			-	
	<i>This section is given as an alternative option and in the event of it being utilised, the excavation, filling, etc other than bulk is to be given in the later section under the appropriate heading</i>			-	
	<i>If this alternative is not utilised, then all excavations, etc (bulk and otherwise) is to be given in the later section under the appropriated heading</i>			-	
	<u>EXCAVATION, FILLING, ETC.</u>			-	
2.6	<u>Open face excavations in earth over sloping site</u>			-	
2.6.1	Open face excavations	m ³	1	53.50	53.50
2.7	<u>Excavation in earth not exceeding 2m. deep</u>			-	
2.7.1	Reducing levels under floors	m ³	1	69.88	69.88
2.7.2	Trenches.	m ³	1	80.79	80.79
2.7.3	Holes	m ³	1	80.79	80.79
2.7.4	Trenches and holes for thickening under surface beds etc.	m ³	1	69.88	69.88
	<u>Hand excavation to expose existing services where ordered by the Engineer / QS</u>			-	
2.7.5	In Soft material	m ³	1	131.02	131.02
2.7.6	In Intermediate material	m ³	1	152.85	152.85
2.7.7	In Hard material	m ³	1	414.88	414.88
2.8	<u>Extra over Blasting of trench and hole excavations in earth for excavation in</u>			-	
2.8.1	Soft rock.	m ³	1	467.29	467.29
2.8.2	Hard rock.	m ³	1	1 087.43	1 087.43
2.8.3	Back excavation in earth for working space for excavation in soft rock	m ²	1	120.10	120.10
2.9	<u>Extra over excavations in earth for breaking up and removing</u>			-	
2.9.1	Brickwork	m ³	1	296.97	296.97
2.9.2	Unreinforced concrete	m ³	1	296.97	296.97
2.9.3	Reinforced concrete	m ³	1	595.03	595.03
2.10	<u>Extra over all excavations for carting away</u>			-	
2.10.1	Surplus material from excavations and /or stock pile on site to a dumping site to be located by the contractor (up to a radius of 5km - return distance not covered)	m ³	1	45.86	45.86

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Item No.	Description	Unit	Qty	Rate	Amount Excluding VAT
2.10.2	Overhaul exceeding 5km limited overhaul to dumping area, return distance not covered	m ³ -km	1	13.65	13.65
2.11	<u>Risk of collapse of excavations</u>			-	
2.11.1	Sides of trench and hole excavations not exceeding 1,5m deep including keeping excavations free from water	m ²	1	7.64	7.64
2.11.2	Sides of trench and hole excavations exceeding 1,5m deep including keeping excavations free from water.	m ²	1	7.64	7.64
2.11.3	Sides of bulk excavations not exceeding 1,5m deep including keeping excavations free from water	m ²	1	7.64	7.64
2.11.4	Sides of bulk excavations exceeding 1,5m deep including keeping excavations free from water.	m ²	1	10.92	10.92
2.12	<u>Keeping excavations free of water</u>			-	
2.12.1	Keeping excavations free of water other than subterranean water	Item	1	655.08	655.08
2.13	<u>Earth filling obtained from excavations and/or prescribed stock piles on site (not compacted)</u>			-	
2.13.1	Over site	m ³	1	79.70	79.70
2.13.2	Landscape mounds, berms, etc	m ³	1	88.44	88.44
2.14	<u>Earth filling obtained from excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density</u>			-	
2.14.1	Under floors, steps, pavings, etc.	m ³	1	78.61	78.61
2.14.2	Backfill behind retaining walls	m ³	1	82.98	82.98
2.14.3	Backfill to trenches, holes, etc.	m ³	1	82.98	82.98
2.14.4	Over site to make up levels	m ³	1	82.98	82.98
2.14.5	Bedding	m ³	1	82.98	82.98
2.15	<u>Earth filling supplied by the contractor compacted to 95% Mod AASHTO density.</u>			-	
2.15.1	Under floors, steps, pavings, etc.	m ³	1	317.71	317.71
2.15.2	Backfill behind retaining walls	m ³	1	322.08	322.08
2.15.3	Backfill to trenches, holes, etc.	m ³	1	322.08	322.08
2.16	<u>Garden top soil filling obtained from the excavations and/or prescribed stock piles on site</u>			-	
2.16.1	In flower boxes	m ³	1	62.23	62.23
2.16.2	Over site	m ³	1	69.88	69.88

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Item No.	Description	Unit	Qty	Rate	Amount Excluding VAT
2.16.3	Landscape mounds, berms, etc	m³	1	78.61	78.61
2.17	<u>Garden top soil filling supplied by the contractor</u>			-	
2.17.1	In flower boxes	m³	1	502.23	502.23
2.17.2	Over site	m³	1	502.23	502.23
2.17.3	Landscape mounds, berms, etc	m³	1	513.15	513.15
2.18	<u>Coarse river sand filling supplied by the contractor</u>			-	
2.18.1	Under floors etc	m³	1	378.85	378.85
2.18.2	Behind retaining walls	m³	1	384.31	384.31
2.18.3	In floor ducts	m³	1	384.31	384.31
2.19	<u>Hardcore filling</u>			-	
2.19.1	Under floors etc	m³	1	272.95	272.95
2.20	<u>Crusher filling of 19mm stone</u>			-	
2.20.1	Under floors etc	m³	1	517.51	517.51
2.20.2	Behind retaining walls	m³	1	517.51	517.51
2.20.3	In flower boxes	m³	1	515.33	515.33
2.21	<u>Compaction of surfaces</u>			-	
2.21.1	Compaction of ground surface under floors, etc. including scarifying for a depth of 100mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m²	1	13.10	13.10
	<u>TESTS</u>			-	
2.22	<u>Prescribed density test on filling.</u>			-	
2.22.1	"Modified AASHTO density" test	no.	1	315.53	315.53
2.22.2	"Natural California Bearing Ratio" test	no	1	434.54	434.54
2.22.3	"Field Density" test including "Optimum Moisture Content" (four readings per test)	no	1	567.74	567.74
2.22.4	Maximum dry density and optimum moisture content test in accordance with Method A7 of TMH1 (Technical Method of Highways	no	1	567.74	567.74
2.22.5	In situ dry density (sand replacement) test in accprdance with metho A7 of TMH1 (Technican Method of Highwats)	no	1	567.74	567.74
	<u>STONE PITCHING</u>			-	

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Item No.	Description	Unit	Qty	Rate	Amount Excluding VAT
2.23	<u>Stone pitching of approximately 250mm diameter river stones tightly packed including preparation of ground surface under</u>			-	
				-	
2.23.1	250mm thick against sloping banks	m ²	1	339.55	339.55
				-	
2.23.2	250mm thick against sloping banks bedded and jointed in 1:8 cement mortar and pointed with hollow recessed joints	m ²	1	413.79	413.79
				-	
	<u>GABIONS</u>			-	
				-	
2.24	<u>Gabions of Mesh Type 80 with 3mm Class A galvanised wire boxes laced and braced together and filled with broken stone as per Maccaferri SA (Pty) Ltd specifications</u>			-	
				-	
2.24.1	1000mm thick retaining wall of 1000 x 1000 x 1000mm boxes properly bonded	m ³	1	860.34	860.34
				-	
2.24.2	1000mm thick retaining wall of 2000 x 1000 x 1000mm boxes properly bonded	m ³	1	828.68	828.68
				-	
2.25	<u>Reno Mattresses of Mesh Type 60 with 2,7mm Class A galvanised wire boxes laced and braced together and filled with broken stone as per Maccaferri SA (Pty) Ltd specifications</u>			-	
				-	
2.25.1	300mm thick embankment protection of 2000 x 1000 x 300mm mattresses with diaphragm divisions at 1000mm centres butt jointed	m ³	1	1 042.67	1 042.67
				-	
2.25.2	300mm thick embankment protection of 3000 x 1000 x 300mm mattresses with diaphragm divisions at 1000mm centres butt jointed	m ³	1	1 359.29	1 359.29
				-	
	<u>FILTER FABRIC</u>			-	
				-	
2.26	<u>AG 300 Geotextile continuous polyester filament double needle-punched filter fabric with 300 mm laps as per Maccaferri SA (Pty) Ltd specifications</u>			-	
				-	
2.26.1	Under stone filled gabions including preparing ground surface under	m ²	1	24.02	24.02
				-	
2.26.2	Vertically behind stone filled gabion retaining walls	m ²	1	24.02	24.02
				-	
2.26.3	Over stone percolation beds in flower boxes	m ²	1	25.11	25.11
				-	
2.26.4	Around stone filling in sub-soil drain trenches	m ²	1	25.11	25.11
				-	
	<u>SOIL POISONING</u>			-	
				-	
2.27	<u>Weedkillers, Insecticides, etc. Environmentally friendly and SABS approved.</u>			-	
				-	
2.27.1	Under paving, etc	m ²	1	17.47	17.47
				-	
2.27.2	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m ²	1	17.47	17.47
				-	
2.27.3	Bottoms and sides of trenches etc.	m ²	1	17.47	17.47