

**CITY OF MBOMBELA**

**MUNICIPAL INFRASTRUCTURE GRANT**

**TENDER NUMBER: COM11/2023**

**PAVING OF GOROMANE TO KAMABUZA (VIA TFOLINHLANHLA) AT SHABALALA WARD 1**

**BILL OF QUANTITIES / PRICING SCHEDULE**

## C2.2.4

**CITY OF MBOMBELA**  
**MUNICIPAL INFRASTRUCTURE GRANT**  
**TENDER NUMBER: COM11/2023**  
**PAVING OF GOROMANE TO KAMABUZA (VIA TFO LINHLANHLA) AT SHABALALA WARD 1**

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
<b>C1.2</b>	<b>GENERAL REQUIREMENTS AND PROVISIONS</b>				
<b>C1.2.1</b>	<b>Environmental Management</b>				
C1.2.1.1	Monitoring of compliance with and reporting on the EMP	month	18		Rate Only
C1.2.1.2	Dedicated environmental officer	month			
<b>C1.2.2</b>	<b>Programming and Reporting</b>				
C1.2.2.1	Submission of a Scheme 1 Programme	lump sum			
C1.2.2.2	Reviewing and updating a Scheme 1 Programme	month	18		
C1.2.2.6	Preparation and submission of all information and reports specified in the Contract Documentation	month	18		
<b>C1.2.3</b>	<b>Routine road maintenance of existing public roads within the Site of the Works or other public roads outside the Site of the Works which are used as detours</b>				
C1.2.3.9	Grading of temporary gravel deviations and existing roads used as detours (Provisional)	km	17,4		
C1.2.3.10	Watering of temporary gravel deviations and existing roads used as detours (Provisional)	kl	6000		
C1.2.3.11	Other road maintenance work ordered by the Engineer	prov sum			50 000,00
C1.2.3.12	Handling cost, profit and all other charges in respect of item C1.2.3.11	%	50 000,00		
<b>C1.2.4</b>	<b>Stakeholder liaison</b>				
B.C1.2.4.1	Provision of stakeholder liaison	month	18		
B.C1.2.4.2	(a) Employment of a Project Liaison Officer (PLO)	prov sum (monthly)	18	R 10 000,00	180 000,00
	(b) Handling costs, profit and all other charges in respect of item P.S.C1.2.4.2 (a)	%	180 000,00		
P.S.C1.2.4.3	(a) Establishment and compensation of a Project Liaison Committee (PLC)	prov sum (monthly)	18	R 7 500,00	135 000,00
	(b) Handling costs, profit and all other charges in respect of item P.S.C1.2.4.3 (a)		135 000,00		
<b>C1.2.5</b>	<b>Safety</b>				
C1.2.5.1	Health and safety plan	lump sum			
C1.2.5.2	Implementation of health and safety plan	month	18		
<b>C1.2.6</b>	<b>Work adjacent to properties</b>				
C1.2.6.1	Survey of adjacent properties	prov sum		R 90 000,00	Rate Only
<b>Total Carried Forward</b>					

## C2.2.5

**CITY OF MBOMBELA**  
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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
<b>Brought Forward</b>					
C1.2.6.2	Preventive and/or mitigation measures	prov sum		R 90 000,00	Rate Only
C1.2.6.3	Handling cost, profit and all other charges in respect of item C1.2.6.1 and C1.2.6.2	%	-		Rate Only
<b>B.C.1.2.10 Accredited Training</b>					
B.C.1.2.10.1	Accredited and approved training courses for selected local and other labourers including wages during training				500 000,00
B.C.1.2.10.2	Handling cost, profit and all other charges in respect of item B.C.1.2.10.1	%	500 000,00		
<b>B.C.1.2.11 Other General Requirements and Provisions</b>					
B.C.1.2.11.1	Other non-specified general requirements and provisions as will be directed by the Employer's Agent during execution of works				200 000,00
B.C.1.2.11.2	Handling cost, profit and all other charges in respect of item B.C.1.2.11.1	%	200 000,00		
<b>C1.2.8 Dayworks</b>					
C1.2.8.1	Personnel				
(a)	Unskilled labourer	h	20		
(b)	Semi-skilled labourer	h	20		
(c)	Skilled labourer	h	20		
(d)	Gang leader	h	20		
(e)	Foreman	h	20		
(f)	Skilled Artisan	h	20		
C1.2.8.2	Construction equipment (specify size and / or model number):				
(a)	Motor grader	h	20		
(b)	Vibratory roller	h	20		
(c)	Pneumatic roller	h	20		
(d)	Front end loader	h	20		
(e)	Tractor loader backhoe	h	20		
(f)	Excavator	h	20		
(g)	Compressor	h	20		
(h)	Mechanical Broom	h	20		
<b>Total Carried Forward</b>					

## C2.2.6

CITY OF MBOMBELA  
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TENDER NUMBER: COM11/2023  
PAVING OF GOROMANE TO KAMABUZA (VIA TFO LINHLANHLA) AT SHABALALA WARD 1

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
<b>Brought Forward</b>					
C1.2.8.3	Vehicles (specify size):				
(a)	Light delivery vehicle	km	100		
(b)	Flatbed truck	km	100		
(c)	Dump truck	km	100		
C1.2.8.4	Materials:				
	(a) Procurement of materials	Prov sum			100 000,00
	(b) Contractor's handling costs, profit and all other charges in respect of item C1.2.8.4(a)	%	100 000,00		
<b>Total Carried Forward to Summary</b>					

## C2.2.7

CITY OF MBOMBELA  
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TENDER NUMBER: COM11/2023  
PAVING OF GOROMANE TO KAMABUZA (VIA TFO LINHLANHLA) AT SHABALALA WARD 1

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
<b>C1.3</b>	<b>CONTRACTOR'S SITE ESTABLISHMENT AND GENERAL OBLIGATIONS</b>				
<b>C1.3.1</b>	<b>The Contractor's general obligations:</b>				
C1.3.1.1	Fixed obligations	lump sum			
C1.3.1.2	Value-related obligations	lump sum			
C1.3.1.3	Time-related obligations	month	18		
<b>B.C1.3.2</b>	<b>Contract sign boards</b>	<b>No.</b>	<b>2</b>		
<b>Total Carried Forward to Summary</b>					

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**TENDER NUMBER: COM11/2023**  
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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
<b>C1.4</b>	<b>FACILITIES FOR THE ENGINEER</b>				
<b>C1.4.1</b>	<b>Site accommodation:</b>				
C1.4.1.1	Offices and conference room (3 No.)	m <sup>2</sup>	54		
C1.4.1.6	Car ports	No.	4		
C1.4.1.7	Ablution unit (equipped as specified)	No	1		
C1.4.1.9	Kitchen unit (equipped as specified)	No	1		
C1.4.1.13	Rented housing paid for by the Contractor	Prov sum			135 000,00
C1.4.1.14	Contractor's handling costs, profit and all other charges in respect of item C1.4.1.13	%	135 000,00		
<b>C1.4.2</b>	<b>Items measured by area:</b>				
C1.4.2.1	Shelving as specified, complete with brackets	m <sup>2</sup>	10		
C1.4.2.7	Venetian blinds	m <sup>2</sup>	20		
C1.4.2.8	Notice boards	m <sup>2</sup>	4		
C1.4.2.9	White boards	m <sup>2</sup>	4		
<b>C1.4.3</b>	<b>Items measured by number:</b>				
C1.4.3.1	Office swivel chair	No	11		
C1.4.3.2	Office chair	No	15		
C1.4.3.5	Office desk with 3 drawers (at least one lockable drawer)	No	2		
C1.4.3.6	Typist desk (L-shaped)	No	1		
C1.4.3.7	Drawing table	No	1		
C1.4.3.8	Conference table	No	1		
C1.4.3.10	Filing cabinet	No	2		
C1.4.3.11	General purpose steel cabinet with shelves	No	2		
C1.4.3.12	Wall mounted pivot plan filing system	No	1		
C1.4.3.13	220 / 250 volt power outlet plug point	No	4		
C1.4.3.17	11 watt compact fluorescent bulb ceiling light	No	4		
C1.4.3.18	7 watt LED bulb ceiling light	No	4		
C1.4.3.19	Wash-hand basin	No	1		
C1.4.3.23	Fire extinguisher 9,0 kg, dry powder type	No	2		
C1.4.3.24	Air-conditioning unit	No	2		
<b>Total Carried Forward</b>					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
<b>Brought Forward</b>					
C1.4.3.27	Waste paper basket	No	2		
C1.4.3.28	UPS / Voltage stabiliser	No	1		
C1.4.3.29	A3 / A4 colour printer, copier, scanner	No	1		
C1.4.3.31	Rain gauge	No	1		
C1.4.3.36	Measuring wheel	No	1		
C1.4.3.37	First aid kit	No	1		
C1.4.3.38	Standpipe complete with 30 m of 19 mm dia. heavy duty hose pipe	No	1		
<b>C1.4.4</b>	<b>Prime cost items:</b>				
C1.4.4.1	Cell phones costs, including pro-rata rentals, for calls made in connection with contract administration	PC sum			200 000,00
C1.4.4.2	Handling costs and profit in respect of item C1.4.4.1	%	200 000,00		
C1.4.4.5	The provision of internet connectivity and WiFi data for Engineer's site staff	PC sum			18 000,00
C1.4.4.6	Handling costs and profit in respect of item C1.4.4.5	%	18 000,00		
C1.4.4.7	The provision of paper and ink for a combination colour printer / copier / scanner	PC sum			10 000,00
C1.4.4.8	Handling costs and profit in respect of item C1.4.4.7	%	10 000,00		
C1.4.4.9	The provision of a complete 220 / 250 volt single phase electrical power installation, including all poles, insulators, wiring, switchboards, mains connections, meters, etc.	PC sum			20 000,00
C1.4.4.10	Handling costs and profit in respect of item C1.4.4.9	%	20 000,00		
<b>C1.4.5</b>	<b>Services at site offices, laboratories and site accommodation:</b>				
C1.4.5.1	Fixed costs	Lump sum			
C1.4.5.2	Running costs	month	18		
<b>Total Carried Forward to Summary</b>					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
<b>C1.5</b>	<b>ACCOMMODATION OF TRAFFIC</b>				
<b>C1.5.1</b>	<b>Accommodation of pedestrian and non-motorised traffic</b>				
C1.5.1.1	Accommodation of pedestrian and non-motorised traffic	month	18		
<b>C1.5.2</b>	<b>Accommodation of vehicular traffic</b>	month	18		
<b>C1.5.4</b>	<b>Construction of temporary deviations</b>	Prov Sum (per km)	4,35	50 000,00	217 500,00
<b>C1.5.5</b>	<b>Maintenance of temporary deviations:</b>	Prov Sum (per km)	4,35	25 000,00	108 750,00
<b>C1.5.6</b>	<b>Removal of temporary deviations</b>	Prov Sum (per km)		10 000,00	Rate Only
<b>C1.5.7</b>	<b>Temporary traffic control facilities:</b>				
C1.5.7.1	Delineators including mounting bases and ballast:				
	(a) Single sided, reversible left or right (800 x 200)	No	25		
	(b) Double sided, reversible left or right (800 x 200)	No	50		
C1.5.7.2	Traffic cones, minimum height 750 mm	No	25		
C1.5.7.3	Flagmen	man-shift	792		
C1.5.7.4	Traffic controllers	man-shift	792		
C1.5.7.7	Traffic calming devices:				
	(a) 25 mm high x 100 mm wide asphalt rumble strips	m			Rate Only
	(b) 50 mm high x 500 m wide asphalt rumble strips	m			Rate Only
	(c) 150 mm high x 3 m wide asphalt speed control humps	m			Rate Only
<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	50		
C1.5.11.2	Provision of hard hats for visitors	No	10		
<b>C1.5.12</b>	<b>Additional traffic accommodation facilities ordered by the Engineer:</b>				
C1.5.12.1	Provision of additional traffic accommodation facilities (to be instructed by the Employer's Agent)	Prov sum			50 000,00
C1.5.12.2	Handling cost, profit and all other charges in respect of item C1.5.12.1	%	50000		
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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
<b>C1.6</b>	<b>CLEARING AND GRUBBING</b>				
<b>C1.6.1</b>	<b>Clearing:</b>				
C1.6.1.1	Clearing with machines and some hand labour where necessary	ha	2		
<b>C1.6.2</b>	<b>Grubbing:</b>				
C1.6.2.1	Grubbing with machines and some hand labour where necessary	ha	2		
C1.6.2.2	Grubbing with hand labour when labour enhancement work is specified or it is not practical to use a machine	ha			Rate Only
<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			Rate Only
C1.6.3.2	Girth exceeding 2,0 m up to and including 3,0 m	No			Rate Only
C1.6.3.3	Girth exceeding 3,0 m	No			Rate Only
<b>C1.6.4</b>	<b>Removal of buildings and structures:</b>	<b>Prov Sum</b>			<b>20 000,00</b>
<b>Total Carried Forward to Summary</b>					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
<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	m³	4900		
<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	m³-km	186850		
C1.7.2.2	Hauling material to spoil and off-loading it at a designated spoil area:				
(a)	Cleared and grubbed material (organic matter and all other unsuitable or waste material)	m³-km	400		
(b)	Soil and gravel material	m³-km	105200		
(c)	Boulders and hard material	m³-km	806		
<b>Total Carried Forward to Summary</b>					

## C2.2.13

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PAVING OF GOROMANE TO KAMABUZA (VIA TFOLINHLANHLA) AT SHABALALA WARD 1

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
<b>C2.1</b>	<b>GENERAL REQUIREMENTS AND TRENCHING FOR SERVICES</b>				
<b>C2.1.1</b>	<b>Location, identification, protection and relocation of existing services</b>				
C2.1.1.1	Contractor's obligations	lump sum			
C2.1.1.2	Permanent services relocation or protection work by others	PC Sum			1 000 000,00
C2.1.1.3	Handling costs and profit in respect of item C2.1.1.2 above	%	1 000 000,00		
C2.1.1.4	Permanent services relocation or protection work by the Contractor	Prov Sum			200 000,00
<b>C2.1.2</b>	<b>Existing services location, detection and verification</b>				
C2.1.2.1	Using specialist detection services (ground penetrating radar, radio detection etc.)	PC Sum			20 000,00
C2.1.2.2	Handling costs and profit in respect of item C2.1.2.1 above	%	20 000,00		
C2.1.2.3	Survey to verify existing service positions	PC Sum			20 000,00
C2.1.2.4	Handling costs and profit in respect of item C2.1.2.3 above	%	20 000,00		
C2.1.2.5	Using hand excavation to locate, expose and verify services	m³	100		
<b>C2.1.3</b>	<b>Obtaining construction or work permits</b>	<b>lump sum</b>			
<b>C2.1.4</b>	<b>Provision of guarantees or deposits for services</b>				
C2.1.4.1	Providing guarantees and deposits	PC Sum			50 000,00
C2.1.4.2	Handling costs and profit in respect of item C2.1.4.1 above	%	50 000,00		
<b>C2.1.5</b>	<b>Provision of record drawings and applicable data</b>	<b>lump sum</b>			
<b>C2.1.16</b>	<b>Subsurface drains in trench bottoms</b>	<b>m</b>			<b>Rate Only</b>
<b>Total Carried Forward to Summary</b>					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
<b>C3.1</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 using conventional methods:				
(a)	0 m to 1,5 m	m <sup>3</sup>			Rate Only
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>			Rate Only
<b>C3.1.4</b>	<b>Type 5: Cut-off drain (subsoil drain) to be constructed (specified for project) as per Drawing No. 065/GOR/R1211 - Rev 0 Excavation and disposal of material for subsoil drainage systems:</b>				
C3.1.4.1	Excavating in all material situated within the following depth ranges below the surface:				
(a)	0 m to 1,5 m	m <sup>3</sup>	1350		
(b)	Exceeding 1,5 m and up to 3,0 m	m <sup>3</sup>			Rate Only
(c)	Exceeding 3,0 m and up to 4,5 m	m <sup>3</sup>			Rate Only
C3.1.4.2	Excavating soft material situated within 0 m to 1,5 m below the surface level using labour enhanced construction methods	m <sup>3</sup>			Rate Only
C3.1.4.3	Excavating intermediate material situated within 0 m to 1,5 m below the surface level using labour enhanced construction methods	m <sup>3</sup>			Rate Only
C3.1.4.4	Extra over sub-item C3.1.4.1 for excavation in hard and boulder material, irrespective of depth	m <sup>3</sup>			Rate Only
<b>C3.1.5</b>	<b>Impermeable backfilling to subsoil drainage systems</b>				
C3.1.5.1	Un-stabilised natural gravel obtained from approved sources on the site	m <sup>3</sup>			Rate Only
C3.1.5.2	G5 material obtained from commercial sources	m <sup>3</sup>	495		
C3.1.5.3	Extra over items C3.1.5.1 and C3.1.5.2 for stabilisation with 4,0 % CEM II (32.5) cement	m <sup>3</sup>			Rate Only
<b>C3.1.7</b>	<b>Natural permeable material in subsoil drainage systems (approved crushed stone):</b>				
C3.1.7.2	Crushed stone obtained from commercial sources				
	(a) Coarse graded stone (19 mm nominal size aggregate)	m <sup>3</sup>			Rate Only
	(b) Coarse graded stone (36 mm nominal size aggregate)	m <sup>3</sup>	405		
<b>Total Carried Forward</b>					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
<b>Brought Forward</b>					
<b>C3.1.9</b>	<b>Pipes in subsoil drainage systems:</b>				
C3.1.9.1	U-PVC pipes and fittings, normal duty, complete with couplings				
	(a) 110 mm Nominal Diameter (Perforated)	m	1500		
	(a) 160 mm Nominal Diameter (Perforated)	m			Rate Only
<b>C3.1.10</b>	<b>Polymer film sheeting or similar approved material, for lining subsoil drainage systems:</b>				
C3.1.10.1	0,15 mm thick	m <sup>2</sup>			Rate Only
C3.1.10.2	0,25 mm thick	m <sup>2</sup>	3150		
<b>C3.1.11</b>	<b>Geotextiles</b>				
	(a) Kaytech Grade A2 or similar approved material	m <sup>2</sup>	3375		
<b>C3.1.13</b>	<b>Concrete outlet structures, manhole boxes, junction boxes and cleaning eyes for subsoil drainage systems:</b>				
C3.1.13.1	Outlet structures				
	(a) Sub-surface Drainage Outlet Structure (As per Drawing No. 065/GOR/R1211 Rev 0 - Complete)	No	10		
	(b) Sub-surface Drainage In Headwall Structure (As per Drawing No. 065/GOR/R1211 Rev 0 - Complete)	No			Rate Only
C3.1.13.2	Manhole boxes				
	(a) Sub-surface Drainage Manhole (As per Drawing No. 065/GOR/R1212 Rev 0 - Complete)				
	(a) 0 m to 1,5 m Depth	No	10		
	(b) Exceeding 1,5 m and up to 3,0 m Depth	No			Rate Only
	(c) Exceeding 3,0 m and up to 4,5 m	No			Rate Only
C3.1.13.3	Junction boxes	No			Rate Only
C3.1.13.4	Cleaning eyes	No	10		
<b>C3.1.14</b>	<b>Caps for subsoil drain pipes:</b>				
C3.1.14.1	Concrete caps	No.	10		
<b>C3.1.16</b>	<b>Loading and hauling of material in excess of 1,0 km</b>	m <sup>3</sup> -km	5400		
<b>C3.1.17</b>	<b>Backfilling existing eroded side drains</b>	m <sup>3</sup>			Rate Only
<b>Total Carried Forward</b>					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
Brought Forward					
C3.1.18	Backfilling of drains with selected material compacted to 93 % of MDD prior to construction of concrete lining and/or stone pitched lining	m³	1050		
C3.1.22	Test flushing of subsoil drain pipe systems	No.	5		
C3.1.23	Subsoil drain outlet marker	No.	20		
Total Carried Forward to Summary					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
<b>C3.2</b>	<b>CULVERTS</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>	3000		
(b)	Exceeding 1,5 m and up to 3,0 m	m <sup>3</sup>			Rate Only
(c)	Exceeding 3,0 m and up to 4,5 m	m <sup>3</sup>			Rate Only
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>	100		
<b>C3.2.2</b>	<b>Backfilling:</b>				
C3.2.2.1	Using the excavated material	m <sup>3</sup>			Rate Only
C3.2.2.2	Using imported selected material:				
(a)	From commercial sources				
(i)	Selected material	m <sup>3</sup>			Rate Only
(ii)	Rockfill	m <sup>3</sup>	500		
(b)	From sources on site				
(ii)	Selected material from other excavations on site	m <sup>3</sup>	2250		
C3.2.2.4	Extra over sub-items C3.2.2.1 and C3.2.2.2 for screed layers				
(a)	15 MPa/19 mm concrete	m <sup>3</sup>			Rate Only
<b>C3.2.3</b>	<b>Concrete pipe culverts:</b>				
C3.2.3.2	On Class C bedding				
(a)	600mm dia. Type 100D with ogee joints	m	100		
(b)	750mm dia. Type 100D with ogee joints	m	340		
(c)	900mm dia. Type 100D with ogee joints	m	560		
<b>C3.2.5</b>	<b>Rectangular culverts with prefabricated elements:</b>				
C3.2.5.1	Prefabricated portal culverts; wall and roof combination				
(a)	1200x1200 150s	m			Rate Only
(b)	1500x1500 100s	m			Rate Only
<b>C3.2.6</b>	<b>Extra over items C3.2.3, C3.2.4 and C3.2.5 for constructing inclined culverts</b>	<b>m</b>			<b>Rate Only</b>
<b>Total Carried Forward</b>					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
<b>Brought Forward</b>					
<b>C3.2.7</b>	<b>Cast in situ concrete and formwork:</b>				
C3.2.7.1	In Class A bedding, screeds, concrete backfill and the encasing for pipes, including formwork,  (a) 15 MPa/19 mm concrete	m <sup>3</sup>	60		
C3.2.7.2	In complete in situ floor slabs for rectangular culverts, manholes and catchpits including formwork, joints and Class U2 surface finish (installed at a standard depth of 1,0 m)  (a) 25 MPa/19 mm concrete	m <sup>3</sup>			Rate Only
C3.2.7.3	In walls, excluding formwork but including Class U2 surface finish  (a) 25 MPa/19 mm concrete	m <sup>3</sup>			Rate Only
C3.2.7.4	In roof slabs for rectangular culverts, excluding formwork but including Class U2 surfacing finish and joints  (a) 25 MPa/19 mm concrete	m <sup>3</sup>			Rate Only
C3.2.7.5	In inlet and outlet structures including kerbs, chutes and downpipes, skewed ends, catchpits, manholes, thrust and anchor blocks, excluding formwork but including Class U2 surfacing finish  (a) 25 MPa/19 mm concrete	m <sup>3</sup>	40		
C3.2.7.6	Formwork of concrete under items C3.2.7.3 to 5 above (U2 Class of finish )	m <sup>2</sup>	200		
<b>C3.2.8</b>	<b>Concrete backfill or encasement for culverts</b>  (a) 15 MPa/19 mm concrete	m <sup>3</sup>			Rate Only
<b>C3.2.9</b>	<b>Prefabricated concrete inlets and outlets to culverts</b>				
	a) Double Barrel x Ø900 Pipes Outlet Structure Complete	No.			Rate Only
	b) Single Barrel x Ø900 Pipe Outlet Structure Complete	No.			Rate Only
	c) Double Barrel x Ø750 Pipes Outlet Structure Complete	No.			Rate Only
	d) Single Barrel x Ø750 Pipes Outlet Structure Complete	No.			Rate Only
	e) Double Barrel x Ø600 Pipes Outlet Structure Complete	No.			Rate Only
	f) Single Barrel x Ø600 Pipes Outlet Structure Complete	No.			Rate Only
<b>Total Carried Forward</b>					



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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
<b>Brought Forward</b>					
<b>C3.2.10</b>	<b>Reinforcement:</b>				
C3.2.10.1	Mild steel bars	t			Rate Only
C3.2.10.2	High-tensile steel bars	t	20		
C3.2.10.3	Welded steel fabric	kg	5000		
<b>C3.2.13</b>	<b>Removing and re-laying existing culverts:</b>				
C3.2.13.1	Removing and stacking existing culverts for re-use				
	(a) 450 mm dia. concrete	m			Rate Only
	(b) 600 mm dia. concrete	m			Rate Only
	(c) 750 mm dia. concrete	m			Rate Only
	(d) 900 mm dia. concrete	m			Rate Only
<b>B.C3.2.15</b>	<b>Manholes and catch pits. The tendered rate shall include full compensation for bedding, procuring materials, providing materials, loading, transporting, off-loading and construction/installing the structures as per identified drawings as specified</b>				
	(a) Manholes - Exposed Shallow Junction Box as per Drawing No. 065/GOR/R1209 Rev 0 - Complete				
	(a) (i) 0 m to 1,5 m deep	No			Rate Only
	(a) (ii) Exceeding 1,5 m to 3,0 m deep	No	10		
	(a) (iii) Exceeding 3,0 m to 4,5 m deep	m - No			Rate Only
	(b) Catchpits				
	(b) (i) Kerb Inlet as per Drawing No. 065/GOR/R1208 Rev 0 - Complete				
	(b) (i) (1) 0 m to 1,5 m deep	No			Rate Only
	(b) (i) (2) Exceeding 1,5 m to 3,0 m deep	No	2		
	(b) (i) (3) Exceeding 3,0 m to 4,5 m deep	m - No			Rate Only
	(b) (ii) Drop Inlet as per Drawing No. 065/GOR/R1202 Rev 0 - Complete	No	2		
	(b) (iii) Extra over for 4,8m Long Side Kerb Inlet. Variation of item (b)(i) above	No			
	(b) (iii) (1) 0 m to 1,5 m deep	No			Rate Only
	(b) (iii) (2) Exceeding 1,5 m to 3,0 m deep	No			Rate Only
	(b) (ii) (3) Exceeding 3,0 m to 4,5 m deep	m - No			Rate Only
<b>Total Carried Forward</b>					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
Brought Forward					
C3.2.23	Breaking into existing drainage structures and building in pipes or culverts of the following size				
	(a) 450 mm dia. concrete	No			Rate Only
	(b) 600 mm dia. concrete	No			Rate Only
	(c) 750 mm dia. concrete	No			Rate Only
	(d) 900 mm dia. concrete	No			Rate Only
Total Carried Forward to Summary					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
<b>C3.3</b>	<b>CONCRETE KERBING AND CHANNELING, ASPHALT BERMS, CHUTES, DOWNPIPES, AS WELL AS CONCRETE, STONE PITCHED AND GABION LININGS FOR OPEN DRAINS</b>				
<b>C3.3.1</b>	<b>Concrete kerbing:</b>				
C3.3.1.1	Prefabricated kerbing on a bed of cement and river sand mix 1:3 as shown on Drawing No. 065/GOR/R051 - Rev 0				
(a)	Mountable kerb, SABS 927 fig 8C	m			Rate Only
C3.3.1.2	Cast in situ kerbing as shown on Drawing No. 065/GOR/R051 - Rev 0				
(a)	250 mm x 200 mm cast in situ class 25/19 concrete edge beam, as shown on the detailed drawings	m	1960		
(b)	150 mm x 100 mm cast in situ class 25/19 concrete edge beam, as shown on the detailed drawings	m	5125		
(c)	300 mm x 100 mm cast in situ class 25/19 concrete edge beam, as shown on the detailed drawings	m			Rate Only
<b>C3.3.2</b>	<b>Concrete kerbing-channeling combination:</b>				
C3.3.2.1	Prefabricated kerbing-channeling, kerbs of which to be on a bed of cement and river sand mix 1:3 as shown on Drawing No. 065/GOR/R051 - Rev 0				
(a)	Prefabricated mountable kerb, SABS 927 fig 8C, with 300mm X 100mm wide cast in situ class 25MPa/19 mm concrete channel	m	680		
(b)	Prefabricated battered kerb, SABS 927 fig 7 (semi-mountable), with 300mm X 100mm wide cast in situ class 25MPa/19 mm concrete channel	m	1460		
<b>C3.3.3</b>	<b>Extra over items C3.3.1 and C3.3.2 for concrete kerbing or concrete kerbing and channeling on curves</b>				
C3.3.3.1	On curves of radii more than or equal to 5,0 m but less than 20 m	m	100		
C3.3.3.2	On curves with radii more than or equal to 1,0 m but less than 5,0 m	m	400		
C3.3.3.3	On curves with radii less than 1,0 m	m			Rate Only
<b>C3.3.4</b>	<b>Extra over item C3.3.2 for drop kerbs at pedestrian crossings and driveways</b>	m			Rate Only
<b>C3.3.6</b>	<b>Concrete chutes (typical designs):</b>				
C3.3.6.2	Cast in situ concrete chutes, class 25MPa/19 mm	m <sup>3</sup>	100		
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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
<b>Brought Forward</b>					
<b>C3.3.8</b>	<b>Linings for open drains:</b>				
C3.3.8.1	Cast in situ concrete lining, , class 25MPa/19 mm for V-drains				
	(a) Detail as shown on Drawing No. 065/GOR/R051 - Rev 0 Typical Road Section 3	m <sup>3</sup>			Rate Only
	(b) Detail as shown on Drawing No. 065/GOR/R051 - Rev 0 Typical Road Section 4	m <sup>3</sup>	850		
C3.3.8.2	Class U2 surface finish to cast in situ concrete for v-drain				
	(a) Detail as shown on Drawing No. 065/GOR/R051 - Rev 0 Typical Road Section 3	m <sup>2</sup>			Rate Only
	(b) Detail as shown on Drawing No. 065/GOR/R051 - Rev 0 Typical Road Section 4	m <sup>2</sup>	6750		
C3.3.8.3	Stone pitched lining (200 mm thickness)				
	(a) Grouted stone pitching for trapezoidal drain	m <sup>2</sup>	400		
	(b) Grouted stone pitching for V-drain	m <sup>2</sup>			Rate Only
<b>C3.3.9</b>	<b>Formwork to cast in situ concrete lining for open drains (Class F2 surface finish):</b>				
C3.3.9.1	To sides with formwork on the internal face only	m <sup>2</sup>	2000		
C3.3.9.2	To sides with formwork on both internal and external faces (each face measured)	m <sup>2</sup>			Rate Only
C3.3.9.3	To ends of slabs	m <sup>2</sup>	200		
<b>C3.3.10</b>	<b>Sealed joints in concrete and stone pitched linings of open drains</b>	<b>m</b>	<b>2000</b>		
<b>C3.2.12</b>	<b>Reinforcement:</b>				
C3.2.12.1	Mild steel bars	t			Rate Only
C3.2.12.2	High-tensile steel bars	t			Rate Only
C3.2.12.3	Welded steel fabric	kg	30000		
<b>C3.3.13</b>	<b>Polymer film sheeting 0,15 mm thick for concrete-lined open drains</b>	<b>m<sup>2</sup></b>	<b>7000</b>		
C3.3.14	Cutting bituminous surfacing and pavement layers for concrete kerbing, channeling or concrete-lined drains	m	100		
<b>C3.3.15</b>	<b>Energy dissipaters in outlet structures</b>				
C3.3.15.1	Precast concrete blocks in outlet structures	No	50		
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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
<b>Brought Forward</b>					
<b>C3.3.16</b>	<b>Demolition and removal of existing kerbs and/or channel (maximum size 1,5m wide)</b>	<b>m³</b>			<b>Rate Only</b>
B.C.23.05	Inlet, outlet, transition and similar structures (typical designs):  (a) Transition between mountable kerb, SABS 927 fig 8C or semi-mountable kerb SABS 927 fig 7 and to stormwater drain or edge beam, or mountable kerb or SABS 927 fig 8C class 25/19 concrete, complete with joints (measured per 2m length of transition) - Transition structures details as per Drawing Nos. 065/GOR/R1209 Rev 0 and 065/GOR/R1213 - Rev 0	No.	70		
B.C.23.07	Trimming of excavations for concrete-lined open drains (a) In soft material	m²	6750		
	(b) In hard material	m²			Rate Only
<b>Total Carried Forward to Summary</b>					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
<b>C4.1</b>	<b>BORROW MATERIALS</b>				
<b>C4.1.4</b>	<b>Removing of the overburden</b>				
C4.1.4.1	In borrow pits	m³	2500		
<b>C4.1.5</b>	<b>Excavating of materials in the borrow pits and quarries, material obtained from</b>				
C4.1.5.1	Soft excavation	m³	22150		
C4.1.5.4	Hard excavation (other than by blasting)	m³			Rate Only
C4.1.5.5	Hard excavation (by blasting)	m³			Rate Only
<b>C4.1.9</b>	<b>Breaking down oversize material</b>	m³			<b>Rate Only</b>
<b>C4.1.15</b>	<b>Shaping and finishing the borrow pit and quarry areas, and the stockpile sites</b>				
C4.1.15.1	Shaping and finishing the borrow pit and quarry areas, and the stockpile sites	ha	1		
<b>C4.1.18</b>	<b>Compensation to landowners or legal occupants in respect of land acquisition, royalties and/or loss of crops</b>				
C4.1.18.1	Amount allowed, expenditure to be approved or instructed by the Employer	Prov Sum			100 000,00
C4.1.18.2	Handling costs and profit in respect of item C4.1.18.1	%	100 000,00		
<b>Total Carried Forward to Summary</b>					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
<b>C4.2</b>	<b>CUT MATERIALS</b>				
<b>C4.2.4</b>	<b>Excavating of materials in cuttings, material obtained from</b>				
C4.2.4.1	Soft excavation	m <sup>3</sup>			Rate Only
C4.2.4.2	Boulder excavation class A	m <sup>3</sup>			Rate Only
C4.2.4.3	Boulder excavation class B	m <sup>3</sup>			Rate Only
C4.2.4.4	Hard excavation (other than by blasting)	m <sup>3</sup>			Rate Only
C4.2.4.5	Hard excavation (by blasting)	m <sup>3</sup>			Rate Only
<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>			Rate Only
C4.2.7.2	In layer thicknesses exceeding 200 mm	m <sup>3</sup>			Rate Only
<b>C4.2.9</b>	<b>Excavate material to spoil in sites designated by the Contractor, material obtained from</b>				
C4.2.9.1	Soft excavation	m <sup>3</sup>	16500		
C4.2.9.2	Boulder excavation class A	m <sup>3</sup>			Rate Only
C4.2.9.3	Boulder excavation class B	m <sup>3</sup>			Rate Only
C4.2.9.4	Hard excavation (other than by blasting)	m <sup>3</sup>	200		
C4.2.9.5	Hard excavation (by blasting)	m <sup>3</sup>			Rate Only
<b>C4.2.11</b>	<b>Breaking down oversize material</b>	m <sup>3</sup>			Rate Only
<b>C4.2.12</b>	<b>Finishing the side slopes</b>				
C4.2.12.1	Cuttings:				
	(a) In soft material	m <sup>2</sup>			Rate Only
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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
<b>C4.3</b>	<b>EXISTING ROAD MATERIALS</b>				
<b>C4.3.2</b>	<b>Cleaning the existing road surface</b>				
C4.3.2.1	Cost to clean the road surface	Prov. Sum			50 000,00
C4.3.2.2	Handling costs and profit in respect of item C4.3.2.1	%	50 000,00		
<b>C4.3.9</b>	<b>Excavating material by using conventional road construction equipment</b>				
C4.3.9.3	Cemented material	m³	2450		
C4.3.9.4	Natural gravel and sand materials	m³	2450		
C4.3.11	Breaking down a stabilised layer by using conventional road construction equipment	m³	2450		
<b>C4.3.12</b>	<b>Removing of existing road edging and services structures</b>				
<b>C4.3.14.1</b>	<b>Removing of existing concrete material within the following average depth ranges</b>				
C4.3.12.1	The break-up method:				
(a)	Not exceeding 150 mm	m³			Rate Only
(b)	Exceeding 150 mm but not exceeding 250 mm	m³			Rate Only
C4.3.12.3	The lift-out method:				
(a)	Not exceeding 150 mm	m³	300		
(b)	Exceeding 150 mm but not exceeding 250 mm	m³			Rate Only
<b>C4.3.14.1</b>	<b>Removing of existing road edging and services structures using construction equipment</b>				
	(a) Kerbing and edge beams:				
	(a) (i) In situ concrete kerbing and edge beams	m³	40		
	(a) (ii) Precast concrete kerbing	m			Rate Only
	(a) (iii) Precast concrete kerbing and in-situ concrete channel	m			Rate Only
	(b) Kerb inlets	No.	4		
<b>C4.3.15</b>	<b>Stockpiling of road layer materials</b>				
C4.3.15.3	Cemented material	m³	2450		
C4.3.15.4	Natural gravel and sand materials	m³	2450		
<b>Total Carried Forward to Summary</b>					



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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
<b>C5.1</b>	<b>ROADBED</b>				
<b>C5.1.1</b>	<b>Roadbed construction and compaction</b>				
C5.1.1.1	Compaction of in-situ material to 90 % of MDD	m <sup>3</sup>	6100		
<b>C5.1.3</b>	<b>Excavate material to spoil sites designated by the Contractor</b>				
C5.1.3.1	Excavate material to spoil from roadbed construction, material obtained from:				
	(a) Soft excavation	m <sup>3</sup>			Rate Only
	(b) Boulder excavation Class A	m <sup>3</sup>			Rate Only
	(c) Boulder excavation Class B	m <sup>3</sup>			Rate Only
	(d) Hard excavation (other than by blasting)	m <sup>3</sup>			Rate Only
	(e) Hard excavation (by blasting)	m <sup>3</sup>			Rate Only
<b>C5.1.6</b>	<b>Roller-pass compaction</b>				
C5.1.6.2	Pad foot vibratory rollers	m <sup>2</sup>			Rate Only
C5.1.6.3	Smooth drum vibratory rollers	m <sup>2</sup>			Rate Only
C5.1.11	Construction of roadbed comprising a pioneer layer	m <sup>3</sup>			Rate Only
<b>Total Carried Forward to Summary</b>					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
<b>C5.2</b>	<b>FILL</b>				
<b>C5.2.2</b>	<b>Fill construction</b>				
C5.2.2.1	Normal fill material in compacted layer thicknesses of 200 mm and less:				
(a)	Compacted to 90 % of MDD	m <sup>3</sup>			Rate Only
(b)	Compacted to 93 % of MDD	m <sup>3</sup>			Rate Only
(c)	Roller-pass compaction	m <sup>2</sup>			Rate Only
C5.2.2.4	Rock fill material all as per Clause A5.2.7.6	m <sup>3</sup>	100		
<b>Total Carried Forward to Summary</b>					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
<b>C5.3</b>	<b>ROAD PAVEMENT LAYERS</b>				
<b>C5.3.2</b>	<b>Construction of pavement layers</b>				
C5.3.2.1	Construction of layers using conventional construction methods:				
(a)	Lower selected subgrade layer (150mm layer thickness) compacted to 93 % of MDD	m³	5850		
(h)	Gravel shoulder layer (150mm layer thickness) compacted to 95 % of MDD	m³	9700		
(j)	Lower subbase gravel layer (chemically stabilised - C4) (150mm layer thickness) compacted to 95 % of MDD	m³	5650		
(n)	Gravel base layer (chemically stabilised - C3), (150mm layer thickness) compacted to 97 % of MDD	m³	5450		
<b>Total Carried Forward to Summary</b>					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
<b>C5.4</b>	<b>STABILISATION</b>				
<b>C5.4.2</b>	<b>Chemical stabilisation</b>				
C5.4.2.1	Chemical stabilisation (150mm layer thickness) of pavement layers				
	(b) (j) Lower subbase gravel layer (chemically stabilised - C4) (150mm layer thickness) compacted to 95 % of MDD	m³	5650		
	(b) (n) Gravel base layer (chemically stabilised - C3), (150mm layer thickness) compacted to 97 % of MDD	m³	5450		
<b>C5.4.5</b>	<b>Cementitious stabilisation agents for pavement layers</b>				
(a)	Cement (for pavement layer)	t	725		
(b)	Lime (for pavement layer)	t			Rate Only
<b>C5.4.10</b>	<b>Provision and application of water for curing</b>	kl	2000		
<b>Total Carried Forward to Summary</b>					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
<b>C6.2</b>	<b>SEGMENTAL BLOCK PAVING LAYERS</b>				
<b>C6.2.1</b>	<b>Segmental block paving</b>				
C6.2.1.1	Concrete block paving				
	(a) 35MPa, interlocking block paving, of 80mm thickness	m²	32000		
	(b) 35MPa, interlocking block paving, of 60mm thickness	m²	6150		
<b>C6.2.3</b>	<b>Provision and application of approved herbicide and ant poison.</b>				
C6.2.3.1	Provision of materials	PC Sum			320 000,00
C6.2.3.2	Contractor's charges and profit added to the prime cost sum	%	320 000,00		
<b>Total Carried Forward to Summary</b>					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
<b>BC8&amp;9</b>	<b>REPAIR WORK ON EXISTING SURFACE</b>				
	<b>CHAPTER 8: PRETREATMENT AND REPAIR OF EXISTING LAYERS</b>				
<b>C8.1</b>	<b>PRIME COAT</b>				
<b>C8.1.1</b>	<b>Prime coat:</b>				
C8.1.1.2	MC -30 cut-back bitumen	l			Rate Only
<b>C8.8</b>	<b>PATCHING AND EDGE BREAK REPAIR</b>				
C8.8.1	Saw cutting pavement layers for patching				
(a)	Not exceeding 50 mm	m	200		
C8.8.1.2	Cemented pavement layers to an average depth				
(a)	Not exceeding 100 mm	m			Rate Only
(b)	Exceeding 100 mm but not exceeding 200 mm	m	200		
(c)	Exceeding 200 mm	m			Rate Only
C8.8.1.3	Granular layers to an average depth				
(a)	Not exceeding 100 mm	m			Rate Only
(b)	Exceeding 100 mm but not exceeding 200 mm	m			Rate Only
(c)	Exceeding 200 mm	m			Rate Only
C8.8.2	Excavation in existing pavements for patching (non-milling)				
C8.8.2.1	Asphalt layers				
(a)	Not exceeding 10 m <sup>2</sup> including for edge repairs wider than 250 mm	m <sup>3</sup>	10		
C8.8.2.2	Cemented layers				
(a)	Not exceeding 10 m <sup>2</sup> including for edge repairs wider than 250 mm	m <sup>3</sup>	30		
C8.8.2.3	Other (Gravel) layers				
(a)	Not exceeding 10 m <sup>2</sup> including for edge repairs wider than 250 mm	m <sup>3</sup>			Rate Only
<b>C8.8.3</b>	<b>Compacting the floor of excavations for patching (compacted to 95 % of MDD)</b>	<b>m<sup>2</sup></b>	<b>200</b>		
<b>C8.8.4</b>	<b>Backfilling of excavations for patching with:</b>				
C8.8.4.1	Chemically stabilized pavement material [Gravel base layer (chemically stabilised - C3), (150mm layer thickness) compacted to 97 % of MDD] for a patch with a surface area:				
(a)	Not exceeding 10 m <sup>2</sup> including for edge repairs wider than 250 mm	m <sup>3</sup>	30		
<b>Total Carried Forward</b>					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
<b>Brought Forward</b>					
<b>CHAPTER 9: ASPHALT LAYERS</b>					
<b>C9.1</b>	<b>ASPHALT LAYERS</b>				
<b>C9.1.3</b>	<b>Application of bond coat</b>				
C9.1.3.1	Stable –grade 30 % net bitumen emulsion as specified. Applied with a calibrated distributor	l	3150		
C9.1.3.2	Applied in restricted areas using a portable pressure sprayer	l	350		
<b>C9.1.5</b>	<b>Asphalt surfacing</b>				
C9.1.5.1	New Construction				
	Stone skeletal mix – continuously graded as defined [20mm thick using B8 road grade bitumen (80/100 penetration grade bitumen) placed using paver]	m <sup>2</sup>	3500		
C9.1.5.2	Rehabilitation				
	Stone skeletal mix – continuously graded as defined [20mm thick using B8 road grade bitumen (80/100 penetration grade bitumen) placed using paver]	t			Rate Only
<b>C9.1.7</b>	<b>Placing and compacting asphalt in restricted areas</b>				
C9.1.7.2	Extra over payment items C9.1.4.2 and C9.1.5.2 - continuously graded as defined [20mm thick using B8 road grade bitumen (80/100 penetration grade bitumen) placed using paver]	m <sup>2</sup>	350		
<b>C9.1.13</b>	<b>Coring of asphalt layers</b>				
C9.1.13.1	100 mm diameter	No	25		
<b>Total Carried Forward to Summary</b>					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
<b>C11.1</b>	<b>PITCHING, STONework, CAST IN SITU CONCRETE FOR PROTECTION AGAINST EROSION</b>				
<b>C11.1.2</b>	<b>Stone pitching</b>				
C11.1.2.1	Plain stone pitching				
(a)	Method 1	m <sup>2</sup>			Rate Only
(b)	Method 2	m <sup>2</sup>			Rate Only
C11.1.2.2	Grouted stone pitching with mortar	m <sup>2</sup>	800		
<b>Total Carried Forward to Summary</b>					



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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
<b>C11.2</b>	<b>NON-STRUCTURAL GABIONS</b>				
<b>C11.2.1</b>	<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 Depth	m <sup>3</sup>	500		
(b)	Exceeding 1,5 m and up to 3,0 m Depth	m <sup>3</sup>			Rate Only
(c)	Exceeding 3,0 m and up to 4,5 m Depth	m <sup>3</sup>			Rate Only
C11.2.1.2	Extra over sub-item C11.2.1.1 for excavation in hard material, irrespective of depth	m <sup>3</sup>			Rate Only
<b>C11.2.2</b>	<b>Surface preparation for bedding the gabion boxes and mattresses</b>	m <sup>2</sup>	<b>1300</b>		
<b>C11.2.3</b>	<b>Gabion boxes and mattresses:</b>				
C11.2.3.1	Galvanized gabion boxes (1m x 1m x 1m deep)	m <sup>3</sup>	500		
C11.2.3.3	Galvanized gabion mattresses (2m x 2m x 0.3m deep)	m <sup>3</sup>	250		
<b>C11.2.4</b>	<b>Geotextiles</b>				
	(a) Kaytech Grade A2 or similar approved material	m <sup>2</sup>	1800		
<b>Total Carried Forward to Summary</b>					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
<b>C11.4</b>	<b>ROAD RESTRAINT SYSTEMS</b>				
<b>C11.4.1</b>	<b>Erecting of guardrails at 3,81 m spacing</b>				
C11.4.1.1	Complete galvanized system complaint to SANS 1350:				
(a)	On timber posts (as per Drawings 065/GOR/R1204A - Rev 0 and 065/GOR/R1204B - Rev 0)	m			Rate Only
(d)	Extra over C11.4.1.1(a) and C11.4.1.1(b) for excavating holes of posts using labour enhanced methods (soft and intermediate)	m			Rate Only
C11.4.1.2	Terminal sections for 3,81 guardrails comprising of				
(a)	End wings to SANS 1350	No			Rate Only
(b)	End treatments where single guardrail sections are specified (Drawing reference)	No			Rate Only
<b>C11.4.4</b>	<b>Extra over for horizontally curved guard rails</b>				
C11.4.4.1	Extra over C11.4.1 and C11.4.11 for horizontally curved guard rails factory bent to a radius of less than 45 m	m			Rate Only
<b>C11.4.5</b>	<b>Additional guardrail posts for 3,81 m systems:</b>				
C11.4.5.1	Timber	No			Rate Only
C11.4.5.3	Extra over C11.4.5.1 and C11.4.5.2 for excavating holes of posts using labour enhanced methods	No			Rate Only
<b>C11.4.6</b>	<b>Reflective plates</b>				
C11.4.6.1	Steel plates	No			Rate Only
<b>C11.4.14</b>	<b>Nailing of gang nail plates on top of timber guardrail posts</b>	No			Rate Only
<b>Total Carried Forward to Summary</b>					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
<b>C11.6</b>	<b>ROAD SIGNS</b>				
<b>C11.6.1</b>	<b>Road signboards 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:</b>				
C11.6.1.1	Aluminium sheet (2.0 mm thick)				
(a)	(a) Area 0 to 0,5m <sup>2</sup>	m <sup>2</sup>			Rate Only
(b)	(b) Area exceeding 0,5m <sup>2</sup> but not 2,0m <sup>2</sup>	m <sup>2</sup>	20		
(c)	(c) Area exceeding 2,0m <sup>2</sup> but not 10m <sup>2</sup>	m <sup>2</sup>	20		
(d)	(d) Area exceeding 10m <sup>2</sup>	m <sup>2</sup>			Rate Only
C11.6.1.7	Regulatory signs, permanent				
(a)	600 mm size	No.	140		
C11.6.1.9	Warning signs, permanent				
(a)	600 mm size	No.			Rate Only
(b)	900 mm size	No.	90		
C11.6.1.11	Supplementary plates to permanent regulatory or warning signs (signboard material, background and symbol retro-reflective class indicated)	m <sup>2</sup>	30		
<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:				
(a)	(a)Class I	m <sup>2</sup>	150		
(b)	(b)Class III	m <sup>2</sup>			Rate Only
(c)	(c)Class IV	m <sup>2</sup>			Rate Only
C11.6.2.2	Lettering, symbols, numbers, arrows, emblems and borders of retro-reflective material:				
(a)	(a)Class III	m <sup>2</sup>			Rate Only
(b)	(b)Class IV	m <sup>2</sup>			Rate Only
<b>C11.6.3</b>	<b>Road sign supports (overhead road sign structures excluded):</b>				
C11.6.3.1	Steel tubing - 75-76mm diameter, 3,5mm thick	t	6,5		
C11.6.3.2	Timber - 150mm diameter, treated timber	m			Rate Only
<b>Total Carried Forward</b>					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
<b>Brought Forward</b>					
<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	m³			Rate Only
C11.6.5.2	Excavating soft or intermediate material and backfilling using labour enhanced construction methods	m³	100		
C11.6.5.3	Extra over item C11.6.5.1 and 2 for cement-treated soil backfill	m³			Rate Only
C11.6.5.4	Extra over item C11.6.5.1 for hard material excavation	m³			Rate Only
C11.6.5.5	Imported backfill material from commercial sources	m³			Rate Only
<b>B.C11.6.5</b>	<b>Class 15MPa/19 mm concrete backfill in excavations for road sign footings</b>	<b>m³</b>	<b>100</b>		
<b>C11.6.8</b>	<b>Danger plates at culverts/structures</b>				
C11.6.8.1	Size 150 x 600 mm (W401 or W402) - (with 1,5m long 50mm x 50mm SHS, 3.5mm thick; to be buried 600mm into the ground; Class I retro-reflective material for sign). Complete sign supply and installation including all sundry materials and works. Backfilling to be concrete. Sign to be mounted as a single sign on a single post	No	110		
C11.6.8.1	Size 150 x 600 mm (W401 or W402) - (with 1,5m long 50mm x 50mm SHS, 3.5mm thick; to be buried 600mm into the ground; Class I retro-reflective material for sign). Complete sign supply and installation including all sundry materials and works. Backfilling to be concrete. Signs to be mounted as a 2 signs back to back on a single post	No	10		
B.C11.6.8.1	Size 300 x 600 mm (W416 or W417) - (with 1,5m long 50mm x 50mm SHS, 3.5mm thick; to be buried 600mm into the ground; Class I retro-reflective material for sign). Complete sign supply and installation including all sundry materials and works. Backfilling to be concrete. Signs to be mounted as a 2 signs back to back on a single post as per Drawing No. 065/GOR/R1207 - Rev 0	No	50		
<b>B.C11.12</b>	<b>Provisional amount for the provision and erection of road signs complete, by others; not the contractor; to be instructed by the Employer's Agent</b>	<b>Prov. Sum</b>			<b>100 000,00</b>
<b>B.C11.13</b>	<b>Contractor's handling cost, profit and all other charges in respect of item B.C11.12 above</b>	<b>%</b>	<b>100000</b>		
<b>Total Carried Forward to Summary</b>					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
<b>C11.7</b>	<b>ROAD MARKINGS AND ROAD STUDS</b>				
<b>C11.7.2</b>	<b>Retro-reflective road marking:</b>				
C11.7.2.1	White lines broken or unbroken				
	(a) 100 mm wide	km	1		
	(b) 150 mm wide	km	5		
	(c) 200 mm wide	km	0,2		
C11.7.2.2	Yellow lines broken or unbroken				
	(a) 100 mm wide	km	10		
	(b) 150 mm wide	km	2		
	(c) 200 mm wide	km	0,4		
C11.7.2.4	White lettering and symbols	m <sup>2</sup>	300		
C11.7.2.5	Yellow lettering and symbols	m <sup>2</sup>	100		
C11.7.2.7	Transverse lines, painted islands and arrestor bed markings (any colour)	m <sup>2</sup>	200		
<b>C11.7.7</b>	<b>Road Studs</b>				
C11.7.7.1	Permanent road studs complaint to SANS 1442 (type and colours stated)	No			Rate Only
<b>C11.7.8</b>	<b>Setting out and premarking the lines (excluding traffic island markings, lettering and symbols)</b>	km	18,6		
<b>C11.7.9</b>	<b>Re-establishment the painting unit during the defects notification period and at other instances on instruction of the Engineer</b>	No			
<b>Total Carried Forward to Summary</b>					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
C11.9	FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS				
C11.9.1	Finishing the road and road reserve:				
C11.9.1.2	Single carriageway road	km	5		
Total Carried Forward to Summary					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
C12.10	HARD EXCAVATION BY BLASTING				
C12.10.1	Excavation in hard rock using controlled blasting techniques	m³			Rate Only
Total Carried Forward to Summary					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
B.C11.10	SUNDRIES				
B.C11.10.1	(a) Speed humps complete as per attached Drawing No. 065/GOR/1206 - Rev 0 (Type 1 - FLAT = 2400mm, TOTAL SPEED HUMP SPAN = 5400mm). The tendered rate shall include full compensation for layerworks below structure, procuring materials, providing materials, loading, transporting, off-loading and construction/installing the structures as per identified drawings as specified	No.	16		
B.C11.10.2	ii) Speed humps complete as per attached Drawing No. 065/GOR/1206 - Rev 0 (Type 4 - FLAT = 2400mm, TOTAL SPAN = 8400mm). The tendered rate shall include full compensation for layerworks below structure, procuring materials, providing materials, loading, transporting, off-loading and construction/installing the structures as per identified drawings as specified	No.	8		
B.C11.10.3	Precast Concrete Bus Shelter as per attached Drawing No. 065/GOR/1206 - Rev 0 (measured per metre length of pre-cast structure). The tendered rate shall include full compensation for layerworks below structure, procuring materials, providing materials, loading, transporting, off-loading and construction/installing the structures as per identified drawings as specified	m	50		
B.C11.10.4	Handrail assembly complete  (a) Hot dipped galvanized handrail assembly complete	m			Rate Only
Total Carried Forward to Summary					



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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT ( R )
C20.1	TESTING MATERIALS AND JUDGEMENT OF WORKMANSHIP				
B.C20.1.5	Other special tests requested by the engineer:				
	(a) Cost of testing	PC Sum			150 000,00
	(b) Handling cost and profit in respect of Sub-item B.C20.1.5 (a) above	%	150 000,00		
Total Carried Forward to Summary					

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### SUMMARY OF SECTIONS

ITEM	DESCRIPTION	AMOUNT ( R )
C1.2	GENERAL REQUIREMENTS AND PROVISIONS	
C1.3	CONTRACTOR'S SITE ESTABLISHMENT AND GENERAL OBLIGATIONS	
C1.4	FACILITIES FOR THE ENGINEER	
C1.5	ACCOMMODATION OF TRAFFIC	
C1.6	CLEARING AND GRUBBING	
C1.7	LOADING AND HAULING	
C2.1	GENERAL REQUIREMENTS AND TRENCHING FOR SERVICES	
C3.1	DRAINS	
C3.2	CULVERTS	
C3.3	CONCRETE KERBING AND CHANNELING, ASPHALT BERMS, CHUTES, DOWNPIPES, AS WELL AS CONCRETE, STONE PITCHED AND GABION LININGS FOR OPEN DRAINS	
C4.1	BORROW MATERIALS	
C4.2	CUT MATERIALS	
C4.3	EXISTING ROAD MATERIALS	
C5.1	ROADBED	
C5.2	FILL	
C5.3	ROAD PAVEMENT LAYERS	
C5.4	STABILISATION	
C6.2	SEGMENTAL BLOCK PAVING LAYERS	
BC8&9	REPAIR WORK ON EXISTING SURFACE	
C11.1	PITCHING, STONWORK, CAST IN SITU CONCRETE FOR PROTECTION AGAINST EROSION	
C11.2	NON-STRUCTURAL GABIONS	
C11.4	ROAD RESTRAINT SYSTEMS	
C11.6	ROAD SIGNS	
C11.7	ROAD MARKINGS AND ROAD STUDS	
C11.9	FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS	
C12.10	HARD EXCAVATION BY BLASTING	
B.C11.10	SUNDRIES	
C20.1	TESTING MATERIALS AND JUDGEMENT OF WORKMANSHIP	
TOTAL OF SCHEDULE OF QUANTITIES (SUB TOTAL A)		
<b>ESCALATION - COMPULSORY</b>		
The Sum provided here is under the sole control of the Engineer and may be deducted in whole or in part. The tenderer shall add the total of schedule of quantities for escalation. (Sub Total "A" x 10%)		
<b>CONTINGENCIES - COMPULSORY</b>		
The Sum provided here is under the sole control of the Engineer and may be deducted in whole or in part. The tenderer shall add the total of schedule of quantities for escalation. (Sub Total "A" x 10%)		
<b>SUB TOTAL B</b>		
<b>VALUE ADDED TAX (VAT) - COMPULSORY</b>		
The Tenderer shall add 15% of the subtotal for VAT. (Sub Total "B" x 15%)		
<b>TOTAL AMOUNT CARRIED TO FORM OF OFFER</b>		