

SECTION 1200

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1200	<u>GENERAL REQUIREMENTS AND PROVISIONS</u>				
B12.02	Relocation of services				
	(a) Dealing with existing services				
	(ii) Water Mains	P Sum	1	25 000	25 000.00
	(b) Contractor's handling costs, profit and all other charges in respect of Sub-items B12.01(a) above:	%	25 000.00		
B12.02	Training:				
	(a) Technical Skills (Contractor's Staff)	Psum	1	10 000.00	10 000.00
	(b) Generic and Management Skills	Psum	1	15 000.00	15 000.00
	(c) Contractor's handling costs, profit and all other charges in respect of Subitems B12.02(a) and (b) above:	%	25 000.00		
B12.03	Community Liason Officer				
	(a) Salary of Community Liason Officer	Month	6	5 500.0	33 000.00
	(b) Extra over item B12.03 (a) for contractor's overheads, administration charges and cost	%	33 000.00		
B12.04	Compliance with OHS Act (Act 85 of 1993)				
	(a) Compliance with Occupational and Safety (Act 85 of 1993) and all relevant and applicable Regulations, especially the construction Regulations,2003 as promulgated on the 18 of July 2003 under Section 43 of the Occupational Health and Safety Act (Act 85 of 1993), including all amendments as amended from time to time for the duration of the contract	Sum	1		
	(b) Provision of an OH & S Plan in terms of clause 5 of the schedule,prior to the commencement of works as well as full consolidated copy of such plan at the completion of a record of all drawings,designs,copies of statutory appointment material used and other similar information	Sum	1		
	(e) Registration with Compensation Fund or Approved /licenced compensation insurer	Month	6		
1200	TOTAL CARRIED TO SUMMARY				

SECTION 1300

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1300	<u>CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS</u>				
13.01	The Contractor's general obligations:				
	(a) Fixed obligations	Sum	1		
	(b) Value-related obligations	Sum	1		
	(c) Time-related obligations	month	6		
	Services				
13.01b	(a) Geotechnical investigations	P.Sum	1	40 000.00	40 000.00
	(b) Engineering Surveys	P.Sum	1	30 000.00	30 000.00
	(c) Environmental assessments	P.Sum	1	60 000.00	60 000.00
	(d) Contractor's handling costs, profit and all other charges in respect of Sub-items 13.01b (a to c) above:	%	130 000.00		
1300	TOTAL CARRIED TO SUMMARY				

SECTION 1500

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1500	<u>ACCOMMODATION OF TRAFFIC</u>				
15.01	Accommodating traffic and maintaining temporary deviations	km	1.93		
15.02	(a) Shaping of temporary deviations	km	1.93		
	(b) Providing access to properties during construction period	Sum	1		
15.03	Temporary traffic-control facilities				
	(a) Flagmen	man-day	290		
	(b) Portable STOP and GO-RY signs	No	4		
	(e) Road signs, R- and TR-series	No	8		
	(f) Road signs, TW-series	No	8		
	(g) Road signs, STW-, DTG-, TGS- AND TG-series (excluding delineators and barricades)	No	6		
	(h) Delineators (DTG50J) Single	No	10		
1500	TOTAL CARRIED TO SUMMARY				

SECTION 1600

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1600	<u>OVERHAUL</u>				
16.01	Overhaul on material hauled in excess of a free-haul distance of 0.5km, for haul up to and or through 1.0km (restricted overhaul)	m ³	3 868		
16.02	Overhaul on material hauled in excess of 1.0km (ordinary overhaul)	m ³ -km	19 340		
1600	TOTAL CARRIED TO SUMMARY				

SECTION 1700

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1700	<u>CLEARING AND GRUBBING</u>				
17.01	Clearing and grubbing	ha	2.310		
17.02	Removal and grubbing of large trees and tree stumps:				
	(a) Girth exceeding 1 m up to and including 2 m	No.	8		
	(b) Girth exceeding 2 m up to and including 3 m	No.	2		
17.04	Clearing and grubbing at inlets and outlets of hydraulic structures	m ²	5		Rate Only
17.05	Cleaning out of hydraulic structures				
	(a) Pipes with an internal diameter up to and including 900mm	m ³	10		Rate Only
17.06	(a) Cost of removal, storing, protection and replanting in a protected and fenced off area of selected vegetation	P. Sum	1.00	5 000.00	5 000.00
	(b) Contractor's charge on provisional sum in item 17.06(a)	%	5 000.00		
1700	TOTAL CARRIED TO SUMMARY				

SECTION 1800

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1800	<u>DAYWORKS</u>				
B18.01	Personnel				
	(a) Unskilled labour	h	250		
	(b) Semi-Skilled labour	h	100		
	(c) Skilled labour	h	50		
	(d) Ganger	h	250		
	(e) Flagmen	h	50		
B18.02	Plant				
	(a) Tipper Trucks				
	(i) 3 - 5 ton	h	16		
	(ii) 5.1 - 10 ton	h	20		
	(b) Loader (0.5m ³ bucket)	h	20		
	(c) Grader (CAT 140G or similar)	h	16		
	(d) Vibratory roller	h	16		
	(e) Grid roller	h	16		
	(f) Walk behind roller	h	16		
	(g) Water Cart	h	16		
B18.03	Materials				
	(a) Procurement of materials	Prov Sum	1	50 000.00	50 000.00
	(b) Contractor's handling costs, profit and all other charges in respect of subitem B19.03(a)	%	50 000.00		
1800	TOTAL CARRIED TO SUMMARY				

SECTION 2100

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2100	<u>DRAINS</u>				
21.01	Excavation for open channel drains:				
	(a) Excavating soft material situated within the following depth ranges below the surface level: (Rate to include for grading of excavations and disposal of material as directed including a free haul of 1.0km.)				
	(i) 0m up to 1.5m	m ³	2 199		
	(ii) exceeding 1.5m and up to 3.0m	m ³	45		Rate Only
	(b) Extra over subitem 21.01a(i) and 21.01a(ii) for excavation in hard material, irrespective of depth	m ³	55		
B21,03	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 ³	10		Rate Only
B21,04	Impermeable backfilling to subsoil drainage systems	m ³	10		Rate Only
B21,06	Natural permeable material in subsoil drainage systems (crushed stone):				
	(b) Crushed stone obtained from commercial sources (19mm Nominal Size)	m ³	10		Rate Only
B21,07	Natural permeable material in subsoil drainage systems (crushed stone):				
	(b) Sand from commercial sources (Coarse Grade Nom. 4.75mm)	m ³	10.00		Rate Only
B21,08	Pipes in subsoil drainage systems:				
	(b) Unplasticized PVC pipes and fittings, normal duty, complete with couplings (100 mm internal dia. slotted not	m	30		Rate Only
B21,1	Synthetic-fibre filter fabric (Grade 2)	m ²	15		Rate Only
2100	TOTAL CARRIED TO SUMMARY				

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2200	<u>PREFABRICATED CULVERTS</u>				
22.01	Excavation:				
	(a) Excavating soft material situated within the following depth ranges below the surface level:				
	(i) 0 m up to 1,5 m	m³	268		
	(ii) Exceeding 1,5 m and up to 3,0 m	m³	45		
	(b) Extra over subitem 22.01(a) for excavation in intermediate material, irrespective of depth	m³	35		
	(c) Extra over subitem 22.01(a) for excavation in hard material, irrespective of depth	m³	25		
22.02	Backfilling:				
	(a) Using the excavated material	m³	150		
	(b) Using imported selected material	m³	25		
22.03	Concrete pipe culverts on Class A bedding:				
	(a) 450mm dia Class 100D	m	60		Rate Only
	(b) 600mm dia Class 100D	m	198		
	(c) 750 mm dia Class 75D	m	80		Rate Only
	(d) 825 mm dia Class 75D	m	75		Rate Only
2200	TOTAL CARRIED FORWARD				

SECTION 2200					
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Brought forward				
22.07	Cast in situ concrete and formwork: In inlet and outlet structures, skewed ends, catchpits, (c) manholes, thrust and anchor blocks, excluding formwork but including class U2 surface finish (i) Inlet and outlet structures of pipe culverts, Class 25/19 concrete	m ³	20.00		
22.1	Steel Reinforcement (c) Welded steel fabric (i) Mesh ref 311	m ²	150.00		
22.17	Manholes, Catchpits as indicated on tender drawings, precast inlet and outlet structures complete (a) Manholes: (b) Catchpits (without cover slab) (c) Inlet and outlet structures (masonry)	number	2		
		number	18		
		number	18		
22.18	Brickwork: (a) 230 mm thick	m ²	297		
2200	TOTAL CARRIED FORWARD				

SECTION 3300

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3300	<u>MASS EARTHWORKS</u>				
33.01	Cut and borrow to fill,including free -haul up to 1.0km (a) Existing material in compacted layer thicknesses of 150mm and less: (i) Compacted to 90% of modified AASHTO density	m ³	2 020		
33.04	Cut to spoil, including free-haul up to 1.0 km. Material obtained from: (a) Soft excavation (b) Intermediate excavation (c) Boulder Excavation Class A (d) Boulder Excavation Class B	m ³ m ³ m ³ m ³	721 216 50 40		
33.05	Overbreak in hard and boulder class A excavation	m ²	50		
33.07	Removal of unsuitable material (including free haul of 0.5km): (a) In layer thicknesses of 200mm and less (i) stable material (ii) unstable material	m ³ m ³ m ³	72 108		
33.10	Roadbed preparation and the compaction of material: (a) Compaction to 90% of modified AASHTO density of roadbed material	m ³	2 020		
33.11	Three-roller-passes compaction: (a) Vibratory roller	m ²	5 400		
3300	TOTAL CARRIED TO SUMMARY				

SECTION 3400

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3400	<u>PAVEMENT LAYERS OF GRAVEL MATERIAL</u>				
34.01	Pavement layers constructed from gravel taken from cut or borrow including free-haul up to 1,0 km:				
	(f) Gravel shoulders compacted to 93% of modified AASTHO	m ³	1200		
	(g) G7 layer (200mm thick) compacted to 93% of modified AASTHO, Surfacing	m ³	2310		
3400	TOTAL CARRIED TO SUMMARY				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
5100	PITCHING, STONEMWORK AND PROTECTION AGAINST EROSION				
51.01	Stone pitching: (a) Plain pitching				
	(i) Method 1	m ²	60.00		
	(ii) Method 2	m ²	510.00		
	(b) Grouted stone pitching	m ²	510.00		
5100	TOTAL CARRIED TO SUMMARY				

SECTION 5400

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
5400	<u>GUARDRAILS</u>				
54.01	supply, deliver, handle and erect guardrails including all materials, labour and galvanising complete with posts, spacer blocks,bolts,nuts,washers, reinforcement plates and excavating in all classes of material backfilling post holes, including concrete backfill and removal of surplus excavated material:				
	(a) Galvanised	m	10		Rate Only
54.03	Extra over item 54.01(a) for horizontally curved guardrails factory bent to a radius of less than 45m	m	10		Rate Only
54.04	End treatments				
	(a) End wings	No.	4		Rate Only
	(b) Bull noses	No.	8		Rate Only
54.05	Additional guardrail posts				
	(a) Timber	No.	10		Rate Only
54.06	Supply all materials and labour required for manufacturing, painting and fixing:				
	(a) reflective plates	No.	10		Rate Only
54.13	Extra over item 54.01 for drilling and blasting holes for guardrail posts	No.	7		Rate Only
5400	TOTAL CARRIED TO SUMMARY				

SECTION 5600

SECTION 5600

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
5600	<u>ROAD SIGNS</u>				
B56.01	Road sign boards complete with supports with Class 1 retro-reflective background. Symbols and lettering in semi matt black. Borders in Class 1 retro- reflective material, where the signboard is constructed from : (c) Prepainted galvanised steel plate (1.2mm chromadek or approved equivalent) (i) 900mm diameter Round or Stop signs: - R 1 - R 201 (60) (ii) 900mm Triangular signs: - W310 (iv) 150mm x 600mm Hazard Marker Signs - W401 / W402 Rates shall include full compensation for providing the completed road sign board, frame, fixing brackets, including painting, galvanising if specified, reflective lettering, symbols legends and borders, attaching the road sign board to the road sign support, and for all other materials and workmanship, brackets, bolts, nuts, etc for the completion of road sign boards as specified.	No. <			

SECTION 5900

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
5900	<u>FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS</u>				
59.01	Finishing the road and road reserve: (b) Single-carriageway road	km	1.75		
5900	TOTAL CARRIED TO SUMMARY				

SECTION 8100

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
8100	<u>TESTING MATERIALS AND WORKMANSHIP</u>				
81.02	Other special tests requested by the Engineer:				
	(a) Cost of testing	Prov sum	1	15 000	15 000.00
	(b) Charge on prime cost	%	15000		
8100	TOTAL CARRIED TO SUMMARY				