ITEM				DESCRIPTION	UNIT	QTY	RATE	AMT
C1.2.1				**Environmental Management**				
	C1.2.1.1			Monitoring of compliance with and reporting on the EMP	month	12		R -
C1.2.2				**Programming and Reporting**				
	C1.2.2.3			Submission of a Scheme 2 Initial Programme	lump sum	lump	sum	R -
	C1.2.2.4			Submission of a Scheme 2 Full Programme	lump sum	lump	sum	R -
	C1.2.2.5			Reviewing and updating a Scheme 2 programme every month	month	12		R -
	C1.2.2.6			Preparation and submission of all information and reports specified in the Contract Documentation	month	12		R -
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**				
	C1.2.3.6			Base and/or surface patching using cold premixed asphalt	kilogram (kg)	2 000		R -
	C1.2.3.11			Other road maintenance work ordered by the Engineer	provisional sum	Prov	Sum	R 500 000.00
	C1.2.3.12			Handling cost, profit and all other charges in respect of item C1.2.3.11	percentage (%)	R 500 000.00		R -
	C1.2.3.13			Liaison with the routine road maintenance contractor	month	12		R -
C1.2.4				**Stakeholder liaison**	month	15		R -
C1.2.5				**Safety**				
	C1.2.5.1			Health and safety plan	lump sum	lump	sum	R 15 000.00
	C1.2.5.2			Implementation of health and safety plan	month	12		R -
PC1.2.7				**Road safety audits**				
	C1.2.7.1			Stage 4 work zone traffic management audit	provisional sum	Prov	Sum	R 300 000.00
	C1.2.7.2			Handling cost, profit and all other charges in respect of item C1.2.6.1	percentage (%)	R 300 000.00		R -
	C1.2.7.3			Stage 5 pre-opening stage traffic safety audit	provisional sum	Prov	Sum	R 300 000.00
	C1.2.7.4			Handling cost, profit and all other charges in respect of item C1.2.6.3	percentage (%)	R 300 000.00		R -
C1.2.8				**Dayworks**				
	C1.2.8.1			Personnel				
		(a)		Unskilled labourer	hour (h)	500		R -
		(b)		Semi-skilled labourer	hour (h)	150		R -
		(c)		Skilled labourer	hour (h)	75		R -
		(d)		Gang leader	hour (h)	75		R -
		(e)		Foreman	hour (h)	75		R -
		(f)		Skilled artisan	hour (h)	75		R -
	C1.2.8.2			Construction equipment				
		(a)		Motor grader (112kW)	hour (h)	50		R -
		(b)		Vibratory roller (10t)	hour (h)	50		R -
		(c)		Pneumatic roller (20t)	hour (h)	50		R -
		(e)		Tractor loader backhoe (min. bucket dig force 55kN and breakout force 45kN)	hour (h)	50		R -
		(f)		Excavator (20t / 95kW)	hour (h)	50		R -
		(g)		Compressor (including two jackhammers, two paving breakers and hoses)	hour (h)	50		R -
		(h)		Other equipment as listed below:	hour (h)	50		
				1. Rammer / wacker compactor (min. percussion rate of 680 blows/min)	hour (h)	50		R -
				2. Double drum vibratory pedestrian roller (750mm min. working width)	hour (h)	50		R -
				3. Mechanical broom	hour (h)	50		R -
	C1.2.8.3			Vehicles				
		(a)		Light delivery vehicle (single cab)	kilometre (km)	10 000		R -
		(b)		Flatbed truck (3t)	kilometre (km)	5 000		R -
		(d)		Other vehicles as listed below:				
				1. Tipper truck (6m^3)	kilometre (km)	2 500		R -
				2. Tipper truck (10m^3)	kilometre (km)	2 500		R -
				3. "Lowbed" horse and trailer for tranporting tracked vehicles)	kilometre (km)	1 500		R -
	C1.2.8.4			Materials				
		(a)		Procurement of materials	provisional sum	Prov	Sum	R 500 000.00
		(b)		Contractor's handling costs, profit and all other charges in respect of item C1.2.8.4(a)	percentage (%)	R 500 000.00		R -
PC1.2.10				**Dispute Adjudication Board (DAB)**				
	C1.2.10.1			Employer's contribution to DAB (50%)	prime cost (PC) sum	Prime	Cost	R 250 000.00
TOTAL CARRIED FORWARD TO SUMMARY								R 1 865 000.00

ITEM				DESCRIPTION	UNIT	QTY	RATE	AMT
PC1.3.1				**The Contractor's general obligations**				
	C1.3.1.1			Fixed obligations	lump sum	lump	sum	
	C1.3.1.2			Value-related obligations	lump sum	lump	sum	
	C1.3.1.3			Time-related obligations				
		(a)		Mobilisation period	month	3		R -
		(b)		Execution of the works	month	12		R 1 850 000.00
	C1.3.1.4			Suspension Cost				
		(a)		De-establishment	number	1		R -
		(b)		Re-establishment	number	1		R -
		(c)		Suspension period	month	1		R -
		(d)		Engineer's cost	prime cost (PC) sum	prime	cost	R 500 000.00
C1.3.2				**Contract sign boards**	square metre (m^2)	24		R -
TOTAL CARRIED FORWARD TO SUMMARY								R 2 350 000.00

ITEM				DESCRIPTION	UNIT	QTY	RATE	AMT
C1.5.1				**Accommodation of pedestrian and non-motorised traffic**				
	C1.5.1.1			Accommodation of pedestrian and non-motorised traffic	month	12		R -
C1.5.2				**Accommodation of vehicular traffic**	month	12		R -
C1.5.3				**Liaison with traffic authorities**	month	12		R -
C1.5.7				**Temporary traffic control facilities**				
	C1.5.7.1			Delineators including mounting bases and ballast:				
		(a)		Single sided, reversible left or right (200mm x 800mm)	number (No.)	750		R -
		(b)		Double sided, reversible left or right (200mm x 800mm)	number (No.)	750		R -
	C1.5.7.2			Traffic cones, minimum height 750mm	number (No.)	100		R -
	C1.5.7.3			Flagmen	man-shift	3 000		R -
	C1.5.7.4			Traffic controllers	man-shift	1 750		R -
	C1.5.7.5			Provision of illuminated traffic signs:				
		(a)		Sign mounted flashing amber lights *(2 lights with the specified power supply)* mounted on a backing board which is:				
			(i)	900mm wide x 150mm high	number (No.)	2		R -
			(ii)	1200mm wide x 200mm high	number (No.)	2		R -
		(b)		Flashing LED illuminated arrow board	number (No.)	6		R -
		(c)		Illuminated road sign – R & TR series *(1,200mm diameter)*	number (No.)	2		R -
		(d)		Illuminated road sign – TW series *(1,600mm sides)*	number (No.)	2		R -
		(e)		Mobile variable message sign	number (No.)	2		R -
	C1.5.7.6			Maintenance of illuminated traffic signs:				
		(a)		Sign mounted flashing amber lights *(a pair of two lights mounted on a separate backing board)*	month	16		R -
		(b)		Flashing LED illuminated arrow board	month	48		R -
		(c)		Illuminated road sign – R & TR series *(1,200mm diameter)*	month	16		R -
		(d)		Illuminated road sign – TW series *(1,600mm sides)*	month	16		R -
		(e)		Mobile variable message sign	month	24		R -
	C1.5.7.8			Traffic control stations	month	48		R -
	C1.5.7.9			Cleaning of traffic control facilities	month	12		R -
C1.5.8				**Traffic safety officer**	man-month	12		R -
C1.5.9				**Traffic safety vehicle**	month	12		R -
C1.5.10				**Tow trucks**				
	C1.5.10.1			Provision of a tow truck on call for light vehicles weighing less than two tonnes	month	12		R -
	C1.5.10.2			Provision of a tow truck on call for heavy vehicles weighing two tonnes or more	month	12		R -
C1.5.11				**Provision of safety equipment for visitors**				
	C1.5.11.1			Provision of reflective safety vests for visitors	number (No.)	6		R -
C1.5.12				**Additional traffic accommodation facilities ordered by the Engineer:**				
	C1.5.12.1			Provision of additional traffic accommodation facilities	provisional sum	Prov	Sum	R 250 000.00
	C1.5.12.2			Handling cost, profit and all other charges in respect of item C1.5.12.1	percentage (%)	R 250 000.00		R -
TOTAL CARRIED FORWARD TO SUMMARY								R 250 000.00

ITEM				DESCRIPTION	UNIT	QTY	RATE	AMT
C1.4.1				**Site accommodation**				
	C1.4.1.1			Offices and conference room	square metre (m^2)	40		R -
	C1.4.1.2			Laboratories	square metre (m^2)	120		R -
	C1.4.1.3			Open concrete working floors and verandas	square metre (m^2)	15		R -
	C1.4.1.4			Roofs over open concrete working floors and verandas	square metre (m^2)	15		R -
	C1.4.1.5			Store rooms inside the laboratory	square metre (m^2)	5		R -
	C1.4.1.6			Car ports	number (No.)	4		R -
	C1.4.1.7			Ablution unit *(equipped as specified)*	number (No.)	2		R -
	C1.4.1.8			Change room with a shower	number (No.)	1		R -
	C1.4.1.9			Kitchen unit *(equipped as specified)*	number (No.)	1		R -
C1.4.2				**Items measured by area**				
	C1.4.2.1			Shelving as specified, complete with brackets	square metre (m^2)	6		R -
	C1.4.2.2			Work benches with a concrete slab top	square metre (m^2)	12		R -
	C1.4.2.3			Work-benches with a wooden top	square metre (m^2)	6		R -
	C1.4.2.4			Constant-temperature baths of concrete and/or plastered brick	square metre (m^2)	2		R -
	C1.4.2.5			Concrete footings and pedestals for laboratory equipment	square metre (m^2)	6		R -
	C1.4.2.7			Venetian blinds	square metre (m^2)	6		R -
	C1.4.2.8			Notice boards	square metre (m^2)	4		R -
	C1.4.2.9			White boards	square metre (m^2)	1.5		R -
	C1.4.2.10			Galvanised wire mesh fencing for store rooms	square metre (m^2)	6		R -
	C1.4.2.11			Galvanised wire mesh store room gate with a padlock	square metre (m^2)	2		R -
C1.4.3				**Items measured by number**				
	C1.4.3.1			Office swivel chair	number (No.)	4		R -
	C1.4.3.2			Office chair	number (No.)	4		R -
	C1.4.3.4			Laboratory high chair	number (No.)	6		R -
	C1.4.3.5			Office desk with 3 drawers *(at least one lockable drawer)*	number (No.)	4		R -
	C1.4.3.8			Conference table	number (No.)	1		R -
	C1.4.3.9			Bookcase	number (No.)	4		R -
	C1.4.3.10			Filing cabinet	number (No.)	4		R -
	C1.4.3.11			General purpose steel cabinet with shelves	number (No.)	4		R -
	C1.4.3.13			220/250 volt power outlet plug point	number (No.)	12		R -
	C1.4.3.14			400/231 volt 3-phase power outlet plug point	number (No.)	2		R -
	C1.4.3.15			Single 1500m, 58 watt fluorescent tube ceiling light	number (No.)	4		R -
	C1.4.3.16			Single 1500mm, 22 watt LED tube ceiling light	number (No.)	4		R -
	C1.4.3.18			7 watt LED bulb ceiling light	number (No.)	4		R -
	C1.4.3.19			Wash-hand basin	number (No.)	2		R -
	C1.4.3.20			Laboratory basin	number (No.)	4		R -
	C1.4.3.21			Extractor fan	number (No.)	2		R -
	C1.4.3.22			Fume cupboard	number (No.)	1		R -
	C1.4.3.23			Fire extinguisher 9,0 kg, dry powder type	number (No.)	6		R -
	C1.4.3.24			Air-conditioning unit	number (No.)	4		R -
	C1.4.3.25			Heater	number (No.)	4		R -
	C1.4.3.27			Waste paper basket	number (No.)	6		R -
	C1.4.3.28			UPS / Voltage stabiliser	number (No.)	6		R -
	C1.4.3.29			A3 / A4 colour printer, copier, scanner	number (No.)	1		R -
	C1.4.3.31			Rain gauge	number (No.)	1		R -
	C1.4.3.33			Digital thermometer	number (No.)	4		R -
	C1.4.3.34			Mobile outdoor weather station	number (No.)	1		R -
	C1.4.3.35			3,0m aluminium straight edge complete with two measuring wedges	number (No.)	2		R -
	C1.4.3.36			Measuring wheel	number (No.)	1		R -
	C1.4.3.37			First aid kit	number (No.)	1		R -
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	prime cost (PC) sum	prime	cost	R 300 000.00
	C1.4.4.2			Handling costs and profit in respect of item C1.4.4.1	percentage (%)	R 300 000.00		R -
	C1.4.4.3			The provision of a direct independent telephone line for the Engineer, including the monthly rental charges and the cost of business calls	prime cost (PC) sum	prime	cost	R 100 000.00
	C1.4.4.4			Handling costs and profit in respect of item C1.4.4.3	percentage (%)	R 100 000.00		R -
	C1.4.4.5			The provision of internet connectivity and WiFi data for Engineer's site staff	prime cost (PC) sum	prime	cost	R 200 000.00
CARRIED FORWARD / …								R 600 000.00

ITEM				DESCRIPTION	UNIT	QTY	RATE	AMT
BROUGHT FORWARD / …								R 600 000.00
	C1.4.4.6			Handling costs and profit in respect of item C1.4.4.5	percentage (%)	R 200 000.00		R -
	C1.4.4.7			The provision of paper and ink for a combination colour printer/copier/scanner	prime cost (PC) sum	prime	cost	R 50 000.00
	C1.4.4.8			Handling costs and profit in respect of item C1.4.4.7	percentage (%)	R 50 000.00		R -
	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.	prime cost (PC) sum	prime	cost	R 20 000.00
	C1.4.4.10			Handling costs and profit in respect of item C1.4.4.9	percentage (%)	R 20 000.00		R -
	C1.4.4.11			The provision of a complete 440/231 volt three phase electrical power installation, including all poles, insulators, wiring, switchboards, mains connections, meters etc.	prime cost (PC) sum	prime	cost	R 20 000.00
	C1.4.4.12			Handling costs and profit in respect of item C1.4.4.11	percentage (%)	R 20 000.00		R -
	C1.4.4.15			The provision of all gas installations required at the site offices, laboratories and at the Engineer's staff accommodation (if required), including gas storage cylinders, tubing, regulators, gas burners and shut-off cocks	prime cost (PC) sum	prime	cost	R 15 000.00
	C1.4.4.16			Handling costs and profit in respect of item C1.4.4.15	percentage (%)	R 15 000.00		R -
C1.4.5				**Services at site offices, laboratories and site accommodation**				
	C1.4.5.1			Fixed costs	lump sum	lump	sum	
	C1.4.5.2			Running costs	month	15		R -
C1.4.7				**Site inspection transport**				
	C1.4.7.1			Provision of a bus, mini-bus or combi van for site inspection purposes (14-seater mini-bus)	per day	12		R -
	C1.4.7.2			Travel on site	kilometre (km)	600		R -
C1.4.8				**Site security measures for the Engineer's facilities**				
	C1.4.8.1			Supply and installation of all required security measures at the Engineer's site offices and laboratories	lump sum	lump	sum	
	C1.4.8.2			Provision of security guards / watchmen and an armed response service at the Engineer's site offices and laboratories	month	15		R -
TOTAL CARRIED FORWARD TO SUMMARY								R 705 000.00

ITEM				DESCRIPTION	UNIT	QTY	RATE	AMT
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)		0m to 1,5m	cubic metre (m^3)	500		R -
		(b)		Exceeding 1,5m and up to 3,0m	cubic metre (m^3)	15		R -
C3.1.2				**Clearing, shaping and disposal of accumulated sediment in existing unlined open drains**				
	C3.1.2.1			Using conventional methods	cubic metre (m^3)	2 000		R -
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)		0m to 1,5m	cubic metre (m^3)	700		R -
		(b)		Exceeding 1,5m and up to 3,0m	cubic metre (m^3)	50		R -
	C3.1.4.4			Extra over sub-item C3.1.4.1 for excavation in hard and boulder material, irrespective of depth	cubic metre (m^3)	25		R -
C3.1.5				**Impermeable backfilling to subsoil drainage systems**				
	C3.1.5.2			G5 material obtained from commercial sources	cubic metre (m^3)	25		R -
	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	cubic metre (m^3)	5		R -
C3.1.7				**Natural permeable material in subsoil drainage systems (approved crushed stone):**				
	C3.1.7.2			Crushed stone obtained from commercial sources (20mm coarse grade)	cubic metre (m^3)	175		R -
C3.1.8				**Natural permeable material in subsoil drainage systems (approved natural sand):**				
	C3.1.8.2			Natural sand from commercial sources (coarse grade)	cubic metre (m^3)	550		R -
C3.1.9				**Pipes in subsoil drainage systems:**				
	PC3.1.9.1			U-PVC or HDPE pipes and fittings, normal duty, complete with couplings (110mm diameter slotted)	metre (m)	1 300		R -
C3.1.11				**Geotextiles** (Non-woven Grade 2)	square metre (m^2)	2 500		R -
C3.1.13				**Concrete outlet structures, manhole boxes, junction boxes and cleaning eyes for subsoil drainage systems:**				
	C3.1.13.1			Outlet structures				
		(a)		Type A, drawing 10996-003-007	number (No.)	6		R -
		(b)		Type B, drawing 10996-003-007	number (No.)	6		R -
	C3.1.13.3			Junction boxes (as detailed on drawing …)	number (No.)	4		R -
	C3.1.13.4			Cleaning eyes (as detailed on drawing …)	number (No.)	24		R -
C3.1.14				**Caps for subsoil drain pipes:**				
	C3.1.14.1			Concrete caps	number (No.)	4		R -
	C3.1.14.2			Cast metal iron caps	number (No.)	20		R -
C3.1.15				**Repairing or replacing existing drainage systems**	provisional sum	Prov	Sum	R 100 000.00
C3.1.16				**Loading and hauling of material in excess of 1,0 km**	cubic metre - kilometre (m3 - km)	65 300		R -
C3.1.19				**Exposing of existing subsoil drains**	cubic metre (m^3)	50		R -
C3.1.21				**Clearing of existing subsoil drains**				
	C3.1.21.2			Hydro jetting	metre (m)	290		R -
C3.1.22				**Test flushing of subsoil drain pipe systems**	number (No.)	6		R -
C3.1.23				**Subsoil drain outlet marker** (as detailed on drawing 10996-003-008)	number (No.)	12		R -
C3.1.24				**Submission of as built drawings by the Contractor**	provisional sum	Prov	Sum	R 80 000.00
TOTAL CARRIED FORWARD TO SUMMARY								R 180 000.00

ITEM				DESCRIPTION	UNIT	QTY	RATE	AMT
C3.3.1				**Concrete kerbing:**				
	C3.3.1.1			Prefabricated kerbing *(description of type of kerb and bedding with reference to drawing)*				
		(a)		Type 'D' mountable kerb (as detailed on drawing 10996-003-009)	metre (m)	50		R -
	C3.3.1.2			Cast in situ kerbing				
		(a)		Type 'C' mountable kerb at intersections (as detailed on drawing 10996-003-009)	metre (m)	250		R -
		(b)		Edge beam (300mm wide x 300mm deep) with 30MPa/19 concrete	metre (m)	750		R -
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 5,0m but less than 20m	metre (m)	250		R -
	C3.3.3.2			On curves with radii more than or equal to 1,0m but less than 5,0m	metre (m)	50		R -
PC3.3.6				**Concrete chutes (typical designs):**				
	C3.3.6.2			Cast in situ concrete chutes (as detailed on drawing 10996-003-010, including transitions, class 30MPa/19 concrete with F1 and U2 finishes)	metre (m)	75		R -
C3.3.8				**Linings for open drains:**				
	C3.3.8.1			Cast in situ concrete lining (class of concrete and type of open drain indicated)				
		(a)		30MPa/19 concrete, Type 'F" channel cast in alternatitve lengths of 2.0m maximum with expansion joints every 5th panel (as detailed on drawing 10996-003-009)	cubic metre (m^3)	450		R -
		(b)		30MPa/19 concrete, Energy breaker for high flow velocities, blocks measured elsewhere (as detailed on drawing 10996-003-010)	cubic metre (m^3)	15		R -
	C3.3.8.2			Class U2 surface finish to cast in situ concrete (Type 'F' channel)	square metre (m^2)	2 750		R -
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	square metre (m^2)	300		R -
	C3.3.9.3			To ends of slabs	square metre (m^2)	10		R -
C3.3.10				**Sealed joints in concrete and stone pitched linings of open drains** (Expansion joints to Type 'F' channels every 5th panel, 10m, as detailed on drawing 10996-003-009)	metre (m)	350		R -
C3.3.12				**Reinforcement:**				
	C3.3.12.3			Welded steel fabric	kilogram (kg)	5 500		R -
C3.3.14				**Cutting bituminous surfacing and pavement layers for concrete kerbing, channeling or concrete-lined drains**	metre (m)	750		R -
C3.3.15				**Energy dissipaters in outlet structures**				
	C3.3.15.1			Precast concrete blocks in outlet structures	number (No.)	18		R -
C3.3.16				**Demolition and removal of existing kerbs and/or channel** (maximum size as specified of 300mm x 300mm)	cubic metre (m^3)	750		R -
TOTAL CARRIED FORWARD TO SUMMARY								R -

ITEM				DESCRIPTION	UNIT	QTY	RATE	AMT
C4.4.2				**Commercial materials identified by the Contractor from commercial, private or other non-commercial suppliers**				
	C4.4.2.1			Pavement layer material:				
		(b)		Type G2 material	cubic metre (m^3)	1 800		R -
		(p)		Natural or crushed gravel material for an unsealed shoulder layer	cubic metre (m^3)	500		R -
C4.4.5				**Bituminous stabilising agents**				
	C4.4.5.2			Emulsion stable grade (60% anionic)	ton (t)	150		R -
C4.4.6				**Fillers for bituminous stabilisation** (cement)	ton (t)	75		R -
TOTAL CARRIED FORWARD TO SUMMARY								R -

ITEM				DESCRIPTION	UNIT	QTY	RATE	AMT
C5.3.1				**Compiling and implementing M&U plans for the construction of all the pavement layers.**	number (No.)	2		R -
C5.3.2				**Construction of pavement layers**				
	C5.3.2.1			Construction of layers using conventional construction methods:				
		(h)		Gravel shoulder layer (150mm thick) compacted to 95% of MDD	cubic metre (m^3)	500		R -
		(dd)		Emulsion treated base material (G2 material, 150mm thick, compacted to 85% of BD) as per clause A4.1.5.15	cubic metre (m^3)	1 800		R -
C5.3.11				**Riding quality measurements:**				
	C5.3.11.1			Using a 3,0m straight edge	kilometre (km)	0.3		R -
	C5.3.11.3			Using an inertial profilometer	kilometre (km)	0.6		R -
C5.3.12				**Surface regularity payment adjustments**	provisional sum	Prov	Sum	R 115 000.00
TOTAL CARRIED FORWARD TO SUMMARY								R 115 000.00

ITEM				DESCRIPTION	UNIT	QTY	RATE	AMT
C8.2.1				**Cover sprays, fog sprays and rejuvenation sprays**				
	C8.2.1.2			60% Anionic stable grade emulsion				
		(a)		Indicate dilution (Diluted 50% Emulsion / 50% Water)	litre (ℓ)	110 000		R -
TOTAL CARRIED FORWARD TO SUMMARY								R -

ITEM				DESCRIPTION	UNIT	QTY	RATE	AMT
C8.3.1				**Texture treatment**				
	C8.3.1.1			Application of slurry for texture improvement, applied by hand (fine slurry, fine grade, 60% stable-grade emulsion, cement filler)	cubic metre (m^3)	620		R -
TOTAL CARRIED FORWARD TO SUMMARY								R -

ITEM				DESCRIPTION	UNIT	QTY	RATE	AMT
C8.4.1				**Rut and/or Depression correction (screeding)**				
	C8.4.1.2			Correction material				
		(e)		Microsurfacing (Type II aggregate and AC-E2 binder)	cubic metre (m^3)	50		R -
TOTAL CARRIED FORWARD TO SUMMARY								R -

ITEM				DESCRIPTION	UNIT	QTY	RATE	AMT
C8.8/ C4.3.3				**Removal of bituminous seal surfacing (thickness not exceeding 30mm)**	square metre (m^2)	8 750		R -
C8.8/ C4.3.5				**Providing the milling machine on the site**				
	C4.3.5.1			Small milling machine with a cutting width of 1,2m or smaller	number (No.)	1		R -
	C4.3.5.2			Large milling machine with a cutting width exceeding 1,2m	number (No.)	1		R -
C8.8/ C4.3.7				**Milling and removal of existing asphalt layers with an average milling depth (Employer takes ownership)**				
	C4.3.7.1			Not exceeding 50mm	cubic metre (m^3)	400		R -
C8.8/ C4.3.8				**Excavating material by milling**				
	C4.3.8.3			Natural gravel material	cubic metre (m^3)	400		R -
C8.8/ C4.3.15				**Stockpiling of road layer materials**				
	C4.3.15.4			Natural gravel material	cubic metre (m^3)	400		R -
C8.8.1				**Saw cutting pavement layers for patching**				
	C8.8.1.1			Asphalt or bituminous surfacing to an average depth				
		(a)		Not exceeding 50mm	metre (m)	1 600		R -
C8.8.2				**Excavation in existing pavements for patching (non-milling)**				
	C8.8.2.3			Other layers (Granular base layers G5 / G6)				
		(a)		Not exceeding 10 m² including for edge repairs wider than 250mm	cubic metre (m^3)	150		R -
		(b)		Exceeding 10 m² but not exceeding 50 m² including for edge repairs wider than 250mm	cubic metre (m^3)	150		R -
		(c)		Exceeding 50 m² up to 100 m² including for edge repairs wider than 250mm	cubic metre (m^3)	400		R -
		(d)		Exceeding 100 m²	cubic metre (m^3)	1 600		R -
C8.8.3				**Compacting the floor of excavations for patching** (97% MDD)	square metre (m^2)	22 500		R -
C8.8.4				**Backfilling of excavations for patching with:**				
	C8.8.4.2			Bitumen Stabilised Material, G2 stabilised with bituminous emulsion (3% stable mix and 1% cement), compacted to 85% of bulk relative density for a patch with a surface area:				
		(a)		Not exceeding 10 m² including for edge repairs wider than 250mm	cubic metre (m^3)	50		R -
		(b)		Exceeding 10 m² but not exceeding 50 m² including for edge repairs wider than 250mm	cubic metre (m^3)	50		R -
		(c)		Exceeding 50 m² up to 100 m² including for edge repairs wider than 250mm	cubic metre (m^3)	150		R -
		(d)		Exceeding 100 m²	cubic metre (m^3)	200		R -
	C8.8.4.3			Asphalt for a patch with a surface area *(state type and density)*				
		(i)		Sand skeletal mix – continuously graded surfacing mix, 10mm NMPS, PG 64 S-16, Design level IB				
			(a)	Not exceeding 10 m² including for edge repairs wider than 250mm	ton (t)	50		R -
			(b)	Exceeding 10 m² but not exceeding 50 m² including for edge repairs wider than 250mm	ton (t)	100		R -
			(c)	Exceeding 50 m² up to 100 m² including for edge repairs wider than 250mm	ton (t)	550		R -
			(d)	Exceeding 100 m²	ton (t)	150		R -
		(ii)		Sand skeletal mix – continuously graded base mix, 20mm NMPS, PG 64 S-16, Design level IB				
			(a)	Not exceeding 10 m² including for edge repairs wider than 250mm	ton (t)	40		R -
			(b)	Exceeding 10 m² but not exceeding 50 m² including for edge repairs wider than 250mm	ton (t)	100		R -
			(c)	Exceeding 50 m² up to 100 m² including for edge repairs wider than 250mm	ton (t)	400		R -
			(d)	Exceeding 100 m²	ton (t)	150		R -
C8.8.6				**Repairing edge breaks in surfacing**				
	C8.8.6.1			Cutting back the edges of the existing surfacing for the repairing of edge breaks	metre (m)	400		R -
CARRIED FORWARD / …								R -

ITEM				DESCRIPTION	UNIT	QTY	RATE	AMT
BROUGHT FORWARD / …								R -
	C8.8.6.2			Prime coat (60% Anionic stable grade emulsion at 0.8l/m^2)	litre (ℓ)	315		R -
	C8.8.6.3			Reconstructing edges using:				
		(a)		Continuously-graded hot asphalt (10mm NMPS surfacing mix, 93% MVD)	ton (t)	50		R -
C8.8/ C9.1.3				**Application of bond coat**				
	C9.1.3.1			Stable–grade 30% net bitumen emulsion as specified. Applied with a calibrated distributer	litre (ℓ)	2 800		R -
	C9.1.3.2			Applied in restricted areas using a portable pressure sprayer	litre (ℓ)	6 200		R -
TOTAL CARRIED FORWARD TO SUMMARY								R -

ITEM				DESCRIPTION	UNIT	QTY	RATE	AMT
C8.5.1				**Standard crack sealing**				
	C8.5.1.1			Cleaning cracks				
		(a)		Cleaning crack with cold compressed air	metre (m)	3 000		R -
	C8.5.1.2			Applying herbicides for sealing cracks	litre (ℓ)	1 000		R -
	C8.5.1.4			Sealing the cracks				
		(a)		Sealing using C-E1	litre (ℓ)	900		R -
TOTAL CARRIED FORWARD TO SUMMARY								R -

ITEM				DESCRIPTION	UNIT	QTY	RATE	AMT
C9.1.1				**Asphalt mix designs**				
	C9.1.1.2			Sand skeletal mixes:				
		(a)		Continuously graded base or surfacing (continuously grades surfacing mix, PG 64 S-16 binder and Level IB design)	lump sum	lump	sum	
C9.1.2				**Construction of trial sections**				
	C9.1.2.1			Asphalt layers (continuously graded stone skeletal surfacing mix, 40mm thickness, paver laid)	square metre (m^2)	100		R -
	C9.1.2.2			Removal of trial section where so instructed by the Engineer	square metre (m^2)	100		R -
C9.1.3				**Application of bond coat**				
	C9.1.3.1			Stable–grade 30% net bitumen emulsion as specified. Applied with a calibrated distributer	litre (ℓ)	5 000		R -
C9.1.5				**Asphalt surfacing**				
	C9.1.5.2			Rehabilitation				
		(e)		Sand skeletal mix – continuously graded as defined (40mm layer thickness, PG 64 S-16 binder, design level IB, paver laid)	ton (t)	1 500		R -
C9.1.9				**Application of rolled in chippings**				
	C9.1.9.1			By means of chip spreader	square metre (m2)	8 750		R -
	C9.1.10.2			By hand in restricted areas	square metre (m2)	400		R -
C9.1.10				**Variation rates**				
	C9.1.10.1			Bitumen (PG 64 S -16)	ton (t)	10		R -
	C9.1.10.2			Aggregate	ton (t)	25		R -
	C9.1.10.3			Active filler *(lime unless stated in Contract Documentation)*	ton (t)	1.25		R -
	C9.1.10.6			Bituminous bond coat – net bitumen (Stable-grade 30%)	ton (t)	0.75		R -
C9.1.13				**Coring of asphalt layers**				
	C9.1.13.1			100mm diameter	number (No.)	50		R -
TOTAL CARRIED FORWARD TO SUMMARY								R -

ITEM				DESCRIPTION	UNIT	QTY	RATE	AMT
C10.1 / C1.6.1				**Clearing**				
	C1.6.1.1			Clearing with machine and some hand labour whe	hectare (ha)	1.8		R -
PC10.1.3				**Multiple stone seals including a cover spray, if specified using:**				
	C10.1.3.3			14mm and 7,1mm aggregate (Grade A aggregate and S-E1 binder to both layers)	square metre (m^2)	145 000		R -
PC10.1.4				**Embargo period effects**				
	C10.1.4.1			Re-establishment of sealing team after embargo period	lump sum	lump	sum	
C10.1.9				**Bituminous binder variations:**				
	C10.1.9.2			60% Stable-grade emulsion	litre (ℓ)	41 000		R -
	C10.1.9.7			Homogeneous modified binder (S-E1) hot applied	litre (ℓ)	18 000		R -
	C10.1.9.11			Precoating fluid (as detailed in A10.1.5.7)	litre (ℓ)	1 800		R -
C10.1.10				**Aggregate variation** *(state grade)* **:**				
	C10.1.10.2			7,1mm aggregate, Grade A	cubic metre (m^3)	100		R -
	C10.1.10.4			14mm aggregate, Grade A	cubic metre (m^3)	300		R -
PC10.1.11				**Application of cover spray:**				
	C10.1.11.2			60% Diluted Anionic stable-grade emulsion (70% water / 30% emulsion)	litre (ℓ)	35 000		R -
C10.1.13				**Precoating of aggregate using a dedicated plant**				
	C10.1.13.1			Product containing low flashpoint solvent (as detailed in A10.1.5.7)	litre (ℓ)	35 000		R -
C10.1.16				**Addition of wetting agent:**				
	C10.1.16.1			Providing and supplying	prime cost (PC) sum	Prime	Cost	R 50 000.00
	C10.1.16.2			Handling, applying, profit and all other costs	percentage of prime-cost sum	R 50 000.00		R -
C10.1.19				**Extra over item for work in areas inaccessible to mechanical equipment:**				
	C10.1.19.2			Multiple stone seals	square metre (m^2)	250		R -
C10.1.22				**Bituminous single seal and slurry, including a cover spray if specified:**				
	C10.1.22.3			Bituminous single seal with 10mm aggregate and slurry (60% stable grade emulsion tack coat, Grade A aggregate and fine, fine slurry as used for texture treatment)	square metre (m^2)	8 400		R -
C10.1.24				**Variation in the rate of application of the fine slurry:**				
	C10.1.24.1			Fine grade	cubic metre (m^3)	50		R -
C10.1.25				**Variation in active filler content** (cement)	ton (t)	2.5		R -
C10.1.26				**Trial sections for all seal types specified** (14mm and 7mm multiple stone seal)	lump sum	lump	sum	

ITEM				DESCRIPTION	UNIT	QTY	RATE	AMT
C11.7.1				**Road marking:**				
	C11.7.1.1			White lines broken or unbroken				
		(a)		Water borne paint, 100mm wide	kilometre (km)	24		R -
		(b)		Water borne paint, 150mm wide	kilometre (km)	12		R -
	C11.7.1.2			Yellow lines broken or unbroken				
		(a)		Water borne paint, 100mm wide	kilometre (km)	1		R -
		(b)		Water borne paint, 150mm wide	kilometre (km)	72		R -
	C11.7.1.3			Red lines broken or unbroken				
		(a)		Water borne paint, 100mm wide	kilometre (km)	1		R -
		(b)		Water borne paint, 150mm wide	kilometre (km)	1		R -
	C11.7.1.4			White lettering and symbols (water borne paint)	square metre (m^2)	50		R -
	C11.7.1.5			Yellow lettering and symbols (water borne paint)	square metre (m^2)	50		R -
	C11.7.1.7			Transverse lines, painted island and arrestor bed markings (any colour) (water borne paint)	square metre (m^2)	1 500		R -
C11.7.2				**Retro-reflective road marking:**				
	C11.7.2.1			White lines broken or unbroken				
		(a)		Water borne paint, 100mm wide	kilometre (km)	12		R -
		(b)		Water borne paint, 150mm wide	kilometre (km)	6		R -
	C11.7.2.2			Yellow lines broken or unbroken				
		(a)		Water borne paint, 100mm wide	kilometre (km)	2		R -
		(b)		Water borne paint, 150mm wide	kilometre (km)	36		R -
	C11.7.2.3			Red lines broken or unbroken				
		(a)		Water borne paint, 100mm wide	kilometre (km)	1		R -
		(b)		Water borne paint, 150mm wide	kilometre (km)	1		R -
	C11.7.2.4			White lettering and symbols (water borne paint)	square metre (m^2)	50		R -
	C11.7.2.5			Yellow lettering and symbols (water borne paint)	square metre (m^2)	50		R -
	C11.7.2.7			Transverse lines, painted island and arrestor bed markings (any colour) (water borne paint)	square metre (m^2)	1 500		R -
PC11.7.3				**Thermoplastic road marking**				
	C11.7.3.1			Thermoplastic road marking, broken or unbroken *(colour and width of line indicated)*				
				White, 100mm wide	kilometre (km)	12		R -
				White, 150mm wide	kilometre (km)	6		R -
				Yellow, 100mm wide	kilometre (km)	2		R -
				Yellow, 150mm wide	kilometre (km)	36		R -
C11.7.5				**Variations in rate of application:**				
	C11.7.5.1			White paint	litre (ℓ)	800		R -
	C11.7.5.2			Yellow paint	litre (ℓ)	1 200		R -
	C11.7.5.3			Red paint	litre (ℓ)	50		R -
	C11.7.5.4			Retro-reflective beads	kilogram (kg)	60		R -
	C11.7.5.5			Thermoplastic material, all colours	kilogram (kg)	100		R -
C11.7.7				**Road studs**				
	C11.7.7.2			Permanent road studs compliant to SANS 1463 (RSA-2)				
		(a)		W-W	number (No.)	350		R -
		(b)		W-R	number (No.)	500		R -
		(c)		Y-R	number (No.)	1 800		R -
	C11.7.7.3			Temporary road studs compliant to SANS 1442 or 1463 (RSA-T, W-R colour)	number (No.)	750		R -
C11.7.8				**Setting out and premarking the lines (excluding traffic island markings, lettering and symbols)**	kilometre (km)	18		R -
C11.7.9				**Re-establishing the painting unit during the defects notification period and at other instances on instruction of the Engineer**	number (No.)	1		R -
C11.7.10				**Removal of existing, temporary or final road markings by:**				
	C11.7.10.1			Sandblasting	square metre (m^2)	10		R -
C11.7.11				**Removal of existing road studs**	number (No.)	2 650		R -
TOTAL CARRIED FORWARD TO SUMMARY								R -

ITEM				DESCRIPTION	UNIT	QTY	RATE	AMT
C11.9.1				**Finishing the road and road reserve:**				
	C11.9.1.2			Single carriageway road	kilometre (km)	18		R -

ITEM				DESCRIPTION	UNIT	QTY	RATE	AMT
C20.1.3				**Providing testing equipment:**				
	C20.1.3.1			Core drill	number (No.)			
PC20.1.5				**Financial contribution for an independent site laboratory**	month	12	-R 100 000.00	-R 1 200 000.00
TOTAL CARRIED FORWARD TO SUMMARY								-R 1 200 000.00

ITEM				DESCRIPTION	UNIT	QTY	RATE	AMT
D10.01				**Target Group Participation**				
		(a)		Contract Participation Performance bonus	prime cost (PC) sum	Prime	Cost	R 540 000.00
D10.02				**Stakeholder and Community Liaison and Social Facilitation**				
		(a)		Cost of liaison, social facilitation and PLC support	prime cost (PC) sum	Prime	Cost	R 200 000.00
		(b)		Handling cost and profit in respect of sub-item D10.02(a)	percentage (%)	R 200 000.00		R -
D10.03				**Tender Process for Targeted Enterprises**				
		(a)		Contractor's charge for the management and execution of the Targeted Enterprise procurement process:				
			(i)	Procurement process for the totality of all tenders concluded for the appointment of Targeted Enterprise subcontractors of CIDB 1 and 2 contractor grading	number (No.)	5		R -
			(ii)	Procurement process for the totality of all tenders concluded for the appointment of Targeted Enterprise subcontractors of CIDB 3 and 4 contractor grading	number (No.)	5		R -
			(iii)	Procurement process for the totality of all tenders concluded for the appointment of Targeted Enterprise subcontractors of CIDB 5 and higher contractor grading	number (No.)	2		R -
			(iv)	Procurement process for the totality of all tenders concluded for the appointment of Targeted Enterprise suppliers	number (No.)	12		R -
		(b)		Targeted Enterprise Procurement Coordinator	month	15		R -
D10.04				**Responsibilities of the Contractor towards Targeted Enterprises**				
		(a)		Contractor's establishment, management, management support, assistance, coaching, guidance, mentoring and supervision of Targeted Enterprises	month	12		R -
		(b)		Targeted Enterprise Construction Manager	Person.Month	12		R -
		(c)		Targeted Enterprise Site Supervisors	Person.Month	36		R -
D10.05				**Construction Works by Targeted Enterprises**				
		(a)		Payments associated with the construction works carried out by Targeted Enterprise subcontractors of CIDB 1 and 2 contractor grading designation appointed in terms of Section D	provisional sum	Prov	Sum	R 2 500 000.00
		(b)		Handling costs and profit in respect of payment associated with sub-item D10.05(a)	percentage (%)	R 2 500 000.00		R -
		(c)		Fluctuation between the main contractor's rates and that of the Targeted Enterprise subcontractors	lump sum	lump	sum	
		(d)		Preliminary and General Obligations of Targeted Enterprise sub-contractors appointed in terms of Section D	lump sum	lump	sum	
D10.06				**Training, coaching, guidance, mentoring and assistance**				
		(a)		Training Costs				
			(i)	Accredited NQF training	provisional sum	Prov	Sum	R 200 000.00
			(ii)	Accredited generic skills training	provisional sum	Prov	Sum	R 200 000.00
			(iii)	Community skills training	provisional sum	Prov	Sum	R 200 000.00
			(iv)	D10.06(a)(i), (ii) and (iii)	percentage (%)	R 600 000.00		R -
		(b)		Student experiential training				
			(i)	Student stipends	prime cost (PC) sum	Prime	Cost	R 60 000.00
			(ii)	Provision of experiential training	Person.Month	12		R -
		(c)		Other costs during training	provisional sum	Prov	Sum	R 50 000.00
		(d)		Training venue	lump sum	lump	sum	
TOTAL CARRIED FORWARD TO SUMMARY								R 3 950 000.00

C2.3 SUMMARY OF PRICING SCHEDULE

CONTRACT SANRAL R.036-090-2020/1
FOR RESURFACING OF NATIONAL ROAD R36 SECTION 9 FROM km 0.0 to N1 (km 17.85)

GENERAL			
C1.2	GENERAL REQUIREMENTS AND PROVISIONS	R1 865 000.00	
C1.3	CONTRACTOR'S SITE ESTABLISHMENT AND GENERAL OBLIGATIONS	R2 350 000.00	
C1.4	FACILITIES FOR THE ENGINEER	R705 000.00	
C1.5	ACCOMMODATION OF TRAFFIC	R250 000.00	R5 170 000.00
DRAINAGE			
C3.1	DRAINS	R180 000.00	
C3.3	CONCRETE KERBING AND CHANNELING, ASPHALT BERMS, CHUTES, DOWNPIPES, AS WELL AS CONCRETE, STONE PITCHED AND GABION LININGS FOR OPEN DRAINS	R0.00	R180 000.00
EARTHWORKS AND PAVEMENT LAYERS MATERIALS			
C4.4	COMMERCIAL MATERIALS	R0.00	R0.00
EARTHWORKS AND PAVEMENT LAYERS CONSTRUCTION			
C5.3	ROAD PAVEMENT LAYERS	R115 000.00	R115 000.00
PRETREATMENT AND REPAIR EXISTING LAYERS			
C8.2	COVER SPRAYS, FOG SPRAYS AND REJUVENATION SPRAYS	R0.00	
C8.3	TEXTURE TREATMENT	R0.00	
C8.4	RUT AND/OR DEPRESSION CORRECTION	R0.00	
C8.5	STANDARD CRACK SEALING	R0.00	
C8.8	PATCHING AND EDGE BREAK REPAIR	R0.00	R0.00
ASPHALT LAYERS			
C9.1	ASPHALT LAYERS	R0.00	R0.00
SURFACE TREATMENTS			
C10.1	GENERAL REQUIREMENTS FOR SURFACE TREATMENTS	R50 000.00	R50 000.00
ANCILLIARY ROAD WORKS			
C11.7	ROAD MARKINGS AND ROAD STUDS	R0.00	
C11.9	FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS	R0.00	R0.00
QUALITY ASSURANCE			
C20.1	TESTING MATERIALS AND JUDGEMENT OF WORKMANSHIP	-R1 200 000.00	-R1 200 000.00
SECTION D: STAKEHOLDER AND COMMUNITY LIAISON, AND TARGET LABOUR AND			
D1010	TRAINING, COACHING, GUIDANCE, MENTORING AND ASSISTANCE	R3 950 000.00	R3 950 000.00
	SUBTOTAL A		R2 980 000.00
	CONTRACT SKILLS DEVELOPMENT GOAL:		
	0.25% of Subtotal A		R7 450.00
	SUBTOTAL B		R2 987 450.00
	VALUE ADDED TAX:		
	15% of Subtotal		R448 117.50
	TOTAL CARRIED TO C.1.1.1 : FORM OF OFFER		R3 435 567.50

SIGNED BY TENDERER: _____