

## SECTION 1200

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
<b>B1200</b>	<b>GENERAL REQUIREMENTS AND PROVISIONS</b>				
B12.01	Existing Services				
	(a ) Relocation, realigning, removing, replacing, reinstating and protecting of services	Prov Sum			R150 000,00
	(b) Contractor's handling costs, profit and all other charges in respects of Subitems B12.03(a)	%			
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

## SECTION 1300

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
<b>1300</b>	<b>CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS</b>				
13.01	Contractor's general obligations				
	(a) Fixed obligations including full establishment and removal of establishment and all related costs	Lump Sum			R750 000,00
	(c) Time-related obligations	Month	6		
			6		
B13.01	(e) Complying with Environmental Management Plan	Month	6		
B13.02	Quality Control by the Engineer				
	(a) Additional Quality Control tests ordered by the engineer carried out by an independent laboratory, cost of tests not conforming to the specifications shall be borne by the contractor	PC Sum			R200 000,00
	(b) Contractor's handling cost and profit in respect of 13.02(a)."	%	200 000		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

## SECTION 1400

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
<b>1400</b>	<b>HOUSING OFFICES AND LABORATORY FOR THE ENGINEER'S SITE PERSONNEL</b>				
14.01	Office and laboratory accomodation				
	(a) Offices (interior floor space only)	m <sup>2</sup>	12		
	(b) Laboratories (Interior floor space only)	m <sup>2</sup>	20		
	(c) Open concrete working floors, 150mm thick	m <sup>2</sup>	15		
	(d) Roof over open concrete working floors	m <sup>2</sup>	15		
	(e) Ablution units	m <sup>2</sup>	6		
	(f) Stores	m <sup>2</sup>	16		
B14.01	(g) Board room	m <sup>2</sup>	20		
14.02	Office and laboratory furniture				
	(a) Chairs	no	8		
	(c ) High chairs for laboratory	no	4		
	(d) Desks, complete with drawers and locks	no	3		
	(e) Drawing tables	no	1		
	(f) Conference table	no	1		
14.03	Office and laboratory fittings				
	(a) Items measured by number				
	(i) 220/250 volt power points	no	4		
	(ii) 400/231 volt 3-phase power points	no	2		
	(iii) Double 80watt flourescent light with complete fittings	no	2		
	(iv) Wash hand basin complete with taps and drains	no	1		
	(v) Laboratory basins complete with swan-neck taps and drains	no	2		
	(vi) Extractor fan installed complete with own power connection	no	1		
	(vii) Fire extinguishers, 9.0kg all purpose dry powder type. Complete mounted on the wall with brackets	no	1		
	mounted and with own power connection	no	2		
B14.03	(ix) Electric Refrigerators ( <i>minimum 225 Litres</i> )	no	1		
B14.03	(x) Provision of cellular phones	no	2		
	(xi) Provisional sum for the costs of cellular and other charges	Prov Sum			R 8 000,00
	(xii) Handling cost and profit in respect to subitem 14.03 b	%	8 000		
	(xiii) Wi-Fi facilities	No	1		
<b>TOTAL CARRIED FORWARD</b>					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<b>TOTAL BROUGHT FORWARD</b>				
	(xiv) Running costs on Wi-Fi facilities	Months	6		
	(xv) Digital camera with rechargeable batteries	No	1		
	(xvi) A3 Colour Printer ( <i>print, scan, copy &amp; fax</i> )	No	1		
	(xvii) Printer running costs ( <i>paper, catridges &amp;</i>	Month	6		
14.03	(c) Items measured by area				
	(i) Work-benches complete with concrete slab top minimum thickness 75mm (0,5m x 1m each)	m <sup>2</sup>	1		
	(ii) Constant-temperature baths of concrete and/or plastered brick	m <sup>2</sup>	3		
14.07	Rented hotel and other accomodation				
	(a) Provisional sum for providing rented housing, hotel or other accommodation as discribed in clause 14.03(c)(ii)	Prov Sum		80 000	R 80 000,00
	(b) Handling cost and profit in respect to subitem 14.07(a) above	%	80 000		
14.08	Services:				
	(a)Services at offices and laboratories:				
	(i) Fixed Costs	Lump Sum	1	15 000,00	R 15 000,00
	(ii) Running costs	Months	6		
	(c) Services for rented houses	Month	6		
B14.11	Electronic equipment for the Engineer				
	(a) Computer consumables	Prov Sum			R 10 000,00
	(b) Contractor's handling cost in respect of 14.11(a)	%	R 10 000		
<b>TOTAL CARRIED FORWARD</b>					

## SECTION 1500

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
<b>1500</b>	<b>ACCOMODATION OF TRAFFIC</b>				
B15.01	Accommodating traffic	Month	6		
15.03	Temporary traffic-control facilities				
	(a) Flagmen	man-day	400		
	(b) Portable STOP and GO-RY signs	No	4		
			4		
	(d) Road signs, R- and TR- series (900mm dia)	No	4		
	(e) Road signs, TW-series (1200mm wide)	No	4		
B15.03	(f) Delineators TW401/TW402 (800mm x 250mm):				
	(i) Single sided	No	30		
	(ii) Traffic Cones	No	30		
	(i) Moveable barriers ( <i>New Jersey</i> ) Plastic	m	6		
	(j) Two-way communication devices	No	4		
B15.04	by the Engineer				
	(i) Provision of other traffic control measures	Prov Sum			25 000,00
	B15,03(n)(i)	%	25 000		-
<b>TOTAL CARRIED FORWARD</b>					

## SECTION 1700

ITEM	LI	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
<b>1700</b>		<b>CLEARING AND GRUBBING</b>				
17.01	LI	Clearing and grubbing	ha	1		
17.02	LI	Removal and grubbing of large trees and tree stumps:				
		(a) Girth exceeding 1m up to and including 2m	No	6		
		(b) Girth exceeding 2m up to and including 3m	No	4		
17.03	LI	Reclearing of surfaces (on the written instructions of the engineer only)	ha	0,3		
17.05	LI	Cleaning out of hydraulic structures:				
		(a) Pipes with an internal diameter up to and including 750mm	m <sup>3</sup>	35		
		(b) Pipes with an internal diameter exceeding 750mm	m <sup>3</sup>	35		
		(c) Box culverts up to and including 1,5m vertical dimension	m <sup>3</sup>	35		
		(d) Box culverts exceeding 1,5m vertical dimension	m <sup>3</sup>	35		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>						-

## SECTION B1800

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
<b>B1800</b>	<b>DAYWORKS</b>				
B18.01	Personnel during normal working hours				
	(i) Unskilled labour	h	120		
	(ii) Semi-skilled labour	h	120		
	(iii) Skilled labour	h	120		
	(iv) Ganger	h	120		
			120		
B18.03	Plant (Contractor to Specify)				
	(a) Tipper trucks				
	6m <sup>3</sup> capacity	h	120		
	10m <sup>3</sup> capacity	h	120		
	(b) Crane truck (5 ton crane)	h	75		
	(c) TLB loader (55-70kW, 0,5m <sup>3</sup> bucket)	h	75		
	(d) Pneumatic Tyre Rollers (18 Ton)	h	75		
	(f) Compressor and equipment (7m <sup>3</sup> /min)	h	75		
	(g) Concrete mixer (160 litre)	h	100		
	(n) Water Truck (9000 litre)	h	120		
	(o) Rotary Broom	h	60		
	(p) Steel Roller				
	(i) 6ton	h	60		
	(ii) 10ton	h	60		
	(q) Grader	h	60		
	(r ) Excavator	h	60		
	(s) Front End Loader	h	60		
B18.04	Materials				
	(a) Procurement of Materials	PC Sum	1		150 000,00
	(b) Contractor's handling costs, profit and all other charges in respect of subitem B18.04 (a)	%	150 000		
B18.05	Transport				
	(a) LDV (2000cc)	km	150		
	(b) Flatbed truck (5 ton)	km	150		
<b>TOTAL CARRIED FORWARD</b>					

## SECTION 2100

ITEM	LI	DESCRIPTION	UNIT	QTY	AMOUNT R
<b>2100</b>		<b>DRAINS</b>			
21.01	LI	Excavation for open drains:			
		(a) Excavating soft material situated within the following depth ranges below the surface level:			
		(i) 0 m up to 1,5 m	m <sup>3</sup>	1850	
		(ii) Exceeding 1,5m and up to 3m		550	
		(iii) Exceeding 3m and up to 4,5m	m <sup>3</sup>	100	
		(b) Extra over subitem 21.01(a) for excavation in hard material, irrespective of depth	m <sup>3</sup>	300	
21.02	LI	Clearing and shaping existing open drains	m <sup>3</sup>	1500	
21.03	LI	Excavation for subsoil drainage systems:			
		(a) Excavating soft material situated within the following depth ranges below the surface level:			
		(i) 0 m up to 1,5 m	m <sup>3</sup>	300	
		(ii) Exceeding 1,5m and up to 3m	m <sup>3</sup>	195	
		(iii) Exceeding 3m and up to 4,5m	m <sup>3</sup>	55	
		(b) Extra over subitem 21.03(a) for excavation in hard material, irrespective of depth	m <sup>3</sup>	95	
21.04	LI	Impermeable backfilling to subsoil drainage systems	m <sup>3</sup>	225	
21.05	LI	Banks and dykes	m <sup>3</sup>	200	
21.08	LI	Pipes in subsoil drainage systems	m	400	
21.12	LI	Concrete outlet structures, manhole structures, junction boxes and cleaning eyes for subsoil drains			
		(a) Outlet Structures	No	8	
21.13	LI	Concrete caps for subsoil drain pipes	No	9	
21.17		Test flushing of pipe subsoil drains	No	5	
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

## SECTION 2200

ITEM	LI	DESCRIPTION	UNIT	QTY	AMOUNT R
<b>2200</b>		<b>PREFABRICATED CULVERTS</b>			
22.01	LI	Excavation			
		(a) Excavating soft material situated within the following depth ranges			
		(i) 0m up to 1.5 m	m <sup>3</sup>	500	
		(ii) 1.5m up to 3m	m <sup>3</sup>	100	
		(ii) 3m up to 4.5m	m <sup>3</sup>	50	
		(b) Extra over subitem 22.01(a) for excavation in hard material, irrespective of depth	m <sup>3</sup>	50	
22.02	LI	Backfilling			
		(a) Using excavated material	m <sup>3</sup>	300	
		(b) Using imported selected material	m <sup>3</sup>	250	
		(c) Extra over subitems 22.02(a) and (b) for soil cement backfilling (3%)	m <sup>3</sup>	35	
22.03		Concrete pipe culverts			
		(b) On Class B bedding (Class 100D load pipes)			
		(i) 600mm dia.	m	35	
		(ii) 750mm dia.	m	45	
		(iii) 900mm dia.	m	10	
B22.05		Portal and rectangular culverts			
		(b) Without prefabricated floor slabs (Class B)			
		(i) 1.8m x 1.8m	m	60	
		(ii) 2.1m x 2.1m	m	60	
22.06		Extra over items 22.03 and 22.05 for construction for inclined culverts	m	120	
22.07	LI	Cast insitu concrete and formwork			
		(a) In class A bedding, screeds and the encasing for pipes, including formwork			
		(i) Class 30/19 concrete	m <sup>3</sup>	50	
		(ii) Class 15/19 concrete	m <sup>3</sup>	25	
		(b) In floor slabs for portal or rectangular culverts, including formwork, joints and class U2 surface finish			
		(i) Class 30/19 concrete	m <sup>3</sup>	350	
		(ii) Class 15/19 concrete	m <sup>3</sup>	350	
<b>TOTAL CARRIED FORWARD</b>					-

ITEM	DESCRIPTION	UNIT	QTY	AMOUNT
	<b>TOTAL BROUGHT FORWARD</b>			-
	(c) In inlet and outlet structures, skew ends, catchpits, manholes, thrust and anchor blocks, excluding formwork but including class U2 surface finish			
	(i) Class 30/19 concrete	m <sup>3</sup>	85	
	(ii) Class 15/19 concrete	m <sup>3</sup>	85	
	(d) Formwork to concrete under subitem 22,07 (c) above;			
	(i) Vertical formwork for Class F2 surface finish	m <sup>2</sup>	804	
22.08	Concrete backfill for culverts class			
	(i) Class 30/19 concrete	m <sup>3</sup>	40	
	(ii) Class 15/19 concrete	m <sup>3</sup>	15	
22.10	Steel reinforcement			
	(a) Mild steel bars	ton	50	
	(b) High-tensile steel bars	ton	35	
	(c) Welded steel fabric (ref 245)	kg	3 950	
22.11	Dowels for joining old and new concrete	kg	1 000	
22.15	Treating surfaces with epoxy resin for joining new and old concrete	l	30	
B22.18	LI Brickwork			
	(b) 230mm thick	m <sup>2</sup>	198	
22.19	LI Plaster	m <sup>2</sup>	198	
22.23	Service ducts:			
	(a) Ordinary pipes (PVC pipe not exceeding 160mm)	m	150	
22.24	Duct marker blocks (concrete)	No	20	
22.25	Overhaul on excavated material carted to spoil, backfill material (but excluding portland cement in case of soil cement), existing structures demolished and removed to spoil, and removing and relaying and removing and stacking existing prefabricated culverts, for haul in excess of the free-haul distance.	m <sup>3</sup> -km	18 898	
22.26	Hand excavation to determine the positions of existing services	m <sup>3</sup>	150	
22.27	Reinstating trenches crossing roads:			
	(a) Selected layers	m <sup>2</sup>	15	
	(b) Subbase	m <sup>2</sup>	10	
	(c) Base (including prime coat)	m <sup>2</sup>	10	
	(d) Bituminous surfacing (including tack coat)	m <sup>2</sup>	10	
	(e) Kerbing	m	120	
	<b>TOTAL CARRIED FORWARD</b>			-

ITEM	DESCRIPTION	UNIT	QTY	AMOUNT
	<b>TOTAL BROUGHT FORWARD</b>			-
22.28	Prefabricated reinforced-concrete skew end units for concrete culverts constructed at a skew angle (class bedding B)			
	(a ) Pipe Culverts			
	(i) 450mm dia	No	5	
	(ii) 600mm dia	No	5	
	(iii) 900mm dia	No	5	
	(iv) 1200mm dia	No	5	
	(b) Portal Culverts			
	(xiii) 1.8m x 1.8m	No	8	
	(xiv) 2.1m x 2.1m	No	8	
B22.29	Waterproofing of prefabricated culvert joints with 500mm wide strip of bituthene 3000 or an approved equivalent material	m	350	
B22.30	Precast concrete blocks in outlet structures (150 x150 x300mm class 25/19 concrete as shown on drawing)	No	50	
				-

## SECTION 2300

ITEM	LI	DESCRIPTION	UNIT	QTY	AMOUNT R
2300		<b>CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWN PIPES, AND CONCRETE LININGS FOR OPEN DRAINS</b>			
23.01	LI	Concrete kerbing (Class 20/19 concrete)			
		(a) Fig 8c kerb (SABS 927)	m	1060	
		(b) Fig 3 kerb (SABS 927)	m	550	
		(c) Fig 11 kerb (SABS 927)	m	225	
23.03		Concrete chutes			
		Prefabricated class 20/19 concrete chutes downside slopes complete as shown in drawings		60	
23.04	LI	Cast in situ concrete chutes (measured by componets)			
		(a) Concrete (Class 30/19 concrete)	m <sup>3</sup>	50	
		(b) Formwork (Finish)	m <sup>2</sup>	340	
23.05		Inlet, outlet, transition and similar structures			
		(a) Inlet structures for chutes downside slopes, class 30/19 complete as shown on the drawings	No	10	
		(b) Outlet structures for chutes downside slopes with prefabricated concrete blocks, class 30/19	No	10	
23.07	LI	Trimming of excavations for concrete-lined open drains			
		(a) In soft material			
			m <sup>2</sup>	250	
		(b) In hard material	m <sup>2</sup>	25	
23.08	LI	Concrete lining for open drains:			
		(a) Cast in situ concrete lining in drift (Class 30/19 concrete)			
		(i) V-drain	m <sup>3</sup>	200	
		(ii) Trapezoidal drain	m <sup>3</sup>	95	
		(b) Class U2 surface finish to cast in situ concrete			
		(i) V-drain	m <sup>2</sup>	2850	
		(ii) Trapezoidal drain	m <sup>2</sup>	150	
<b>TOTAL CARRIED FORWARD</b>					-

ITEM		DESCRIPTION	UNIT	QTY		AMOUNT R
		<b>TOTAL BROUGHT FORWARD</b>				-
23.09	LI	Formwork to cast in situ concrete lining for open drains (class F2 surface finish):				
		(a) To sides with formwork on the internal face only	m <sup>2</sup>	90		
		(b) To sides with formwork on both internal and external faces (each face measured)	m <sup>2</sup>	150		
		(c) To ends of slabs	m <sup>2</sup>	50		
23.10		Sealed joints in concrete lining of open drain (flexcell and polysulphite or similar approved)	m	480		
23.11		Concrete screed or backfill below chutes (Class 20/19 concrete)	m <sup>3</sup>	20		
23.12	LI	Steel reinforcement:				
		(c) Welded steel fabric ref-193	kg	2350		
23.13	LI	Polyethylene sheeting (0,15mm thick) for concrete-lined open drains	m <sup>2</sup>	4000		
23.14	LI	Cutting bituminous surfacing and pavement layers for concrete kerbing, channeling or concrete lined drains	m	160		
B23.16		Demolition of existing concrete drains	m <sup>3</sup>	5		
B23.17		Concrete edge beam (300mm x 200mm, class 30/19 concrete, U2 surface finish)	m	950		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>						

## SECTION 3300

ITEM	LI	DESCRIPTION	UNIT	QTY	AMOUNT R	
3300		<b>MASS EARTHWORKS</b>				
33.01		<b>Cut and borrow to fill, including free-haul up to 0,5 km:</b>				
		(a) Material in compacted layer thickness of 200 mm and less				
		(i) Compacted to 90% of modified AASHTO density	m <sup>3</sup>	1 000		
		(ii) Compacted to 93% of modified AASHTO density	m <sup>3</sup>	1 000		
		(iii) Eight roller passes compaction	m <sup>3</sup>	500		
		(b) Material in compacted layer thickness exceeding 200 mm				
		(i) Compacted to 90% of modified AASHTO density	m <sup>3</sup>	1 000		
		(ii) Compacted to 93% of modified AASHTO density	m <sup>3</sup>	1 000		
		(iii) Eight roller passes compaction	m <sup>3</sup>	500		
		(c) Rockfill as specified in in clause 3209 (c )	m <sup>3</sup>	100		
		(d) Toes for rock fill embankments (as specified in subcluse	m <sup>3</sup>	200		
		(e ) Pioneer layer (specified in subclause 3307 (c )	m <sup>3</sup>	20		
33.03		Extra over item 33.01 for excavating and breaking down material in:				
		(b) Hard excavation	m <sup>3</sup>	50		
33.04		Cut to Spoil, including free-haul up 0.5km. Material obtained from:				
		(a ) Soft excavation	m <sup>3</sup>	2 500		
		(c) Hard excavation	m <sup>3</sup>	50		
		(d) Boulder excavation class A	m <sup>3</sup>	150		
33.05		Overbreak in hard and boulder class A excavation	m <sup>3</sup>	100		
33.06		Variations in the number of roller passes (applicable to subitems 33.01(a)(iii) and 33.01(b)(iii) and item 33.11):				
		(a ) Vibratory rollers	m <sup>2</sup> -pass	1 000		
		(c) Grid rollers	m <sup>2</sup> -pass	1 000		
33.07		Removal of unsuitable material (including free-haul of 0.5km):				
		(a ) In layer thicknesses of 200mm and less:				
		(i) Stable material	m <sup>3</sup>	100		
		(ii) Unstable material	m <sup>3</sup>	100		
		(b) In layer thicknesses exceeding 200mm :				
		(i) Stable material	m <sup>3</sup>	100		
		(ii) Unstable material	m <sup>3</sup>	100		
33.09		Material bladed to windrow	m <sup>3</sup>	2 000		
33.10		Roadbed preparation and the compaction of material				
		(b) Compaction to 93% of modified AASHTO density	m <sup>3</sup>	375		
33.12		In situ treatment of roadbed:				
		(a ) In-situ treatment by ripping	m <sup>3</sup>	150		
		(b) In-situ treatment by blasting	m <sup>3</sup>	150		
<b>TOTAL CARRIED FORWARD</b>					<b>R</b>	<b>-</b>

ITEM	DESCRIPTION	UNIT	QTY		AMOUNT
<b>TOTAL BROUGHT FORWARD</b>					R -
33.13	Finishing-off cut and fill slopes, medians and interchange areas:				
	(a) Cut slopes	m <sup>2</sup>	1 500		
	(b) Fill slopes	m <sup>2</sup>	1 500		
33.16	Widening of fills as specified in subclause 3307(i) extra over:				
	(a) Item 33.01 (a)	m <sup>3</sup>	100		
	(b) Item 33.01(b)	m <sup>3</sup>	100		
	(c) Item 33.01(c)	m <sup>3</sup>	100		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

## SECTION 3400

ITEM	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (R )
34.00		<b>SECTION 3400 : PAVEMENT LAYERS OF GRAVEL MATERIAL</b>				
34.01		Pavement layers constructed from gravel taken from cut or borrow, including free-haul up to 1,0km:				
		(a) Gravel selected layer compacted to:				
		(ii) 95% of modified AASHTO density (150mm G7 material)	m <sup>3</sup>	750		
		(c) Gravel sub-base (unstabilized gravel) compacted to:				
		(ii) 97% of modified AASHTO density				
		(a) 150mm thick G6 material	m <sup>3</sup>	1250		
			m <sup>3</sup>	1200		
		(g) Gravel shoulder compacted to:				
		(ii) 95% of modified AASHTO density (150mm G5)	m <sup>3</sup>	1950		
34.02		Extra over item 34,01 for excavation of material in:				
		(a) Intermediate excavation	m <sup>3</sup>	100		
		(b) Hard excavation	m <sup>3</sup>	100		
34.03		Pavement layers constructed from gravel layers obtained from existing pavement layers				
		(b) Gravel selected layer compacted to 95% of modified AASHTO density, using:				
		(i) Non-cemented material (150mm thickness)	m <sup>3</sup>	1250		
34.08		Extra over 34,03 for excavating material in existing pavement layers in restricted areas:				
		(a ) Non-cemented material	m <sup>3</sup>	1250		
34.09		Extra over items 34,03 and 34,04 for placing and compacting gravel pavement layers in restricted areas:				
		(a ) Non- cemented material	m <sup>3</sup>	1250		
34.10		Compacting the floors of pavement excavations (5 roller passes) with:				
		(a) Vibratory rollers	m <sup>2</sup>	15000		
		(c) Grid rollers	m <sup>2</sup>	15000		
		(e) Pneumatic-tyred rollers	m <sup>2</sup>	15000		
34.11		Watering the pavement excavation	kl	1000		
3400 /B16.02		Overhaul on material hauled in excess of 1,0 km (ordinary overhaul)	m <sup>3</sup> -km	2000		
B34.14		Pavement layers constructed from gravel obtained from commercial sources including unlimited free overhaul:				
		(a) Gravel sub-base (unstabilized gravel) compacted to:				
		(ii) 97% of modified AASHTO density (150mm thick G5 material)	m <sup>3</sup>	1950		
		(b) Gravel base (unstabilized gravel) compacted to:				
		(ii) 100% of modified AASHTO density (150mm thick G4 material)	m <sup>3</sup>	500		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>						<b>R -</b>

## SECTION 3500

ITEM	LI	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
<b>3500</b>		<b>STABILIZATION</b>				
B35.01		Chemical stabilisation (150mm thick layer) extra over unstabilised compacted layers (subbase layer)				
		(a) 150mm thick layer	m <sup>3</sup>	375		
35.02		Chemical stabilizing agent:				
		(g) Cement CEM IIB-L, class 32.5N	t	100		
35.04		Provision and application of water for curing	kl	1 000		
35.10		Extra over item 35.01 for chemical stabilisation in restricted areas:				
		(a) Mixing in mechanical mixers	m <sup>3</sup>	350		
		(b) In situ mixing	m <sup>3</sup>	2 038		
B35.13		Trial Sections				
		(c) 150mm Subbase layer (Cement stabilized)	m <sup>3</sup>	20		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>						

## SECTION 5100

ITEM	LI	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
5100	LI	<b>PITCHING, STONEMWORK AND PROTECTION AGAINST EROSION</b>				
51,01	LI	Stone Pitching				
		(c) Grouted stone pitching on a concrete bed (100mm thick)	m <sup>2</sup>	3900		
51.03		Stone masonry walls:				
		(b) Cement motared stone walls	m <sup>3</sup>	50		
51,06	LI	Provision of approved herbicide and ant poison				
		(a ) Provision of materials	PC Sum			R 11 700,00
		(b) Contractor's charges and profit added to the prime cost sum	%	11700		
51,07	LI	Foundation trenches	m <sup>3</sup>	975		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>						

## SECTION 5200

ITEM	LI	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
<b>SECTION 5200</b>						
<b>GABIONS</b>						
52,01	LI	Foundations trench excavation and backfilling				
		(a) In solid rock	m <sup>3</sup>	125		
		(b) in all other classes of material	m <sup>3</sup>	450		
52,02	LI	Surface preparation for bedding the gabions	m <sup>2</sup>	400		
<b>Gabions</b>						
52,03	LI	(a) Galvanised gabion boxes with stones (1m x 1m x 1m) 2,7mm nominal diameter	m <sup>3</sup>	2 500		
	LI	(c) Galvanised gabion mattresses (3m x 1m x 0,3m) 2,7mm nominal diameter	m <sup>3</sup>	1 000		
52,04	LI	Filter fabric grade 3	m <sup>2</sup>	200		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>						R -

## SECTION 5400

ITEM	LI	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
<b>5400</b>		<b>GUARDRAILS</b>				
		Guardrails on timber posts				
54.01	LI	(a) Galvanised	m	80		
54.03		Extra over items 54.01 for horizontally curved guard-rails factory bend to a radius less than	m	30		
54.04	LI	End Treatments:				
		(a ) End wings	No	8		
		(c ) Bridge adaptors	No	8		
		(d) End treatments in accordance with the drawings where single guardrail sections	No	8		
54.05	LI	Additional guardrail posts:				
		(a) Timber	No	16		
54.06	LI	Reflective plates	No	130		
54.07	LI	Handrails	m	50		
54.12		Extra over items 54.01 and 54.07 for drilling and blasting holes	No	10,00		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>						

## SECTION 7300

ITEM	LI	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
<b>7300</b>		<b>CONCRETE BLOCK PAVING FOR ROADS</b>				
73.01		Concrete block paving:				
	LI	(a) 25MPa, type S-A 80mm thick interlocking paving blocks laid in herringbone bond, laid in 20mm bedding sand	m <sup>2</sup>	2 950		
		(b) 25MPa, type S-A 60mm block paving	m <sup>2</sup>	1350		
73.02	LI	Cast in situ concrete edge and intermediate beams	m <sup>3</sup>	25		
		poison:				
		(a) Provision of materials	PC Sum	1,00	75000	R75 000,00
		(b) Contractor's charges and profit added to the Prime Cost Sum	%	75 000		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>						

## SECTION C3.6

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
<b>C3.6</b>	<b>GUIDELINES FOR SUBCONTRACTING AND LABOUR ENHANCEMENT</b>				
C3.6.01	Training				
	(a) Technical skills	Prov Sum			R 100 000,00
	(b) Generic Skills	Prov Sum			R 150 000,00
	(d) HIV/AIDS	Prov Sum			R 50 000,00
	(e) Training venue	Prov Sum			R 10 000,00
	(f) Contractor's profit and all other charges				
	(i) Technical skills	%	100 000		R -
	(ii) Generic Skills	%	150 000		R -
	(iv) HIV/AIDS	%	50 000		R -
C3.6.02	Remuneration of the project liason officer				
	(a) Project Liaison officer	PC sum	1		R 130 000,00
	(b ) Contractor's profit and all other charges	%	130 000		R -
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

<b>SUMMARY OF THE SCHEDULE OF QUANTITIES</b>			
<b>SECTION</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>AMOUNT</b>
1200	General requirements and provisions	R	
1300	Contractor's Establishment on Site and General Obligations	R	
1400	Housing, Offices and Laboratory	R	
1500	Accommodation of Traffic	R	
1700	Clearing and Grubbing	R	
1800	Dayworks	R	
2100	Drains	R	
2200	Prefabricated Culverts	R	
2300	Concrete Kerbing, Concrete Channelling, Chutes and Downpipes and Concrete Linings for Open Drains	R	
3300	Mass Earthworks	R	
3400	Pavement Layers of Gravel Material	R	
3500	Stabilisation	R	
5100	Stone Pitching	R	
5400	Gaurdrails	R	
7300	Concrete Block Paving for Roads	R	
C3.6	Guidelines for Subcontracting and Labour Enhancement	R	
<b>SUB-TOTAL 1:</b>		R	
<b>ELECTRICAL WORKS</b>		R	
<b>SUB-TOTAL 2:</b>			
<b>CONTIGENCIES @ 10%</b>		R	
<b>SUB-TOTAL 3:</b>		R	
<b>CPA @ 6%</b>		R	
<b>SUB-TOTAL 4:</b>		R	
<b>VAT @ 15%:</b>		R	
<b>TOTAL AMOUNT OF TENDER CARRIED FORWARD TO FORM OF OFFER</b>		R	