

CONCEPT 3

C1.2

GENERAL REQUIREMENTS AND PROVISIONS

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		
C1.2.2		Programming and Reporting				
	C1.2.2.3	Submission of a Scheme Initial Programme	lump sum	1		
	C1.2.2.4	Submission of a Scheme Full Programme	lump sum	1		
	C1.2.2.5	Reviewing and updating a Scheme programme every month	month	12		
	C1.2.2.6	Preparation and submission of all information and reports specified in the Contract Documentation	month	12		
	C1.2.3.11	Other road maintenance work ordered by the Engineer	provisional sum	Prov	Sum	R 200 000,00
	C1.2.3.12	Handling cost, profit and all other charges in respect of item C1.2.3.11	percentage (%)	R 200 000,00		R -
	C1.2.3.13	Liaison with the routine road maintenance contractor	month	12		
C1.2.4		Stakeholder liaison	month	12		
C1.2.5		Safety				
	C1.2.5.1	Health and safety plan	lump sum	1		
	C1.2.5.2	Implementation of health and safety plan	month	12		
C1.2.6		Work adjacent to properties				
C1.2.7		Road safety audits				
C1.2.8		Dayworks				
	C1.2.8.1	Personnel				
		(a) Unskilled labourer	hour (h)	10	R 40,00	R 400,00
		(b) Semi-skilled labourer	hour (h)	10		
		(c) Skilled labourer	hour (h)	10		
		(d) Gang leader	hour (h)	10		
		(e) Foreman	hour (h)	10		
		(f) Skilled artisan	hour (h)	10		
	C1.2.8.3	Vehicles (<i>specify size</i>)				
		(a) Light delivery vehicle	kilometre (km)	500		
		(b) Flatbed truck	kilometre (km)	200		
		(c) Dump truck	kilometre (km)	200		
		(d) Other vehicles (<i>specify</i>)	kilometre (km)	100		
	C1.2.8.4	Materials				
		(a) Procurement of materials	provisional sum	1	R 20 000,00	R 20 000,00
		(b) Contractor's handling costs, profit and all other charges in respect of item C1.2.8.4(a)	percentage (%)	R 20 000,00		R -
C1.2.9		Disposal of non-useable assets				
	C1.2.9.2	Disposal of non-useable assets not identified at time of tender	provisional sum	1	R 10 000,00	R 10 000,00
	C1.2.9.3	Handling cost, profit and all other charges in respect of item C1.2.9.2	percentage (%)	R 10 000,00		R -
TOTAL CARRIED FORWARD TO SUMMARY						

C1.3

CONTRACTOR'S SITE ESTABLISHMENT AND GENERAL OBLIGATIONS

ITEM		DESCRIPTION	UNIT	QTY	RATE	AMT
PC1.3.1		The Contractor's general obligations				
	C1.3.1.1	Fixed obligations	lump sum	1		
	C1.3.1.2	Value-related obligations	lump sum	1		
	C1.3.1.3	Time-related obligations				
	(a)	Mobilisation and Demobilisation period	month	1		
	(b)	Execution of the works	month	12		
C1.3.2		Contract sign boards	m ²	1		
TOTAL CARRIED FORWARD TO SUMMARY						R -

C1.4

FACILITIES FOR THE ENGINEER

ITEM		DESCRIPTION	UNIT	QTY	RATE	AMT
C1.4.1		Site accommodation				
	C1.4.1.1	Offices and conference room	m ²	9		
	C1.4.1.2	Laboratories	m ²	12		
	C1.4.1.5	Store rooms inside the laboratory	m ²	10		
	C1.4.1.6	Car ports	No.	1		
	C1.4.1.7	Ablution unit (<i>equipped as specified</i>)	No.	1		
	C1.4.1.13	Rented housing paid for by the Contractor	provisional sum	1	R 96 000,00	R 96 000,00
	C1.4.1.14	Contractor's handling costs, profit and all other charges in respect of item C1.4.1.13	percentage (%)	R 96 000,00		R -
C1.4.2		Items measured by area				
	C1.4.2.4	Constant-temperature baths of concrete and/or plastered brick	m ²	10		
	C1.4.2.7	Venetian blinds	m ²	6		
	C1.4.2.8	Notice boards	m ²	2		
	C1.4.2.9	White boards	m ²	10		
C1.4.3		Items measured by number				
	C1.4.3.1	Office swivel chair	No.	1		
	C1.4.3.2	Office chair	No.	1		
	C1.4.3.3	Draughtsman's stool	No.	1		
	C1.4.3.5	Office desk with 3 drawers (<i>at least one lockable drawer</i>)	No.	1		
	C1.4.3.8	Conference table	No.	1		
	C1.4.3.10	Filing cabinet	No.	3		
	C1.4.3.11	General purpose steel cabinet with shelves	No.	3		
	C1.4.3.13	220/250 volt power outlet plug point	No.	6		
	C1.4.3.15	Single 1500m, 58 watt fluorescent tube ceiling light	No.	10		
	C1.4.3.19	Wash-hand basin	No.	2		
	C1.4.3.23	Fire extinguisher 9,0 kg, dry powder type	No.	1		
	C1.4.3.24	Air-conditioning unit	No.	12		
	C1.4.3.25	Heater	No.	4		
	C1.4.3.26	Concrete specimen curing bath	No.	1		
	C1.4.3.27	Waste paper basket	No.	5		
	C1.4.3.28	UPS / Voltage stabiliser	No.	4		
	C1.4.3.29	A3 / A4 colour printer, copier, scanner	No.	1		
	C1.4.3.31	Rain gauge	No.	1		
	C1.4.3.32	Minimum/maximum atmospheric temperature gauge	No.	1		
	C1.4.3.33	Digital thermometer	No.	1		
	C1.4.3.35	3,0m aluminium straight edge complete with two measuring wedges	No.	1		
	C1.4.3.36	Measuring wheel	No.	1		
	C1.4.3.37	First aid kit	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	prime cost (PC) sum	1	R 50 000,00	R 50 000,00
	C1.4.4.2	Handling costs and profit in respect of item C1.4.4.1	(%)	R 50 000,00		R -
	C1.4.4.5	The provision of internet connectivity and WiFi data for Engineer's site staff	prime cost (PC) sum	1	R 10 000,00	R 10 000,00
	C1.4.4.6	Handling costs and profit in respect of item C1.4.4.5	percentage (%)	R 10 000,00		
	C1.4.4.7	The provision of paper and ink for a combination colour printer/copier/scanner	prime cost (PC) sum	1	R 10 000,00	R 10 000,00
	C1.4.4.8	Handling costs and profit in respect of item C1.4.4.7	(%)	R 10 000,00		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	1	R 50 000,00	R 50 000,00
	C1.4.4.10	Handling costs and profit in respect of item C1.4.4.9	(%)	R 50 000,00		R -
C1.4.5		Services at site offices, laboratories and site accommodation				
	C1.4.5.1	Fixed costs	lump sum	1		
	C1.4.5.2	Running costs	month	12		
C1.4.6		Office staff				
	C1.4.6.1	Secretary / receptionist	month	12		
	C1.4.6.2	Technical assistant	month	12		
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	1		

	C1.4.8.2	Provision of security guards / watchmen and an armed response service at the Engineer's site offices and laboratories	month	12		
TOTAL CARRIED FORWARD TO SUMMARY						

C1.5

ACCOMMODATION OF TRAFFIC

[illegible]

C1.6

CLEARING AND GRUBBING

ITEM		DESCRIPTION	UNIT	QTY	RATE	AMT
C1.6.1		Clearing				
	C1.6.1.1	Clearing with machines and some hand labour where necessary	ha	2		
	C1.6.1.2	Clearing with hand labour only when labour enhanced work is specified	ha	0,4		
	C1.6.1.3	Clearing for new fence lines (over a width of 2,0m)	km	0,4		
	C1.6.1.4	Clearing for service trenches (over the agreed width required)	m ²	0		Rate only
C1.6.2		Grubbing				
	C1.6.2.1	Grubbing with machines and some hand labour where necessary	ha	2,00		
C1.6.3		Removal and grubbing of large trees and tree stumps:				
	C1.6.3.1	Girth equal to or exceeding 1,0m up to and including 2,0m	No.	20		
	C1.6.3.2	Girth exceeding 2,0m up to and including 3,0m	No.	5		
C1.6.4		Removal of buildings and structures				
	C1.6.4.1	Provisional sum of the buildings to be removed for construction.				
C1.6.5		Spreading organic matter and covering with soil	m ³	200		
C1.6.6		Mulching selected organic matter	m ³			
C1.6.7		Re-clearing of previously cleared areas	ha			
C1.6.9		Conservation of topsoil:				
	C1.6.9.1	Stockpiling topsoil	m ³	500		
C1.6.10		Disposal of hazardous waste material:				
	C1.6.10.1	Disposal of hazardous waste material at an approved hazardous waste material facility	provisional sum	Prov	Sum	R 20 000,00
	C1.6.10.2	Handling cost, profit and all other charges in respect of item C1.6.10.1	%	R 20 000,00		R -
TOTAL CARRIED FORWARD TO SUMMARY						

C3.1

DRAINS

ITEM		DESCRIPTION	UNIT	QTY	RATE	AMT
C3.1.3		Excavation, clearing and disposal of accumulated sediment in existing lined drains and drainage systems				
	C3.1.3.1	Using conventional methods (up to 1,5m):				
		(a) Manholes and inlet and outlet structures	m ³	0		Rate only
		(b) Culvert barrels	m ³	0		Rate only
		(c) Concrete or other lined side drains	m ³	0		Rate only
C3.1.15		Repairing or replacing existing drainage systems	provisional sum	Prov	Sum	R500 000,00
C3.1.16		Loading and hauling of material in excess of 1,0 km	(m3 - km)			
C3.1.17		Backfilling existing eroded side drains	m ³	0		Rate only
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	15000		
C3.1.24		Submission of as built drawings by the Contractor	provisional sum	1	R 25 000,00	R25 000,00
3.2.3.1.	c	Prefabricated reinforced concrete pipes with circular sections	m	3500		
TOTAL CARRIED FORWARD TO SUMMARY						

C4.3

EXISTING ROAD MATERIALS

[illegible]

C4.4

COMMERCIAL MATERIALS

[illegible]

C4.5

ALTERNATIVE MATERIALS

ITEM		DESCRIPTION	UNIT	QTY	RATE	AMT
C4.5.1		Additional material investigations				
	C4.5.1.1	Cost of sampling and laboratory testing	PC sum	1	R 150 000,00	R 150 000,00
	C4.5.1.2	Handling cost and profit in respect of item C4.5.1.1	%	R 150 000,00		
TOTAL CARRIED FORWARD TO SUMMARY						

C5.1

ROADBED

[illegible]

C5.3

ROAD PAVEMENT LAYERS

[illegible]

ASPHALT SURFACING

ITEM			DESCRIPTION	UNIT	QTY	RATE	AMT
C9.1.5			Asphalt surfacing:				
C9.1.5.1	C5.3.2.1	(a)	New construction:				
		(a)	(a) Stone skeletal mix – continuously graded as defined (state layer thickness, binder type and design class / level)	m²	0		Rate only
		(c)	(b) Stone skeletal mix – SMA as defined (state layer thickness, binder type)	m²	0		Rate only
		(l)	(c) Stone skeletal mix - Porous asphalt as defined (state layer thickness and binder type)	m²	0		Rate only
		(aa)	(d) Stone skeletal mix- open graded as defined (state layer thickness and binder type)	m²	0		Rate only
			(e) Sand skeletal mix – continuously graded as defined (state layer thickness, binder type, design class / level)	m²	0		Rate only
			(f) Semi gap mix – as defined (state layer thickness, binder type and design level)	m²	0		Rate only
			(g) Sand skeletal mix - gap-graded mix (state layer thickness, binder type design class / level)	m²	0		Rate only
			(h) Any of the above mix types where the use of reclaimed asphalt has been specified (indicate maximum % reclaimed asphalt or binder replacement limits)	m²	0		Rate only
			(i) Certified: any mixes certified for specific applications by an approved agency as being fit for the purpose and as specified in the Contract Documentation	m²	0		Rate only
C9.1.5.2			Rehabilitation:				
			(a) Stone skeletal mix – Continuosly graded asphalt (medium grade) 40mm nominal thickness using 60/70 penetration bitumen applied in two layers (levelling + final layer)	t	5500		
			(b) Stone skeletal mix – SMA as defined (state layer thickness, binder type)	t	0		Rate only
			(c) Stone skeletal mix - Porous asphalt as defined (state layer thickness and binder type)	t	0		Rate only
			TOTAL CARRIED FORWARD TO SUMMARY				R

C11.9

FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS

ITEM		DESCRIPTION	UNIT	QTY	RATE	AMT
C11.9.1		Finishing the road and road reserve:				
	C11.9.1.1	Dual carriageway road	km	7		
	C11.9.1.2	Single carriageway road	km			Rate only
C11.9.2		Treatment of old roads and temporary deviations				
	C11.9.2.1	Conventional construction methods	km	7		
	C11.9.2.2	By hand only	km			Rate only
TOTAL CARRIED FORWARD TO SUMMARY						

FOUNDATIONS

ITEM			DESCRIPTION	UNIT	QTY	RATE	AMT
C13.1.1			Provision of designs and drawings of permanent and temporary works by an ECSA-registered Professional Engineer	lump sum	1	R 4 647 676,32	R 4 647 676,32
C13.1.2			Additional foundation investigations:				
	C13.1.2.1		Provisional sum allowed for additional foundation investigations	PC sum	1	R 350 000,00	R 250 000,00
	C13.1.2.2		Handling costs and profit in respect of item C13.1.2.1	%	R 350 000,00		R -
134.1.3			Excavation:				
	C13.1.3.1		Excavating soft material situated within the following successive depth ranges: 2.4x2.4 culvert (1 cell) 2.4x2.4 culvert (2 cells) 2.4x2.4 culvert (6 cells)				
	(a)		0m up to 1,5m	m ³	820		
	(b)		> 1,5m and < 3,0m	m ³	450		
	(c)		Etc. in increments of 1,5m	m ³	10		
	C13.1.3.3		Extra over subitem C13.1.3.1 for additional excavation required by the Engineer after excavation is complete	m ³	20		
	C13.1.3.4		Extra over subitem C13.1.3.1 for excavation by hand	m ³	20		
	C13.1.3.5		Extra over subitem C13.1.3.1 for excavation in restricted areas	m ³	20		
C13.1.4			Excavation by labour enhanced methods:				
	C13.1.4.1		Excavate in soft material situated within the following successive depth ranges: (a) 0m up to 1,5m Extra over item C13.1.3.1(a) for excavation in intermediate material	m ³	50		
	C13.1.4.2		Extra over item C13.1.3.1(a) for additional excavation required by the Engineer after excavation is complete	m ³	25		
	C13.1.4.3		Mass excavation within a restricted area (extra over item C13.1.3)	m ³	10		
C13.1.5			Access and drainage:				
C13.1.6	C13.1.6.1		Access	lump sum	1	R 300 000,00	R 300 000,00
	C13.1.6.2		Drainage	lump sum	1	R 300 000,00	R 300 000,00
C13.1.7			Backfill to excavations utilising:				
	C13.1.7.1		Material from excavation	m ³	70		
	C13.1.7.2		Imported material	m ³	275		
	C13.1.7.3		Soil cement	m ³	20		
C13.1.8			Backfill to excavations utilising labour:				
	C13.1.8.1		Material from excavation	m ³	10		
	C13.1.8.2		Imported material	m ³	10		
	C13.1.8.3		Soil cement	m ³	5		
C13.1.9			Fill within a restricted area (extra over item C5.2.2)	m ³	10		
C13.1.10			Haul in excess of 1,0 km on excavated material and on material imported for backfill, foundation fill and fill for caissons	m3.km	108000		
C13.1.12			Overbreak in excavation in hard material (provisional)	m ²	10		
C13.1.13			Overbreak in excavation in hard material for labour enhanced construction	m ²			
C13.1.14			Foundation fill consisting of:				
	C13.1.14.1		Rock fill	m ³	10		
	C13.1.14.2		Crushed-stone fill	m ³	10		
	C13.1.14.3		Compacted granular material	m ³			Rate only
	C13.1.14.4		Mass concrete provisional (<i>class 15/38</i>)	m ³	10		
	C13.1.14.5		Concrete blinding (<i>50mm Clas 15/20</i>)	m ³	10		
	C13.1.14.6		Plum concrete (<i>class indicated</i>)	m ³			Rate only
C13.1.23			Lateral support for excavations:				
	C13.1.23.1		Excavation or fill at (<i>indicate location</i>) (a) 0m to 5m depth (b) 5m to 10,0m depth (c) Etc. at other locations	m ² m ²	100 200		
TOTAL CARRIED FORWARD TO SUMMARY							

C13.2

FALSEWORK, FORMWORK AND CONCRETE FINISH

ITEM		DESCRIPTION	UNIT	QTY	RATE	AMT
C13.2.1		Formwork to provide (class of finish indicated as F1, F2, F3 or board) surface finish to (description of member to which applicable)	m ²	50		
C13.2.2		Class F1 finish vertical				
C13.2.3		Wingwall footings, retaining wall and barrel floor slabs (9 No. 2.4 x 2.4m Culvert)	m ²	900		
C13.2.4		Class F2 finish				
		Concealed surfaces of culvert barrel, headwalls and wingwalls				
		9 No. 2.4 x 2.4 m Culvert	m ²	380		
		Horizontal formwork to provide:				
		Roof slab of culvert barrel (9 No. 2.4 x 2.4 m Culvert)	m ²	850		
TOTAL CARRIED FORWARD TO SUMMARY						

C13.3

STEEL REINFORCEMENT

ITEM		DESCRIPTION	UNIT	QTY	RATE	AMT
C13.3.1		Reinforcement for:				
	C13.3.1.1	Steel reinforcement for:				
		Foundations, culvert barrel, wingwalls, headwalls and apron slabs				
		Mild steel bars (hot-rolled, plain)	t	1		
	(a)	High-yield stress steel bars (hot-rolled, deformed)	t	160		
TOTAL CARRIED FORWARD TO SUMMARY						

C13.4

CONCRETE

ITEM			DESCRIPTION	UNIT	QTY	RATE	AMT
C13.4.1			Cast in situ concrete				
	C13.4.1.2		Durable concrete (class D):				
		(a)	Class D25/30 - XC4 (100)-20 in foundations, culvert barrel, wingwalls, headwalls and apron slabs (9 cells No. 2.4 x 2.4 m Culvert)	m ³	1020		
C13.4.5			Curing and surface protection of cast in situ concrete				
	C13.4.5.1		Formed surfaces to barrel sections	m ²	1250		
	C13.4.5.2		Unformed surfaces to barrel	m ²	920		
TOTAL CARRIED FORWARD TO SUMMARY							

C13.7

JOINTS

ITEM			DESCRIPTION	UNIT	QTY	RATE	AMT
C13.7.2			Filled joints:				
	C13.7.2.1		Depth greater than 150 mm (measured per square metre)				
		(a)	10 mm thick joint filler	m ²	225		
C13.7.4			Sealing joints with:				
	C13.7.4.1		10 mm x 10mm Silicone Sealant between copings	m	230		
TOTAL CARRIED FORWARD TO SUMMARY							

C14.3

DEMOLITION AND REMOVAL OF STRUCTURAL CONCRETE AND STEELWORK

ITEM			DESCRIPTION	UNIT	QTY	RATE	AMT
C14.3.1			Demolition of concrete members or elements				
	C14.3.1.2		Demolishing				
		(a)	Existing culverts	m ³	100		
TOTAL CARRIED FORWARD TO SUMMARY							

C20.1

TESTING MATERIALS AND JUDGEMENT OF WORKMANSHIP

ITEM			DESCRIPTION	UNIT	QTY	RATE	AMT
C20.1.1			Special tests on elastomeric bearings (150% vertical load and 150% shear distortion)	No.	0		Rate only
C20.1.2			Special tests requested by the Engineer				
	C20.1.2.1		Employer's contribution to concrete durability tests				
		(a)	Tests for water sorptivity	PC sum	1		
		(i)	Handling costs and profit in respect of item C20.1.2.1(a)	%	10%		
		(b)	Tests for oxygen permeability	PC sum	1		
		(i)	Handling costs and profit in respect of item C20.1.2.1(b)	%	10%		
		(c)	Tests for chloride conductivity	PC sum	1		
		(i)	Handling costs and profit in respect of item C20.1.2.1(c)	%	10%		
		(d)	Tests for concrete cover	PC sum	1		
		(i)	Handling costs and profit in respect of item C20.1.2.1(d)	%	10%		
TOTAL CARRIED FORWARD TO SUMMARY							

SECTION D - D1000			TRAINING, COACHING, GUIDANCE, MENTORING AND ASSISTANCE			
ITEM		DESCRIPTION	UNIT	QTY	RATE	AMT
D10.01		Target Group Participation				
	(a)	Contract Participation Performance bonus	prime cost (PC) sum	1		
D10.02		Stakeholder and Community Liaison and Social Facilitation				
	(a)	Cost of liaison, social facilitation and PLC support	prime cost (PC) sum	1		
	(b)	Handling cost and profit in respect of sub-item D10.02(a)	percentage (%)	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.)	20		
	(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.)	10		
	(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.)			
	(iv)	Procurement process for the totality of all tenders concluded for the appointment of Targeted Enterprise suppliers	number (No.)	10		
	(b)	Targeted Enterprise Procurement Coordinator	month	12		
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		
	(b)	Targeted Enterprise Construction Manager	Person.Month	12		
	(c)	Targeted Enterprise Site Supervisors	Person.Month	12		
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	1	R 30 000,00	R 30 000,00
	(b)	Handling costs and profit in respect of payment associated with sub-item D10.05(a)	percentage (%)	R 30 000,00		R -
	(c)	Fluctuation between the main contractor's rates and that of the Targeted Enterprise subcontractors	lump sum	1		
	(d)	Preliminary and General Obligations of Targeted Enterprise sub-contractors appointed in terms of Section D	lump sum	1		
D10.06		Training, coaching, guidance, mentoring and assistance				
	(a)	Training Costs				
	(i)	Accredited NQF training	provisional sum	1	R 300 000,00	R 300 000,00
	(ii)	Accredited generic skills training	provisional sum	1	R 15 000,00	R 15 000,00
	(iii)	Community skills training	provisional sum	1	R 15 000,00	R 15 000,00
	(iv)	Handling cost and profit in respect of subitems D10.06(a)(i), (ii) and (iii)	percentage (%)	R 300 000,00		R -
	(b)	Student experiential training				R -
	(i)	Student stipends	prime cost (PC) sum	1		
	(ii)	Provision of experiential training	Person.Month	12		
	(c)	Other costs during training (<i>specify</i>)	provisional sum	1	R 50 000,00	R 50 000,00
	(d)	Training venue	lump sum	1		R -
TOTAL CARRIED FORWARD TO SUMMARY						

C2.3 SUMMARY OF PRICING SCHEDULE

VILJOENSKROON

GENERAL

- 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

R -

SERVICES

- C2.1 GENERAL REQUIREMENTS AND TRENCHING FOR SERVICES

R -

DRAINAGE

- C3.1 DRAINS
- CONCRETE KERBING AND CHANNELING, ASPHALT BERMS, CHUTES,
- C3.3 DOWNPIPES, AS WELL AS CONCRETE, STONE PITCHED AND GABION LININGS FOR OPEN DRAINS

R -

EARTHWORKS AND PAVEMENT LAYERS MATERIALS

- C4.2 CUT MATERIALS
- C4.4 COMMERCIAL MATERIALS
- C4.5 ALTERNATIVE MATERIALS

R -

EARTHWORKS AND PAVEMENT LAYERS CONSTRUCTION

- C5.3 ROAD PAVEMENT LAYERS

ASPHALT SURFACING

- C9.1 ASPHALT LAYERS

ANCILLIARY ROAD WORKS

- C11.5 FENCING
- C11.8 LANDSCAPING AND PLANTING PLANTS
- C11.9 FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS

GEOTECHNICAL

- C12.7 TRENCHLESS METHODS

STRUCTURES

- C13.1 FOUNDATIONS
- C13.2 FALSEWORK, FORMWORK AND CONCRETE FINISH
- C13.3 STEEL REINFORCEMENT
- C13.4 CONCRETE
- C13.7 JOINTS
- C13.8 ANCILLARY STRUCTURAL ELEMENTS

REPAIR AND REHABILITATION STRUCTURES

- C14.1 ACCESS FOR BRIDGE REHABILITATION
- C14.3 DEMOLITION AND REMOVAL OF STRUCTURAL CONCRETE AND STEELWORK
- C14.4 SURFACE AND STRUCTURAL REPAIR OF CONCRETE MEMBERS
- C14.5 ANCHORING OF REINFORCEMENT, GROUTING AND CRACK INJECTION

R -

QUALITY ASSURANCE

- C20.1 TESTING MATERIALS AND JUDGEMENT OF WORKMANSHIP

R -

SECTION D: STAKEHOLDER AND COMMUNITY LIAISON, AND TARGET LABOUR AND TARGETED ENTERPRISES UTILISATION AND DEVELOPMENT

- D1010 TRAINING, COACHING, GUIDANCE, MENTORING AND ASSISTANCE

R -

SUBTOTAL A

VALUE ADDED TAX:

15% of Subtotal

TOTAL