

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>C1.2</b>	<b><u>GENERAL REQUIREMENTS AND PROVISIONS</u></b>				
<b>C 1.2.4</b>	<b>Stake holders Liaison</b>				
<b>BC 1.2.4.1</b>	<b>Remuneration of the Project Liaison Officer and members of the Project Liaison Committee:</b>				
	(a) Project Liaison Officer	month		R 9 500.00	R -
	(b) Training	Prov.Sum	1	R 150 000.00	R 150 000.00
	(d) Handling costs and profit with respect to BC 1.2.4.1 (a)&(b)	%		R 150 000.00	
<b>C 1.2.5</b>	<b>Safety</b>				
C 1.2.5.1	Health and safety plan	lump Sum	1		
C 1.2.5.2	Implementation of health and safety plan	month			
<b>C 1.2.6 (LI)</b>	<b>Work adjacent to properties</b>				
C 1.2.6.2	Prevention and/or mitigation measures	Prov.Sum	1	R 60 000.00	R 60 000.00
C 1.2.6.3	Handling costs, profit and all other charges in respect of item C1.2.6.2	%		R 60 000.00	
<b>C 1.2.8</b>	<b>Dayworks</b>				
<b>C 1.2.8.1</b>	<b>Personnel</b>				
	(a) Unskilled Labourer	hour	40		
	(b) Semi-Skilled Labourer	hour	40		
	(c) Skilled Labourer	hour	40		
<b>C 1.2.8.2</b>	<b>Construction equipment</b>				
	(b) Vibratory roller	hour	40		
	(e) TLB (CAT 416 or similar)	hour	40		
	(f) Excavator	hour	40		
	(h) Watercart (10 000 litre)	hour	40		
<b>C 1.2</b>	<b>Carried forward</b>				

ITEM NO	DESCRIPTION	UNIT	QUAN-TITY	RATE	AMOUNT
<b>C1.2</b>	<b>Brought forward</b>				
	(i) Other equipment				
	(i) Milling machine for removing asphalt	hour	40		
	(ii) Grid roller	hour	40		
	(iii) Other equipment	hour	40		
<b>C 1.2.8.3</b>	<b>Vehicles</b>				
	(a) Light Vehicle	km	3.0		
	(b) Flatbed Truck	km	3.0		
	(c) Dump Truck	km	3.0		
	(d) Other Vehicles	km	3.0		
<b>C 1.2.8.4</b>	<b>Materials</b>				
	(a) Procurement of materials	Prov Sum	-	R 25 000.00	R 25 000.00
	(b) Contractor's handling costs, profit and all other charges in respect of subitem B18.03(a)	%		R 25 000.00	
<b>C 1.2.9</b>	<b>Disposal of non- usable material;</b>				
C 1.2.9.2	Material not identified at the time of tender	Prov Sum	-	R 15 000.00	R 15 000.00
C 1.2.9.3	handling costs, profit and all other charges in respect of subitem C 1.2.9.2	%		R 15 000.00	
<b>C 1.3</b>	<b><u>CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS</u></b>				
<b>C 1.3.1</b>	<b>The Contractor's general obligations:</b>				
C 1.3.1.1	Fixed obligations	lump sum	1		
C 1.3.1.2	Value-related obligations	lump sum	1		
C 1.3.1.3	Time-related obligations	month			
<b>BC1.3.2</b>	<b>Contract sign boards</b>	No	2		
<b>C 1.4</b>	<b>Carried forward</b>				

ITEM NO	DESCRIPTION	UNIT	QUAN-TITY	RATE	AMOUNT
<b>C 1.4</b>	<b>Brought forward</b>				
<b>C 1.4</b>	<b><u>FACILITIES FOR THE ENGINEER</u></b>				
<b>C1.4.1</b>	<b>Site Accomodation</b>				
C1.4.1.1	Offices and conference room	No	2		
C1.4.1.2	Laboratories	No	1		
C1.4.1.5	Store rooms inside the laboratory	No	1		
C1.4.1.6	Car ports	No	3		
C1.4.1.7	Ablution unit (X2) (equipped as specified)	No	2		
C1.4.1.13	Rented housing paid for by the Contractor (Engineers Accomodation)	-	Prov	Sum	R 100 000.00
C1.4.1.14	Contractor's handling costs, profit and all other	%		R 100 000.00	
<b>C 1.4.2</b>	<b>Items mearsured by area</b>				
C1.4.2.11	Galvanied wire mesh fencing store room with a padlock	m <sup>2</sup>	100		
<b>C 1.4.3</b>	<b>Items mearsured by number</b>				
C1.4.3.1	Office swivel chair	No	1		
C1.4.3.5	Office desk with 3 drawers (at least one lockabl drawer)	No	1		
C 1.4.3.8	Conference table	No	1		
C 1.4.3.10	Steel filing cabinets with drawers	No	1		
C 1.4.3.13	220/250 volt power points	No	2		
C 1.4.3.17	Double 80 watt fluoescent light fittings complete with 100 watt globes	No	1		
C 1.4.3.19	Wash hand basins complete with taps and drains	No	1		
C 1.4.3.23	Fire extinguishers, 9,0kg, all purpose dry powder type, complete, mounted on wall with brackets.	No	1		
<b>C 1.4</b>	<b>Carried forward</b>				

ITEM NO	DESCRIPTION	UNIT	QUAN-TITY	RATE	AMOUNT
<b>C 1.4</b>	<b>Brought forward</b>				
C 1.4.3.24	Air-conditioning units with, 2,2 kW minimum capacity, mounted and with own power connection	No	1		
C 1.4.3.29	A3/A4 color printer, copier, scanner	No	1		
C 1.4.3.31	Rain Gauge	No	1		
C 1.4.3.36	Measuring wheel	No	1		
C 1.4.3.37	First Aid kit	No	1		
<b>C1.4.4</b>	<b>Prime-cost items and items paid for in lump sum:</b>				
C 1.4.4.1	Provision of cellphones including pro-rata rental and the cost of phone calls in connection with the administration of the contract	PC Sum	1	R 10 000.00	R 10 000.00
C 1.4.4.2	Handling cost and profit in respect of item C 1.4.4.1	%		R 10 000.00	
C 1.4.4.3	The provision of a direct independent telephone for the Engineer, including the monthly rental charges and the cost of business calls	PC Sum	1	R 10 000.00	R 10 000.00
C 1.4.4.6	Handling cost and profit in respect of item C 1.4.4.3	%		R 10 000.00	
C 1.4.4.5	The provision of internet connectivity and WiFi data for Engineer's site staff	PC Sum	1	R 10 000.00	R 10 000.00
C 1.4.4.6	Handling cost and profit in respect of item C 1.4.4.5	%		R 10 000.00	
C 1.4.4.7	The provision of paper and ink for a combination colour printer/copier/scanner	PC Sum	1	R 10 000.00	R 10 000.00
C 1.4.4.8	Handling cost and profit in respect of item C 1.4.4.7	%		R 10 000.00	
C 1.4.4.9	The provision of a complete 220/250 volt single electrical power installation, including all poles, phase insulators, wiring, switchboards, main connections, meters etc.	PC Sum	1	R 30 000.00	R 30 000.00
C 1.4.4.10	Handling cost and profit in respect of item C 1.4.4.9	%		R 30 000.00	
<b>C 1.5</b>	<b>Carried forward</b>				

ITEM NO	DESCRIPTION	UNIT	QUAN-TITY	RATE	AMOUNT
<b>C 1.5</b>	<b>Brought forward</b>				R0.00
<b>BC1.4.4.17</b>	Provision for one Laptop for the engineer  Handling cost and profit in respect of subitem 14.03 (b)(v) above	PC Sum  %	1	R 20 000.00  R 20 000.00	R 20 000.00
<b>C 1.4.5</b>	<b>Services at site offices, laboratories and site accomodation</b>				
<b>C 1.4.5.1</b>	Fixed Costs	Sum	1		
<b>C 1.4.5.2</b>	Running costs	month	12		
<b>C1.5</b>	<b><u>ACCOMMODATION OF TRAFFIC</u></b>				
<b>C1.5.1</b>	<b>Accommodating of pedestrian and non-motorised traffic</b>				
C1.5.1.1	Accommodation of pedestrian and non-motorised traffic	month			
<b>C1.5.2</b>	<b>Accommodation of vehicular traffic</b>	month			
<b>C1.5.3</b>	<b>Liason with traffic authorities</b>	month			
<b>C1.5.4</b>	<b>Construction of temporary deviations</b>	km	2.5		
<b>C1.5.5</b>	<b>Maintenance of temporary deviations</b>				
C1.5.5.9	Grading of temporary deviations and existing roads used as detours	km	2.5		
C1.5.5.10	Watering of temporary deviations and existing roads used as detours	kl	65		
C1.5.5.11	Other road maintenance work ordered by the Engineer	Prov Sum	-	R 15 000.00	R 15 000.00
C1.5.5.12	Handling cost, profit and all other charges in respect of item C1.5.6.11	%		R 15 000.00	
<b>C 1.5</b>	<b>Carried forward</b>				

ITEM NO	DESCRIPTION	UNIT	QUAN-TITY	RATE	AMOUNT
<b>C 1.5</b>	<b>Brought forward</b>				
<b>C1.5.7</b>	<b>Temporary traffic control facilities</b>				
C1.5.7.1	Delineators including mounting bases and ballast:				
	(b) Double sided, reversible left or right	No	200		
C1.5.7.3	Flagmen	man-shift	480		
C1.5.7.7	Traffic calming device  (c) 150mm high x 3 m wide speed control humps	m	100		
C1.5.7.10	Movable Stop/Go sign	No	4		
<b>C1.5.11</b>	<b>Provision of safety equipment for visitors</b>				
C1.5.11.1	Provision of reflective safety vests for visitors	No	5		
<b>C1.6</b>	<b><u>CLEARING AND GRUBBING</u></b>				
<b>C1.6.1</b>	<b>Clearing</b>				
C1.6.1.1	Clearing with machines and some hand labour where necessary	ha	0.50		
C1.6.1.2	Clearing with hand labour only when labour enhanced work is specified	ha	0.50		
C1.6.1.3	Clearing for new fence line (over a width of 2,0 m)	km	2.50		
<b>C1.6.2</b>	<b>Grubbing</b>				
C1.6.2.1	Grubbing with machines and some hand labour where necessary	ha	0.20		
C1.6.2.2	Grubbing with hand labour when labour enhancement work is specified or it is not practical to use a machine	ha	0.20		
<b>C1.6.3</b>	<b>Removal and grubbing of large trees and tree stumps:</b>				
C1.6.3.1	Girth equal to or exceeding 1,0 m up to and including 2,0 m	No	4		
C1.6.3.2	Girth equal to or exceeding 2,0 m up to and including 3,0 m	No	4		
C1.6.3.3	Girth exceeding 3,0 m up	No	2		
<b>C 1.6</b>	<b>Carried forward</b>				

ITEM NO	DESCRIPTION	UNIT	QUAN-TITY	RATE	AMOUNT
<b>C 1.6</b>	<b>Brought forward</b>				
<b>C1.6.4</b>	<b>Removal of buildings and structures</b>				
BC1.6.4.1	Building (concrete and masonry structures)	Prov	Sum	R 200 000.00	R 200 000.00
<b>C1.7</b>	<b>LOADING AND HAULING</b>				
<b>C1.7.1</b>	<b>Loading</b>				
C1.7.1.1	Loading from stockpile using machines and some hand labour where necessary	m <sup>3</sup>	100		
<b>C1.7.2</b>	<b>Hauling</b>				
C1.7.2.1	Hauling material for use in the Works and off-loading it on the site of the Works:  (a) Soil, gravel, crushed stone and pavement layer material	m <sup>3</sup>	100		
<b>Chapter 1</b>	Total for Chapter 1 - Carried to summary				

**CHAPTER 2**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>C2.1</b>	<b><u>GENERAL REQUIREMENTS AND TRENCHING FOR SERVICES</u></b>				
<b>C 2.1.1</b>	<b>Location, identification, protection and relocation of existing services</b>				
C2.1.1.2	Permanent services relocation or protection work by others (Eskom Line)	PC.Sum	-	R 1 250 000.00	R 1 250 000.00
C2.1.1.3	Handling costs and profit in respect of item C2.1.1.2 above	%		R 1 250 000.00	
C2.1.1.4	Permanent services relocation or protection work by the Contractor	Prov.Sum	-	R 350 000.00	R 350 000.00
<b>C 2.1.2 (LI)</b>	<b>Existing services location, detection and verification</b>				
C2.1.2.5	Using hand excavation to locate, expose and verify services	m <sup>3</sup>	50		
<b>C 2.1.19</b>	<b>Dealing with water during services</b>				
C2.1.19.1	Dealing with surface water	Lump sum	-		
<b>Chapter 2</b>	Total for Schedule - Carried forward				

**CHAPTER 3**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>C 3.1</b>	<b>DRAINS</b>				
<b>C3.1.1</b>	<b>Excavation for open drains:</b>				
C3.1.1.1	Excavating all material situated within the following depth ranges below the surface level:				
	(a) 0 m up to 1,5 m	m <sup>3</sup>	600		
	(b) Exceeding 1,5 m and up to 3,0 m	m <sup>3</sup>	120		
C3.1.1.2	Extra over sub-item C3.1.1.1 for excavation in hard and boulder material, irrespective of depth	m <sup>3</sup>	50		
C3.1.1.3	Extra over sub-item C3.1.1.1 for excavation in stabilised existing road layers, irrespective of depth	m <sup>3</sup>	50		
C3.1.2	<b>Clearing shaping and disposal of accumulated sediment in existing unlined open drains</b>				
C3.1.2.2	Using labour enhanced construction methods	m <sup>3</sup>	30		
C3.1.3	<b>Excavation, clearing and disposal of sediment in existing lined drains and drainage accumulated system</b>				
C3.1.3.1	Using conventional methods				
	(a) Manholes and inlets structure	m <sup>3</sup>	10		
	(b) Culvert barrels	m <sup>3</sup>	10		
	(c) Concrete or other lined side drains	m <sup>3</sup>	10		
<b>C3.2</b>	<b><u>CULVERTS</u></b>				
<b>C3.2.1</b>	<b>Excavation for culvert structures:</b>				
C3.2.1.1	Excavating in all material situated within the following depth ranges below the surface level:				
	(a) 0 m to 1,5 m	m <sup>3</sup>	200		
	(b) Exceeding 1,5 m and up to 3,0 m	m <sup>3</sup>	50		
<b>C 3.3</b>	<b>Carried forward</b>				

**CHAPTER 3**

ITEM NO	DESCRIPTION	UNIT	QUAN-TITY	RATE	AMOUNT
<b>C 3.3</b>	<b>Brought forward</b>				
C3.2.1.4	Extra over sub-item C3.2.1.1 for excavation in hard or boulder material, irrespective of depth	m <sup>3</sup>	50		
<b>C3.2.2</b>	<b>Backfilling:</b>				
C3.2.2.1	Using the excavated material	m <sup>3</sup>	250		
C3.2.2.2	Using imported selected material (a) From commercial sources (crusher)	m <sup>3</sup>	50		
<b>C3.2.3</b>	<b>Concrete pipe culverts:</b>				
C3.2.3.2	On Class B bedding (600mm diameter)	m	700		
<b>C3.2.7</b>	<b>Cast in situ concrete and formwork:</b>				
C3.2.7.1	In Class B bedding, screeds, concrete backfill and the encasing for pipes, including formwork, (25/19 concrete)	m <sup>3</sup>	100		
<b>C3.2.9</b>	<b>Prefabricated concrete inlets and outlets to culverts</b>	No	10		
<b>C3.2.10</b>	<b>Reinforcement:</b>				
C3.2.10.3	Welded steel fabric (MESH 395)	kg	500		
<b>C3.2.12</b>	<b>Demolition of concrete members or elements</b>				
C3.2.12.1	Full member or elements (outlet & inlet structures)	m <sup>3</sup>	80		
<b>C3.2.13</b>	<b>Removing and re-laying existing culvert</b>				
C3.2.13.1	Removing and stacking existing culverts for re-use (as per the drawing)	m	100		
<b>C3.2.15</b>	<b>Manholes and catchpits with prefabricated elements</b>				
C3.2.15.1	Prefabricated floors  (a) 25 Mpa concrete floor (1230mm x 1230mm x 150mm thick)	No	15		
<b>C 3.2</b>	<b>Carried forward</b>				

**CHAPTER 3**

ITEM NO	DESCRIPTION	UNIT	QUAN-TITY	RATE	AMOUNT
<b>C 3.2</b>	<b>Brought forward</b>				
C3.2.15.2	Prefabricated roofs  (a) Pre cast concrete (512 mm x 990mm x 100mm)	No	15		
C3.2.15.4	Extra-over item C3.2.15.1 for variation in the depths of all types of concrete manholes with prefabricated, or insitu concrete or brickwork wall combinations deeper than 1.0m designated for tendering purposes	m	150		
<b>C3.2.16</b>	<b>Brickwork (Culverts outlet)</b>				
C3.2.16.2	230 mm thick	m <sup>2</sup>	50		
<b>C3.2.17</b>	<b>Plaster</b>				
<b>C3.2.19</b>	<b>Accessories:</b>				
C3.2.19.2	Inlet grids or covers (ref: 1086-CIV-DRG-405 and 407)	No	6		
C3.2.19.4	Manhole covers or gratings (1200 X 600 X 100mm)	No	10		
C3.2.19.7	Step iron (50 x 50 x 6 angle iron)	No	5		
<b>C3.2.20</b>	<b>Ancohrs for pipes</b>				
<b>C3.2.22</b>	<b>Cutting of concrete pipes(as per drawing)</b>				
<b>C3.2.23</b>	<b>Breaking into existng drainage structures and building in pipes or culvert of different size</b>				
<b>C3.2.24</b>	<b>Compaction of bedding for inlets, outlets, manholes and catchpits;</b>				
C3.2.24.1	Preparation and compaction of in-situ bedding material to 90 % of MDD (150mm Thick)	m <sup>3</sup>	10		
C3.2.24.2	Extra-over sub-item C3.2.24.1 for compation to 93% of MDD (150mm thick)	m <sup>3</sup>	10		
<b>C 3.3</b>	<b>Carried forward</b>				

ITEM NO	DESCRIPTION	UNIT	QUAN-TITY	RATE	AMOUNT
<b>C 3.3</b>	<b>Brought forward</b>				
<b>C3.3</b>	<b><u>CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES, AND CONCRETE LININGS FOR OPEN DRAINS</u></b>				
<b>C3.3.1</b>	<b>Concrete kerbing:</b>				
<b>C3.3.1.1</b>	<b>Prefabricated kerbing</b>				
	(a) Prefabricated Barrier kerb, SABS 927 fig 3	m	500		
	(b) Prefabricated gardenr kerb, SABS 927 fig 12	m	3 000		
	(c) Transition kerb class 25/19	m	800		
<b>C3.3.1.2</b>	<b>Cast in situ kerbing</b>				
	(a) Concrete edge beam (150mm X 150mm)	m <sup>3</sup>	130		
<b>C3.3.2</b>	<b>Concrete kerbing-channeling combination:</b>				
<b>C3.3.2.2</b>	Cast in-situ kerbing-channeling (300mm x 100mm cast in situ class 25/19)				
	(a) Mountable Kerb Fig. 8c with kerb channeling	m	3 000		
<b>C3.3.3</b>	<b>Extra over item C3.3.1 for concrete kerbing or concrete kerbing and channeling on curves</b>	m	200		
<b>C3.3.3.2</b>	Radius 5 m to 20 m	m	300		
<b>C3.3.8</b>	<b>Linings for open drains:</b>				
<b>C3.3.8.1</b>	Cast in situ concrete Class 25/19 lining	m <sup>3</sup>	700		
<b>C3.3.8.2</b>	Class U2 surface finish to cast in situ concrete	m <sup>2</sup>	4 350		
<b>C 3.3</b>	<b>Carried forward</b>				

**CHAPTER 3**

ITEM NO	DESCRIPTION	UNIT	QUAN-TITY	RATE	AMOUNT
<b>C 3.3</b>	<b>Brought forward</b>				
<b>C3.3.9</b>	<b>Formwork to cast in situ concrete lining for open drains (Class F2 surface finish):</b>				
C3.3.9.3	To ends of slabs	m <sup>2</sup>	400		
<b>C3.3.11</b>	<b>Concrete screed or backfilling below kerbs</b>	m <sup>3</sup>	90		
<b>C3.3.12</b>	<b>Reinforcement:</b>				
C3.3.12.3	Steel Mesh.ref.no.245	kg	5 520		
<b>C3.3.15</b>	<b>Energy dissipaters in outlet structures</b>				
C3.3.15.2	Stones set in outlets structures	m <sup>2</sup>	70		
<b>C3.3.16</b>	<b>Demolition and removal of existing kerbs</b>	m <sup>3</sup>	70		
<b>Chapter 3</b>	Total for Schedule - Carried forward				

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>C4.1.3</b>	<b>Construction and maintenance of temporary haul and access roads</b>				
C4.1.3.1	temporary unsealed roads	km	2.5		
<b>C4.1.4</b>	<b>Removing of the overburden</b>				
C4.1.4.1	In borrow pits	m <sup>3</sup>	2000		
<b>C4.2.7</b>	<b>Removal of unsuitable stable cut material to spoil</b>				
C4.2.7.1	In layer thicknesses of 200 mm and less	m <sup>3</sup>	2700		
<b>C4.3</b>	<b><u>EXISTING ROAD MATERIALS</u></b>				
<b>C4.3.3</b>	<b>Removal of bituminous seal surfacing (thickness not exceeding 30 mm)</b>	m <sup>2</sup>	10000		
<b>C4.3.9</b>	<b>Excavating material by using conventional road construction equipment</b>				
C4.3.9.4	Natural gravel and sand material	m <sup>3</sup>	12400		
C4.3.9.5	Coarse fill and rock fill	m <sup>3</sup>	500		
<b>C4.3.10</b>	<b>Excavating material by using labour enhanced methods of construction</b>				
C4.3.10.4	Natural gravel and sand material	m <sup>3</sup>	100		
<b>C4.3.11</b>	<b>Breaking down a stabilised layer by using conventional road construction equipment</b>	m <sup>3</sup>	100		
<b>C4.3.13</b>	<b>Lifting of existing paving blocks (Laybys paving)</b>				
C4.3.13.2	Using labour enhanced methods of construction	m <sup>2</sup>	500		
<b>C 5.3</b>	<b>Carried forward</b>				

ITEM NO	DESCRIPTION	UNIT	QUAN-TITY	RATE	AMOUNT
<b>C 5.3</b>	<b>Brought forward</b>				
<b>C4.3.14</b>	<b>Removing of existing road edging and services structures</b>				
C4.3.14.2	Removing of existing road edging using labour enhanced methods of construction  (a) kerbing and edge beam  (ii) Precast concrete kerbing (fig.3)  (iii) Precast concrete kerbing and in-situ concrete channel	m <sup>3</sup>	100		
<b>C4.4.1</b>	<b>Commercial materials identified by the Employer from commercial, private or other non-commercial suppliers</b>				
C4.4.1.1	Pavement layer material:  (c) Gravel subbase (unstabilized material) layer thickness of 150 mm(G6) compacted to 95% MDD:  (m Sand for the base and shoulder layers	m <sup>3</sup>	5500		
<b>C4.4.1</b>	<b>Cost to procure commercial materials identified by the Employer from private or non-commercial sources</b>				
C4.4.3.1	Cost of procuring	Prov.Sur	-	R 30 000.00	R 30 000.00
C4.4.3.2	Handling cost and profit in respect of item C4.4.3.1	%		R 30 000.00	
<b>C4.4.4</b>	<b>Cementitious stabilising agents</b>				
C4.4.4.1	Cement	t	130		
<b>Chapter 4</b>	Total for Schedule - Carried forward				

**CHAPTER 5**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<b><u>EARTHWORKS AND PAVEMENT LAYERS CONSTRUCTION</u></b>				
<b>C5.1</b>	<b>ROADBED</b>				
<b>C5.1.1</b>	<b>Roadbed construction and compaction</b>				
C5.1.1.2	Compaction of in-situ material to 93 % of MDD (In situ-G7)	m <sup>3</sup>	2700		
<b>C5.1.2</b>	<b>Excavate material to spoil sites designated by the Employer</b>				
C5.1.2.1	Excavate material to spoil from roadbed construction, material obtained from:				
	(a) Soft excavation	m <sup>3</sup>	4500		
	(b) Boulder excavation Class A	m <sup>3</sup>	500		
	(d) Hard excavation (other than by blasting)	m <sup>3</sup>	500		
<b>C5.1.4</b>	<b>Removal of unsuitable material to spoil</b>				
C5.1.4.1	In layer thicknesses of 200 mm and less				
	(a) Stable material	m <sup>3</sup>	150		
<b>C5.1.5</b>	<b>In-situ treatment of roadbed in hard material</b>				
C5.1.5.1	In situ treatment by ripping	m <sup>3</sup>	500		
<b>C5.1.6</b>	<b>Roller-pass compaction</b>				
C5.1.6.1	Grid rollers	m <sup>2</sup>	15400		
C5.1.6.2	vibratory roller	m <sup>2</sup>	15400		
<b>C5.3</b>	<b><u>ROAD PAVEMENTLAYERS</u></b>				
<b>C5.3.2</b>	<b>Construction of pavement layers</b>				
<b>C5.3.2.1</b>	<b>Construction of layers using conventional construction methods</b>				
	(b) Lower selected subgrade layer thickness of 150 mm (In situ G7) compacted 95% of modified AASHTO density (MDD)	m <sup>3</sup>	4 500		
<b>C 5.3</b>	<b>Carried forward</b>				

**CHAPTER 5**

ITEM NO	DESCRIPTION	UNIT	QUAN-TITY	RATE	AMOUNT
<b>C 5.3</b>	<b>Brought forward</b>				
C5.3.2.2	(n) Gravel base (Chemically stabilized material) layer thickness of 150 mm(C4) compacted to 97% MDD:  Construction of layers using labour enhancement:  (m Sand layer compacted to 97% of MDD	m <sup>3</sup>	4 500		
		m <sup>3</sup>	2 200		
<b>Chapter 5</b>	<b>Total for Schedule - Carried forward</b>				

**CHAPTER 6**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>C6.2</b>	<b><u>SEGMENTAL BLOCK PAVING LAYERS</u></b>				
<b>C6.2.1</b>	<b>Segmental block paving</b>				
C6.2.1.1	Concrete block paving Type S-A interlocking paving blocks, 80mm thick, for the roadway and the Bus Layby's	m <sup>2</sup>	19000		
C6.2.1.2	Concrete block paving Type S-A interlocking paving blocks, 60mm thick, for Side-walks	m <sup>2</sup>	2000		
C6.2.2	<b>Cast in situ concrete egde and intermediate beams</b> (Traffic calming speed humps) Ref Drwaing: 1086-CIV-DRG-403	m <sup>3</sup>	30		
<b>C6.2.3</b>	<b>Provision and application of approved herbicide and ant poison</b>				
C6.2.3.1	Provision of material	PC sum	-	R80 000.00	R80 000.00
C6.2.3.2	Contractor's charges and profit added to the prime cost sum	%		R80 000.00	
<b>Chapter 6</b>	Total for Schedule - Carried forward				

**CHAPTER 11**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
C11.1	<b>PITCHING, STONWORK, CAST IN SITU CONCRETE FOR PROTECTION AGAINST EROSION</b>				
C11.1.2	Stone pitching	m <sup>2</sup>	300		
C11.2	<b>NON-STRUCTURAL GABIONS</b>				
C11.2.1	<b>Foundation trench excavation:</b>				
C11.2.1.1	Excavating all material situated within the following depth ranges below the surface level:				
	(a) 0 m to 1,5 m	m <sup>3</sup>	20		
C11.2.1.2	Extra over sub-item C11.2.1.1 for excavation in hard material, irrespective of depth	m <sup>3</sup>	15		
C11.2.1.3	Excavating soft material within 1,5 m below the surface level using labour enhanced construction methods:	m <sup>3</sup>	15		
C11.2.1.4	Excavating intermediate material within 1,5 m below the surface level using labour enhanced construction methods:	m <sup>3</sup>	10		
C11.2.2	<b>Surface preparation for bedding the gabion boxes and mattresses</b>	m <sup>2</sup>	50		
C11.2.3	<b>Gabion boxes and mattresses:</b>				
C11.2.3.1	Galvanized gabion boxes (1,0 m wide by 1,0 m deep)				
	(a) by 2,0 m long mesh Type 80 with 3.7mm Class A	m <sup>3</sup>	90		
C11.2.3.3	Galvanized gabion mattresses (1,0 m diaphragm spacing, 6,0 m long by 2,0 m wide)				
	(a) by 0,3 m deep mesh Type 80 with 3.7mm Class A	m <sup>3</sup>	50		
C11.2.4	<b>Geotextile</b>  Bidim U14 or similar (MacTex N 20,2 (195g/sqm)	m <sup>2</sup>	150		
C 11.2	<b>Carried forward</b>				

**CHAPTER 11**

ITEM NO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT
<b>C 11.2</b>	<b>Brought forward</b>				
<b>C11.5</b>	<b><u>FENCING</u></b>				
C11.5.1	Supply and erect new fencing material for new fences and for supplementing material in existing fences which are being repaired or removed:				
C11.5.1.2	Zinc-coated smooth wire (SANS 675) fully galvanized as per SANS 935)	km	2.5		
C11.5.1.3	Diamond mesh (SANS 1373), Class B galvanized as per SANS 935	m <sup>2</sup>	3600		
C11.5.1.7	Standards				
	1,86m x 2,5 kg/m mild steel y section	No	400		
	1.86m x 75 dia x 2,24mm tubular steel	No	400		
C11.5.1.8	Droppers				
	1,4m x 0,56 kg/m mild steel ridge back section	No	200		
C11.5.1.9	Straining posts, stays and anchors:				
	(a) Vertical:				
	(i) Steel straining posts (galvanized)	No	120		
	(ii) Timber straining posts	No	50		
	(b) Inclined:				
	(i) Steel stays and anchors	No	200		
	(ii) Timber stays and anchors	No	200		
	(iii) Wire stays and anchors	No	80		
C11.5.1.11	Extra over items C11.5.1.3; C11.5.1.4 and C11.5.1.6 for trenching				
<b>C 11.5</b>	<b>Carried forward</b>				

**CHAPTER 11**

ITEM NO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT
<b>C 11.5</b>	<b>Brought forward</b>				
<b>C11.5.2</b>	<b>New gates</b>				
	Double leaf				
	4m 'w' pattern	No	100		
	5m 'w' pattern	No	100		
	<b>C11.5.3 Moving existing fences and gates:</b>				
C11.5.3.1	Fences:				
	(a) Stock-proof fences	km	2		
	(b) Vermin-proof fences	km	2		
	(c) Pedestrian fences	km	2		
	(d) Security fences	km	0.1		
	<b>C11.5.4 Dismantling existing fences and gates:</b>				
C11.5.4.1	Fences:				
	(a) Stock-proof fences	km	2		
	(b) Vermin-proof fences	km	2		
	(c) Pedestrian fences	km	2		
	(d) Security fences	km	0.1		
C11.5.9	Repairing existing fences	km	2		
	<b>C11.5.10 Disposal of existing fencing materials:</b>				
C11.5.10.2	Vermin-proof fence	km	1		
C11.5.10.3	Pedestrian fence	km	2		
<b>C 11.6</b>	<b>Carried forward</b>				

**CHAPTER 11**

ITEM NO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT
<b>C 11.6</b>	<b>Brought forward</b>				
<b>C11.6</b>	<b><u>ROAD SIGNS</u></b>				
<b>C11.6.1</b>	<b>Road sign boards with painted or coloured semi-matt background. Symbols, lettering and borders in Class I retro-reflective material, where the sign board is constructed from:</b>				
C11.6.1.7	Regulatory signs, permanent				
	(a) 600 mm diameter (1,4 mm chromadek flatsheeting)	No	30		
	(b) 900 mm diameter (1,4 mm chromadek flatsheeting)	No	10		
	(c) 1200 mm diameter (1,4 mm chromadek flatsheeting)	No	5		
C11.6.1.9	Warning signs, permanent				
	(a) 600 mm diameter (1,4 mm chromadek flatsheeting)	No	10		
	(b) 900 mm diameter (1,4 mm chromadek flatsheeting)	No	10		
	(c) 1200 mm diameter (1,4 mm chromadek flatsheeting)	No	2		
<b>C11.6.2</b>	<b>Extra over on item C11.6.1 for using</b>				
C11.6.2.1	Background of retro-reflective material of:				
	(a) Class I	m <sup>2</sup>	10		
C11.6.2.2	Lettering, symbols and borders of retro-reflective material of:				
	(a) Class III	m <sup>2</sup>	10		
<b>C 11.6</b>	<b>Carried forward</b>				

## CHAPTER 11

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<b>C 11.6</b>	<b>Brought forward</b>				
<b>C11.6.3</b>	<b>Road sign supports (overhead road sign structures excluded):</b>				
C11.6.3.1	Steel tubing (50 x 50 x 2mm Square tubing)(2m long)	No	100		
C11.6.3.2	Timber (100mm diameter)	m	50		
<b>C11.6.5</b>	<b>Excavation and backfilling for road sign supports (not applicable to kilometre posts)</b>				
C11.6.5.1	Excavating soft material and backfilling	m <sup>3</sup>	30		
C11.6.5.2	Excavating soft or intermediate material and backfilling using labour enhanced construction methods	m <sup>3</sup>	10		
C11.6.5.3	Extra over item C11.6.5.1 and 2 for cement-treated soil backfill	m <sup>3</sup>	25		
C11.6.5.4	Extra over item C11.6.5.1 for hard material excavation	m <sup>3</sup>	1		
<b>C11.7</b>	<b><u>ROAD MARKINGS AND ROAD STUDS</u></b>				
<b>C11.7.1</b>	<b>Road markings</b>				
C11.7.1.1	White lines broken or unbroken (Arcrylic paint, 100 mm wide)	km	2.5		
C11.7.1.2	Yellow lines broken or unbroken (Arcrylic paint, 100 mm wide)	km	2.5		
C11.7.1.4	White lettering and smbols (Arcrylic paint)	m <sup>2</sup>	100		
C11.7.1.5	Yellow lettering and smbols (Arcrylic paint)	m <sup>2</sup>	100		
C11.7.1.8	Labour enhanced hand painted white lines broken or unbroken (Arcrylic paint, 100 mm wide)	m <sup>2</sup>	100		
C11.7.1.9	Labour enhanced hand painted Yellow lines broken or unbroken (Arcrylic paint, 100 mm wide)	m <sup>2</sup>	50		
<b>C 11.6</b>	<b>Carried forward</b>				

**CHAPTER 11**

ITEM NO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT
C 11.6	Brought forward				
C11.7.8	Setting out and premarking the lines (excluding traffic-island markings, lettering and symbols)	km	2.5		
C11.9	<u>FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS</u>				
C11.9.1	Finishing the road and road reserve				
C11.9.1.2	Single carriageway road	km	2.5		
<b>Chapter 11</b>	Total for Schedule - Carried forward				

**CHAPTER 20**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>C20.1</b>	<b><u>TESTING MATERIAL AND JUDGEMENT OF WORKMANSHIP</u></b>				
<b>C20.1.2</b>	<b>Special tests requested by the Engineer</b>				
C20.1.2.1	Employers's contribution to other concrete tests				
	(d) Test for concrete cover	PC Sum	1	R60 000.00	R 60 000.00
	(i) Handling costs and profit in respect of item C20.1.2.1(d)	%		R60 000.00	
C20.1.2.2	Employers's contribution to other special tests				
	(a) Specify test	PC Sum	1	R50 000.00	R 50 000.00
	(i) Handling costs and profit in respect of item C20.1.2.2(a)	%		R50 000.00	
<b>Chapter 20</b>	Total for Schedule - Carried forward				

## SECTION C

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
C10.1		<b><u>SOCIO-ECONOMIC REQUIREMENTS</u></b>				
		<b>Community participation</b>				
	(a)	Cost of community participation support	Prov Sum	1	R 200 000.00	R 200 000.00
	(b)	Handling cost and profit in respect of subitem C10.01(a)	%		R 200 000.00	
Section C	<b>TOTAL SECTION C CARRIED TO SUMMARY</b>					

SECTION	DESCRIPTION	AMOUNT
CHAPET 1	GENERAL REQUIREMENTS AND PROVISIONS	
CHAPTER 2	SERIVCES	
CHAPTER 3	DRAINAGE	
CHAPTER 4	EARTHWORK AND PAVEMENT LAYERS: MATERIALS	
CHAPTER 5	EARTHWORK AND PAVEMENT LAYERS: CONSTRUCTION	
CHAPTER 6	CONCRETE LAYERS	
CHAPTER 11	ANCILLARY ROAD WORKS	
CHAPTER 20	QUALITY ASSURANCE	
SECTION C	SOCIAL ECONOMIC REQUIREMENTS	
	<b>SUB TOTAL (a)</b>	
	<b>CONTINGENCIES (10%)</b>	
	<b>10% OF SUB-TOTAL (a) for ESCALATION AS DIRECTED BY THE EMPLOYERS AGENT</b>	
	<b>SUB TOTAL (b)</b>	
	<b>15% VALUE ADDED TAX (VAT)</b>	
	<b>TOTAL (INCL VAT)</b>	
<b>AMOUNT IN WORDS</b>		