

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

CITY OF MBOMBELA
MUNICIPAL INFRASTRUCTURE GRANT
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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (R)
C1.2	GENERAL REQUIREMENTS AND PROVISIONS				
C1.2.1	Environmental Management				
C1.2.1.1	Monitoring of compliance with and reporting on the EMP	month	18		
C1.2.1.2	Dedicated environmental officer	month			Rate Only
C1.2.2	Programming and Reporting				
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		
C1.2.3	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				
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		
C1.2.4	Stakeholder liaison				
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
	(b) Handling costs, profit and all other charges in respect of item P.S.C1.2.4.2 (a)	%	180 000,00		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
	(b) Handling costs, profit and all other charges in respect of item P.S.C1.2.4.3 (a)		135 000,00		135 000,00
C1.2.5	Safety				
C1.2.5.1	Health and safety plan	lump sum			
C1.2.5.2	Implementation of health and safety plan	month	18		
C1.2.6	Work adjacent to properties				
C1.2.6.1	Survey of adjacent properties	prov sum		R	90 000,00
Total Carried Forward					Rate Only

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (R)
Brought Forward					
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.C.1.2.10	Accredited Training				
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.C1.2.10.1	%	500 000,00		
B.C.1.2.11	Other General Requirements and Provisions				
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.C1.2.11.1	%	200 000,00		
C1.2.8	Dayworks				
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		
Total Carried Forward					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (R)
Brought Forward					
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		
Total Carried Forward to Summary					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (R)
C1.3	CONTRACTOR'S SITE ESTABLISHMENT AND GENERAL OBLIGATIONS				
C1.3.1	The Contractor's general obligations:				
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.C1.3.2	Contract sign boards	No.	2		
Total Carried Forward to Summary					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (R)
C1.4	FACILITIES FOR THE ENGINEER				
C1.4.1	Site accommodation:				
C1.4.1.1	Offices and conference room (3 No.)	m ²	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		
C1.4.2	Items measured by area:				
C1.4.2.1	Shelving as specified, complete with brackets	m ²	10		
C1.4.2.7	Venetian blinds	m ²	20		
C1.4.2.8	Notice boards	m ²	4		
C1.4.2.9	White boards	m ²	4		
C1.4.3	Items measured by number:				
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		
Total Carried Forward					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (R)
Brought Forward					
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		
C1.4.4	Prime cost items:				
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		
C1.4.5	Services at site offices, laboratories and site accommodation:				
C1.4.5.1	Fixed costs	Lump sum			
C1.4.5.2	Running costs	month	18		
Total Carried Forward to Summary					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (R)
C1.5	ACCOMMODATION OF TRAFFIC				
C1.5.1	Accommodation of pedestrian and non-motorised traffic				
C1.5.1.1	Accommodation of pedestrian and non-motorised traffic	month	18		
C1.5.2	Accommodation of vehicular traffic	month	18		
C1.5.4	Construction of temporary deviations	Prov Sum (per km)	4,35	50 000,00	217 500,00
C1.5.5	Maintenance of temporary deviations:	Prov Sum (per km)	4,35	25 000,00	108 750,00
C1.5.6	Removal of temporary deviations	Prov Sum (per km)		10 000,00	Rate Only
C1.5.7	Temporary traffic control facilities:				
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
C1.5.11	Provision of safety equipment for visitors				
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		
C1.5.12	Additional traffic accommodation facilities ordered by the Engineer:				
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		
Total Carried Forward to Summary					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (R)
C1.6	CLEARING AND GRUBBING				
C1.6.1	Clearing:				
C1.6.1.1	Clearing with machines and some hand labour where necessary	ha	2		
C1.6.2	Grubbing:				
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
C1.6.3	Removal and grubbing of large trees and tree stumps:				
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
C1.6.4	Removal of buildings and structures:	Prov Sum			20 000,00
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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (R)
C1.7	LOADING AND HAULING				
C1.7.1	Loading:				
C1.7.1.1	Loading from stockpile using machines and some hand labour where necessary	m ³	4900		
C1.7.2	Hauling:				
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 ³ -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)	m ³ -km	400		
(b)	Soil and gravel material	m ³ -km	105200		
(c)	Boulders and hard material	m ³ -km	806		
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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (R)
C2.1	GENERAL REQUIREMENTS AND TRENCHING FOR SERVICES				
C2.1.1	Location, identification, protection and relocation of existing services				
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
C2.1.2	Existing services location, detection and verification				
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	m ³	100		
C2.1.3	Obtaining construction or work permits	lump sum			
C2.1.4	Provision of guarantees or deposits for services				
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		
C2.1.5	Provision of record drawings and applicable data	lump sum			
C2.1.16	Subsurface drains in trench bottoms	m			Rate Only
Total Carried Forward to Summary					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (R)
C3.1	DRAINS				
C3.1.1	Excavation for open drains:				
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 ³			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 ³			Rate Only
	Type 5: Cut-off drain (subsoil drain) to be constructed (specified for project) as per Drawing No. 065/GOR/R1211 - Rev 0				
C3.1.4	Excavation and disposal of material for subsoil drainage systems:				
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 ³	1350		
(b)	Exceeding 1,5 m and up to 3,0 m	m ³			Rate Only
(c)	Exceeding 3,0 m and up to 4,5 m	m ³			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 ³			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 ³			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 ³			Rate Only
C3.1.5	Impermeable backfilling to subsoil drainage systems				
C3.1.5.1	Un-stabilised natural gravel obtained from approved sources on the site	m ³			Rate Only
C3.1.5.2	G5 material obtained from commercial sources	m ³	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 ³			Rate Only
C3.1.7	Natural permeable material in subsoil drainage systems (approved crushed stone):				
C3.1.7.2	Crushed stone obtained from commercial sources				
	(a) Coarse graded stone (19 mm nominal size aggregate)	m ³			Rate Only
	(b) Coarse graded stone (36 mm nominal size aggregate)	m ³	405		
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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (R)
Brought Forward					
C3.1.9	Pipes in subsoil drainage systems:				
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
C3.1.10	Polymer film sheeting or similar approved material, for lining subsoil drainage systems:				
C3.1.10.1	0,15 mm thick	m ²			Rate Only
C3.1.10.2	0,25 mm thick	m ²	3150		
C3.1.11	Geotextiles				
	(a) Kaytech Grade A2 or similar approved material	m ²	3375		
C3.1.13	Concrete outlet structures, manhole boxes, junction boxes and cleaning eyes for subsoil drainage systems:				
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				Rate Only
C3.1.13.4	Cleaning eyes				
C3.1.14	Caps for subsoil drain pipes:				
C3.1.14.1	Concrete caps	No.	10		
C3.1.16	Loading and hauling of material in excess of 1,0 km	m ³ -km	5400		
C3.1.17	Backfilling existing eroded side drains	m ³			Rate Only
Total Carried Forward					

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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	m ³	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)
C3.2	CULVERTS				
C3.2.1	Excavation for culvert structures:				
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 ³	3000		
(b)	Exceeding 1,5 m and up to 3,0 m	m ³		Rate Only	
(c)	Exceeding 3,0 m and up to 4,5 m	m ³		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 ³	100		
C3.2.2	Backfilling:				
C3.2.2.1	Using the excavated material	m ³		Rate Only	
C3.2.2.2	Using imported selected material:				
(a)	From commercial sources				
	(i) Selected material	m ³		Rate Only	
	(ii) Rockfill	m ³	500		
(b)	From sources on site				
	(ii) Selected material from other excavations on site	m ³	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 ³		Rate Only	
C3.2.3	Concrete pipe culverts:				
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		
C3.2.5	Rectangular culverts with prefabricated elements:				
C3.2.5.1	Prefabricated portal culverts; wall and roof combination				
	(a) 1200x1200 150s	m		Rate Only	
	(b) 1500x1500 100s	m		Rate Only	
C3.2.6	Extra over items C3.2.3, C3.2.4 and C3.2.5 for constructing inclined culverts	m		Rate Only	
Total Carried Forward					

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Brought Forward					
C3.2.7	Cast in situ concrete and formwork:				
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 ³	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 ³			Rate Only
C3.2.7.3	In walls, excluding formwork but including Class U2 surface finish (a) 25 MPa/19 mm concrete	m ³			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 ³			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 ³	40		
C3.2.7.6	Formwork of concrete under items C3.2.7.3 to 5 above (U2 Class of finish)	m ²	200		
C3.2.8	Concrete backfill or encasement for culverts				
	(a) 15 MPa/19 mm concrete	m ³			Rate Only
C3.2.9	Prefabricated concrete inlets and outlets to culverts				
	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
Total Carried Forward					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (R)
Brought Forward					
C3.2.10	Reinforcement:				
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		
C3.2.13	Removing and re-laying existing culverts:				
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.C3.2.15	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				
	(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) (iii) (3) Exceeding 3,0 m to 4,5 m deep	m - No			Rate Only
Total Carried Forward					

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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)
C3.3	CONCRETE KERBING AND CHANNELING, ASPHALT BERMS, CHUTES, DOWNPipes, AS WELL AS CONCRETE, STONE PITCHED AND GABION LININGS FOR OPEN DRAINS				
C3.3.1	Concrete kerbing:				
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
C3.3.2	Concrete kerbing-channeling combination:				
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		
C3.3.3	Extra over items C3.3.1 and C3.3.2 for concrete kerbing or concrete kerbing and channeling on curves				
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
C3.3.4	Extra over item C3.3.2 for drop kerbs at pedestrian crossings and driveways	m			Rate Only
C3.3.6	Concrete chutes (typical designs):				
C3.3.6.2	Cast in situ concrete chutes, class 25MPa/19 mm	m ³	100		
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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (R)
Brought Forward					
C3.3.8	Linings for open drains:				
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 (b) Detail as shown on Drawing No. 065/GOR/R051 - Rev 0 Typical Road Section 4	m ³	850		Rate Only
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 (b) Detail as shown on Drawing No. 065/GOR/R051 - Rev 0 Typical Road Section 4	m ²	6750		Rate Only
C3.3.8.3	Stone pitched lining (200 mm thickness) (a) Grouted stone pitching for trapezoidal drain (b) Grouted stone pitching for V-drain	m ²	400		Rate Only
C3.3.9	Formwork to cast in situ concrete lining for open drains (Class F2 surface finish):				
C3.3.9.1	To sides with formwork on the internal face only	m ²	2000		
C3.3.9.2	To sides with formwork on both internal and external faces (each face measured)	m ²			Rate Only
C3.3.9.3	To ends of slabs	m ²	200		
C3.3.10	Sealed joints in concrete and stone pitched linings of open drains	m	2000		
C3.2.12	Reinforcement:				
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		
C3.3.13	Polymer film sheeting 0,15 mm thick for concrete-lined open drains	m ²	7000		
C3.3.14	Cutting bituminous surfacing and pavement layers for concrete kerbing, channeling or concrete-lined drains	m	100		
C3.3.15	Energy dissipaters in outlet structures				
C3.3.15.1	Precast concrete blocks in outlet structures	No	50		
Total Carried Forward					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (R)
Brought Forward					
C3.3.16	Demolition and removal of existing kerbs and/or channel (maximum size 1,5m wide)	m ³			Rate Only
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 (b) In hard material	m ²	6750		Rate Only
Total Carried Forward to Summary					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (R)
C4.1	BORROW MATERIALS				
C4.1.4	Removing of the overburden				
C4.1.4.1	In borrow pits	m ³	2500		
C4.1.5	Excavating of materials in the borrow pits and quarries, material obtained from				
C4.1.5.1	Soft excavation	m ³	22150		
C4.1.5.4	Hard excavation (other than by blasting)	m ³		Rate Only	
C4.1.5.5	Hard excavation (by blasting)	m ³		Rate Only	
C4.1.9	Breaking down oversize material	m ³			Rate Only
C4.1.15	Shaping and finishing the borrow pit and quarry areas, and the stockpile sites				
C4.1.15.1	Shaping and finishing the borrow pit and quarry areas, and the stockpile sites	ha	1		
C4.1.18	Compensation to landowners or legal occupants in respect of land acquisition, royalties and/or loss of crops				
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		
Total Carried Forward to Summary					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (R)
C4.2	CUT MATERIALS				
C4.2.4	Excavating of materials in cuttings, material obtained from				
C4.2.4.1	Soft excavation	m ³			Rate Only
C4.2.4.2	Boulder excavation class A	m ³			Rate Only
C4.2.4.3	Boulder excavation class B	m ³			Rate Only
C4.2.4.4	Hard excavation (other than by blasting)	m ³			Rate Only
C4.2.4.5	Hard excavation (by blasting)	m ³			Rate Only
C4.2.7	Removal of unsuitable stable cut material to spoil				
C4.2.7.1	In layer thicknesses of 200 mm and less	m ³			Rate Only
C4.2.7.2	In layer thicknesses exceeding 200 mm	m ³			Rate Only
C4.2.9	Excavate material to spoil in sites designated by the Contractor, material obtained from				
C4.2.9.1	Soft excavation	m ³	16500		
C4.2.9.2	Boulder excavation class A	m ³			Rate Only
C4.2.9.3	Boulder excavation class B	m ³			Rate Only
C4.2.9.4	Hard excavation (other than by blasting)	m ³	200		
C4.2.9.5	Hard excavation (by blasting)	m ³			Rate Only
C4.2.11	Breaking down oversize material	m ³			Rate Only
C4.2.12	Finishing the side slopes				
C4.2.12.1	Cuttings: (a) In soft material	m ²			Rate Only
Total Carried Forward to Summary					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (R)
C4.3	EXISTING ROAD MATERIALS				
C4.3.2	Cleaning the existing road surface				
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		
C4.3.9	Excavating material by using conventional road construction equipment				
C4.3.9.3	Cemented material	m ³	2450		
C4.3.9.4	Natural gravel and sand materials	m ³	2450		
C4.3.11	Breaking down a stabilised layer by using conventional road construction equipment	m ³	2450		
C4.3.12	Removing of existing road edging and services structures				
C4.3.14.1	Removing of existing concrete material within the following average depth ranges				
C4.3.12.1	The break-up method:				
(a)	Not exceeding 150 mm	m ³			Rate Only
(b)	Exceeding 150 mm but not exceeding 250 mm	m ³			Rate Only
C4.3.12.3	The lift-out method:				
(a)	Not exceeding 150 mm	m ³	300		
(b)	Exceeding 150 mm but not exceeding 250 mm	m ³			Rate Only
C4.3.14.1	Removing of existing road edging and services structures using construction equipment				
	(a) Kerbing and edge beams:				
	(a) (i) In situ concrete kerbing and edge beams	m ³	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		
C4.3.15	Stockpiling of road layer materials				
C4.3.15.3	Cemented material	m ³	2450		
C4.3.15.4	Natural gravel and sand materials	m ³	2450		
Total Carried Forward to Summary					

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

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

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

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (R)
C5.4	STABILISATION				
C5.4.2	Chemical stabilisation				
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 (b) (n) Gravel base layer (chemically stabilised - C3), (150mm layer thickness) compacted to 97 % of MDD	m ³	5650 5450		
C5.4.5	Cementitious stabilisation agents for pavement layers				
(a)	Cement (for pavement layer)	t	725		
(b)	Lime (for pavement layer)	t			Rate Only
C5.4.10	Provision and application of water for curing	kL	2000		
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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (R)
C6.2	SEGMENTAL BLOCK PAVING LAYERS				
C6.2.1	Segmental block paving				
C6.2.1.1	Concrete block paving				
	(a) 35MPa, interlocking block paving, of 80mm thickness	m ²	32000		
	(b) 35MPa, interlocking block paving, of 60mm thickness	m ²	6150		
C6.2.3	Provision and application of approved herbicide and ant poison.				
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		
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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (R)
BC8&9	REPAIR WORK ON EXISTING SURFACE				
CHAPTER 8: PRETREATMENT AND REPAIR OF EXISTING LAYERS					
C8.1 PRIME COAT					
C8.1.1	Prime coat:				
C8.1.1.2	MC -30 cut-back bitumen	l			Rate Only
C8.8 PATCHING AND EDGE BREAK REPAIR					
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 ² including for edge repairs wider than 250 mm	m ³	10		
C8.8.2.2	Cemented layers				
(a)	Not exceeding 10 m ² including for edge repairs wider than 250 mm	m ³	30		
C8.8.2.3	Other (Gravel) layers				
(a)	Not exceeding 10 m ² including for edge repairs wider than 250 mm	m ³			Rate Only
C8.8.3	Compacting the floor of excavations for patching (compacted to 95 % of MDD)	m²	200		
C8.8.4	Backfilling of excavations for patching with:				
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 ² including for edge repairs wider than 250 mm	m ³	30		
Total Carried Forward					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (R)
Brought Forward					
CHAPTER 9: ASPHALT LAYERS					
C9.1	ASPHALT LAYERS				
C9.1.3	Application of bond coat				
C9.1.3.1	Stable –grade 30 % net bitumen emulsion as specified. Applied with a calibrated distributor	I	3150		
C9.1.3.2	Applied in restricted areas using a portable pressure sprayer	I	350		
C9.1.5	Asphalt surfacing				
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 ²	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
C9.1.7	Placing and compacting asphalt in restricted areas				
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 ²	350		
C9.1.13	Coring of asphalt layers				
C9.1.13.1	100 mm diameter	No	25		
Total Carried Forward to Summary					

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

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

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (R)
C11.4	ROAD RESTRAINT SYSTEMS				
C11.4.1	Erecting of guardrails at 3,81 m spacing				
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				Rate Only
(a)	End wings to SANS 1350	No			Rate Only
(b)	End treatments where single guardrail sections are specified (Drawing reference)	No			Rate Only
C11.4.4	Extra over for horizontally curved guard rails				
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
C11.4.5	Additional guardrail posts for 3,81 m systems:				
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
C11.4.6	Reflective plates				
C11.4.6.1	Steel plates	No			Rate Only
C11.4.14	Nailing of gang nail plates on top of timber guardrail posts	No			Rate Only
Total Carried Forward to Summary					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (R)
C11.6	ROAD SIGNS				
C11.6.1	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:				
C11.6.1.1	Aluminium sheet (2.0 mm thick)				
(a)	(a) Area 0 to 0,5m ²	m ²			Rate Only
(b)	(b) Area exceeding 0,5m ² but not 2,0m ²	m ²	20		
(c)	(c) Area exceeding 2,0m ² but not 10m ²	m ²	20		
(d)	(d) Area exceeding 10m ²	m ²			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 ²	30		
C11.6.2	Extra over on item C11.6.1 for using:				
C11.6.2.1	Background of retro-reflective material:				
(a)	(a)Class I	m ²	150		
(b)	(b)Class III	m ²			Rate Only
(c)	(c)Class IV	m ²			Rate Only
C11.6.2.2	Lettering, symbols, numbers, arrows, emblems and borders of retro-reflective material:				
(a)	(a)Class III	m ²			Rate Only
(b)	(b)Class IV	m ²			Rate Only
C11.6.3	Road sign supports (overhead road sign structures excluded):				
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
Total Carried Forward					

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ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT (R)
Brought Forward					
C11.6.5	Excavation and backfilling for road sign supports (not applicable to kilometre posts)				
C11.6.5.1	Excavating soft material and backfilling	m ³			Rate Only
C11.6.5.2	Excavating soft or intermediate material and backfilling using labour enhanced construction methods	m ³	100		
C11.6.5.3	Extra over item C11.6.5.1 and 2 for cement-treated soil backfill	m ³			Rate Only
C11.6.5.4	Extra over item C11.6.5.1 for hard material excavation	m ³			Rate Only
C11.6.5.5	Imported backfill material from commercial sources	m ³			Rate Only
B.C11.6.5	Class 15MPa/19 mm concrete backfill in excavations for road sign footings	m ³	100		
C11.6.8	Danger plates at culverts/structures				
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.C11.12	Provisional amount for the provision and erection of road signs complete, by others; not the contractor; to be instructed by the Employer's Agent	Prov. Sum			100 000,00
B.C11.13	Contractor's handling cost, profit and all other charges in respect of item B.C11.12 above	%	100000		
Total Carried Forward to Summary					

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

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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	m ³			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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PAVING OF GOROMANE TO KAMABUZA (VIA TFOLINHLANHLA) AT SHABALALA WARD 1

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

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, STONEWORK, 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)		
ESCALATION - COMPULSORY		
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%)		
CONTINGENCIES - COMPULSORY		
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%)		
SUB TOTAL B		
VALUE ADDED TAX (VAT) - COMPULSORY		
The Tenderer shall add 15% of the subtotal for VAT. (Sub Total "B" x 15%)		
TOTAL AMOUNT CARRIED TO FORM OF OFFER		

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, STONEWORK, 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)		
ESCALATION - COMPULSORY		
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%)		
CONTINGENCIES - COMPULSORY		
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%)		
SUB TOTAL B		
VALUE ADDED TAX (VAT) - COMPULSORY		
The Tenderer shall add 15% of the subtotal for VAT. (Sub Total "B" x 15%)		
TOTAL AMOUNT CARRIED TO FORM OF OFFER		