

ITEM No	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RANDS)
<b>12.00</b>	<b><u>GENERAL REQUIREMENTS AND PROVISIONS</u></b>				
B12.01	Services				
	(a) Provisional sum for existing services to be	Prov Sum	1	120 000.00	
	(b) Handling costs and profit in respect of subitem	%	120 000		
B12.02	The setting-out of work and protection of beacons				
	(a) Provisional sum for existing beacons to be relocated and/or protected during construction	Prov Sum	1	10 000.00	
	(b) Handling costs and profit in respect of subitem	%	10 000		
	(c) Removing and installing of Fence and boundary walls, removing and reinstalling of gates as shown on the drawing	Lump Sum	1	450 000.00	
B12.05	Compliance with OHS Act and Regulations	Prov Sum	1	250 000.00	
B12.06	Compliance with Environment Management Act and Regulations (including the construction Regulation 2015)	Prov Sum	1	150 000.00	
	(a) Handling costs and profit in respect of subitem B12.05 and 06 above	%	400 000		
B12.08	<b>Protection or Relocation of Services</b>				
	(a) Protection or relocation of Services	Prov Sum	1	250 000.00	
	(b) Handling cost and profit in respect of subitem (a) above	%	250 000		
	(c) The removal, protection and replacement of services eg. Eskom	Prov Sum	1	300 000.00	
	(d) Handling cost and profit in respect of subitem	%	300 000		
B12.09	Contract Name Boards (as per drawing)	No	2		
B12.30	<b>Remuneration of Community Liaison Officer (CLO)</b>				
	(e) Community Liaison Officer (CLO)	Prov Sum	1	100 000.00	
	(f) Handling cost for (CLO) (e) above	%	100 000		
B12.32	<b>Accredited training</b>				
	(a) Generic skills	Prov Sum	1	300 000.00	
	(b) Handling cost and profit in respect of subitem	%	300 000		
<b>TOTAL CARRIED FORWARD</b>					

ITEM No	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RANDS)
<b>13.00</b>	<b><u>1300: CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS</u></b>				
13.01	<b>The contractor's general obligation:</b>				
	(a) Fixed obligations	Lump Sum	1		
	(b) Value-related obligations	Lump Sum	1		
	(c) Time-related obligations	Month	10		
	(d) Health and Safety obligation	L.Sum	1		
B13.02	<b>Protection or Relocation of Services</b>				
	(a) Protection or relocation of Services	Prov Sum	1	180 000.00	
	(b) Handling cost and profit in respect of subitem (a) above	%	180 000		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

ITEM No	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RANDS)
<b>14.00</b>	<b>HOUSING OFFICES AND LABORATORY FOR THE ENGINEER'S SITE PERSONNEL</b>				
14.01	Office and laboratory accommodation				
	(a) Provisional sum for the office accommodation for the Engineer.	Prov. Sum	1	100000	
	(b) Handling cost and profit in respect of sub-item 14.01(a)	%	100 000		
	(c) Ablution units	m²	4		
14.02	Office and laboratory furniture				
	(a) Chairs	No	10		
	(d) Desks, complete with drawers and locks	No	2		
	(f) Conference tables	No	1		
14.03	Office and laboratory fittings, installations and equipment				
	<b>(a) Items measured by number</b>				
	(i) 220/250 volt power points	No	2		
	(v) Single incandescent light fittings complete with 100 watt globes	No	2		
	(x) Fire extinguishers, 9,0 kg, all purpose dry powder type, complete, mounted on wall with brackets	No	2		
	(xi) Air conditioning units with 2,2 kW minimum capacity, mounted and with own power connection	No	3		
	(xiv) General-purpose steel cupboard with shelves	No	1		
	(xvi) Refrigerators	No	1		
	(xviii) Voltage stabilizers	No	1		
	(xix) Rain gauge	No	1		
	(xxiii) Microwave oven	No	1		
	<b>(b) Prime-cost items and items paid for in a lump sum:</b>				
	(v) The provision of a fax apparatus as specified	PC Sum	1	10000	
	(vi) Handling costs and profit in respect of subsubitem 14.03(b)(v) above	%	10000		
	(ix) Provision of a cellular telephone service, including the running cost of 2 phones and all calls in connection with contract administration	PC Sum	1		
	(x) Handling costs and profit in respect of Subsubitem (ix) above	%	45000		
<b>TOTAL CARRIED FORWARD</b>					

ITEM No	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RANDS)
ITEM No	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RANDS)
<b>TOTAL BROUGHT FORWARD</b>					
	<b>(c) Items measured by area</b>				
	(viii) Notice boards as specified	m <sup>2</sup>	12		
	(d) Provisional sum items				
	(i) Provision for use by the engineer of an independent laboratory	prov sum	1	60000	
	(ii) Handling costs and profit in respect of subitem B14.03(d)(i)	%	60000		
14.04	Car ports				
	Car ports, as specified, at offices and laboratory buildings	No	5		
14.07	Rented, hotel and other accommodation				
	(a) Provisional sum for providing rented housing, hotel or other accommodation as described in subsubclause 1403 (c)(ii)	PC Sum	1	90000	
	(b) Handling cost and profit in respect of subitem 14.07(a)	%	90000		
14.08	Services				
	(a) Services at office and laboratories				
	(i) Fixed costs	Lump	1		
	(ii) Running costs	Month	10		
14.10	Provision of photostat facilities	Month	10		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

ITEM No	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RANDS)
<b>15.00</b>	<b><u>1500: ACCOMMODATION OF TRAFFIC</u></b>				
15.01	<b>Accommodating traffic and maintaining temporary deviations</b>	Lump Sum	1		
15.03	<b>Temporary traffic control facilities</b>				
	(a) Flagmen	man-day	650		
	(b) Portable STOP and GO-RY signs	No	4		
	(e) Road Signs, R and TR Series, fixed in ground:				
	(1) 600 mm dia.	No	10		
	(f) Road Signs, TW-Series, 900mm, fixed in ground	No	10		
	(h) Delineators (DTG50J)				
	(1) Single, 800 mm x 200 mm	No	50		
	(j) Traffic Cones	No	50		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

## SECTION 1700

ITEM No	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RANDS)
<b>1700</b>	<b><u>1700: CLEARING AND GRUBBING</u></b>				
17.01	<b>Clearing and grubbing</b>	ha	3		
17.02	<b>Removal and grubbing of large trees and tree stumps:</b>				
	(a) Girth exceeding 1 m up to and including 2 m	No	8		
	(b) Girth exceeding 2m up to and including 3m	No	8		
	(c) Girth larger than 3m up to and including 4m	No	4		
17.04	Clearing and grubbing at inlets and outlets of hydraulic structures	m³	5		
17.05	<b>Cleaning out of hydraulic structures:</b>				
	(a) Pipes with an internal diameter up to and including 750 mm	m³	Rate Only		Rate Only
	(b) Pipes with an internal diameter exceeding 750 mm	m³	Rate Only		Rate Only
	(c) Box culverts up to and including 1,5m vertical dimension	m³	Rate Only		Rate Only
	(d) Box culverts exceeding 1,5m vertical dimension	m³	Rate Only		Rate Only
B17.07	<b>Removal of topsoil and unsuitable material and stockpiling thereof in:</b>				
	(a) Topsoil in windrows alongside the work area	m³	1130		
	(b) Topsoil in temporary stockpiles after loading into trucks	m³	1130		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

ITEM No	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RANDS)
<b>1800</b>	<b>1800: DAYSWORKS</b>				
<b>B18.01</b>	<b>Personnel during normal working hours</b>				
	(a) Unskilled labour	h	580		
	(b) Semi-skilled labour	h	310		
	(c) Skilled labour	h	150		
	(d) Ganger	h	44		
	(e) Flagman	h	44		
	(f) Foreman	h	44		
<b>B18.02</b>	<b>Equipment</b>				
	(a) Excavator (Komatsu PC300 or similar)	h	200		
	(b) Grader (CAT 140G or similar)	h	40		
	(c) Front-end loader (2m³ bucket)	h	40		
	(d) Pneumatic self-propelled roller (15t)	h	38		
	(e) Vibrating self-propelled roller (min 8t)	h	20		
	(f) Compactor (Wacker BS60Y or similar rammer)	h	24		
	(g) Water cart (9000 lt)	h	24		
	(h) Centrifugal pump (100mm)	h	24		
	(j) 5-7t tip truck	h	80		
	(k) Backhoe loader (Case 580F or similar)	h	80		
<b>B18.03</b>	<b>Materials</b>				
	(a) Procurement of materials	Prov sum	1	45 000.00	
	(b) Contractor's handling costs, profit and all other charges in respect of Subitem B1803 (a)	%	45 000		
<b>B18.04</b>	<b>Transport</b>				
	(a) LDV	km	120		
	(b) Flatbed truck	km	160		
	(c) Low bed" horse & trailer for transporting tracked vehicles"	km	80		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

## SECTION 2100

ITEM No	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RANDS)
<b>2100</b>	<b>DRAINS</b>				
<b>21.01</b>	<b>Excavation for open drains:</b> (a) Excavating soft material situated within the following depth range below the surface level:  (i) 0 m up to 1.5 m	m <sup>3</sup>	4 770		
<b>21.02</b>	<b>Clearing and shaping existing open drains</b>	m <sup>3</sup>	100		
<b>21.19</b>	<b>Selected backfill material under concrete-lined side drains compacted to 93% of modified AASHTO density</b>	m <sup>3</sup>	435.00		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					



ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RANDS)
<b>2200</b>	<b>PREFABRICATED CULVERTS</b>				
<b>B22.01</b>	<b>Excavation:</b>				
	(a) Excavating soft material situated within the following depth ranges below the surface level:				
	(i) 0m up to 1,5m	m <sup>3</sup>	150		
	(b) Extra over subitem 22.01 (a) for excavation in hard material, irrespective of depth	m <sup>3</sup>	5		
	(c) Extra over subitem 22.01 (a) for excavation by hand	m <sup>3</sup>	5		
<b>22.02</b>	<b>Backfilling:</b>				
	(a) Using the excavated material	m <sup>3</sup>	10		
	(b) Using imported selected material	m <sup>3</sup>	23		
	(c) Extra over subitems 22.02 (a) and (b) for soil cement backfilling (3% cement by mass)	m <sup>3</sup>	3		
<b>22.03</b>	<b>Concrete pipe culverts:</b>				
	(a) On class B bedding:				
	(i) 600mm Ø, Type 75D	m	100		
	(ii) 900mm Ø, Type 75D	m	40		
<b>22.07</b>	<b>Cast in situ concrete and formwork:</b>				
	(b) In floor slabs for portal or rectangular culverts, including formwork, joints and class U2 surface finish (30/19)	m <sup>3</sup>	Rate Only		Rate Only
	(c) In inlet and outlet structures, skewed ends, catchpits, manholes, thrust and anchor blocks, excluding formwork but including class U2 surface finish (20/19)	m <sup>3</sup>	38		
	(d) Formwork of concrete under 22.07(c):				
	(i) Formwork for class, F1 surface finish	m <sup>2</sup>	52		
	(ii) Formwork for class, F2 surface finish	m <sup>2</sup>	48		
<b>22.10</b>	<b>Steel reinforcement:</b>				
	(b) High-tensile steel bars	t	5		
	<b>TOTAL CARRIED FORWARD</b>				



ITEM No	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RANDS)
<b>23.00</b>	<b><u>2300: CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES, AND CONCRETE LININGS FOR OPEN DRAINS</u></b>				
<b>23.01</b>	(a) Precast kerbing to SABS 927				
	(i) Figure 8 Kerb (Mountable)	m	2 600		
	(ii) Figure 7 Kerb (semi Mountable)	m	150		
<b>23.02</b>	Concrete kerbing-channeling combination				
	(i) Figure 8 kerb (Mountable) Type C: combined with concrete channel	m	3 674		
<b>B23.08</b>	Concrete lining for open drains				
	(a) Cast in situ concrete lining class 25/19 for all types of open drains	m <sup>3</sup>	635		
	(b) Class U2 surface finish to cast in situ concrete for all types of open drain	m <sup>2</sup>	2 840		
<b>23.09</b>	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>	450		
	(b) To sides with formwork on both internal & external faces (each face measured)	m <sup>2</sup>	450		
	(c) To ends of slabs	m <sup>2</sup>	80		
<b>23.10</b>	Sealed joints in concrete linings of open drains				
	(a) Polysulphide sealants	m	750		
	(b) Soft Board expansion	m	100		Rate Only
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

ITEM No	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RANDS)
<b>33.00</b>	<b><u>3300 : MASS EARTHWORKS</u></b>				
33.01	<b>Cut and borrow to fill, including all haul:</b>  (a) Material in compacted layer thicknesses of 150 mm and less:  (i) Compacted to 90 % of modified AASHTO density	m <sup>3</sup>	5 430		
33.04	<b>Cut to spoil, or temporary stockpile, including all haul. Material material obtained from:</b>  (a) Soft excavation  (b) Intermediate excavation  (c) Hard excavation	m <sup>3</sup> m <sup>3</sup> m <sup>3</sup>	3 500 550 600		
33.10	<b>Roadbed preparation and the compaction of material:</b>  (b) Compaction to 93 % of modified AASHTO density	m <sup>3</sup>	2 680		
<b>33.13</b>	<b>Finishing-off cut and fill slopes, medians and interchange areas:</b>  (a) Cut slopes (b) Fill slopes	m <sup>2</sup> m <sup>2</sup>	3 200 2 100		
33/32.00	Selecting, stockpiling and breaking down the material from borrow pits, cuttings and existing pavement layers and placing and compacting the gravel layers:				
33/32.06	(a) Stockpiling of material  (b) Dump rock for collapsible material	m <sup>3</sup> L/Sum	1000.00 1	500 000.00	
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

ITEM No	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RANDS)
<b>34.00</b>	<b><u>3400: PAVEMENT LAYERS OF GRAVEL MATERIAL</u></b>				
34.01	Pavement layers constructed from gravel from commercial sources				
	<b>(d) 150 mm Gravel subbase layer, G5 material compacted to:</b>				
	(1) 95% of modified AASHTO density	m <sup>3</sup>	3390		
	<b>(f) 150mm Gravel base C4 (chemically stabilised material) compacted to:</b>				
	(1) 97% of modified AASHTO density	m <sup>3</sup>	3945		
34.01	Pavement layers constructed from gravel from cut or borrow, including free-haul up to 1,0km				
	(d) 150 mm Gravel subbase (natural gravel) compacted to:				
	(1) 95% of modified AASHTO density	m <sup>3</sup>	1000		
	(f) 150mm Gravel base (stabilized gravel)(C4) compacted to:				
	(1) 97% of modified AASHTO density	m <sup>3</sup>	1000		
34.02	Extra over item 34.01 for excavation of material in:				
	(a) Intermediate excavation	m <sup>3</sup>	73		
	(b) Hard excavation	m <sup>3</sup>	37		
34.11	Watering the pavement excavation floor				
34/16.00	Overhaul				
34/16.01	Overhaul on material hauled in excess of a free-haul distance of 0.5km, for haul up to or through 1.0km (restricted overhaul)	m <sup>3</sup>	9145		
34/16.02	Overhaul on material hauled in excess of 1.0km (ordinary overhaul)	m <sup>3</sup> -km	84500		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

ITEM No	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RANDS)
<b>35.00</b>	<b><u>3500: STABILIZATION</u></b>				
35.01	<b>Chemical stabilization extra over unstabilized compacted layers</b>				
	(c) Base 150 mm thickness	m <sup>3</sup>	3 945		
35.02	<b>Chemical stabilizing agent:</b>				
	(a) 3% Ordinary portland cement	t	263.7		
35.04	<b>Provision and application of water for curing</b>	kl	6 000		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

ITEM No	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RANDS)
<b>5100</b>	<b>PITCHING, STONework AND PROTECTION AGAINST EROSION</b>				
<b>51.01</b>	<b>Stone pitching:</b>				
	(a) Plain pitching:				
	(1) Method 1	m <sup>2</sup>	Rate Only		Rate Only
	(2) Method 2	m <sup>2</sup>	Rate Only		Rate Only
	(b) Grouted stone pitching	m <sup>2</sup>	1 650		
	(c) Grouted stone pitching on a concrete bed				
	(1) 50 mm thickness	m <sup>2</sup>	Rate Only		Rate Only
	(2) 100 mm thickness	m <sup>2</sup>	Rate Only		Rate Only
	(d) Wired-and-grouted stone pitching	m <sup>2</sup>	Rate Only		Rate Only
51.05	Cast in situ concrete edge beams, class 25/19 concrete				
	(1) 200mm x 300mm	m <sup>3</sup>	90		
	<b><u>RETAINING WALL</u></b>				
	PRECAST CONCRETE				
	Terrace Blocks or Similar approved				
	400 x 200mm Terrace blocks retaining wall	m2	300		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

PAY REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
5200	GABIONS				
52.01	Foundation trench excavation and backfilling:				
	(b) In all other classes of material	m <sup>3</sup>	350.00		
52.02	Surface preparation for bedding the gabions	m <sup>2</sup>	350.00		
52.03	Gabions:				
	(a) Galvanised gabion boxes with 2,7mm Ø wire and of the following sizes:				
	(i) 2.0m x 1.0m x 1.0m long (80mm × 100mm mesh)	m <sup>3</sup>	200.00		
	(ii) 3.0m x 1.0m x 1.0m long (80mm × 100mm mesh)	m <sup>3</sup>	200.00		
	(c) Galvanised gabion mattresses, 0.3m deep with 80mm × 100mm mesh and diaphragms at 1.0m centres and 2.7mm dia mesh wire	m <sup>3</sup>	150.00		
52.04	Filter fabric				
	(i) A2 bidim or similar approved	m <sup>2</sup>	1 000.00		
	TOTAL CARRIED TO SUMMARY				



ITEM No	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RANDS)
<b>56.00</b>	<b><u>SECTION 5600: ROAD SIGNS</u></b>				
56.01	Road sign boards with painted or coloured semi-matt background. Symbols, lettering and borders in semi-matt black or in class 1 retro-reflective material, where the sign board is constructed from:  (c) Prepainted galvanized steel plate (chromadek 1,6 mm thick or equivalent approved):  (i) Area not exceeding 2 m² (ii) Area exceeding 2 m² but not 10m²	m²	60.00 Rate Only		Rate Only
56.02	Extra over item 56.01 for using:  (a) Background of retro-reflective material of:  (i) Class III  (b) Lettering, symbols, numbers and borders of retro-reflective material of:  (i) Class III	m²  m²	28.00  28.00		
56.03	Road sign supports (overhead road sign structures excluded):  (a) 75 mm dia. Steel tubing with wall thickness of 4,5 mm	t	1.00		
56.05	Excavation and backfilling for road sign supports (not applicable to kilometre posts)	m³	15.00		
56.06	Extra over item 56.05 for cement-treated soil backfill	m³	15.00		
<b>B56.10</b>	<b>Danger plates at culverts/structures</b>	No	30.00		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

## SECTION 5700

ITEM No	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RANDS)
<b>57.00</b>	<b><u>5700: ROAD MARKINGS</u></b>				
57.01	<b>Road marking paint:</b>				
	(a) White lines (broken or unbroken)				
	(i) 100 mm wide	km	4.0		
	(ii) 150 mm wide	km	Rate Only		Rate Only
	(iii) 200 mm wide	km	Rate Only		Rate Only
	(b) Yellow lines (broken or unbroken)				
	(i) 100 mm wide	km	Rate Only		Rate Only
	(ii) 200 mm wide	km	Rate Only		Rate Only
	(d) White lettering and symbols	m <sup>2</sup>	180		
	(e) Yellow lettering and symbols	m <sup>2</sup>	Rate Only		Rate Only
	(f) Transverse lines, painted island and arrestor bed markings (any colour)	m <sup>2</sup>	Rate Only		Rate Only
	(g) Kerb markings (any colour)	m <sup>2</sup>	Rate Only		Rate Only
57.06	<b>Setting out and premarking the lines (excluding traffic-island markings, lettering and symbols)</b>	km	4		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

ITEM No	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RANDS)
<b>59.00</b>	<b><u>5900: FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS</u></b>				
59.01	<b>Finishing the road and road reserve:</b>				
	(b) Single carriageway road	km	3		
59.02	Treatment of old roads and temporary deviations	km			Rate Only
59/56.08	Dismantling, storing and re-erecting household fencing	m	400		
59/39.00	<b>PATCHING AND REPAIRING EDGE BREAKS</b>				
59/39.01	Sawing Asphalt or Cemented pavement layers for patching				
	(a) Sawing asphalt to an average depth:				
	(i) Not exceeding 50mm	m <sup>2</sup>	20		
	(b) Sawing cemented pavement layers to an average depth:				
	(i) Not exceeding 50mm	m <sup>2</sup>	20		
	(ii) Exceeding 50mm but not exceeding 100mm	m <sup>2</sup>	20		
59/39.02	Excavation in existing pavements for patching in:				
	(a) Asphalt layers	m <sup>3</sup>	40		
	(b) Cemented layers	m <sup>3</sup>	20		
59/39.03	Backfilling of excavations for patching with				
	(a) chemically stabilized pavement material (C4) for a patch with a surface area:				
	(i) Not exceeding 5m <sup>2</sup>	m <sup>3</sup>	20		
	(ii) Exceeding 5m <sup>2</sup> but not exceeding 100m <sup>2</sup>	m <sup>3</sup>	14		
59/39.04	Compacting the floor of excavations for patching	m <sup>2</sup>	60		
59/42.04	Tack coat of 30% stable-grade emulsion	l	30		
59/42.20	Backfilling of excavation for patching with:				
	(b)Asphalt surfacing	t	1.8		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

ITEM No	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RANDS)
<b><u>73.00</u></b>	<b><u>7300: CONCRETE BLOCK PAVING FOR ROADS</u></b>				
<b>73.01</b>	<b>Concrete block paving</b>				
	(a) 80 mm Type S-A grey interlocking paving block, Class 25	m <sup>2</sup>	18200		
	(b) 60 mm Type S-A grey interlocking paving block, Class 25	m <sup>2</sup>	6200		
	<b>Cast in situ concrete edge and intermediate beams</b> class 30/19 concrete (Formwork and clause U2 surface finish included)				
	(i) 200mm x 100mm	m	50		
	(i) 100mm x 100mm	m	200		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

ITEM No	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RANDS)
81.00	<u>8100: TESTING MATERIALS AND WORKMANSHIP</u>				
81.02	Other special tests requested by the engineer				
	(a) Cost of testing	Prov Sum	1	250 000.00	
	(b) Handling cost and profit in respect of subitem (a) above	%	250 000.00		
TOTAL CARRIED FORWARD TO SUMMARY					

UPGRADING OF PENNYWHISTLE & SWAN STREETS - KANYAMAZANE (WARD 20)  
BILL OF QUANTITIES

**SUMMARY (CONSTRUCTION)**

<b><u>COLTO SCHEDULE 1</u></b>	
1200 GENERAL REQUIREMENTS AND PROVISIONS.....	R
1300 CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS.....	R
1400 HOUSING, OFFICES AND LABORATORIES FOR THE ENGINEER'S SITE PERSONNEL.....	R
1500 ACCOMMODATION OF TRAFFIC.....	R
1700 CLEARING AND GRUBBING.....	R
1800 DAYSWORKS.....	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 STABILIZATION .....	R
5100 PITCHING, STONEMASONRY AND PROTECTION AGAINST EROSION.....	R
5200 GABIONS.....	R
5600 ROAD SIGNS .....	R
5700 ROAD MARKINGS.....	R
5900 FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS.....	R
7300 CONCRETE BLOCK PAVING FOR ROADS.....	R
8100 TESTING MATERIALS AND WORKMANSHIP.....	R
<b>TOTAL FOR SCHEDULE 1</b>	<b>R</b>
<b>CONTINGENCIES (10%).....</b>	<b>R</b>
<b>SUB-TOTAL 2</b>	<b>R</b>
Allowance for Contract Price Adjustment (10% of Sub-Total 2)	R
<b>TOTAL CONSTRUCTION AMOUNT EXCL VAT.....</b>	<b>R</b>
VAT @ 15%.....	R
<b><u>TOTAL CONSTRUCTION AMOUNT (ALL INCLUSIVE).....</u></b>	<b><u>R</u></b>