

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
C1.2	<u>GENERAL REQUIREMENTS AND PROVISIONS</u>				
C 1.2.4	Stake holders Liaison				
BC 1.2.4.1	Remuneration of the Project Liaison Officer and members of the Project Liaison Committee:				
	(a) Project Liaison Officer	month		R 5 000,00	
	(b) Project Liaison Committee	Prov.Sum	1	R 15 000,00	R 15 000,00
	(c) Training	PC sum	1	R 50 000,00	R 50 000,00
	(d) Handling costs and profit with respect to item	%			
C 1.2.5	Safety				
C 1.2.5.1	Health and safety plan	lump Sum	1		
C 1.2.5.2	Implementation of health and safety plan	month			
C 1.2.8	Dayworks				
C 1.2.8.1	Personnel				
	(a) Unskilled Labourer	hour	40		
	(b) Semi-Skilled Labourer	hour	40		
	(c) Skilled Labourer	hour	40		
C 1.2.8.2	Construction equipment				
	(e) TLB (CAT 416 or similar)	hour	40		
	(f) Excavator	hour	40		
	(g) Compressor plus jackhammer	hour	40		
	(h) Watercart (10 000 litre)	hour	40		
	(i) Other equipment	hour	40		
C 1.2.8.3	Vehicles				
	(a) Light Vehicle	km	1		
	(b) Flatbed Truck	km	1		
	(c) Dump Truck	km	1		
	(d) Other Vehicles	km	1		
C 1.2	Carried forward				

ITEM NO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT
C1.2	Brought forward				
C 1.2.8.4	Materials				
	(a) Procurement of materials	Prov Sum	-		
	(b) Contractor's handling costs, profit and all other charges in respect of subitem B18.03(a)	%			
C 1.2.9	Disposal of non- usable material;				
C 1.2.9.2	Material not identified at the time of tender	Prov Sum	-		
C 1.2.9.3	handling costs, profit and all other charges in respect of subitem C 1.2.9.2	%			
C 1.3	<u>CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS</u>				
C 1.3.1	The Contractor's general obligations:				
C 1.3.1.1	Fixed obligations	lump sum	1		
C 1.3.1.2	Value-related obligations	lump sum	1		
C 1.3.1.3	Time-related obligations	month	6		
C 1.3.2	Contract sign board	m ²	30		
C 1.4	<u>FACILITIES FOR THE ENGINEER</u>				
C1.4.1	Site Accomodation				
C1.4.1.1	Offices and conference room	No	2		
C1.4.1.2	Laboratories	No	1		
C1.4.1.5	Store rooms inside the laboratory	No	1		
C1.4.1.6	Car ports	No	2		
C1.4.1.7	Ablution unit (equipped as specified)				
C1.4.1.13	Rented housing paid for by the Contractor (Engineers Accomodation)	-	Prov	Sum	R 80 000,00
C1.4.1.14	Contractor's handling costs, profit and all other	%		R 80 000,00	
C 1.4	Carried forward				

ITEM NO	DESCRIPTION	UNIT	QUAN-TITY	RATE	AMOUNT
C 1.4	Brought forward				
C 1.4.3	Items measured by number				
C1.4.3.1	Office swivel chair	No	1		
C1.4.3.5	Office desk with 3 drawers (at least one lockable drawer)	No	1		
C 1.4.3.8	Conference table	No	1		
C 1.4.3.10	Steel filing cabinets with drawers	No	1		
C 1.4.3.13	220/250 volt power points	No	2		
C 1.4.3.17	Double 80 watt fluorescent light fittings complete with 100 watt globes	No	1		
C 1.4.3.19	Wash hand basins complete with taps and drains	No	1		
C 1.4.3.23	Fire extinguishers, 9,0kg, all purpose dry powder type, complete, mounted on wall with brackets.	No	1		
C 1.4.3.24	Air-conditioning units with, 2,2 kW minimum capacity, mounted and with own power connection	No	1		
C 1.4.3.31	Rain Gauge	No	1		
C 1.4.3.36	Measuring wheel	No	1		
C 1.4.3.37	First Aid kit	No	1		
C1.4.4	Prime-cost items and items paid for in lump sum:				
C 1.4.4.1	Provision of cellphones including pro-rata rentals, and the cost of phone calls in connection with the administration of the contract	PC Sum	1	R 20 000,00	R 20 000,00
C 1.4.4.2	Handling cost and profit in respect of item C 1.4.4.1	%		R 20 000,00	
C 1.4.4.5	The provision of internet connectivity and WiFi data for Engineer's site staff	PC Sum	1	R 15 000,00	R 15 000,00
C 1.4.4.6	Handling cost and profit in respect of item C 1.4.4.5	%		R 15 000,00	
C 1.4	Carried forward				

ITEM NO	DESCRIPTION	UNIT	QUAN-TITY	RATE	AMOUNT
C 1.4	Brought forward				
C 1.4.4.7	The provision of paper and ink for a combination colour printer/copier/scanner	PC Sum	1	R 20 000,00	R 20 000,00
C 1.4.4.8	Handling cost and profit in respect of item C 1.4.4.7	%		R 20 000,00	
C 1.4.4.9	The provision of a complete 220/250 volt single electrical power installation, including all poles, phase insulators, wiring, switchboards, main connections, meters etc.	PC Sum	1	R 30 000,00	R 30 000,00
C 1.4.4.10	Handling cost and profit in respect of item C 1.4.4.9	%		R 30 000,00	
BC1.4.4.17	Provision for one Laptop for the engineer	PC Sum	1	R 20 000,00	R 20 000,00
	Handling cost and profit in respect of subitem 14.03 (b)(v) above	%		R 20 000,00	
C 1.4.5	Services at site offices, laboratories and site accomodation				
C 1.4.5.1	Fixed Costs	sum	1		
C 1.4.5.2	Running costs	month	6		
BC1.4.4.11	Engineers travelling on site	-	Prov	R 40 000,00	R 40 000,00
	Handling cost and profit in respect of subitem 14.11 above	%		R 40 000,00	
C1.5	<u>ACCOMMODATION OF TRAFFIC</u>				
C1.5.1	Accommodating of pedestrian and non-motorised traffic				
C1.5.1.1	Accommodation of pedestrian and non-motorised traffic	month	6		
C1.5.2	Accommodation of vehicular traffic	month	6		
C1.5.3	Liason with traffic authorities	month	6		
C1.5.4	Construction of temporary deviations	km	1,2		
PLC 3.3.1	Preliminary and General for Local Sub-Contracting	lump Sum	1		
PLC 3.3.1	Handling cost and profit in respect of subitem above and value of works to be completed by local SMME's	%			
C 1.5	Carried forward				

ITEM NO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT
C 1.5	Brought forward				
C1.5.5	Maintenance of temporary deviations				
C1.5.5.9	Grading of temporary deviations and existing roads used as detours	km	1,2		
C1.5.5.10	Watering of temporary deviations and existing roads used as detours	kl	40		
C1.5.5.11	Other road maintenance work ordered by the Engineer	Prov Sum	-	R 15 000,00	R 15 000,00
C1.5.5.12	Handling cost, profit and all other charges in respect of item C1.5.6.11	%		R 15 000,00	
C1.6.1	<u>CLEARING</u>				
C1.6.1.1	Clearing with machines and some hand labour where necessary	ha	1,00		
C1.6.1.2	Clearing with hand labour only when labour enhanced work is specified	ha	0,50		
C1.6.10	Disposal of hazardous waste material:				
C1.6.10.1	Disposal of hazardous waste material at an approved hazardous waste material facility	Prov Sum	-	R 50 000,00	R50 000,00
C1.6.10.2	Handling cost, profit and all other charges in respect of item C1.6.10.1	%		R 50 000,00	
C2.1	<u>GENERAL REQUIREMENTS AND TRENCHING FOR SERVICES</u>				
C 2.1.2	Existing services location, detection and verification				
C2.1.2.5	Using hand excavation to locate, expose and verify services	m ³	50		
C1.2	Total for Chapter 1.2 - Carried to summary				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
C 3.1	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:				
	(a) 0 m up to 1,5 m	m ³	270		
	(b) Exceeding 1,5 m and up to 3,0 m	m ³	50		
C3.1.1.2	Extra over sub-item C3.1.1.1 for excavation in hard and boulder material, irrespective of depth	m ³	50		
C3.1.1.3	Extra over sub-item C3.1.1.1 for excavation in stabilised existing road layers, irrespective of depth	m ³	50		
C3.3	<u>CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES, AND CONCRETE LININGS FOR OPEN DRAINS</u>				
C3.3.1	Concrete kerbing:				
C3.3.1.1	Prefabricated kerbing				
	(a) Prefabricated barrier kerb, SABS 927 fig 6	m	100		
	(b) Transition kerb class 25/19	m	50		
C3.3.1.2	Cast in situ kerbing				
	(a) 300 mm x 100 mm cast in situ class 25/19 kerbing-channelling,	m ³	30		
C3.3.3	Extra over item C3.3.1 for concrete kerbing or concrete kerbing and channeling on curves	m	50		
C3.3.3.1	Radius 1 m to 5 m	m	10		
C3.3.3.2	Radius 5 m to 20 m	m	30		
C 3.3	Carried forward				

TEM NO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT
C 3.3	Brought forward				
C3.3.8	Linings for open drains:				
C3.3.8.1	Cast in situ concrete Class 25/19 lining	m ³	180		
C3.3.8.2	Class U2 surface finish to cast in situ concrete	m ²	1 800		
C3.3.9	Formwork to cast in situ concrete lining for open drains (Class F2 surface finish):				
C3.3.9.3	To ends of slabs	m ²	140		
C3.3.11	Concrete screed or backfilling below kerbs	m ³	90		
C3.3.12	Reinforcement:				
C3.3.12.3	Steel Mesh.ref.no.395	kg	7 110		
C3.3.16	Demolition and removal of existing kerbs	m ³	20		
C 3	Total for Schedule - Carried forward				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
C4.1.4	Removing of the overburden				
C4.1.4.1	In borrow pits	m ³	100		
C4.1.5	Excavating of materials in the borrowpit and quarries, material obtained from;				
C4.1.5.1	Soft excavation	m ³	1 100		
C4.1.5.2	Boulders excavation class A	m ³	600		
C4.1.5.3	Boulders excavation class B	m ³	200		
C4.1.5.4	Hard excavation (other than blasting)	m ³	200		
C4.1.12	Stockpiling the material				
C4.1.12.2	Material directly from the excavation	m ³	2200		
C4.2	<u>CUT MATERIALS</u>				
C4.2.4	Excavating of materials in box cuts, material obtained from;				
C4.2.4.1	Soft excavation	m ³	1 100		
C4.2.4.2	Boulders excavation class A	m ³	600		
C4.2.4.3	Boulders excavation class B	m ³	200		
C4.2.4.4	Hard excavation (other than blasting)	m ³	200		
C4.2.4.5	Hard excavation (by blasting)	m ³	100		
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	100		
C4.2.7.2	In layer thicknesses exceeding 200 mm	m ³	50		
C4.2.12	Finishing the side slopes				
C4.2.12.1	Cuttings;				
	(a) In soft material	m ²	1800		
	(d) In soft material using labour enhanced methods of construction	m ²	500		
C 4.2	Carried forward				

ITEM NO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT
C 4.2	Brought forward				
C4.3	<u>EXISTING ROAD MATERIALS</u>				
C4.3.3	Removal of bituminous seal surfacing (thickness not exceeding 30 mm)	m ²	600		
C4.3.4	Saw-cutting existing materials within the following average depth ranges				
C4.3.4.1	Asphalt material:				
	(a) Up to 50 mm	m	50		
	(b) exceeding 50 mm and up to 100 mm	m	10		
C4.3.4.4	Concrete material;				
	(a) Up to 50 mm	m	30		
	(b) exceeding 50 mm and up to 100 mm	m	10		
C4.3.11	Breaking down a stabilised layer by using conventional road construction equipment	m ³	1100		
C4.3.14	Removing of existing road edging and services structure				
C4.3.14.2	Removing of existing road edging using labour enhanced methods of construction				
	(a) kerbing and edge beam				
	(ii) Precast concrete kerbing (fig. 6)	m ³	10		
C4.1	Total for Schedule - Carried forward				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>EARTHWORKS AND PAVEMENT LAYERS CONSTRUCTION</u>				
C5.1	ROADBED				
C5.1.1	Roadbed construction and compaction				
C5.1.1.2	Compaction of in-situ material to 93 % of MDD (In situ-G7)	m ³	1100		
C5.1.2	Excavate material to spoil sites designated by the Employer				
C5.1.2.1	Excavate material to spoil from roadbed construction, material obtained from:				
	(a) Soft excavation	m ³	2160		
	(b) Boulder excavation Class A	m ³	550		
	(d) Hard excavation (other than by blasting)	m ³	190		
C5.1.4	Removal of unsuitable material to spoil				
C5.1.4.1	In layer thicknesses of 200 mm and less				
	(a) Stable material	m ³	150		
C5.1.5	In-situ treatment of roadbed in hard material				
C5.1.5.1	In situ treatment by ripping	m ³	1100		
C5.1.6	Roller-pass compaction				
C5.1.6.1	Grid rollers	m ²	7200		
C5.1.6.2	vibratory roller	m ²	0		
C5.3	<u>ROAD PAVEMENT LAYERS</u>				
C5.3.2	Construction of pavement layers				
C5.3.2.1	Construction of layers using conventional construction methods				
	(c) Gravel selected layer compacted to:				
	(iii) 95% of modified AASHTO density for a compacted layer thickness of 150 mm (In situ G7)	m ³	1 200		
C 5.3	Carried forward				

ITEM NO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT
C 5.3	Brought forward				
	(l) Gravel subbase (chemically stabilized material) compacted to: (i) 95% of modified AASHTO density for a compacted layer thickness of 150 mm (C4)	m ³	1 200		
	(m) Gravel base (unstabilized material) compacted to: (i) 95% of modified AASHTO density for a compacted layer thickness of 150 mm layer (G6)	m ³	1 200		
C5.4	<u>STABILISATION</u>				
C5.4.6	Addition of cementious stabilisation agents				
C5.4.6.1	Cement (Ordinary Portland cement)	t	20		
C5.4.10	Provision and application of water for curing	kl	40		
C5.1	Total for Schedule - Carried forward				

CHAPTER 6

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
C6.2	<u>SEGMENTAL BLOCK PAVING LAYERS</u>				
C6.2.1	Segmental block paving				
C6.2.1.1	Concrete block paving Type S-A interlocking paving blocks, 80mm thick, for the roadway	m ²	7200		
C6.2.2	Cast in situ concrete edge and intermediate beams	m ³	30		
C6.2.3	Provision and application of approved herbicide and ant poison				
C6.2.3.1	Provision of material	PC sum	-	R10 000,00	R10 000,00
C6.2.3.2	Contractor's charges and profit added to the prime cost sum	%	10%	R10 000,00	R1 000,00
C6.2	Total for Schedule - Carried forward				

CHAPTER 8

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
C8.8	<u>PATCHING AND EDGE BREAK REPAIR</u>				
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	m	100		
C8.8.6.2	Prime coat (litre	90		
C8.8.6.3	Reconstructing edges using:				
	(b) Continuously-graded cold asphalt (t	5		
C8.8	Total for Schedule - Carried forward				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
C11.6	<u>ROAD SIGNS</u>				
C11.6.1	Road sign boards with painted or coloured semi-matt background. Symbols, lettering and borders in Class I retro-reflective material, where the sign board is constructed from:				
C11.6.1.1	Aluminium sheet (2.0 mm thick)				
	(a) Area 0 to 0.5 m ²	m ²	5		
	(b) Area exceeding 0.5m ² but not 2.0 m ²	m ²	30		
	(c) Area exceeding 2.0m ² but not 10 m ²	m ²			Rate Only
C11.6.1.6	Extra over item C11.6.1.1 for attaching signboards to overhead gantry structures and overheads to bridges				
C11.6.1.7	Regulatory signs, permanent				
	(a) 600 mm diameter (1,4 mm chromadek flatsheeting)	No	4		
	(b) 900 mm diameter (1,4 mm chromadek flatsheeting)	No	2		
	(c) 1200 mm diameter (1,4 mm chromadek flatsheeting)	No	1		
C11.6.1.9	Warning signs, permanent				
	(a) 600 mm diameter (1,4 mm chromadek flatsheeting)	No	4		
	(b) 900 mm diameter (1,4 mm chromadek flatsheeting)	No	4		
	(c) 1200 mm diameter (1,4 mm chromadek flatsheeting)	No	1		
C 11.6	Carried forward				

ITEM NO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT
C 11.6	Brought forward				
C11.6.2	Extra over on item C11.6.1 for using				
C11.6.2.1	Background of retro-reflective material of:				
	(a) Class I	m ²	10		
C11.6.2.2	Lettering, symbols and borders of retro-reflective material of:				
	(a) Class III	m ²	10		
C11.6.3	Road sign supports (overhead road sign structures excluded):				
C11.6.3.2	Timber (100mm diameter)	m	50		
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	30		
C11.6.5.2	Excavating soft or intermediate material and backfilling using labour enhanced construction methods	m ³	5		
C11.6.5.3	Extra over item C11.6.5.1 and 2 for cement-treated soil backfill	m ³	25		
C11.6.5.4	Extra over item C11.6.5.1 for hard material excavation	m ³	1		
C11.6.10	Disposing of road signs with a surface area of :				
C11.6.10.1	Area 0 to 0.5 m ²	m ²	12		
C11.6.10.2	Area exceeding 0.5m ² but not 2.0 m ²	m ²	6		
C11.6.10.3	Area exceeding 2.0m ² but not 10 m ²	m ²	2		
C11.6.11	Disposing of overhead road signs				
C11.6.11.1	Up to 10 m ²	m ²	10		
C11.6.11.2	Exceeding 10 m ²	m ²	10		
C 11.6	Carried forward				

ITEM NO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT
C 11.6	Brought forward				
C11.7	<u>ROAD MARKINGS AND ROAD STUDS</u>				
C11.7.1	Road markings				
C11.7.1.1	White lines broken or unbroken (Arcrylic paint, 100 mm wide)	km	1,2		
C11.7.1.4	White lettering and smbols (Arcrylic paint)	m ²	100		
C11.7.5	Variations in rate of application:				
C11.7.5.1	White paint	litre	30		
C11.7.8	Setting out and premarking the lines (excluding traffic-island markings, lettering and symbols)	km	1,2		
C11.9	<u>FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS</u>				
C11.9.1	Finishing the road and road reserve				
C11.9.1.2	Single carriageway road	km	1,2		
C11.9	Total for Schedule - Carried forward				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
C20.1	<u>TESTING MATERIAL AND JUDGEMENT OF WORKMANSHIP</u>				
C20.1.2	Special tests requested by the Engineer				
C20.1.2.2	Employers's contribution to other special tests				
	(a) Specify test	PC Sum	1	R50 000,00	R50 000,00
	(i) Handling costs and profit in respect of item C20.1.2.2(a)	%		R50 000,00	
C20.1	Total for Schedule - Carried forward				

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUAN-TITY	RATE	AMOUNT
C10.1		<u>SOCIO-ECONOMIC REQUIREMENTS</u>				
		Community participation				
	(a)	Cost of community participation and PLC support	Prov Sum	1,00	R 50 000,00	R 50 000,00
	(b)	Handling cost and profit in respect of subitem C10.01(a)	%		R 50 000,00	
PLC 3.3.1		Preliminary and General for Local Sub-Contracting	lump Sum			
PLC 3.3.1		Handling cost and profit in respect of subitem above and value of works to be completed by local SMME's	%			
TOTAL SECTION C CARRIED TO SUMMARY						

SUMMARY OF SCHEDULE

SECTION	DESCRIPTION	AMOUNT
C 1	GENERAL REQUIREMENTS AND PROVISIONS	
C 3	DRAINAGE	
C 4	EARTHWORK AND PAVEMENT LAYERS: MATERIALS	
C 5	EARTHWORK AND PAVEMENT LAYERS: CONSTRUCTION	
C 6	CONCRETE LAYERS	
C 8	PRETREATMENT AND REPAIR OF EXISTING LAYERS	
C 11	ANCILLARY ROAD WORKS	
C 20	QUALITY ASSURANCE	
C	SOCIO-ECONOMIC REQUIREMENTS	
	SUB TOTAL	
	CONTINGENCIES (10%)	
	SUB TOTAL (EXCL. VAT)	
	15% VALUE ADDED TAX (VAT)	
	TOTAL (INCL VAT)	
AMOUNT IN WORDS		