SUMMARY OF COSTS					
SECTION	DESCRIPTION	AMOUNT (ZAR)			
SCHEDULE A	PRELIMINARY AND GENERAL				
1200	GENERAL REQUIREMENTS AND PROVISIONS				
1300	CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS				
1400	HOUSING, OFFICES AND LABORATORIES FOR THE ENGINEER'S SITE PERSONNEL				
TOTAL SCHED	ULE A				
SCHEDULE B	ROADWORKS				
1500	ACCOMMODATION OF TRAFFIC				
1600	OVERHAUL				
1700	CLEARING AND GRUBBING				
1800	DAYWORKS				
2100	DRAINS				
2200	PREFABRICATED CULVERTS				
2300	CONCRETE LININGS FOR OPEN DRAINS (LI)				
3100	BORROW MATERIALS				
3300	MASS EARTHWORKS				
3400	PAVEMENT LAYERS OF GRAVEL MATERIALS				
3500	STABILIZATION				
5100	PITCHING, STONEWORK AND PROTECTION AGAINST EROSION (LI)				
5400	GUARDRAILS (LI)				
5600	ROAD SIGNS				
5700	ROAD SIGNS ROAD MARKINGS				
6200	FALSEWORK,FORMWORK AND CONCRETE FINISH				
6300	STEEL REINFORCEMENT				
6400	CONCRETE				
6600	NO-FINES CONCRETE JOINTS, BEARINGS,				
7300	CONCRETE BLOCK PAVING FOR ROADS				
8100	TESTING MATERIAL AND WORKMANSHIP				
TOTAL SCHED					
SCHEDULE C	PROVISIONAL SUMS				
C3	PROVISION OF STRUCTURED TRAINING				
TOTAL SCHED	ULE C				
SUMMARY OF	SCHEDULES				
SCHEDUI F A P	RELIMINARY AND GENERAL				
SCHEDULE B R					
	PROVISIONAL SUMS				
SUB-TOTAL					
	Contract Price Adjustment)				
Add 10% CONT	IGENCIES				
SUB-TOTAL					
150/ \/AT					
15% VAT					

SCHEDULE A : GENERAL

ITEM	DESCRIPTION	UNIT	QTY	RATE		AMOUNT
1200	GENERAL REQUIREMENTS AND PROVISIONS					
B12.01	The contractor's obligations in respect of local and other					
	labourers:					
	(a) Utility services					
	(i) Relocation of services and payments to service	Prov Sum	1,00	500 000,00	R	500 000,00
	owners (ii) Handling costs and profit in respect of sub-item	%	F00 000 00			
	B12.01(a)(i) above	70	500 000,00			
D40.00	Providing for Polaristics/Protection of Comings					
B12,03	Provision for Relocation/Protection of Servises (a) Allow a provisional sum for existing eskom services					
	to be relocated and/or protected as ordered by the	Prov Sum	1,00	2 000 000,00	R	2 000 000,00
	engineer					
	(b) By the contractor (boundary walls and fences, 2,4m in height)	m	450,00			
	(c) Allow a provisional sum for the relocation of water bulk and distribution lines and/ or protection as ordered					
	by engineer	Prov Sum	1,00	2 500 000,00	R	2 500 000,00
	(b) Handling cost and profit in respect of subitem					
	B12,03(a) and B12,03 (c)	%				
B12,04	Provision for a Community Liaison Officer					
	(a) Provisional Sum for the payment of the Community	Prov Sum	1,00	133 000,00	R	133 000,00
	Liaison Officer (R9500 per month) (b) Provision for Student Trainee (@R7500 per month)	Prov Sum	1,00	105 000,00	R	105 000,00
	(c) Provision for the SHE Representative	Prov Sum	1,00	105 000,00	R	105 000,00
B12,05	(a) Occupational Health and Safety & construction	Month	14,00			
2.2,00	regulation time related obligations (b) Special information signs	PC Sum	1,00	25 000,00	R	25 000,00
	(c) Handling costs and profit in respect of subitem	%	25 000,00	20 000,00		20 000,00
	B12,05(a)+(b)+(c)	, ,				
B12,06	a)Provision for use by Engineer of Surveyor	Prov Sum	14,00	6000	R	84 000,00
	Handling costs and profit in respect of the above	%	84 000,00			
B12,07	Supply and Install Contract Notice boards as instructed by the Engineer (as per drawing)	No,	2,00			
	by the Engineer (as per drawing)					
400	0 TOTAL CARRIED TO SUMMARY					
120	U TOTAL CARRIED TO SUMMART					

SCHEDULE A : GENERAL

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1300	CONTRACTORS ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS				
	SITE AND GENERAL OBLIGATIONS				
13,01	The contractors general obligations				
(a)	Fixed obligations	L/sum	1,00		
(b)	Value related obligations	L/sum	1,00		
(c)	Time related obligations	Month	1,00		
B13,02	Contractor's initial obligation in respect of the OHS Act and Construction Regulations including submission of the Health and Safety file for approval	L/Sum	1,00		
B13.03	(d)Health and Safety obligations (ii) Execution of the works (f) Environmental obligation (h) Security on site NB: The combined tendered total for subitem (a) (b) and (c) should not exceed 15% of the tender sum , excluding VAT, (refer to form H; CONTRACTOR'S ESTABLISHMENT ON SITE)	Month Month Month	14,00 14,00 14,00		
(a)	Compilation of a Risk Assessment prior to commencement of Construction.	L/sum	1,00		
(b)	Health & safety induction training of employees	L/sum	1,00		
(c)	Compilation and keeping up to date the Health & Safety file which shall include all documentation required in terms of the Act including COVID 19 . Implementation of the health and Safety plan over the entire construction period	Month	12,00		
(d)	Handling cost and profit in respect of subitem B13.02 (a)	%	36 000,00		
B13.04	Contractor's time-related obligations in respect of the Occupational Health and Safety Act and Construction Regulations including COVID-19 compliance as promulgated.	month	14,00		
B13,05	Submission of the Health and Safety File, and obtaining the construction permit	L/sum	1,00		
13/22.26	Hand excavation to detremine the position of existing services	m3	150,00		
1300	TOTAL CARRIED TO SUMMARY				

SCHEDULE A : GENERAL

ITEM	DESCRIPTION	UNIT	QTY	RATE		AMOUNT
1400	HOUSING, OFFICES AND LABORATORIES FOR THE					
1.00	ENGINEER'S SITE PERSONNEL					
14,01	Office and laboratory accommodation:					
(a)	Offices (interior floor space only)	m²	24,00			
()	(e) Ablution units	m²	9,00			
14,02	Office furniture:					
	(a) Chairs	No	10,00			
	(d) Desks, complete with drawers and locks	No No	5,00			
	(f) Conference tables	NO	1,00			
14,03	Office and laboratory fittings, installations and					
	equipment:					
	(a) Items measured by number:					
	(i) 220/250 volt power points	No	4,00			
	(ii) 400/231 volt 3-phase power points	No	4,00			
	(iii) Double 80 watt fluorescent-light fittings complete with	No	3,00			
	ballast and tubes	140	0,00			
	(iv) Double 55 watt fluorescent light fittings complete with ballast and tubes	No	3,00			
	(v) Single incandescent-light fittings complete with 100					
	watt globes	No	1,00			
	(vi) Wash-hand basins complete with taps and drains	No	1,00			
	(viii) Extractor fans installed complete with own power	No	1,00			
	connection	140	1,00			
	(x) Fire extinguishers, 2,5 kg, type complete, mounted	No	1,00			
	on wall with brackets (xi) Air-conditioning units with 2,2 kW minimum capacity,					
	mounted and with own power connection	No	1,00			
	(xiv) General-purpose steel cupboards with shelves	No	3,00			
	(xv) Steel filing cabinets with drawers	No	2,00			
	(xvi) 220l (min.) refrigerators with lockable doors	No	1,00			
	(xix) Steel drawing hangers	No	1,00			
	(xx) Floodlights with 500W globes controlled by a	NI-	4.00			
	photocell and mounted on a steel pole 3.5m above ground level	No	1,00			
B14,03	(xvi) Refrigerator (200 I min)	No	1,00			
B14,03	(xix) Rain gauge	No	1,00			
	(xx) Maximum and minimum thermometer	No	1,00			
14,03	(b) Prime-cost items and items paid for in a lump sum:					
,	(b) Prime-cost items and items paid for in a lump sum:	PC Sum	1,00	30000,00	R	30 000,00
	(ii) Handling costs and profit in respect of subsubitem	%	30 000,00			
	14,03(b)(i) above	76	30 000,00			
	(v) The provision of a Email/fax apparatus as specified	PC Sum	1,00	8000,00	R	8 000,00
	(vi) Handling costs and profit in respect of subsubitem	0/	0.000.00			
	14,03(b)(v) above	%	8 000,00			
14,04	Car ports as specified at offices and laboratory buildings	No	5,00			
B14,11	Telecommunication system					
	(a) Supply (4) Callula = - b = -	Duo: C	4.00	45000.00	_	45.000.00
	(a) Supply (1) Cellular phone (b) Costs of calls by Engineer	Prov Sum Prov Sum	1,00 1,00	15000,00 6000,00	R R	15 000,00 6 000,00
	(b) Costs of calls by Engineer	Prov Sum	1,00	6000,00	R	6 000,00
	(c) Handling costs and profit for items (a & b) above	%	21 000,00	0000,00	``	0 000,00
	. ,	•	,.0		1	
B14.12	Independent Laboratory					
	a) Provision for the use of an independent Laboratory	Prov Sum	1,00	500000,00	R	500 000,00
	for the Engineer	- +	.,	,		
	b) Handling Cost and profit in respect of item B14.12(a)	%	500 000,00			
	D 17.12(a)					
					1	
					<u> </u>	
1400	TOTAL CARRIED TO SUMMARY					

SECTION 1500

SCHEDULE B: ROADWORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1500	ACCOMMODATION OF TRAFFIC				
15,01	Accomodating traffic and maintaining tempory deviations	km	2,00		
15,02	(Including Watering of By Pass/Deviation) Earthworks for temporary deviations:				
(a)	Shaping of temporary deviatons	km	2,00		
	(b) Cut and borrow to fill	m3	80,00		
	(c) Cut to spoil	m3	80,00		
15,03	Temporary traffic control facilies :	No	6,00		
(a)	Flagmen	Man days	265,00		
(b)	Portable STOP & GO-RY signs	No	6,00		
(e)	Road signs, R- and TR series, (1200 mm dia) (i) 1200mm (ii) 1500mm	No No	5,00 5,00		
	(d) Amber flicker lights	No	6,00		
(f)	Road signs, TW series (1500 mm sides) (i) 1200mm (ii) 2400mm x 400mm	No No	6,00 6,00		
(g)	Road signs, STW,-DTWG,TGS-, and TG series (excluding delineators and barricades) (i) 1200mm (ii) 2400mm x 400mm	No No	6,00 6,00		
(h)	Delineators (DTG50J)				
(ii)	(i) Mounted back to back (1200 mm x 150 mm)	No	450,00		
(iii)	Moveable barricades/road signs combination	No	20,00		
(j)	Traffic cones (750 mm high)	No	60,00		
(n)	Provision of high visibility safety jackets and safety boots	No	10,00		
B15,11	Temporary traffic-control facilities				
(a)	Provision, first erection on site and final removal	No	2,00		
(b)	Re-use on site of traffic-control	No	5,00		
(c)	Manual operation of traffic-control signal systems	100h	5,00		
(d)	Traffic signals	lump s	4,00		
B15.14	Amber flashing lights mounted on signs	no	6,00		
15/34.01	Pavement layers constructed from gravel taken from cut or borrow borrow including free-haul up to 1,0 km:				
	(b) Gravel shoulders compacted to:				
	(ii) 93% of modified AASHTO density for a compacted layer (ii) thickness of 150mm	m³	700,00		
	Watering of temporary deviations	Kiloliter	2 900,00		
1500	TOTAL CARRIED TO SUMMARY		[

SCHEDULE B: ROADWORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1600	OVERHAUL				
16.01	Overhaul on material hauled in excess of a free-haul distance of 0,5 km, for haul up to or through 1,0 km (restricted overhaul)	m³	2900,00		
16.02	Overhaul on material hauled in excess of 5,0 km (ordinary overhaul)	m³-km	4400,00		
1600	TOTAL CARRIED TO SUMMARY				

SECTION 1700

SCHEDULE B : ROADWORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1700	CLEARING AND GRUBBING				
17,01	Clearing and grubbing within the road reserve	ha	2,00		
17,02	Removal and grubbing of large trees and tree stumps				
(a)	Grith exceeding 1m up to and including 2m	no	5,00		
	(b) Girth exceeding 2 m up to and including 3 m	No.	3,00		
	Girth larger than 3m up to andincluding 4m	No.	3,00		
17,05	Cleaning out of hydraulic structures:				
(a)	Pipes with an internal diameter up to 750mm	m³	100,00		
17/16.01	Overhaul on material hauled in excess of 1 km	m³-km	450,00		
17/33.11	Three roller passes compaction: (a) Vibratory roller	m²	500,00		
1700	TOTAL CARRIED TO SUMMARY				

SCHEDULE B: ROADWORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1800	DAYWORKS				
	Note: Dayworks executed on the instruction of the Engineer Only, Supervision of dayworks is not payable under this section and is deemed to be included under section 1300				
B18,01	Labourers: (i) Unskilled (ii) Semi-skilled (iii) Skilled (iv) Ganger (v) Flagmen	hr hr hr hr hr	250,00 250,00 250,00 125,00 125,00		
B18,02	Foreman	hr	125,00		
B18,03	Tipper trucks: (i) 3 - 5 ton (ii) 5,1 - 10 ton	hr hr	80,00 125,00		
B18,04	Loader (0,5m³)	hr	45,00		
B18,05	Grader (CAT 140G or similar)	hr	125,00		
B18,06	LDV	hr	125,00		
B18,07	Compaction Rollers: (i) Vibrator roller (ii) Tamping roller (iii) Grid roller	hr hr hr hr	90,00 90,00 35,00 40,00		
B18,08	Hand Controlled Compactors (i) Pedestrian roller (Bomag BW90 or similar) (ii) Vibratory plate (iii) Rammers	hr hr hr	125,00 125,00 125,00		
B18,09	Water truck (min 10 000 l)	hr	125,00		
B18,10	Dozer (D7 or similar)	hr	40,00		
1800	TOTAL CARRIED TO SUMMARY				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2100	DRAINS				
B21.01	Excavation for open drains: (a) Excavating soft material situated within the following depth ranges below the surface level:				
	(i) 0m up to 1,5m	m³	420,00		
	(b) Extra over subitem 21,01(a) for excavation in (b) hard material, irrespective of depth	m³	60,00		
21,02	Clearing and shaping of existing open drains	m³	63,00		
21,03 (a)	Excavation for subsoil drainage systems: Excavating soft material situated within the following depth ranges below the surface level:				
(i) (b)	0m up to 1,5m Extra over subitem 21,01(a) for excavation in	m³	40,00		
(5)	hard material, irrespective of depth	m³	15,00		
21,06	Natural permeable material in subsoil drainage systems(crushed-stone):				
(b)	Crushed-stone obtained from commercial sources (no-overhaul):	m³	50,00		
(i)	Fine grade stone (13,2mm nominal size aggregate)	m³	68,00		
21,08 (b)	Pipes in subsurface drainage systems: Unplasticized uPVC pipes and fittings, normal duty, complete with couplings:				
(i)	100mm diameter (perforated)	m	600,00		
21,1	Synthetic-fibre filter fabric: Non-woven needle punched type:				
(a) (i)	"Kaymat U24" or approved equivalent	m²	600,00		
21,12	Concrete outlet structures, manhole boxes, junction boxes and cleaning eyes for subsoil drainage systems:				
	Outlet structures Cleaning eyes	No, No	5,00 2,00		
	Junction boxes	No	4,00		
21,13	Concrete caps for sub-soil drain pipes	No	8,00		
21,15	Overhaul for material hauled in excess of 1,0km free-haul (normal overhaul)	m³-km	250,00		
21,16	Backfilling existing eroded side drains	m³	30,00		
21,17	Test flushing of pipe subsoil drains	kl	100,00		
B21.22	Subsoil outlet marker board	No	6,00		
B21.23	Break into existing drainage structures and install subsoil drain pipe	No	4,00		
2100	TOTAL CARRIED TO SUMMARY				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2200	PREFABICATED CULVERTS				
22,01	Excavation:				
(a)	Excavating soft material situated within the				
	following depth ranges below the surface level :	_			
(i) (ii)	0m up to 1,5m Exceeding 1,5 m up to 3,0 m	m³ m³	1000,00 500,00		
(11)	Exceeding 1,5 m up to 3,0 m	1114	300,00		
22,02	Backfilling :				
(a) (b)	Using the excavated material:	m³ m³	550,00 200,00		
(D)	Using imported selected material :	III	200,00		
22,03	Concrete interlocking pipe culverts:				
(b)	On class B bedding		4000.00		
(i) (ii)	Class 50 D pipes, 600mm diameter Class 50 D pipes, 900mm diameter	m m	1000,00 550,00		
(iii)	Class 100 D pipes, 600mm diameter	m	15,00		
22,05 (b)	Portal and rectangular culverts : With prefabricated floor slabs, 1,2m x 1,2m (RP) Type				
(D)	class 100S				
	(i) 1200mm X 1200mm	m	30,00		
	(iii) 1500mm X 900mm	m	30,00		
22,07	Cast in situ concrete and formwork :				
(b)	In floor slabs for portal culverts including formwork				
	joints and class U2 surface finish (class 30/19 concrete)	m³	35,00		
(c)	In inlet and outlet structures, excluding formwork but		•		
(0)	_	3	45.00		
	including class U2 surface finish (class 30/19 concrete)	m³	15,00		
22,12	Removing existing concrete				
(a)	Plain concrete	m³	50,00		
(b)	Reinforced concrete	m³	30,00		
22.40	Prinkwork (congrete brinks)				
22,18 (b)	Brickwork (concrete bricks) 230 mm thick	m²	15,00		
22/32,06	Stockpiling of material	m³	300,00		
22/64,01	Encasing of service ducts/ culverts in concrete:				
(a)	Class 15/19 Mass concrete	m³	20,00		
2200	TOTAL CARRIED TO SUMMARY			ı	

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2300	CONCRETE KERBING, CHANNELING, CHUTES, DOWNPIPES, AND LININGS FOR OPEN DRAINS				
23,01	Concrete kerbing (class 25/19 concrete) Prefabricated mountable kerb, SABS 927: (i) Fig 8c Kerb, as shown on drawings	m	5000,00		
(b)	300 mm x 200 mm cast in situ class 25/19 concrete edge beam, as shown on the drawings	m	65,00		
23,02 (a)	Concrete kerbing-channelling combination Type A in situ cast side drain, class 25/19 concrete	m³	40,00		
(b)	150mm thick concrete drift, class 25/19 concrete	m³	5,00		
23,03 (a)	Concrete chutes Type E in situ cast concrete chute, class 25/19 concrete (see drawing series 213-2020-BM-SW)	m	30,00		
23,05 (a)	Inlet, outlet, transition and similar structures: Energy breaker, class 25/19 concrete (see drawing)	No	15,00		
23.07	Trimming of excavations for concrete-lined open drains:				
(a) (b)	In soft material In hard material	m² m²	120,00 40,00		
23.08	Concrete lining for open drains:				
(a)	Cast in situ class 15/19 concrete lining for v-drains	m³	300,00		
(b)	Class U2 surface finish to cast in situ concrete in drains*	m²	1950,00		
23.09 (a) (b)	Formwork to cast in situ concrete lining for open drains (class F2 surface finish): To sides with formwork on the internal face only To sides with formwork on both internal and external faces (each face measured) to ends of slabs	m² m2	130,00 130,00		
23.10	Sealed joints in concrete linings of open drains (description of type with reference to drawing	m	200,00		
23.11	Concrete screed or backfill below chutes, class 15/19 concrete*	m³	10,00		
23,12 (c)	Steel reinforcing: Welded steel fabric	kg	8000,00		
23.13	Polyethylene sheeting (0,15 mm thick) for concrete-lined open drains	m²	400,00		
2300	TOTAL CARRIED TO SUMMARY				

SCHEDULE B : ROADWORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3100	BORROW MATERIALS				
31,01	a) Strip and stockpile suitable topsoil by mechanical means as directed by the Engineer to a depth of and including 0,5 m and be replaced and made good after completion of excavations around the borrow pit	m³	7500,00		
	b) Ditto but exceeding 0,5 m up to 1,0 m	m³	1500,00		
	b) blue but exceeding 6,6 m up to 1,6 m		1000,00		
	NOTE : All excavated material is measured in cut				
3100	TOTAL CARRIED TO SUMMARY				
3.50					

SCHEDULE B : ROADWORKS

	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3300	MASS EARTHWORKS				
33,04	Cut to spoil, including free-haul up to 0,5km, Material obtained from:				
(a)	Soft excavation	m³	7500,00		
(b)	Intermediate excavation	m³	1600,00		
(c)	Hard excavation	m³	300,00		
(d)	Boulder excavation class A	m³	100,00		
(e)	Boulder excavation class B	m³	100,00		
33.10	Roadbed preparation and the compaction of material:				
(a)	Compaction to 90% of modified AASHTO density	m3	2880,00		
33.11	Three-roller-passes compaction:				
(a)	Vibratory roller	m²	10000,00		
(b)	Oscillatory roller	m²	5000,00		
(c)	Grid roller	m²	4200,00		
B33,20	Reshaping the road formation with material obtained from the road reserve and compacted to 90% of modified AASHTO density	m²	19200,00		
33/33,06	Chemical blasting for rock outcrops	m³	60,00		
3300	TOTAL CARRIED TO SUMMARY	<u>I</u>	<u>I</u>	<u>I</u>	

SCHEDULE B : ROADWORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3400	PAVEMENT LAYERS OF GRAVEL MATERIAL				
B34.01	Pavement Layers constructed from gravel taken from commercial sources				
(e)	G4 Base layer compacted to:				
(i)	97% of modified AASHTO density for a compacted layer thickness of 150 mm	m³	2800,00		
34,03	Pavement layers constructed from gravel obtained from existing pavement layers :				
(1)	Gravel subbase wearing coarse compacted to 95% mod AASHTO density using:				
(i)	Non-cemented G5 material (150mm thick)	m³	2900,00		
B34,04	Pavement Layers constructed from gravel taken from commercial sources				
	(a) Sub-grade material G6 or better 93% of modified AASHTO density for a compacted layer thickness of 150 mm	m³	3000,00		
34,04	Cost of sampling and material testing	Prov Sum	1,00	20000,00	R 20 000,00
34,05	Handling cost and profit in respect of item 34,05	%	20000,00		
3400	TOTAL CARRIED TO SUMMARY	<u> </u>		<u> </u>	
3.30	- = ==:::::::::::::::::::::::::::::::::				

SCHEDULE B : ROADWORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3500	STABILIZATION				
35,01	Chemical stabilization extra over unstabilized compacted layers:				
(b)	Base layer, G4 material, 150 mm thick	m³	270,00		
35,02	Chemical stabilizing agent				
(a)	Ordinary portland cement (Mix design required to achieve C3 material)	t	240,00		
35,04	Provision and application of water for curing	kl	450,00		
3500	TOTAL CARRIED TO SUMMARY				
<u> </u>					

SCHEDULE B : ROADWORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
5100	PITCHING, STONEWORK AND PROTECTION AGAINST EROSION				
51.01 (b)	Stone masonary walls: Grouted stone pitching	m3	80,00		
51,03 (b)	Stone masonary walls: Cement - mortared stone wall	m3	65,00		
	GABIONS				
51/52.01	Foundation trench excavation				
(b)	In all other classes of material	m3	180,00		
51/52.02	Surface preparation for bedding the gabions	m²	320,00		
51/52.03	Gabions				
(a)	Galvanised gabions boxes (dimensions of box, nominal diameter of mesh wire and mesh size)				
(i)	(2m x 1m x 1m) with 80x100x2,7 mm mesh	m3	24,00		
(ii)	(3m/4m x 1m x 1m) with 80x100x2,7 mm class A mesh	m3	12,00		
(iii)	Gabion mattresses 0,3m deep with 80x80x2,7 mm mesh) - (3mx1mx.3m)	m3	12,00		
52.04	Filter fabric (Grade U24 or similar approved)	m²	60,00		
5100	TOTAL CARRIED TO SUMMARY	<u> </u>	<u> </u>	<u> </u>	

SCHEDULE B : ROADWORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
5400	GUARDRAILS				
54.01	Guardrails on timber posts:				
(a)	Galvanised	m	120,00		
54.03	Extra over items 54.01 for horizontally curved guardrails factory bent to a radius of less than 45m	m	50,00		
54,04	End treatments				
()	(ii) End treatments where single guardrail sections are used (including additional posts)	No	10,00		
(a) (d)	End wings (b) Bull noses End teatments in accordance with the	No.	30,00		
	drawings where single guardrail sections are used	20	F 00		
	(e) End treatments in accordance with the drawings	no	5,00		
	where double guardrail sections are used	No	8,00		
54,06	Reflective plates	No	60,00		
5400	TOTAL CARRIED TO SUMMARY				

SCHEDULE B : ROADWORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
5600	ROAD SIGNS				
	All Road traffic signs and Rail signage to be compliant to the SARTSM manual				
56,01	Road sign boards with painted or coloured semi-matt background. Symbols, lettering and borders in semi-matt black or class 1 retroreflective material, where the sign board is constructed from:				
(c)	Prepainted galvinised steel plate (chromadek or similar equivalent)				
(i)	Road signs, R series (1200mm dia)				
	(i) Area not exceeding 2m²	m²	50,00		
	(ii) Area exceeding 2m² but not exceeding 10m²	m²	50,00		
	(iii) Area exceeding 10m ²	m²	50,00		
56,02	Extra over item 56.01 for using:				
	(a) Background of retro-reflective material: (i) Class I (i) Class III	m² m²	50,00 50,00		
	(b) Lettering Symbols, numbers, arrows, emblems and borders of retro-reflective material: (iii) Class IV (Micro-Prismatic)	m²	250,00		
56,03	Road sign supports (over-head road sign structures excluded):				
	(b) Timber (i) 125mm minimum dia CCA Treated	m	15,00		
	(ii) 150mm minimum dia CCA Treated	m	50,00		
	(iii) 175mm minimum dia CCA Treated	m	50,00		
56,05	Excavation and Backfilling for road sign supports	m3	80,00		
56,06	Extra Over item 56.05 for cement-treated soil backfill	m3	20,00		
56,07	Extra over item 56.05 for rock excavation	m3	30,00		
B56.10	Danger plates at the speed hump/ headway:				
LI	 (a) Type W332 speed humps (b) Type W401 danger plates (c) Type W402 danger plates (c) Type R1 traffic control ahead sign (d) Type R1,5A and R1,5B regulatory signs (e) TW410 warning device 	No No No No No No	16,00 20,00 20,00 10,00 2,00 8,00		
5600	TOTAL CARRIED TO SUMMARY				

SCHEDULE B: ROADWORKS

ROAD MARKINGS Road-marking paint: White lines (broken or unbroken): 100 mm wide 150mm wide Yellow lines (broken or unbroken):	km km	1,20		
White lines (broken or unbroken): 100mm wide 150mm wide Yellow lines (broken or unbroken):		1 20		
		0,50		
100 mm wide	km	5,00		
White lettering and symbols	m²	120,00		
Retro-reflective road marking paint				
White lines (broken or unbroken)				
100 mm wide	km	2,40		
Yellow lines (broken or unbroken)				
100 mm wide	km	5,00		
White lettering and symbols	m²	25,00		
Setting out and premarking the lines				
(Excluding traffic island markings, lettering and symbols)	km	10,00		
Re-establishing the painting unit at the end of the maintenance period	Lump Sum	1,00		
TOTAL CAPPIED TO SUMMARY				
F V 1 V S (8 Fr	Retro-reflective road marking paint White lines (broken or unbroken) Of mm wide Wellow lines (broken or unbroken) Of mm wide White lettering and symbols Setting out and premarking the lines Excluding traffic island markings, lettering and symbols) Re-establishing the painting unit at the end of the	Retro-reflective road marking paint White lines (broken or unbroken) 100 mm wide	Retro-reflective road marking paint White lines (broken or unbroken) 100 mm wide	Retro-reflective road marking paint White lines (broken or unbroken) 100 mm wide

SCHEDULE B: ROADWORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
6200	FALSEWORK,FORMWORK AND CONCRETE FINISH				
	Provide concrete finish:				
а	Class F1 surface finish to:				
(i)	Concrete pavement layer	m²	1300,00		
6200	TOTAL CARRIED TO SUMMARY				

Steel reinforcement for: (a) Concrete pavement layer (f) Steel reinforcing: kg 6000,00		DESCRIPTION	UNIT	QTY	RATE	AMOUNT
(a) Concrete pavement layer (b) Steel reinforcing: Welded steel fabric kg 6000.00	6300	STEEL REINFORCEMENT				
Concrete pavement layer (i) Steel reinforcing:	63.01	Steel reinforcement for:				
(i) Steel reinforcing: Welded steel flabric kg 6000.00						
Welded steel fabric kg 6000.00	(a)	Concrete pavement layer				
Welded steel fabric kg 6000.00	(i)	Steel reinforcing:				
CORE TOTAL CARRIED TO SUMMARY	()	Welded steel fabric	kg	6000,00		
TOTAL CARRIED TO SUMMARY						
TOTAL CARRIED TO SUMMARY						
TOTAL CARRIED TO SUMMARY						
COOK TOTAL CARRIED TO SHIMMARY						
COOL TOTAL CARRIED TO SHIMMARY						
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0300 TOTAL CARRIED TO SUMMART	6300	TOTAL CARRIED TO SUMMARY				

	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
6400	CONCRETE				
B64.01	Cast in situ concrete				
(a)	Class 30/19 in:				
(i)	Concrete pavement layer	m³	200,00		
(1)	Concrete pavement layer	""	200,00		
L_					
6400	TOTAL CARRIED TO SUMMARY				
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SCHEDULE B : ROADWORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
6600	NO-FINES CONCRETE JOINTS, BEARINGS,				
	PARAPETS AND DRAINAGE FOR STRUCTURES				
66,05	Expantion Joints				
(a	Expansion-Contraction Control joint (see construction drawings)	m	220,00		
6600	TOTAL CARRIED TO SUMMARY				
0000	TOTAL CARRIED TO SUMMART				

SCHEDULE B : ROADWORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
7300	CONCRETE BLOCK PAVING FOR ROADS				
73,01	Concrete block Paving				
	(a) 80mm thick interlocking concrete block paving, Class 25, including 20mm sand bedding	m²	13500,00		
73,01A	Construction of traffic calming devices (Speed Humps)	No	15,00		
73,03 LIC	Provision of approved herbicide and ant poison				
	(a) Provision of materials as stated above	PC Sum	1,00	60000,00	R 60 000,00
	(b) Contractors charges and profit to the PC Sum above	%	60000,00		
7300	TOTAL CARRIED TO SUMMARY				

SCHEDULE B: ROADWORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
8100	TESTING MATERIALS AND				
	WORKMANSHIP				
81,02	Other special tests requested by the Engineer				
(a)	Cost of testing	PC Sum	1,00	100000,00	R 100 000,00
(b)	Charge on prive cost sum Additional tests ordered by Engineer	%	100000,00		
8100	TOTAL CARRIED TO SUMMARY				

SCHEDULE C: TESTING AND PROV SUMS

SECTION TRAINING

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
C3	PROVISION OF STRUCTURED TRAINING				
12,06	Provision for accredited training:				
	(a) Generic skills	Prov. Sum	1,00	160000,00	R 160 000,00
	(b) Entrepreneurial skills	Prov. Sum	1,00	160000,00	R 160 000,00
	(c) Handling cost and profit in respect of sub- items E12.06(a) and (b) above	%	320000,00		
	(d) Training Venue	Lump sum	1,00		
C3	TOTAL CARRIED TO SUMMARY	ı	ı	ı	